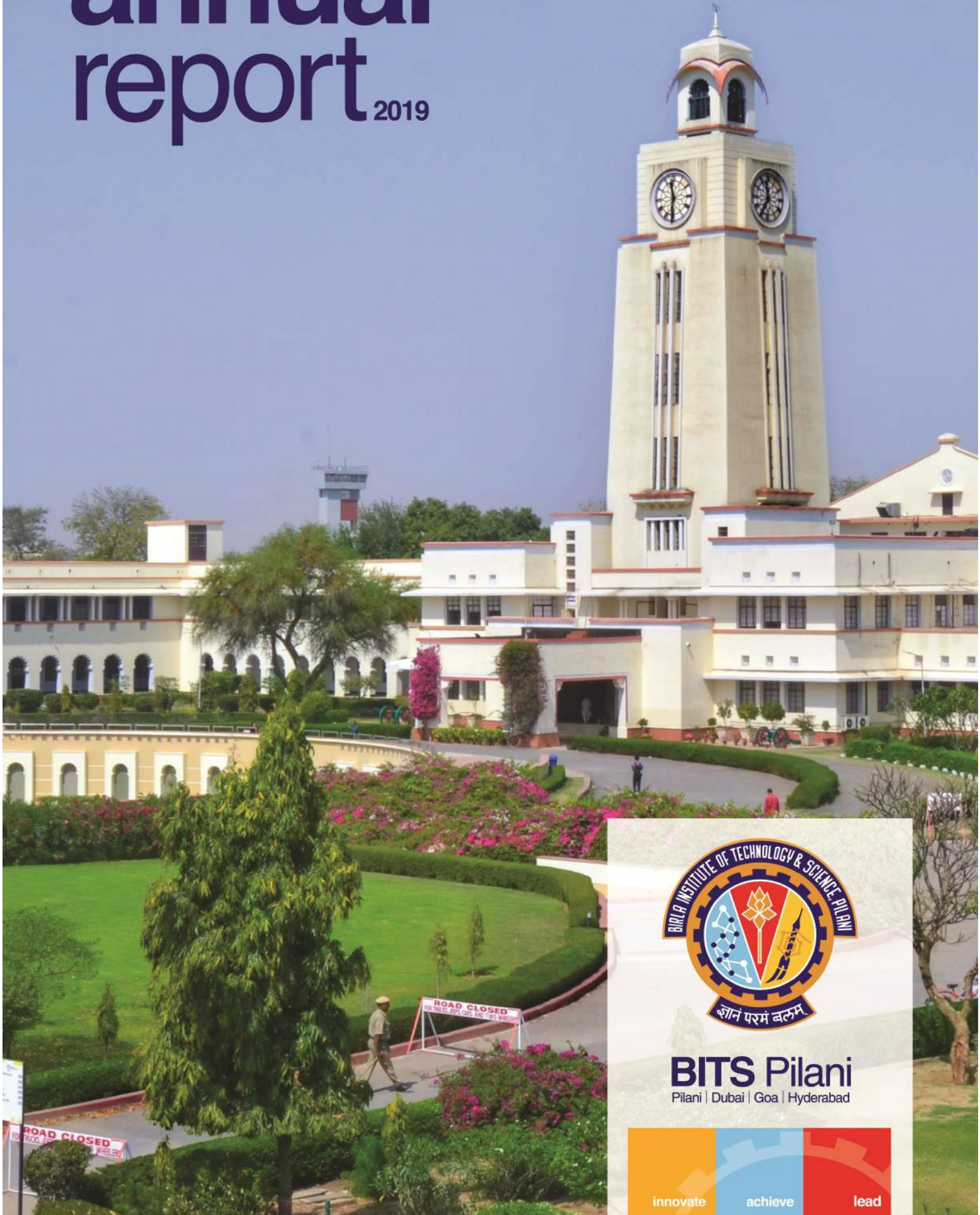


BITS Pilani annual report 2019



BITS Pilani
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innovate

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**ANNUAL REPORT
2019**

**REPORT OF THE BOARD OF GOVERNORS AS TO
THE STATE AND CONDITION OF THE INSTITUTE FOR
THE PERIOD 1ST JANUARY 2019 TO 31ST DECEMBER 2019**



BITS Pilani
Pilani | Dubai | Goa | Hyderabad

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BITS Pilani

annual report 2019

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GOVERNANCE AND MANAGEMENT



Chancellor
Dr. Kumar Mangalam Birla



Pro-Chancellor
Smt. Shobhana Bhartia



Vice-Chancellor
Prof. Souvik Bhattacharyya

OTHER SENIOR OFFICERS OF THE INSTITUTE

DIRECTORS

Prof. Ashoke Kumar Sarkar*
Pilani Campus

Prof. G. Raghurama
K K Birla Goa Campus

Prof. G. Sundar, Hyderabad Campus &
Off-Campus Programmes and Industry Engagement

Prof. Ranendra N. Saha
Dubai Campus

REGISTRAR

Ernest Samuel Ratnakumar J

DEANS

Prof. Arya Kumar
Alumni Relations

Prof. Ajit Pratap Singh
Academic–undergraduate Studies

Prof. S. Gurunaryanan
Practice School

Prof. S. Balasubramaniam®
Work Integrated Learning Programmes

Prof. Suman Kapur
International Programmes and Collaboration

Prof. Sunil Bhand
Sponsored Research and Consultancy

Prof. Srinivas Krishnaswamy
Academic-Graduate Studies & Research

Prof. Souri Banerjee
Faculty Affairs

Chief Finance Officer (On Deputation)

Mr. Arun Khetan

“BITS PILANI DISTINGUISHED ALUMNUS AWARD” RECIPIENTS - 2019

Prof. Arun Abraham Ross



Prof. Arun Abraham Ross received the B.E. (Hons.) in Computer Science from BITS Pilani in 1996. He subsequently received the M.S. and Ph.D. degrees in Computer Science and Engineering from Michigan State University. He was in the faculty of West Virginia University (WVU) from 2003 to 2012 where he received the Benedum Distinguished Scholar Award for excellence in creative research. He is currently a Professor in the Department of Computer Science and Engineering at Michigan State University (MSU) and the Director of the i-PRoBe Lab. His research expertise is in pattern recognition, machine learning, computer vision and

biometrics.

Prof. Ross has made fundamental contributions to the field of biometrics through his extensive scholarly publications. In particular, his research in biometric fusion, security, and privacy have had a tremendous impact on the field. He is the co-author of the textbook “Introduction to Biometrics” and the monograph “Handbook of Multibiometrics”. He has mentored a number of undergraduate and graduate students over the past 16 years. He and his students have received several best-paper awards in technical conferences and workshops. In recognition of his contributions to biometrics, he received the JK Aggarwal Prize and the Young Biometrics Investigator Award from the International Association of Pattern Recognition (IAPR). He is a recipient of the US National Science Foundation CAREER Award and was designated a Kavli Fellow by the US National Academy of Sciences by virtue of his presentation at the 2006 Kavli Frontiers of Sciences Symposia.

Prof. Ross testified as an expert panelist in a counter-terrorism event organized by the United Nations Counter-Terrorism Committee (CTC) at the UN Headquarters in May 2013. He has advocated for the responsible use of biometrics in multiple forums including the NATO Advanced Research Workshop on Identity and Security in Switzerland in July 2018, and in a BBC Newshour Extra program titled "Facing the Future" in August 2017.

Prof. Ross has served in the editorial board of a number of journals and has co-organized several conferences and workshops in biometrics. He was the Chair of the IAPR Technical Committee on Biometrics and Identity Science from 2014 to 2018. He also served as the Vice President of Education of the IEEE Biometrics Council from 2011 to 2014. He has been invited to give the keynote lecture in several reputed venues.

The Distinguished Alumnus Award in the category of Academia and Research is awarded to Prof. Arun Abraham Ross in recognition of his outstanding contributions to the society. Through his achievements, Prof. Arun Abraham Ross has brought glory and laurels to his Alma Mater - BITS Pilani.

Prof. Arun Kumar Sharma

Prof. Arun Kumar Sharma obtained his M.Sc. (Tech) in Computer Science from BITS Pilani in the year 1986. He subsequently received a Ph.D. in Computer Science from the State University of New York at Buffalo in 1990 and postdoctoral training from the Massachusetts Institute of Technology in 1990/91. He is also a graduate of the Australian Institute of Company Directors. At present, he is a Distinguished Professor and Deputy Vice-Chancellor and Vice President (Research and Innovation) at the Queensland University of Technology (QUT), Australia. In this role he has overseen one of the fastest growth in research trajectory of any Australian university reflected in QUT's rapid rise in international rankings. Currently, he is a member of the Advance Queensland Expert Panel, a member of the World Economic Forum Global Future Council on Innovation Ecosystems, and is the Champion of Team Queensland participating in the MIT Regional Entrepreneurship Acceleration Program (REAP).

He was a co-founder of National Information and Communications Technology Australia Ltd. (NICTA) - now Data61 - and was inaugural Director of NICTA's largest research laboratory. Prior to setting up NICTA, he was Head, School of Computer Science and Engineering at the University of New South Wales, Sydney and was a co-founder of the Cooperative Research Centre (CRC) for Smart Internet Technology. He has also served on advisory bodies such as the Queensland Premier's Smart State Council and the Premier's Business Roundtable. He has contributed significantly to development of research and innovation policy in Australia and Queensland. He was a member of the inaugural Independent Advisory Council of the Australian Research Council and a member of the advisory board of the Manufacturing Centre of the Australian Federal Government's Enterprise Connect Program. He has twice chaired the Universities Australia Deputy Vice-Chancellors (Research) Committee and has been a key figure in the advocacy leading to better incentives for university business collaboration.

Prof. Sharma was conferred Member of the Order of Australia (AM) in 2019 Queen's Birthday Honours List for significant service to computer science and information technology. In 2018, he received the Lifetime Achievement Award at the Australia India Business and Community Awards. He was included in the Knowledge Nation 100 list published by The Australian newspaper in consultation with the Office of the Chief Scientist as "one of the country's most effective advocates for the research/wealth-creation nexus" in 2015. He was awarded Queensland Premier's Special Award for contribution to building the export profile of the state at the 2010 Queensland Export Awards. He has also contributed to growing strong business links between Australia and India. He was President of the Queensland Chapter of the Australia India Business Council (AIBC) during 2005 to 2011, and served as the National Chair in 2011 to undertake governance reform of the organization. He also chaired the Queensland India Council – an advisory committee of the Queensland Government – during 2011 to 2014.

The Distinguished Alumnus Award in the category of Academia and Research is awarded to Prof. Arun Kumar Sharma, in recognition of his outstanding contributions to the society. Through his achievements, Prof. Arun Kumar Sharma has brought glory and laurels to his Alma Mater – BITS Pilani.

Prof. Ramanan Laxminarayan

Prof. Ramanan Laxminarayan obtained his B.E. (Hons) in Electronics & Instrumentation Engineering from BITS Pilani in the year 1992. He subsequently received a Master's in Public Health (MPH) and Ph.D. in Economics from University of Washington in 1999. He is the founder and director of the Center for Disease Dynamics, Economics & Policy (CDDEP) in Washington, D.C., and a senior research scholar and lecturer at the Princeton Environmental Institute at Princeton University. He is also an affiliate professor at the University of Washington and a visiting professor at the University of Kwazulu Natal and the University of Strathclyde in Scotland. He is a series editor of the Disease Control

Priorities in Developing Countries, 3rd edition.

Prof. Laxminarayan chairs the board of GARDP, a global product development partnership established by the World Health Organization, that aims to develop and deliver new treatments for bacterial infections. He is also founder and board chair at HealthCubed, which works to improve access to healthcare and diagnostics worldwide.

Through extensive peer-reviewed research, active public outreach (including a widely viewed TED talk) and sustained policy engagement, he has played a central role in bringing the issue of drug resistance to the attention of leaders and policymakers worldwide and to the United Nations General Assembly in September 2016. In 2014, he served on President Obama's Council of Advisors on Science and Technology's antimicrobial resistance working group and is currently a voting member of the U.S. Presidential Advisory Council on Combating Antimicrobial Resistance. In 2003-04, he served on the National Academy of Science / Institute of Medicine Committee on the Economics of Antimalarial Drugs and subsequently helped create the Affordable Medicines Facility for malaria, a novel financing mechanism to delay resistance and improve access to antimalarial drugs.

In 2012, Prof. Laxminarayan created the Immunization Technical Support Unit that supports the immunization program of the Ministry of Health and Family Welfare of the Government of India. This is credited with helping rapidly improve vaccination coverage as part of Mission Indradhanush and introduction of four new vaccines.

Prof. Laxminarayan has authored or co-authored over 250 books, book chapters, and papers in leading international journals such as *Science*, *Nature*, *Lancet* and the *Proceedings of the National Academy of Sciences*. He is a recipient of over \$40 million in grants over his illustrious career. His work has been covered in major media outlets including Associated Press, CBS 60 Minutes, BBC, CNN, the Economist, LA Times, NBC, NDTV, NPR, Reuters, Science, Wall Street Journal, and National Journal.

The Distinguished Alumnus Award in the category of Academia and Research is awarded to Prof. Ramanan Laxminarayan, in recognition of his outstanding contributions to the society. Through his achievements, Dr. Ramanan Laxminarayan has brought glory and laurels to his Alma Mater – BITS Pilani.

Prof. Umesh Garg

Prof. Umesh Garg obtained his B.Sc. in 1972 followed by M.Sc. (Physics) from BITS Pilani in the year 1974. He subsequently completed an MA (1975) and Ph. D. (1978) from the State University of New York at Stony Brook, New York. He is currently Professor of Physics, and Director of the Department of Physics Research Experience for Undergraduates (REU) program, University of Notre Dame, USA.

Prof. Garg's area of expertise is experimental nuclear physics. His current research interests include experimental investigation of compressional-mode giant resonances and exotic quantal rotation in nuclei. Some of his major accomplishments include the discovery of the isoscalar giant dipole resonance, an exotic mode of nuclear vibration, and elucidation of its properties; experimental determination of the nuclear incompressibility and the asymmetry term; first observation of transverse wobbling in nuclei; first observation of tidal waves in nuclei; first observation of a composite pair of chiral rotational bands, and affirmation of chirality in odd-A nuclei; and, first observation of multiple chiral bands ($M\chi D$) in nuclei. He also led the effort in the construction and operation of the Notre Dame/Argonne BGO Detector System at the Argonne National Laboratory, and the design, fabrication, testing and installation of a state-of-art RDM device for use in conjunction with Gammasphere, the foremost gamma-ray detector system in the world.

Prof. Garg has published more than 240 papers in refereed journals of international repute, and given more than 360 invited scientific talks all over the world. His research efforts have been truly international, involving collaborations with scientists in Canada, China, the Czech Republic, France, Finland, Germany, Hungary, India, Italy, Japan, the Netherlands, Poland, Romania, Russia, Turkey, the United Kingdom, and Vietnam.

Prof. Garg is a Fellow of the American Physical Society (since 1999) and of the American Association for Advancement of Science (since 2017). He is also a Fulbright Specialist Awardee (2015); Fellow, Liu Institute for Asia and Asian Studies (2013) and Fellow, Rome International Scholars Program (2015), University of Notre Dame; JSPS (Japan) Fellow (2012); and PKU (China) Fellow (2012). He has been a consultant / visiting or adjunct professor at many universities and institutions such as Texas A & M University, BARC, Argonne National Laboratory, Vrije Universiteit, Amsterdam, GSI, Darmstadt, TIFR, Peking University, and Xi'an Jiaotong University, amongst others. He has been a member, chairperson and organizer of numerous prominent committees, conferences and conventions. He received the prestigious Faculty Award 2018 for his outstanding service to University of Notre Dame.

The Distinguished Alumnus Award in the category of Academia and Research is awarded to Prof. Umesh Garg, in recognition of his outstanding contributions to the society. Through his achievements, Prof. Umesh Garg has brought glory and laurels to his Alma Mater – BITS Pilani.

Prof. Bir Bhanu

Prof. Bir Bhanu obtained his M.E. degree (with Distinction) in Electronics Engineering from BITS Pilani in the year 1974. He subsequently received S.M. and E.E. degrees in Electrical Engineering and Computer Science from Massachusetts Institute of Technology in 1977, Ph.D. degree in Electrical Engineering from the Image Processing Institute, University of Southern California in 1981 and M.B.A. from University of California, Irvine in 1984. At present, he is Bourns Endowed University of California Presidential Chair in Engineering, Distinguished Professor of Electrical and Computer Engineering, Cooperative Faculty in Computer Science & Engineering, Mechanical Engineering and Bioengineering at University of California at Riverside (UCR). Prof. Bhanu was the founding Chair and Professor of Electrical Engineering (1991-94) and the founding Director of Center for Research in Intelligent Systems (1998-2019) at UCR. He served as the interim Chair of the Bioengineering Department (2014-16) and the Director of NSF IGERT program on Video Bioinformatics (2009-16). He was a Senior Fellow at Honeywell Inc. before starting as Professor at UCR in Jan 1991.

Prof. Bhanu is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE, 1995), the American Association for the Advancement of Science (AAAS, 1997), the International Association of Pattern Recognition (IAPR, 2000), the International Society for Optics and Photonics (SPIE, 2003), and the American Institute for Medical and Biological Engineering (AIMBE, 2015).

Prof. Bhanu's current research interests are Computer Vision, Pattern Recognition and Data Mining, Machine Learning, Artificial Intelligence, Image Processing, Image and Video Database, Graphics and Visualization, Robotics, Human-Computer Interactions, Biological, Medical, Military and Intelligence applications. He has received many outstanding journal and conference paper awards with his students, several research excellence and outstanding contributions awards from the academia and industry, including an award from the CEO of Honeywell Inc., an award for the team efforts in a large research program sponsored by DARPA, Research Excellence Award from the Bourns College of Engineering at UCR in 2003, the 2011 Doctoral Dissertation Advisor/Mentor Award from UCR, the Pioneer Award of the Bourns College of Engineering at UCR in 2015 and the Faculty Research Lecturer Award, (the first ever in 30 years to an engineering faculty), the highest research award (given to a single faculty since 1953) of the academic senate at UCR in June 2019.

Prof. Bhanu has published over 550 peer reviewed papers, including over 155 journal papers and 59 book chapters. He has 18 US and International patents and several others pending. He is also the co-author of twelve books. Prof. Bhanu has been the associate editor/guest editor of many journals including IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Transactions on Image Processing, IEEE Transactions on Robotics & Automation, IEEE Transactions on Systems Man & Cybernetics-B, IEEE Transactions on Information Forensics and Security, IEEE Computer, IEEE Sensors Journal, Pattern Recognition, Pattern Analysis and Applications, Journal of Mathematical Imaging and Vision, Autonomous Robots, Computer Vision and Image Understanding, International Journal of Machine Vision and Applications, and others.

The Distinguished Alumnus Award in the category of Academia and Research is awarded to Prof. Bir Bhanu, in recognition of his outstanding contributions to the society. Through his achievements, Prof. Bir Bhanu has brought glory and laurels to his Alma Mater – BITS Pilani.

Dr. Bhagwati P. Agarwal



“Water is freedom. For women it is freedom to work. For girls it is freedom to get an education. For children and elderly, it is freedom from sickness.” Dr. Bhagwati P Agrawal at CNN’s “An All Star Tribute,” 2015.

As a boy, Dr. Bhagwati Agrawal, would accompany his mother to pull water from the village well. One morning, an elderly aunt asked him to pull a few buckets for her but he pretended not to hear her plea. His mother noticed, and she taught him life’s lesson: Stray animals fill their own tummies; human beings fill others’ tummies. The lesson grew on him and in 2003 he dedicated his life to alleviate water scarcity.

Dr. Bhagwati P. Agarwal did his B.E. in Electrical Engineering and M.E. in Control System from BITS Pilani in the year 1964 and 1968, respectively. Subsequently, he obtained Ph.D. from Florida State University and University of South Florida in Engineering Science (1974). He is the Founder and President of Sustainable Innovations Inc., a non-profit organization dedicated to pioneering sustainable social enterprises to provide safe drinking water and to deliver health care to vulnerable populations.

Prior to setting up Sustainable Innovations, Dr. Agarwal has had a successful corporate career with several organizations, such as Vecna Technologies, Information Gateway, Hughes Network Systems, Verizon, ITT Advanced Technology Center, and General Dynamics.

He conceived Aakash Ganga, a self-sustainable domestic rainwater harvesting enterprise, to provide safe drinking water in perpetuity. In 2006, Aakash Ganga won a World Bank Development Marketplace award for sustainability and innovation. In 2007, he won a second World Bank Development Marketplace award for delivery of health care at the doorstep. In 2017, he was a finalist for the \$100,000 Drucker Institute award for non-profit innovations. In 2015, CNN honored him as CNN Hero at its “An All Star Tribute.” Dr. Agarwal is the recipient of 2012 \$100,000 Purpose Prize award for social innovations, the 2010 \$100,000 Lemelson-MIT award for sustainability, and 2010 Energy Globe World Award for environmental sustainability. He was invited by the 2011 World Economic Forum, Davos, and 2012 Indian Diaspora Day (Bharatiya Pravasi Divas) to share his innovations for economic, cultural, operational, and institutional sustainability.

In 2018, he received the Distinguished Alumni Award for humanitarian services from University of South Florida. He is often invited by academic institutions and international bodies to speak on sustainability, social enterprises, and social innovations.

The Distinguished Alumnus Award in the category of Public Life / Entrepreneurship / Philanthropy is awarded to Dr. Bhagwati P. Agarwal, in recognition of his outstanding contributions to the society. Through his tenacious, compassionate, and thoughtful actions, Dr. Bhagwati P. Agarwal has brought glory and laurels to his Alma Mater - BITS Pilani.

Mr. Veerendra Raj Mehta

Mr. Veerendra Raj Mehta obtained his B.E. in Mechanical Engineering from BITS Pilani in the year 1953. He is currently the Executive President of Bhagvan Mahavir Viklang Sahayata Samiti (BMVSS), and a Trustee of Sir Dorabji Tata Trust. Prior to this, Mr. Mehta had a long and successful career as a Civil Servant and was Joint Secretary to the Government of India.

Mr. Mehta has had an illustrious professional career spanning over 50 years, having worked at many senior management positions, such as Chief Administrator and Chief of Procurement for Indian Railways, and Director and Joint Secretary, Ministry of Shipping & Transport. He was also the founder Managing Director of the Dredging Corporation of India. Mr. Mehta worked for 14 years as a senior expert for the Asian Development Bank in Manila, and served as the consultant with World Bank and African Development Bank. He was independent Director and Chairman of Audit Committee of Tata Motors and other companies in the group such as Tata Hitachi Construction Equipment Company and Tata Motors Finance. Besides, he served as an independent Director on the Boards of Birla VXL, Century Enka, TVS Suzuki, Haldia Petrochemicals, Essar Power, SPIC, MMTC, TNPL, Kudremukh Iron Ore Ltd and MOIL.

Mr. Mehta has great passion for humanitarian service to the disadvantaged and is now devoting almost all his time for such activities at the BMVSS and the Tata Trusts. He has helped transform and enrich the lives of millions of people in India and abroad. Mr. Mehta is credited with taking the “Jaipur Foot” beyond the Indian boundaries. He founded the Mahaveer Philippines Foundation Inc. (MPFI) in 1989 and has established three centers for free manufacturing and fitment of prosthetic devices in the Philippines. BMVSS is today the largest artificial limb fitting organization in the world, having assisted over 18 lakh differently abled so far. While in the Philippines Mr. Mehta also worked very closely with Mother Teresa at her homes there. He has written a book on Mother Teresa “Some Inspiring Incidents” that has been translated in four Indian languages. For his exemplary work in Philippines, he was presented with the key to the city of Manila – a rare honor in 1993 and subsequently he was also honored by the Philippines House of Representatives in 2010. He was honored by the Government of India in 2015 with Padma Shri, the fourth highest Indian civilian award.

The Distinguished Alumnus Award in the category of Public Life / Entrepreneurship / Philanthropy is awarded to Mr. Veerendra Raj Mehta, in recognition of his outstanding contributions to the society. Through his tenacious, compassionate, and thoughtful actions, Mr. Veerendra Raj Mehta has brought glory and laurels to his Alma Mater - BITS Pilani.

Mr. Manu Sawhney



Mr. Manu Sawhney obtained his B.E. (Hons) in Mechanical Engineering from BITS Pilani in the year 1984. He subsequently did Master's in International Business from Indian Institute of Foreign Trade (IIFT), Delhi. He is currently the Chief Executive, International Cricket Council (ICC). He also serves on the board of Manchester United Plc and is a Member of the Young Presidents' Organization, Inc.

Mr. Sawhney is the former CEO of Singapore Sports Hub and Managing Director of ESPN Star Sports with over 22 years of commercial experience in both sports and media in senior leadership roles.

He was with ESPN Star Sports for 17 years and during his tenure as Managing Director, he reported directly to the ESPN Star Sports board with a mandate to build and scale up the content and business franchise across Asia and drive shareholder value. He was responsible for business leadership and P&L across 24 countries and 10 offices.

He then led ESPN Star Sports' growth and expansion across multiple platforms in various local markets across Asia including business expansion in Taiwan, the start-up of a new joint venture in Korea, consolidation of business in China and securing long-term strategic partnerships in Malaysia and Singapore.

During his stint in India, he was responsible for building ESPN Star Sports from a start-up to the market leader in Sports broadcasting and among the top businesses in Indian media sector. He conceptualized & introduced several breakthrough initiatives setting new benchmarks in the Indian media industry and winning ESPN STAR Sports numerous industry awards including the best sports channel in India for six consecutive years. Additionally, he led the global broadcast partnership deal with the ICC that ran from 2007 to 2015. His experience in this field will help shape his vision for cricket to undergo transformative growth with technology and innovation at the forefront of this change.

Since 2012, he has been an independent director and member of the audit committee of Manchester United Plc, and also served on the Steering Committee of the 28th South-East Asian Games.

He is a member of the global leadership network, Young Presidents' Organization and was voted as one of the top ten most influential sports executives globally over the past two decades in sportcal.com survey (2010). He is married to Rachna and has a son, Arjun and a daughter, Gaurika.

The Distinguished Alumnus Award in the category of Corporate Leadership is awarded to Mr. Manu Sawhney, in recognition of his outstanding contributions to the society, as a Corporate Leader. Through his achievements, Mr. Manu Sawhney has brought glory and laurels to his Alma Mater - BITS Pilani.

Mr. Amitabh Chaudhry



Mr. Amitabh Chaudhry obtained his B.E. (Hons) in Electrical and Electronics Engineering from BITS Pilani in the year 1985. Subsequently, he did his PGDBM from IIM Ahmedabad in the year 1987.

Mr. Chaudhry is currently the Managing Director & Chief Executive Officer of Axis Bank. Before joining the Bank, Mr. Chaudhry had a long and successful stint of nine years at HDFC Life. Under his leadership, HDFC Life emerged as one the finest brands in the insurance space and is today one of India's largest private life insurers.

Prior to HDFC Life, Mr. Chaudhry was the Managing Director and CEO of Infosys BPO and the Head of Testing unit of Infosys Technologies Ltd. He was instrumental in building the BPO business right from its inception and was later credited for making it an extremely profitable franchise having presence across seven countries. He started his career with Bank of America in 1987 and played diverse roles such as Head of Technology Investment Banking for Asia, Regional Finance Head for Wholesale Banking and Global Markets, and Chief Finance Officer of Bank of America (India). He moved to Credit Lyonnais Securities in 2001 as the Head of Structured Finance practice and later took over as the Head of Investment Banking franchise for South East Asia before joining Infosys BPO in 2003.

Mr. Chaudhry has served as Director on the board of several reputed organizations and has received numerous awards and recognitions.

The Distinguished Alumnus Award in the category of Corporate Leadership is awarded to Mr. Amitabh Chaudhry, in recognition of his outstanding contributions to the society, as a Corporate Leader. Through his achievements, Mr. Amitabh Chaudhry has brought glory and laurels to his Alma Mater - BITS Pilani.

Ms. Akila Krishnakumar



Ms. Akila Krishnakumar obtained her Master of Management Studies (MMS) from BITS Pilani in the year 1983. After a long and successful career spanning 30 years in the technology sector, Ms. Akila now divides her time equally between corporate and the social sector.

She is the founding partner of India's first venture philanthropy organization - Social Venture Partners – which has built a network of engaged philanthropists across 6 cities in India to address complex livelihood issues. Along with her family, she recently set up the MELA Foundation – an organization that supports innovative ideas in the areas of Ageing, Environment, Learning and Mental Health.

On the corporate side, she is an independent director at renowned listed companies in India. Prior to this non-executive role, she was the President – Global Technology and Country Head for SunGard – a Fortune 500 company and a global leader in financial services software till 2013. Having joined Wipro right out of the gates of Pilani, she moved on to setup India's first enterprise scale product development company focused on the US higher education market in 1993. After steering the company through three acquisition transactions and helping grow the business to \$750 million, the business was acquired by SunGard in 2005.

Ms. Akila has chaired and led many business and industry associations in her career. She has also won several awards and accolades including being among the top 5 women leaders in the Indian technology industry for many years and was also listed amongst the “50 Most Powerful Business Women in India”.

The Distinguished Alumnus Award in the category of Corporate Leadership is awarded to Ms. Akila Krishnakumar, in recognition of her outstanding contributions to the society, as a Corporate Leader. Through her achievements, Ms. Akila Krishnakumar has brought glory and laurels to her Alma Mater - BITS Pilani.

Mr. Sanjay Jalona



Mr. Sanjay Jalona obtained his M.Sc. (Tech) in Computer Science from BITS Pilani in the year 1990. During last three decades, he has earned respect and recognition as an accomplished business leader in global technology and consulting domain. Mr. Sanjay Jalona has inspired thousands of professionals across continents with his management excellence, integrity, and humility.

Currently, he is the Chief Executive Officer and Managing Director at Larsen & Toubro Infotech (LTI), one of the fastest growing technology companies. He joined the company in 2015 and has since led a rapid and comprehensive transformation of LTI into a leading technology consulting and digital solutions company. At LTI, he has guided the company through one of the sector's most successful IPOs in a decade and a rebranding effort that positioned LTI as a leader in the convergence of digital and physical world. Under his leadership, LTI surpassed USD 1 Billion in revenue, grown rapidly to more than 28,000 employees, and acquired best-of-breed technology companies. For its industry-leading performance, LTI has been recognized as the Most Admired Company of the Year by BTVi in 2018.

Mr. Sanjay Jalona's career has been marked with effective leadership, and implementation of change strategies that accelerate growth and transform large businesses. Prior to joining LTI, he was the Executive Vice President and Global Head of High-Tech, Manufacturing and Engineering Services business at Infosys. During his 15 years at Infosys, he held several leadership positions across industries such as Banking, Financial Services, and Retail & CPG, in USA, Europe and India. He was at the helm of 16,000-member team for Manufacturing and 10,000-member team for Engineering Services, delivering more than 23% of Infosys revenues and growing at a CAGR of 18%, the fastest growing business unit for 4 years consecutively. Prior to Infosys, he held leadership roles at Gemplus and Wipro.

For his accomplishments, Institutional Investor magazine ranked Mr. Sanjay Jalona among the best CEOs in the technology category in its 2018 All-Asia Executive Team list. The Businessworld magazine selected him as the Exemplary CEO of the Year in 2017. He is a member of the Wall Street Journal CEO Council.

The Distinguished Alumnus Award in the category of Corporate Leadership is awarded to Mr. Sanjay Jalona, in recognition of his outstanding contributions to the society, as a Corporate Leader. Through his achievements, Mr. Sanjay Jalona has brought glory and laurels to his Alma Mater - BITS Pilani.

A.1 HIGHLIGHTS OF ACHIEVEMENTS DURING THE YEAR 2019

1. A total of 142651 candidates, including 38628 girls, from all over the country applied for BITSAT 2019 test. The candidates had the option of choosing their own centers, date and time for the test, which was conducted during 16th May to 30th May, 2019.
2. 16 Board toppers of Class XII of 2019 have joined three campuses of BITS Pilani this year.
3. Campus placement improved during the year. Four campuses put together, number of companies which conducted campus interview for recruitment rose from 653 in 2018 to 738 in 2019.
4. Ranking of BITS PILANI released by various International and National agencies in 2019.

Agency	Year	Heading	Ranking/ Rating
Time Higher Education (THE)	2020	THE World University Ranking	1001+
		THE World university Ranking for Subject LIFE SCIENCE	501-600
		THE World University Ranking for Subjects ENGINEERING AND COMPUTER SCIENCES	601-800
		THE World University Ranking for Subjects PHYSICAL SCIENCES	801-1000
Quacquarelli Symonds Marketing (QS)	2020	QS World University Rankings	801-1000
		QS Asia University Ranking	175
		QS India University Rankings	18
NIRF	2019	Overall	39
		University	23
		Engineering	25
		Pharmacy	5
Career 360	March 2019	Top Private Engineering Colleges	1 (AAAA+)
		Top Engineering Colleges in India	7 (AAAA+)
		Best Universities in India	4
India Today	May 2019	Top Private Engineering Colleges	1
Outlook	June 2019	Top 30 Private Colleges	1
		Top 10 in Placement	2
		Top 10 in Infrastructure	6
		Top 100 Engineering College	6
		Top 10 in Academic Excellence	7
		Top 10 in Selection Process	7
		Top 10 Industry Interface	7
		Top 10 Student / Faculty Ratio	7
The Week	June 2019	All India Engineering Colleges	7
		Private Engineering Colleges	1
		Top Technical Universities All India	5
		Top Technical Universities Non-Government	1
The Week (for B-Schools)	October 2019	B-Schools All India	26
		Private B-Schools All India	11
		B-Schools North Zone (including Govt. Instt)	8
		Private B-Schools North Zone	3

Figures in bracket denote Rating. AAAA+ denotes Outstanding
Data compiled by Institutional Knowledge Analysis Cell (IKAC), BITS Pilani

Pilani Campus

1. Convocation ceremony for the graduating students who have completed the eligibility requirements in the Second Semester 2018-19 in First Degree, Higher Degree and PhD Programs was held on July 21, 2019. Out of 1481 eligible to receive their degrees 1118 received their first degrees, 327 received their higher degrees, and 36 received their doctorate degrees. Mr Rajat Jain (2015A7PS0549P) received the Gold Medal, Mr Vignesh Nanda Kumar (2015A7PS0355P) received the Silver Medal and Mr Harsh Kanodia (2014A1B10525P) received the Bronze Medal. The Chief Guest on this occasion was Mr Sonam Wangchuk - a Mechanical Engineer who has been mostly working in the field of education reform for more than 27 years, applauded the faculty members and students for academic excellence in various fields and congratulated BITS, Pilani for attaining the status of Institute of Eminence. This year 5,540 students graduated from our Off-Campus programs having 23.5% female students.
2. The Distinguished Alumni Awards were given to eleven of BITS, Pilani for their outstanding and exemplary contribution towards Academia, Corporate Leadership, Entrepreneurship, Public Life and Philanthropy on July 20, 2019. The awardees were: Manu Sawhney (1988 batch), Amitabh Chaudhry (1985 batch), Veerendra Raj Mehta (1953 batch), Akila Krishna Kumar (1983 batch), Sanjay Jalona (1990 batch), Arun Abraham Ross (1996 batch), Arun Kumar Sharma (1986 batch), Bir Bhanu (1974 batch), Ramanan Laxminarayan (1992 batch), Umesh Garg (1974 batch) and B P Agarwal (1968 batch). They shared their experiences and wonderful memories with the audience and also promised that they will continue their active participation in the development and upliftment of their alma mater. Vice-Chancellor, Prof Souvik Bhattacharyya admired the success of Alumni in different fields and stated that in the ongoing strategic exercise for the growth of the institute, alumni engagement has been identified as one of the key pillars and the first Dean, Alumni Relations has been appointed to have a deeper engagement with Alumni. Director, Prof Ashoke K. Sarkar, talked about the academic, research and infrastructure developments in Pilani campus and asked for the commitment from Alumni that they should spend at least a semester or a month in Pilani Campus to interact with students and faculty for their holistic benefit.
3. BITS Pilani has been awarded the Federation of Indian Chamber of Commerce and Industry (FICCI) Higher Education Award 2019 for "Excellence in Employability through Industry Engagement" on November 28, 2019 by Mr. Nitin Gadkari, Minister of Road Transport and Highways of India and Shipping Ministry of Micro, Small and Medium Enterprises in the Government of India.
4. A Memorandum of Association (MoA) has been signed between BITS Pilani, represented by Vice Chancellor Prof Souvik Bhattacharyya and Data Security Council of India (DSCI), a NASSCOM initiative, represented by Vice President Mr Vinayak Godse. The MoA is valid for four years from the date of signing. BITS Pilani and DSCI will work together to focus on various areas for Cybersecurity and Privacy. BITS Pilani will be responsible for academic and educational support, execution of co-creation research, and technology development. and provide logistics support for Industry interactions. DSCI will be responsible for visibility at the level of industry and government and will assist in organizing skill and capability building programs, workshops, challenges, hackathons, and other such initiatives.
5. BITS-Pilani and DSCI will collaborate to focus on various areas for Cybersecurity and Privacy. The MoA specifically aims at strengthening research and innovation in the field of Cyber security and it will foster co-creating technologies and products with leading industry players and government institutions. BITS Pilani will be responsible for academic and educational support, execution of co-creation research, and technology development. While DSCI will be responsible for visibility at the level of industry and government and will assist in organizing skill and capability building programs, workshops, challenges, hackathons, and other such initiatives.
6. Revathi Advaiti (1986-1990 batch) has been appointed as the Chief Executive Officer (CEO) of Flex Ltd. Formerly, Ms Advaiti was President and Chief Operating Officer, Electrical Sector, of Eaton Corporation plc.
7. Mr Sanjay Ramabhadran, (1988-1992 batch) has been appointed as the President of Texas Lyceum, a nonprofit organization that works to identify the next generation of top leaders. Mr. Sanjay is the first immigrant and Indian American president of Texas Lyceum.
8. Prof S.P. Kothari, a distinguished Alumnus awardee has been elevated to the position of Chief Economist and Director of the Division of Economic and Risk Analysis (DERA) of US Securities and Exchange Commission (SEC). He is a Professor of accounting and finance and recently ended a six-year term as Deputy Dean of MIT Sloan School of Management.

9. Mr Manu Sawhney (1984-1988 batch) has been appointed as the CEO of International Cricket Council.
10. The Alumni meet was organized on February 23, 2019 for the batch of 1974-79. It was an event for old relationships to be cherished, refreshed and new ones to be formed, reflecting and recollecting the good old times and memories.
11. Mr. Kashyap Kompella, CEO of rpa2ai Research (a global industry analyst firm focused on Automation and Enterprise AI) and an alumnus of BITS Pilani, Pilani Campus (Batch 1994) is named one of the top Global Thought Leader and Influencer on Blockchain by Thinkers360. Thinkers 360 recently released its list of the Top 50 Global Thought Leaders and Influencers on FinTech. Kashyap Kompella has 20 years of experience as an Industry Analyst, Hands-on Technologist, Management Consultant and M&A Advisor to leading companies.
12. Shri Baba Kalyani, our Alumnus and Bharat Forge's chairman and MD has been conferred with the 'Order of the Rising Sun, Gold and Silver Star' by the Government of Japan. He is one of the foreign recipients of this year's Autumn Decorations for his contribution to strengthen business ties between Japan and India. 'The Order of the Rising Sun' was established by Emperor of Japan in 1875, it is the Japanese government's second-highest national honor, which is awarded to those who have made distinguished achievements in international relations, promotion of Japanese culture, advancements in their field and development in welfare or preservation of the environment.
13. Mr. Amur Swaminathan Lakshminarayanan who did his BE in Mechanical Engineering in 1983 from BITS Pilani has been appointed as the Managing Director and Chief Executive Officer of the Tata Communications. Prior to joining Tata Comm, Mr. Lakshminarayanan was the president and CEO of TCS Japan where he was in charge of accelerating the company's market opportunity and developing the brand in the region. He has over 35 years of experience across industries and regions around the world.
14. Dr Milind Tambe, (1987 Batch) has been appointed as the Director of AI for Social Good at the Artificial Intelligence (AI) Lab of Google Research India in Bengaluru. The company announced this at the Google India event in New Delhi. The AI lab will partner with researchers across India and use developments to enhance the apps and services it offers along with using the research in the field of healthcare and education. Dr Tambe has served as the Professor of Computer Science and Director of the Center for Research in Computation and Society (CRCS) at Harvard University.
15. Mr. Peeyush Shukla (1988 batch), M.Sc.(Tech.) in Computer Science from BITS Pilani has been appointed as a Chief Information and Technology Officer of Heitman LLC - A global real estate investment management company. Peeyush will be responsible for leading Heitman's Information Technology initiatives and Infrastructure Group in support of its global investment management business.
16. Mr. Bala Vishwanath (1990 Batch), BE in Electrical and Electronics Engineering has been appointed as the Chief Marketing Officer of CoreStack. He will be responsible for global brand positioning and product marketing strategies, as well as for leading CoreStack's market development, communications, events, digital marketing and demand generation. CoreStack is a global cloud governance platform provider that empowers enterprises to achieve continuous and autonomous cloud compliance and operations.
17. Mr. Sanjeev Kaushik (1990 Batch), BE-Mechanical Engineering and 1992-Batch officer of Kerala cadre has been appointed as the Additional Secretary, Department of Financial Services, Government of India. Prior to this, he was the Vice Chairman and Managing Director of Kerala Financial Corporation (KFC). He has also held multiple positions such as Chairman & MD of India Infrastructure Finance Corporation Limited (IIFCL), CEO of IFCI Limited and Director of Capital Markets, Department of Economic Affairs, Ministry of Finance. He is also a whole-time member of SEBI. Mr. Kaushik has also served as the Managing Director, HSBC Global Banking and Markets; Managing Director, Lehman Brothers; Equity Research Analyst, Bank of America and Mergers Acquisitions, ING Bearings.
18. Mr Sid Mookerji (1989 Batch), BE- Electrical & Electronics Engineering and Silicon Road founder and managing director has been conferred with the Sig Mosley Entrepreneurial Leader-2019 award by TechBridge, Inc. He is being awarded for his exceptional IT leadership values that nurture bright ideas, promote a fertile innovation ecosystem and build community among Georgia's dynamic technologists. Techbridge is Atlanta's premier non-profit organization using innovative technology to break the cycle of generational poverty. He is also CEO and co-founder of Silver Spirit Global LLC which operates tech parks in India and the US.
19. Harish Bhat (1985 Batch) BE- Electrical & Electronics Engineering and Brand Custodian, Tata Sons has been recognized as one of LinkedIn's Top 25 Voices in India for 2019. He joined the Tata Group in 1987,

as an officer in the Tata Administrative Service (TAS). During his career spanning over 30 years with the Tata Group, Mr Bhat has held several senior roles. These include stints as Managing Director of Tata Global Beverages Ltd., Chief Operating Officer of the Watches and Jewelry businesses of Titan Company Ltd., and the telecom business of the Group.

20. LinkedIn, in its 5th annual Top Voices list highlighted professionals in a variety of industries and regions who are building communities and starting thoughtful conversations on LinkedIn through their articles, posts, videos and comments.
21. Chandradeo Arya (2017 Batch) and founder of social impact startup, CheckRoof has secured the first position in "Airbus Global Earth Observation Challenge 2019". The competition was organized by Airbus Defense and Space unit in Toulouse, France. His Project CheckRoof has become the first Indian project to achieve this feat amongst 141 other companies from over 50 countries of the world. Check Roof is solving the problems related to harvesting of rainwater, solar power and energy conservation. It calculates the amount of natural resource that can be saved by using satellite imagery, 3D mapping and data analytics of historical data. CheckRoof was founded by Mr. Arya in March 2019. The Startup has also been recognized by NITI Aayog and selected under an acceleration programme for social startups at Atal Innovation Centre.
22. Prince Singhal (2016 Batch) received the National Youth Awards at a function organised by the Ministry of Youth Affairs and Sports. Hon'ble Kiren Rijju, Union Minister for Youth Affairs & Sports, conferred the awards on individuals (aged between 15-29 years) and organizations for excellent work and contribution in different fields of development and social service. He has been working in the Left Wing Extremism - LWE affected districts of Godda, Dumka and Deoghar to lead tribal to development. In the last 2 years, he worked in collaboration with the government, administration, organizations and people to start a change on the ground He received this award in New Delhi on August 12, 2019
23. Ms Nithya Balasubramanian, (2005 Batch) BE (Hons)-Electrical & Electronics Engineering & Vice President Cipla has been featured in the coveted list of 40 under 40 Young Business Leaders of 2019 by the Economic Times. The Economic Times 40 under 40 is the definitive listing of India Inc.'s top business leaders. The list honors 40 of the brightest corporate leaders, entrepreneurs and owner-professionals of the country under the age of forty.
24. Padma Shri Mr Pratap Pawar (1969 Batch) B.E. in Civil Engineering has been elected as Chairman of Media Research Users Council (MRUC). The announcement was made at its Board meeting following the 25th Annual General Meeting in Mumbai on September 4, 2019. Media Research Users Council (MRUC) is a registered not-for-profit industry body. The Council is committed for producing research studies that help media organizations to build credible business models. Shri Pratap Pawar is an Indian industrialist, and chairman and managing director at Sakal Papers Pvt Ltd. He was conferred with Padma Shri Award, the fourth highest civilian award in the country for his contribution to trade and industry in India. Apart from being on the Board of the Sakal Group since 1985, he has also served on the Boards of several prestigious Indian and International companies. Pawar is also chairman of the ASK Chemicals Foundry Solutions India Pvt. Ltd and a director on the board of several companies like Bharat Forge, Finolex Cables, Kirloskar Oil Engines and Force Motors.
25. TapChief Founded in 2016 by Shashank Murali ((2016 Batch) MSc Mathematics, Binay Krishna (2016 Batch) BE- Mechanical engineering, and Arjun Krishna (2016 Batch). BE, Computer Science has Raised a Pre-Series A round of \$1.5 million from homegrown investment firm Blume Ventures. TapChief is a platform for professionals to earn incomes without a full-time job. This is its second financing round this year after it raised \$650,000 from marquee investors like Paytm, 500 Startups, Cred founder Kunal Shah and former Flipkart executive Mekin Maheshwari in June. Also, the company has grabbed the third spot in 2019 LinkedIn "Top Startups List" and shortlisted in the Best on Campus category at The Economic Times Startup Awards 2019.
26. A Seven-day Indo-French Research workshop on "Theory and Simulation of Hyperbolic PDEs" arising in Mathematical Biology and Fluid Flow (TSHPDE-2019) was organized by the Department of Mathematics during January 5-11, 2019. Prof Youcef Mammeri, convener from France discussed the possible collaboration between BITS Pilani and French institutions for various joint projects. Prof B.K. Sharma, Head, Department of Mathematics informed the participants about the opportunity for collaboration and research in interdisciplinary areas. Director, Prof Ashoke K. Sarkar, spoke about the foundation of the institute and suggested the participants to explore the possibility of interaction with national and foreign experts on various disciplines of Mathematics. Prof Fernando da Costa, Chief Guest of the conference highlighted the significance of mathematics in real-life applications and also about the importance of this workshop.

27. Department of Electrical and Electronics Engineering, BITS Pilani, had organized a two-day National workshop on “Power Electronics Applications and Real-time Implementation” during January 18-19, 2019. Prof V.K. Chaubey, Head, Department of Electrical and Electronics Engineering informed the participants about the opportunity for collaboration and research in relevant areas. Chief Guest, Prof Jamil Akhtar, highlighted the significance of recent trends in device modelling in power electronics. Prof Chandra Shekhar, Senior Professor Emeritus briefly introduced the recent advances in the control algorithms and their application into this domain.
28. The Interdisciplinarity of Knowledge, Education and Research (IKER)’s, a two-day conference was organized during February 8-9, 2019 to bring academics, industry professionals and practitioners under one umbrella to deliberate on the relationship between various sciences and examine the theoretical and practical aspects of interdisciplinarity of knowledge. The Chief Guest for the inaugural function was Prof Furqan Qamar, Secretary-General, Association of Indian Universities and the Guest of Honour was Prof Robin Shields, Associate Professor, International Centre for Higher Education Management, University of Bath, UK. The Director, Prof Ashoke K. Sarkar, highlighted the importance of interdisciplinarity in today's education. Prof. Furqan Qamar spoke about the transition of single discipline to interdisciplinarity in today's field of education and that this transition is very important for educational institutions. Prof Robin Shields added that this transition will indeed be a game-changer in the field of education for both India and UK. The keynote speaker Prof Bijoy Boruah spoke about the importance of interdisciplinarity in today's economic world.
29. The 16th Theoretical Chemistry Symposium (TCS-2019) was organized by the Department of Chemistry at BITS Pilani, during February 13-16, 2019. Over 320 external delegates comprising over 100 faculty delegates (including 4 foreign delegates) 3 industry delegates and over 220 students had gathered for the same. Held biennially, TCS has been the largest platform for theoretical and computational chemistry community in India. Vice-Chancellor, Prof Souvik Bhattacharyya, emphasized on the key role of theoretical and computational sciences in strengthening the ties with other areas of science and technology. Prof Shridhar R. Gadre, Distinguished Professor at Savitribai Phule Pune University and the Guest of Honour for the inaugural function presented a brief history of the symposium series and highlighted how the idea of TCS has evolved over the years, since its conception in 1986.
30. BITS Pilani Library in collaboration with National Digital Library of India, IIT Kharagpur organized a two-day workshop on Institutional Digital Repositories during February 25-26, 2019. During the inaugural session, Prof P.P. Das, Joint Principal Investigator, NDLI Project (initiated by IIT Kharagpur with support from MHRD, Govt. of India) introduced the project and its various technical requirements. The project already has over 2 crore digital resources which are most versatile and can serve right from the school children to the research scholars on wide-ranging subjects. Dr Sutradhar, Librarian, IIT Kharagpur talked about how librarians can contribute to the NDLI project by digitizing the contents of their institution, universities, colleges and how NDLI can help the librarians to set up the Institutional Digital Repositories by using open source software such as D-Space and share their content with NDLI. Vice-Chancellor, Prof Souvik Bhattacharyya, congratulated BITS Pilani library and IIT Kharagpur for conducting the workshop for the benefit of librarians and also for their institutions. He encouraged the participants to implement IDR in their respective libraries.
31. The Study India Program is a cultural interface between India and Japan that provides an opportunity to the young learners to observe, interact and participate in each other's culture both in academic as well as in co-curricular sense. It was a 10-day long program organized by the Department of Humanities and Social Sciences, BITS Pilani for the Hiroshima University, Japan during February 25 - March 07, 2019. The program helped in raising the participant's awareness of multi-cultural and multi-ethnic diversity. Prof G.S. Chauhan, coordinator of the program, in the inaugural ceremony emphasized on the importance of such programs that promote international peaceful co-existence, universal harmony and sustainable development. Prof S. K. Choudhary, Head, Department of Humanities and Social Sciences, spoke about the different activities and plans of the department and also introduced faculty members of BITS and their areas of expertise to the audience. Vice-Chancellor, Prof Souvik Bhattacharyya formally welcomed the guests and shared his views on the importance of cultural exchange programmes, need for international collaboration in knowledge sharing, education and research.
32. International Women's Day was celebrated at BITS Pilani on March 8, 2019. Around 45 women participated in various cultural activities such as Dance, Music, Songs, Games and Fashion Show on varied themes ranging from age-old classics to contemporary non-fiction and the key-literary pieces. Prof Sangeeta Sharma organized and Prof Sushila Shekhawat anchored the event.

33. The Teaching-Learning Centre of BITS Pilani, had organized a two-day workshop on Team-Based Learning during March 8-9, 2019. The resource person, Dr Preman Rajalingam, is an Assistant Dean, Educational Development and a Senior Lecturer, Medical Education in Nanyang Technological University, Singapore. He introduced the concept of “Team-based Learning” (TBL) and “Problem-based Learning” (PBL) to the participants and offered hands-on exercises and discussion on student-centered approaches to learning in three consecutive sessions.
34. 4th Workshop on Analytical Instruments for Chemical and Environmental Engineers (WAICEE-2019) was organized by the Department of Chemical Engineering, BITS Pilani and Indian Institute of Chemical Engineers (IChE), Pilani Regional Center during March 25-26, 2019. The theme of the Workshop was to enhance the understanding of principle and working of analytical equipments such as XRD, GCMS, FTIR, AAS, SEM, XPS, TGS, DSC and Particle analyzer. WAICEE-2019 attracted 50 participants in total which included 27 out-station participants from AMU, Aligarh; JNU, Jaipur; GLA, Noida; Central University, Ajmer; MNIT, Allahabad; Forensic Science Lab, Delhi and Institute of Chemical Technology, Mumbai and 23 in-station participants from Pilani campus. Director, Prof Ashoke K. Sarkar, shared his thoughts on how young researchers should understand the basic philosophy about the working of machines. The Chief Guest of WAICEE-2019, Dr Goutam Ghosh, Senior Vice President, Vaccines & Biological and Technology Management, Panacea Biotec, New Delhi spoke about qualification and validation of the equipment in his inaugural speech while also emphasizing the importance of quality guidelines for venturing into analytical equipment.
35. 25 serving and retired alumni from the defence services visited BITS Pilani for the 1st BITS Defense Officers' Reunion during April 5-7, 2019. The two-day event saw alumni across batches renewing friendships and reliving their time on the campus. The alumni also had informative and engaging discussions with the students about their experiences, joys and challenges of defence as a career. Director, Prof Ashoke K. Sarkar welcomed the Alumni and also said that their experience and talent are valuable both for the students and Institute's growth. Speaking on the occasion, Prof Arya Kumar, the Dean, Alumni Relations showed gratitude to the officers for their selfless contribution to the nation. Rear Admiral Arun Saxena stated that BITS is an institution that has contributed a lot to defence services and BITSians from defence services would be eager to contribute in promoting research and other teaching initiatives in their Alma mater to take it to great heights.
36. The Asian Society for Engineering Education (AsiaSEE) was officially launched at the University of Hong Kong (HKU) on May 8, 2019, which marked the establishment of the first Asian regional network of higher educational institutions to improve engineering education. The Founding President of AsiaSEE, Dr. Cecilia Chan from the Centre for the Enhancement of Teaching and Learning at HKU, and the Vice President of AsiaSEE, Prof Haydn Chen from Taiwan National Chiao Tung University, delivered the officiating address and introduced how the idea of developing an engineering education network finally came into reality through joint efforts of different parties. Over 20 founding members from universities across Asia including Hong Kong, Singapore, Korea, China, Thailand, India, Philippines, Taiwan, Malaysia, Macau, Vietnam and UAE signed a declaration of commitment to join AsiaSEE to work together for the advancement of engineering education. Dr Kaushar Vaidya, Faculty in-charge, Teaching Learning Centre, BITS Pilani, attended the launch event and signed the declaration of commitment as a founding member of the society.
37. Academic counselling cell organized a panel discussion on the topic 'Life at BITS and beyond' on August 3, 2019. Notable alumni, current students and professors were the panelists of the discussion. Srajan Jain (Flipkart), Anupam Purwar (Amazon), Ajay Shrinivas (Higher Studies-University of Saskatchewan), Saniya Dasot (Preparing for UPSC CS), Padmavilochani (Current student), Sahili VT (Current student), Prof Srinivasan and Prof Naveen Singh were the panelists. Prof. P. Srinivasan, as the moderator, navigated the discussion around academia, extracurricular activities, life at BITS Pilani and future prospects.
38. The Asian Smart Cities Research and Innovation Network (ASCRIN), developed by La Trobe University (Melbourne, Australia) along with partners (IIT Kanpur) and (BITS Pilani) – was announced by La Trobe's Vice-Chancellor, Prof. John Dewar during his visit to India. The aim of the large-scale initiative is to build a critical mass of resources, know-how and targeted research strength from the three universities, along with close engagement with industry and local government, to deliver impact for the sustainability, liveability and efficiency of cities across Asia. The research network will include La Trobe – IIT Kanpur Research Academy and a joint PhD and research framework with BITS Pilani, guided by a network of Industry experts. comprising senior leaders from corporates, consulting houses, small and medium businesses and Government. Key themes for research and industry collaboration are around infrastructure and technology; economic development; mobility and transport; health and well-being; education; urban planning;

governance and engagement; security and safety; culture and heritage; and energy, water and waste. More than 70 academics from the three universities have already joined the research and innovation network, with the aim of creating new joint research professorships and a joint PhD program with more than 50 PhD scholarships offered.

39. The batch of 1990-94/95 of BITS Pilani celebrated its Silver Jubilee Reunion, during November 22-24, 2019 at the Pilani Campus. These 3 days saw participation from over 130 enthusiastic alumni from all around the world to meet their fellow mates and relive their Institute days one more time. Prof. Souvik Bhattacharyya Vice-chancellor, BITS Pilani welcomed the alumni back on campus expressed how proud BITS is to have such an illustrious set of alumni and shared various developments and updates with the alumni. Prof. Arya Kumar, Dean Alumni Relations and an Alumnus of BITS Pilani, underscored the importance of contributing back to BITS Pilani and urged the alumni to actively engage with the institute. The meet witnessed the alumni retracing their memory lines by taking a stroll around the campus reviving the good time spent in the campus, visiting their hostel rooms, classrooms, workshops, etc.
40. The batch of 1979-83 of BITS Pilani celebrated its Coral Jubilee Reunion of their graduation during November 14-17, 2019 at Pilani Campus. The campus reverberated with cheers, laughter and festive activities when more than 80 batchmates gathered with their family members to celebrate their reunion and recall their fond memories. Reliving their old days, alumni visited their respective departments, Sharda Peeth Saraswati Temple, Birla Science Museum, Student Activity Centre (SAC), various hostels, laboratories and Library. They also interacted with students and shared their life experiences. On the occasion Prof. Arya Kumar, Dean Alumni Relations and an alumnus of BITS Pilani, underscored the importance of contributing back to BITS Pilani and urged the alumni to actively engage with the institute in any manner they can. The reunion event brought members back to their Alma mater after 35 years, and yet, for them, it felt like it was only yesterday that they walked the hallowed corridors.
41. On November 14, 2019, an open interactive chat session by Mr Hari Menon (co-founder and CEO of BigBasket) and Mr Anil Agarwal (a senior ranking IPS Officer and head of Startup India Program) was organised by Alumni Relations Cell (ARC) and BITS Embryo of BITS Pilani, Pilani campus. Mr Hari Menon and Mr Anil Agarwal shared their experience related to entrepreneurship and interacted with students about becoming a successful entrepreneur. Mr Hari Menon said, "You learn more from your mistakes than successes". You need a ready ecosystem to start the business. Mr Anil Agrwal said, "Aspiring entrepreneurs from the student community should have the courage to experiment, research and go ahead in their ventures without worrying about the outcome. It is not necessary that every startup that gets registered become successful. The startups may fail but the entrepreneurs do not fail, Don't fear about failure, take the risk and start more startups". He added that most important among this is developing the enterprise mindset.
42. A Symposium on Carbon Nanomaterial Electronics 2019 was organized by the Department of Electrical and Electronics Engineering in association with Tel Aviv University Israel during November 8-9, 2019. Sponsored under SPARC, Ministry of Human Resource Development, Government of India, the theme of the symposium was focused on theoretical, experimental and application-oriented research on carbon nanomaterials and their derivatives. Dr. Arnab Hazra was the convener for the event and Prof. Navneet Gupta and Dr. Rupam Goswami were the co-coveners. Prof. V. K. Chaubey, the HoD, Electrical and Electronics Engineering, was the Chairman. The two-day event commenced with the inaugural session on November 8, 2019. Prof. Souvik Bhattacharyya, the Vice Chancellor of BITS Pilani was the Chief Guest, while Prof. Bansi Malhotra, Delhi Technological University, Delhi graced the occasion as a Guest of Honor for the session. The inaugural session was followed by the different technical talks on various aspects of carbon nanomaterials and allied areas. The event comprised of one keynote lecture by Prof. Bansi Malhotra, and six plenary lectures by Prof. Karuna K Nanda, IISc Bangalore, Dr. Gopinath CS, NCL Pune, Dr. Ajay Agarwal, CSIR-SEERI Pilani, Prof. Subhasish Ghosh, JNU Delhi, Prof. Yossi Rosenwaks, Tel Aviv University, Israel and Prof. Anshu Gaur, IIT Kanpur.
43. The pioneering 1964-69 Batch (BITS 69) of BITS Pilani celebrated the Golden Jubilee Meet of their graduation during November 1-3, 2019 at the Pilani Campus. Over 250 members including 140 alumni of the batch, along with their children and grandchildren attended the 3-day festivities. The BITS 69 alumni rejoiced with gala musical evenings conducted at BITS Auditorium and Alsisar Palace near Pilani. The batch is already registered in the Limca Book of records for the highest number of alumni meet of a single batch. The batch took a lot of interest in the growth of their Alma Mater and future strategic thrust areas to give it a big push in the coming years. In a very positive and inspiring gesture, the batch graciously committed funding support to their alma mater.

44. Mrs. Neerja Birla, the Founder & Chairperson of Mpower and the wife of Dr. Kumar Mangalam Birla, Chancellor, BITS, Pilani inaugurated the Mpower Centre on the first floor of Medical Centre, Vidya Vihar, BITS Pilani, Pilani Campus on September 27, 2019. The broad objective of Mpower Centre is to disseminate information about mental health in an accessible and easy to understand manner to a large audience in a short span of time. The Center would extend professional support and empower BITS Community and Pilani Community to overcome their mental health related concerns. The inaugural addresses were followed by the music performance of Ms. Ananya Birla, who is not only the Co-Founder & Co-Chairperson of Mpower but also a well-known singer, song writer, and entrepreneur. During her address, Mrs. Neerja Birla shared the details of the need and the working of Mpower with the audience. She said Mpower is an initiative to help people to talk about their mental health concerns and seek professional help without there being any fear of stigma attached to it. The idea is to provide holistic care, interventions and treatment so that individuals with mental concerns may lead meaningful and productive lives with the utmost respect and dignity.
45. On August 21, 2019 BITS Pilani, signed a technology transfer contract with Alicorn Medical Private Limited. The Tech transfer was on InstaDerm, a Wound healing treatment product. Wound healing is one of the biggest health problems of today. An estimated 10% to 20% of the populace in developing countries will experience a chronic wound during their lifetime. Dr. Aniruddha Roy's lab at Department of Pharmacy, BITS-Pilani has developed an in-situ forming bio-polymeric scaffold for the treatment of severe wound patients. The uniqueness of InstaDerm is its ability to form a film in-situ, that means at the wound site. The idea is to apply two solutions at the wound area and it will form a bioprotective porous scaffold within minutes at the wound site.
46. 3rd Indo-German Conference on Sustainable Engineering: Enhancing Future Skills and Entrepreneurship was held at the Birla Institute of Technology and Science Pilani, Pilani Campus during September 16-17, 2019. 60 participants from Germany, USA, and India participated in this two day conference organized by Indo-German Center for Sustainable Manufacturing (more information on (www.igcsm.org)), a joint project of Technische Universität Braunschweig, Germany and BITS Pilani, Pilani Campus. Prof S K Verma, Dean Administration, welcomed the delegates on the behalf of BITS Pilani and shared the journey of BITS Pilani from a small school to university transformation. Professor Reza Asghari from TU Braunschweig emphasized the role of entrepreneurship in the new era of digitalization. Prof Manbir Sodhi, from University of Rhode Island, USA delivered an enthralling keynote on circular economy and the role of India in circular economy with simple models. Professor K.S. Sangwan, head of the Indo-German Center for Sustainable Manufacturing and Chair of the conference explained the themes of the conference and how the three themes – engineering sustainability, engineering education, and engineering entrepreneurship – can be useful for fulfilling India's aspirations for "Make in India", "Skill India" and "Start-up India".
47. Teaching Learning Centre (TLC) of Pilani Campus organized a half-day workshop titled "Teaching-Learning Workshop for the Next Generation Academicians" on Saturday, September 07, 2019. Focusing on three modules of "Communication", "Laboratory Instruction with an Emphasis on Assessment" and "Ethical Practices in Teaching-Learning" the workshop roped in more than 15 resource persons including faculty and senior research scholars to address myriad questions from over 78 participating Ph.D. scholars.
48. Department of Mathematics, BITS Pilani, Pilani campus is organizing a four days International workshop on "Stochastic Simulation and its Applications" (WSSA 2019) from December 24-27, 2019. In this workshop, more than 40 scholars are participating from different places. This four day workshop will focused on the theory of simulation and also provided the lab practice on different simulation software. The aim was to provide the basic tools that would allow the participants to understand the theoretical concepts related to stochastic simulation and apply it to various fields as supply chain management, communication network, reliability modeling etc. Chief Guest, Prof Srinivas Chakravarthy from Kettering University, USA, addressed the gathering by highlighting the significance of Stochastic simulation in real life applications and also about the importance of this workshop. The convener of the Workshop Prof Rakhee welcomed 40 participants from different Institutes.
49. Department of Mathematics, BITS Pilani, organized a three days International Conference and 22nd Annual Convention of Vijnāna Parishad of India on 'Advances in Operations Research, Statistics and Mathematics (AOSM 2019)' from December 28-30, 2019. The eminent speakers and delegates from USA, Nigeria, South Africa, Taiwan and different universities of India are participated in the conference. This conference provided scientific platform to young researcher to discuss their new findings. During the inauguration, Convener of the conference Prof Rakhee presented the theme of the conference. She highlighted the importance Mathematics in catering real life problems. Head, Department of Mathematics Prof Bhupendra K

Sharma welcomed the participants and summarized the achievements of the department. 'AOSM 2019'. Chief Guest, Prof Avnish Kumar, Chairman, Commission for Scientific and Technical Terminology, MHRD introduced to the audience about the commission and informed that they would be publishing all scientific terminology in different Indian languages. He presented a set of dictionaries to BITS Pilani. Prof Madhu Jain and Prof R.C.S. Chandel detailed about Vijnāna Parishad of India and scientific journal "Jñānābha".

50. Dr Monika Gupta, Department of Economics and Finance, presented a paper titled "Environmental and Economic Implications of British Columbia's Carbon Tax for India" at 27th EBES International Conference organized by the Eurasia Business and Economics Society (EBES) and Faculty of Economics and Business, Universitas Sebelas Maret (FEB-UNS) in Indonesia with the support of the Istanbul Economic Research Association in January, 2019.
51. Prof Pushp Lata, Department of Humanities and Social Sciences, presented a paper titled "Digital Training for Language Teachers: An Exploration into Online Writing Tutorials" at Oxford Education Research Symposium Spring Meeting, a peer-reviewed conference during March 20-22, 2019, at Green Templeton College in the University of Oxford.
52. Prof Manoj Kumar Soni, Department of Mechanical Engineering, presented two papers titled "Analysis of Course Content Development using Pedagogic Framework – A Case Study" and "Design and Development of Game-Based Evaluation and Learning (GABEL) for Applied Thermodynamics course for Active Learning", co-authored by Dr. Tamali Bhattacharyya, in an International Conference on Industrial Engineering and Operations Management, at Bangkok, Thailand, during March 5-7, 2019.
53. Prof Arya Kumar, Department of Economics & Finance, presented a paper titled "Factors Affecting Entrepreneurial Intent Among Students-Initial Findings from India" in the 7th International Conference IMES-2019 on Innovation Management, Entrepreneurship, and Sustainability held at Prague, the Czech Republic during May 30-31, 2019.
54. Prof Sangeeta Sharma, Department of Humanities and Social Sciences, attended the 5th International Conference on Media and Mass communication organized by The International Institute of Knowledge Management and presented a paper titled "Innovation in Advertising Campaigns: New Orientation" at Kuala Lumpur, Malaysia during April 5-7, 2019. She, under the aegis of the University Exposure Abroad (UEA) programme by BITS, Pilani, India for summer of 2019, was also invited as a 'Visiting Scholar' at the Southampton Business School, University of Southampton, UK in June-July, 2019.
55. Prof Sushila Shekhawat, Department of Humanities and Social Sciences attended the 5th World International conference on Media and Mass Communication organized by The International Institute of Knowledge Management and presented a paper titled "Fictional Narratives and Question of Ethics in Indian Hindi Films" at Kuala Lumpur, Malaysia during April 5-7, 2019.
56. Prof Kumar Neeraj Sachdev, Department of Humanities and Social Sciences, attended the 2nd Malaysia - International Conference on Social Sciences & Humanities (ICSSH) organized by Eurasia Research and presented a paper titled "A Virtue-theoretic Analysis of Objectivity in News Media," at Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia during June 26-27, 2019.
57. Prof Arya Kumar, Department of Economics and Finance was a panel member in the discussions on "BITS Education and Entrepreneurship" organized by BITS Singapore Chapter on 24th August wherein he also participated in BITSync organized by BITSAA International in Sunnyvale on 21st September 2019 and presented perspective on BITS growth plans and strategy for Alumni Connect.
58. Dr. Virendra Singh Shekhawat, Department of Computer Science and Information Systems attended IEEE International Conference on Systems, Man, and Cybernetics (SMC) and presented a research paper titled "A Graph Partitioning Approach for Fast Exploration with Multi-Robot Coordination Efficient Content Caching for Named Data Network Nodes" at Bari, Italy during October 6-9, 2019. He also attended 16th EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous 2019) and presented a research paper titled "Efficient Content Caching for Named Data Network Nodes" at Houston, USA during November 12-14, 2019.
59. Dr. Manoj Kumar Soni, Mechanical Engineering Department visited Institut für Werkzeugmaschinen und Fertigungstechnik (IWF), (Institute of Machine Tools and Production Technology), Technische Universität Braunschweig, Germany as a Guest Scientist from 15th to 22nd December 2019. He also visited Aditya Birla Chemicals(Thailand) LTD. (Epoxy Division), Maptaphut Industrial State, Rayong, Thailand on 17th August 2019.

60. Dr Yashvardhan Sharma, Department of Computer Science and Information Systems has attended IEEE BigData Conference and presented a paper titled "Language Identification and Context-based Analysis of Code-switching Behaviors in Social Media Discussions" at Los Angeles, CA, USA during December 9-12, 2019.
61. Dr Deepak Chitkara, Department of Pharmacy, visited the University of Miyazaki, under the framework of Sakura Science Exchange program (Sakura science plan) administered by Japan Science and Technology Agency conducted by the Faculty of Medicine, University of Miyazaki, Japan. from December 16, 2019 to December 22,2019.
62. Dr. Rahul Singhal, Department of Electrical and Electronics Engineering, attended Second IEEE Indian Conference on Antennas & Propagation (InCAP-2019) organized by SAC, ISRO; IETE; IEEE AP and MTT Joint Chapter Gujarat section to present a paper titled "Characteristics Analysis of a Square Loop-based Artificial Magnetic Conductor," at Ahmedabad, Gujarat, India during December 19-22, 2019.
63. Department of Computer Science & Information Systems has received United States-India Educational Fund (USIEF) to host a Fulbright scholar in the area of Computer Science under the Fulbright-Nehru Specialist Program. Prof Arun Somani, BITS Distinguished Alumni Awardee 2017, Distinguished Professor of Electrical & Computer Engineering, Iowa State University will be visiting the department for six weeks from January, 2020.
64. Dr Paul Atish Tulshiram, Department of Pharmacy, was bestowed upon the "Best Professor in Pharmacy Studies" award at the 11th Innovative Education Leadership Awards 2019 presented by DNA [Zee News] and Stars of the Industry Group at Mumbai on February 16, 2019.
65. Dr Manoj Kumar Soni, Department of Mechanical Engineering, was awarded the prestigious Dr. Shirin Gadhia Sustainability Award 2019 from Eco Center ICNEER in a function held at Vadodara on June 19, 2019.
66. Dr Neetu Yadav, Department of Management has been awarded 2019 Emerald Literati Award in Highly Commended category for teaching case "Amazon India's 'Apni Dukaan': Branding Strategy" published in Emerald Emerging Markets Case Studies and also received the Best Full Paper Award in Performance Management track at British Academy of Management (BAM 2019) Conference held at Aston University, Birmingham, UK during September 3-5, 2019. Dr Yadav has also co-authored an article titled "How High Performing are Indian Organizations in comparison with Asian Organizations?" along with Prof. André de Waal.
67. Dr. Sailaja Nandigama Department of Humanities and Social Sciences, was awarded USD 1000, and was given registration fee waiver for USD 250 for presenting her original research paper titled, "Forest rights as drivers of livelihood security of forest dependent communities: An ethnographic account of the implementation of Forest Rights Act across three states of India and its impact on the formal and the informal forest management practices." by the FLARE network in the 5th Annual International Conference held at the University of Michigan, USA from August 23-25, 2019.
68. Prof Yashvardhan Sharma, Department of Computer Science and Information Systems has participated in Multilingual 2019 Bigdata Cup Competition and secured second position with an award of \$1000.
69. Prof Arya Kumar, Department of Economics and Finance, was the Chief Guest for the International conference organized by Vivekananda Global University on "Entrepreneurship and Management: Challenges, Issues and Opportunities in Global Economy" in association with Tribhuvan University, Nepal in partnership with Headstart, Wadhvani Foundation, Etica Da Terra, Edukerron International & Startup on November 9, 2019.
70. Prof Arya Kumar, Department of Economics and Finance delivered key note talk on Entrepreneurial opportunities in 21st Century and Eco system in Educational Institutions on September 17, 2019 in the 3rd Indo German Conference on Sustainability in Engineering: Enhancing Future Skills and Entrepreneurship". He also delivered an invited talk on "Technology Driven Entrepreneurship-role of Higher Educational Institutions in Building an Eco-system" in the international conference organized by High Technology Entrepreneurship and Innovation Forum and TU during November 20-21, 2019 at Braunschweig University, Germany.
71. Prof Manjuladevi. V, Department of Physics, delivered an invited talk on "Langmuir-Blodgett Films of Unsymmetrical Bent-core Liquid crystal at air-water and air - solid interfaces", and also chaired a session in International Conference on Liquid Crystals, Liquid Crystalline Polymers and Nanosystems (ICLCPN 2019),

- held at organized by School of Energy Materials, MGU, Kottayam Kerala and University of Maribor, Slovenia, December 13-15, 2019.
72. Vatsal Jignesh Badami (2016A7PS0071P) presented a paper titled "In-Loop Simulation of Attitude Control of a Nanosatellite" as the main author at IEEE Aerospace Conference 2019 held in Big Sky, Montana, USA during March 2-9, 2019. The paper was written based on the work done as a part of Team Anant, the student nanosatellite team of BITS Pilani and was reviewed by experts from IEEE and NASA.
 73. The Mechanical Engineering Department along with Mechanical Engineering Association of BITS Pilani, organized Chitrath Dagar Memorial Award Ceremony on April 23, 2019. The parents of Chitrarth were present to reward the meritorious students with 'Chitrarth Dagar Scholarship'. Ms. Divya Rathore (2015B5A40758P) was adjudged the all-round "Best Outgoing Student in Mechanical Engineering" while the music award went to Ms. Radhika Narang (2015B2A40823P), for her significant involvement and contribution towards Gurukul.
 74. Sashakt Tripathi (2017A7PS0052P), Ahmad Faraaz (2017B4A70558P), Shubham Gupta (2017A7PS0126P) and Harshit Awasthi (2017B2A10952P) won India Innovation Growth Programme 2.0 (IIGP 2.0) organized by the Department of Science and Technology, TATA Trust and Lockheed Martin. Their startup Elixir Systems was selected among the top ten which got a research grant of 10 lakhs and startup mentorship from IIM, Ahmedabad. The students in the startup worked upon Augmented Reality in areas related to pedagogical methods. The finale of IIGP 2.0 was held at IIT Bombay on July 3, 2019
 75. Shrey Agarwal (2018B2A4PS0707P) and Raghav Raman Garg(2018A7PS0312P) got the first prize in Pravega's IBM Hackathon conducted at IISc Bangalore on January 18, 2019. The problem statement of this hackathon was – "Binary Classification of News". They won in the least error/most accurate code section of the event which involved the use of Machine Learning blended with NLP and neural networks aimed to classify news articles into fake or real.
 76. Ms. Divya Rathore (2015B5A40758P), a fourth-year undergraduate student of Mechanical Engineering at BITS Pilani was selected as a Student Representative to the first Regional Conference of WePOWER - Women in Power Sector conference. The conference was organized by the World Bank Group along with Asian Development Bank, Australian Aid and Energy Sector Management Assistance Program in Kathmandu, Nepal on February 20-21, 2019. The goal of WePOWER is to support greater participation of women in energy projects and utilities and promote normative change regarding women in Science, Technology, Engineering, and Math (STEM) education.
 77. Mayank Bhutani (2015B2A30836P) and Koustubh Gupta (2015B4A20684P) ,team "VR Bros", were selected for the Best Demo Award on VR Demo Day, February 23, 2019, organised in Bangalore for "Virtual Reality Program" under "School of Innovation India" by Facebook and SV.CO. The project was Bails Down, a VR Cricket Game which is an immersive VR experience of a Street Cricket player becoming a successful and famous cricketer.
 78. Rohit K Bharadwaj (2017B4A70633P), Sparsh Jain (2017B5A40892P), Nayan Khanna (2017B4A70636P), Keshav Seth i(2017B3A30657P), Anushka Jain(2017B1A70975P) and Chinmay Hebbar (2017B4A80448P) the team Cicada Crackers from BITS Pilani won in the Complex Category of Smart India Hackathon held at Guwahati, Assam with a prize of Rs 1,00,000. The team of students built a Tsunami Alert System using Android and Web portal. It had participants from all over India with their novel ideas to respond to various challenging problems presented by different ministries of Government of India.
 79. Shivam Soni (2017D2TS1238P) and Subham Kumar Dash (2017A7PS0004P) secured second position among 38 innovations selected across India in Michelin Mobility Innovation Challenge-2019. The Innovation titled "Urban Stack" aims to provide the next generation of public transit experience to the commuters. It was conducted by MICHELIN India Private Limited, Pune on July 26, 2019.
 80. Team "Ranch-o" of five students from BITS Pilani won the Hilti IT Innovation Competition 2019 held at Hilti Asia IT services office in Kuala Lumpur. They came up with the innovative solution to analyze conversations, provide summaries, schedules and other insights to take Hilti's customer interaction to the next level using an AI based virtual assistant 'Kaya'.
 81. Vignesh Nagarajan (2016A8PS0264P), one of the 15 Indian students was selected for the Indo-US Science and Technology Forum(IUSSTF) - Viterbi Summer Program for internship at the Mixed Signal IC Design Group under Professor Dr Mike Shuo Wei Chen. The project was titled - "A new Down-conversion Receiver leveraging VCRO - PLL for mm wave RF signals" at USC Viterbi School of Engineering, University of Southern California, Los Angeles, USA during May 22 - July 15, 2019.

82. Three students from BITS Pilani Palash Dhakar (2016B3A40462P), Harshwardhan Mittal (2016B2A40856P) Disha Jain (2016B2A10797P), team Growth Hackers, won the L'Oréal Sustainability Challenge 2019. 14,900 students registered in this challenge which began in September. The top 5 teams were invited for the Grand finale which was held in Mumbai on Oct 14 L'Oréal Sustainability Challenge is a Digital Challenge for B-School & Engineering Students which integrates the mission of Sharing Beauty With All with Employer Branding.
83. Three students of BITS Pilani, Yajat Dawar, Garv Sachdeva and Nikhil Ranjan, team "Spam Redressal", won challenge of "Protection Against Targeted and Personalized Email Attacks" presented by D-Fence at the most prestigious hackathon of Europe, Junction. The Hackathon was held at Aalto University in Helsinki, Finland during November 15-17, 2019. They were awarded a prize money of 1000 €.
84. Neelanchal Joshi (ID-2017B5A30624P). presented a paper titled "Implementation of CCSDS Hyperspectral Image Compression Algorithm on FPGA onboard a nanosatellite" at the 8th European Conference for Aeronautics and Space Sciences in Madrid, Spain during July 1-4, 2019.
85. Shaguffa Gurmukhdas (2019H1030012P) received full sponsorship to present on 'Machine Learning to Interpret Sign Language' at the Strange Loop conference 2019, held in St. Louis, Missouri, USA, on September 14, 2019.
86. Rohit K Bharadwaj (2017B4A70633P) won the Singapore India Hackathon 2019 Encouragement Prize at the Singapore India Hackathon held in IIT Madras, Chennai on September 30, 2019. The team of Indian students were all BITSians- Rohit was from Pilani campus while Samarth Jain and Gargi Balasubramaniam were from the Goa campus.
87. Abhimanyu Raj Shekhar (2017A1PS0790P), received first degree project funding (standalone) amounting to Rs. 50,000 for a novel project. Titled "Steady state thermal and aging analysis of secondary cells varying on chemistry and structural aspects" on October 5, 2019.
88. Yajat Dawar (2015B4A70620P), Garv Sachdeva (2015B4A70551P) and Nikhil Ranjan (2015B1A70773P) of team "Spam Redressal" won the challenge "Protection Against Targeted and Personalized Email Attacks" presented by D-Fence at the most prestigious hackathon of Europe-Junction. They were awarded with a prize money of 1000 €. The Hackathon was held at Aalto University in Helsinki, Finland during November 15-17, 2019.
89. Ms. Akankshya Mishra (2016A7PS0026P), mentored by Prof. Yashvardhan Sharma, Associate Professor, Department of Computer Science & Information Systems, secured second position in the Workshop "Understanding Multilingual Communities through Analysis of Code-switching Behaviors in Social Media Discussions" in IEEE Big Data Cup Challenge 2019 and was awarded \$1000 as prize money.

K K Birla Goa Campus

1. Convocation 2019 ceremony was held on August 11, 2019 at K K Birla Goa Campus for the graduating students who completed the eligibility requirements in the academic year 2018-19. Degrees were awarded to 892/797 First Degree, 82 Higher Degree and 13 Ph.D. Degree students from BITS Pilani, K K Birla Goa Campus. Three students from Bachelor's degree programmes were awarded Medals: Gold medal-Mr. Madhu Adav M.J.; Silver medal-Mr. Kathan Kashiparekh; and Bronze medal- Mr. Devvrit.
2. BITS Pilani, K K Birla Goa campus, hosted second two-week Engineering Ethics Programme organized for 23 students of Texas A&M University, USA. The professors of Texas A&M University, Prof. Debjyoti Banerjee and Prof. John Curry O'Day, jointly conducted this course for their students at BITS Pilani, Goa Campus, during December 25, 2018 to January 13, 2019. The programme was coordinated by Prof. N.N. Ghosh (Dept. of Chemistry), Associate Dean, International Programmes and Collaboration Division (IPCD).
3. A state-of-the-art 3500 sq. ft. BITS BIRAC BioNest Innovation Lab set up by BITS Pilani, K K Birla Goa Campus was inaugurated by Prof. Varun Sahni, Vice-Chancellor of Goa University on 3rd January 2019. The Lab is set up with a financial support of Rs. Three Crores from Biotechnology Industry Research Assistance Council (BIRAC), a not-for-profit Public Sector Enterprise, administered by the Department of Biotechnology (DBT), Government of India.
4. International Conference on 'Region/Nation/Trans-Nation: Literature-Cinema Interface' was organized by the Department of Humanities and Social Sciences during January 31, 2019 to February 2, 2019. The conference was coordinated by Dr. Parichay Patra and Dr. Amitendu Bhattacharya.

5. The Cognitive Neuroscience Lab of the Department of Biological Sciences hosted the 3rd Annual Conference of the Association for Reading and Writing in Asia (ARWA) on February 28, 2019 and March 1, 2019. This year's theme of the conference was "Dyslexia". The Conference was coordinated by Prof. Veeky Baths.
6. The Department of Chemistry celebrated its 'Department Day' by organising, "Recent Trends in Chemistry: Students' Meet 2019" on March 3, 2019. Participants from BITS and Goa University and its affiliated colleges participated in this 3rd edition of the students' meet.
7. The Cognitive Neuroscience Lab of the Department of Biological Sciences organized the 2nd workshop on 'Open Innovation in Community Based Rehabilitation (CBR) for People with Disabilities (PWD)' and an Interdisciplinary Design Hackathon during March 15-17, 2019. The Hackathon and workshop were organized in collaboration with the Leeds Business School of University of Leeds and was sponsored by Leeds Social Sciences Institute and the Economic and Social Research Council (ESRC), United Kingdom. The workshop was coordinated by Prof. Veeky Baths.
8. The forest ecosystems specialist group of the Commission on Ecosystem Management of the International Union for Conservation of Nature (IUCN) and BITS Pilani, K K Birla Goa Campus co-organized an international consultation workshop on 'Role of forest ecosystems in meeting SDGs in South Asia' on May 9, 2019. The workshop was funded by the 'Commission on Ecosystem Management', IUCN; Goa regional office of NABARD; and Government of Goa and coordinated by Dr. Rajiv Kumar Chaturvedi, Assistant Professor at the Department of Humanities and Social Sciences and Dr. Himlal Baral (CIFOR, Indonesia).
9. 6th Annual Conference of Cognitive Sciences (ACCS 2019) was organized by the Cognitive Neuroscience Lab of the Department of Biological Sciences during December 10-12, 2019. The conference was attended by around 150 scientists and academic scholars. The conference was coordinated by Prof. Veeky Baths.
10. 13th IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS) 2019 was organized by Department of Electrical & Electronics Engineering during December 16-19, 2019. This year's theme was "BCET- Bridge to Connect EveryThing". Over 300 delegates from around 21 different countries attended the conference. The conference was coordinated by Prof. K.R. Anupama.
11. The IAPT-UGCP i.e. Indian Association of Physics Teachers-Undergraduate Camp in Physics, a Winter Camp in Physics and Astronomy, jointly funded by Inter University Center for Astronomy and Astrophysics (IUCAA), Pune and Indian Association of Physics Teachers (IAPT), Kanpur and IAPT- Goa Regional Centre and BITS Pilani was organized by Department of Physics during December 19-22, 2019. Forty two students attended the Camp of which 16 were from all over India and 26 were from Colleges in Goa. The camp was coordinated by Prof. Arun V. Kulkarni.
12. 3rd edition of the biennial national conference "New Frontiers in Chemistry-from Fundamentals to Applications-III (NFCFA2019)" was organized by the Department of Chemistry during December 21-22, 2019. About 150 delegates from reputed organizations attended the conference. The conference was coordinated by Prof. Mainak Banerjee & Prof. Amrita Chatterjee.
13. International Conference on 'Secure Knowledge Management in Artificial Intelligence Era' (SKM) was organized by the Department of Computer Science and Information System in association with University of Texas at San Antonio, USA, and University at Buffalo, USA during December 21-22, 2019. Around 40 delegates from India and abroad attended the 2 day deliberations. The conference was coordinated by Prof. Sanjay K. Sahay.
14. Dr. Renu Swarup, Secretary, Department of Biotechnology, Ministry of Science & Technology, Government of India visited BITS BIRAC BioNEST Innovation Lab facility on May 27, 2019. Dr. Swarup is also the Chairperson of Biotechnology Industry Research Assistance Council, (BIRAC) a Govt. of India Enterprise.
15. BITS BIRAC BioNEST organized the following events:
 - A roundtable of Startup Promotion Cell and Incubation Managers in Goa on May 15, 2019.
 - A workshop on BIRAC's Biotechnology Ignition Grant (BIG) scheme on May 17, 2019.
 - A five-day workshop on 'Basic Molecular Biology Laboratory Tools and Techniques' during July 9-13, 2019

- A three-day workshop on 'Industrial Bioprocess and Bioreactor Operations' from July 25-27, 2019.
16. Prof. Angshuman Sarkar, Department of Biological Sciences delivered an invited lecture on nanotoxicity in '2019 International Conference on Graphane and Novel Nanomaterials (GNN2019)' held in Bangkok during July 8-11, 2019.
 17. Dr. Anil Kumar, Department of Mathematics delivered a talk entitled 'A Mixed Finite Element Method for Elliptic Optimal Control Problems Based on Biorthogonal Systems' in the 9th International Congress on "Industrial and Applied Mathematics (ICIAM-2019)" held at Campus de Blasco Ibáñez of the Universitat de València, València, Spain during July 15-19, 2019. He also chaired a paper presentation session.
 18. Prof. Anjan Chattopadhyay, Department of Chemistry, delivered an invited talk entitled 'Computational studies on some photochemical reactions involving conical intersections' at the Theoretical Chemistry Group, Institute of Physical Chemistry, University of Heidelberg, Germany on July 8, 2019. During this visit, Prof. Chattopadhyay made a presentation at the 9th MQM (Molecular Quantum Mechanics) conference held at Kongresshaus Stadthalle, Heidelberg and also undertook collaborative research with Prof. Horst Köppel, Theoretical Chemistry Group, Institute of Physical Chemistry, University of Heidelberg.
 19. Dr. Gauranga Charan Samanta, Department of Mathematics presented a paper entitled 'Traversable wormholes in modified gravity' in 'Asian-Pacific Winter School and Workshop on Gravitation and Cosmology' held at Yukawa Institute for Theoretical Physics, Kyoto University, Japan during February 11-15, 2019.
 20. Dr. Gauranga Charan Samanta visited Institute of Space Science, Barcelona, Spain under University exposure program for research collaboration work with Prof. S.D. Odintsov and Prof. E. Elizalde, May 21 to July 15, 2019.
 21. Prof. Mridula Goel and Ms. Sheetal Thomas, Department of Economics, presented a paper entitled 'Use of cognitive processes in handwriting to understand financial decision making' at the 15th Annual NeuroPsychoEconomics Conference held at LUISS University, Rome, Italy on June 6-7, 2019.
 22. Prof. Narendra Nath Ghosh, Department of Chemistry, was invited to Department of Chemistry at the University of Tennessee, Knoxville, USA as a Visiting Professor to conduct collaborative research with Professor C.E. Barnes during May 20 to July 19, 2019. During this visit Prof. Ghosh delivered a special seminar entitled 'Synthesis of Reduced Graphene Oxide-nanoparticle based Multifunctional Nanocomposites and their Applications as Versatile Catalysts and Supercapacitor' on July 17, 2019.
 23. Prof. Narendra Nath Ghosh was invited by the University of Tartu, Estonia, Estonia to participate in an Erasmus+ workshop during 25th February - 1st March 2019.
 24. Prof. Narendra Nath Ghosh was invited to visit the Department of Chemistry of Cardiff University, UK during January 21-26, 2019 to establish collaboration and formulate a project for Global Challenges Research Fund.
 25. Prof. Rajesh Mehrotra, Department of Biological Sciences attended the European Workshop on Plant Chromatin held in Cologne, Germany from June 13-15, 2019.
 26. Prof. Rajesh Mehrotra delivered a talk entitled 'The role of Chromatin architecture in different stress responses' at the Department of Molecular Plant Science, University of Edinburgh, UK.
 27. Dr. Rajorshi Sen Gupta, Department of Economics along with Mohammed Anjal, a dual degree (CS and Economics) student presented a paper titled 'Estimation of Value of Time of Toll road users in India' at International Transportation Economics Association (ITEA) conference, held in Paris School of Economics during June 12-14, 2019.
 28. Prof. Reena Cheruvalath has been a Visiting Scholar at the School of Creative Science and Engineering, University of Waseda, Japan May-July, 2019.
 29. Dr. Arnab Banerjee, Dept. of Biological Sciences, was invited to deliver a lecture in the 3rd International Symposium on Embryonic Diapause, held during June 2-6, 2019 and organized by Animal Physiology department, ETH Zurich, Ascona, Switzerland.
 30. Prof. Saroj Sundar Baral, Department of Chemical Engineering visited Chemical Engineering Group at the University of Aberdeen, Scotland from May 15 to July 11, 2019 as a part of University Immersion Program.

31. Prof. Veeky Baths, Department of Biological Sciences, was invited for a research visit to the Cultural Brain group at the Max Planck Institute of Psycholinguistics, Nijmegen, Netherlands, between June 28, 2019 and July, 15, 2019.
32. Prof. Veeky Baths was invited to give a talk titled "Using EEG and Graph theory to decipher consumer choice and consumer behavior" at the University of Ghent on the July 8, 2019.
33. Prof. Veeky Baths presented a paper title "Study of Motor imagery based Multiclass BCI with special focus in same limb movement" at the 18th IEEE International Conference on Cognitive Informatics & Cognitive Computing (IEEE ICCI*CC 2019) held between the July 23, 2019 and July 25, 2019 at Leonardo of Politenico di Milano University, Milano, Italy
34. Dr. Anil Kumar, Department of Mathematics delivered an invited talk entitled 'A mixed finite element method for elliptic optimal control problems using a three-field formulation' in 4th International Conference on "Recent Developments in Theory, Computation & Application of Differential Equations" held at Department of Mathematics, South Asian University, New Delhi during January 21-23, 2019.
35. Dr. Anil Kumar delivered an invited talk entitled 'A Fourth-Order Orthogonal Spline Collocation Method to Fourth Order Boundary Value Problems' in International Conference on "Differential Equations and Control Problems: Theory, Modelling and Computation (ICDECP19)" held at the School of Basic Sciences, Indian Institute of Technology, Mandi, Himachal Pradesh during June 17-19, 2019. He also chaired a paper presentation session.
36. Prof. Anjan Chattopadhyay, Department of Chemistry delivered an invited talk entitled 'Oxaziridine and Lactam Conversion Pathways of Some Cyclic Nitro Systems' at the 16th TCS (Theoretical Chemistry Symposium), held at BITS Pilani, Pilani Campus during February 13-16, 2019.
37. Prof. Kundan Kumar, Department of Biological Sciences made a presentation entitled 'Plant Aquaporins: Understanding their role in Metalloids Tolerance and Transport' at the seminar on Novel Vistas in Plant Sciences organized by Botany Department, Goa University on January 25, 2019.
38. Prof. Narendra Nath Ghosh, Department of Chemistry delivered an invited talk entitled 'Novel Synthetic Methodologies for Preparation of varieties of Nanostructured Materials and their Applications' at the International Conference on Nano-materials for Environmental Applications (NEA 2019) held at Goa Science Centre, Goa during March 6-7 2019.
39. Prof. Rajesh Mehrotra, Department of Biological Sciences delivered a plenary talk in IIIE Goa chapter on Green revolution and precision agriculture on January 28, 2019.
40. Prof. Rajesh Mehrotra delivered an invited talk entitled 'Seed storage Protein gene' in National Seed Congress at Institute of Agricultural Sciences during February 19-21, 2019.
41. Prof. Rajesh Mehrotra delivered a plenary talk on 'ACGT element and its role in Stress tolerance' at Saurashtra University.
42. Prof. Rajesh Mehrotra delivered a talk on 'How to design smart question paper' in the 3rd National Teacher's Congress during January 3-6, 2019 at Pune.
43. Prof. S.D. Manjare, Department of Chemical Engineering delivered an invited talk entitled 'Impact of Air Pollution on Human Beings' at the annual meeting of Indian Medical Association, Mormugao branch on March 7, 2019.
44. Prof. S D Manjare delivered a talk on 'Quantification of the Environmental Impact of Water Pollutants Using Fuzzy Comprehensive Model' during Indo-German Joint Scientific Workshop on Membranes for Water and Energy organized by CSIR-Central Salt and Marine Chemicals Research Institute held at Bhavnagar, Gujarat during February 18-20, 2019.
45. Prof. Narendra Nath Ghosh, Department of Chemistry received a Visiting Scholar Award to visit the Department of Chemistry of the University of Tartu, Estonia to teach a course entitled 'Nanomaterials and Nanotechnology and their applications' in the Analytical Chemistry for Excellence in Analytical Chemistry program, which is an Erasmus Mundus Joint Master Degree programme.
46. Prof. Narendra Nath Ghosh is in the top 10% of highly cited authors in the General chemistry portfolio of journals published by the Royal Society of Chemistry UK.
47. Dr. Rajiv Kumar Chaturvedi, Department of Humanities & Social Sciences co-authored a paper published in Nature Sustainability titled 'China and India lead in greening of the world through land-use management'. The paper received 31 citations within 6 months of publication. In terms of Altmetric score

- this paper is ranked 1st of the 42 tracked articles of a similar age in the journal Nature Sustainability. Further this paper is ranked 65th of the ~ 3 Lakh tracked articles of a similar age in all journals, world over.
48. Prof. Reena Cheruvalath, Department of Humanities & Social Sciences was awarded ICSSR 'Data Collection Abroad Fellowship' to do research in the University of Kyoto, Japan, May-July 2019.
 49. Prof. Reena Cheruvalath received JSPS (Japan Society for the Promotion of Science), Grant-in-aid for Scientific Research on 'Language, Culture and Critical Thinking: The possibilities of measuring objectives with task,' Role: Co-investigator (July, 2019).
 50. Dr. Arnab Banerjee, Dept. of Biological Sciences has received "Membership in Reproduction and Endocrinology, SRBCE, 2019" award From the Society for Reproductive Biology and Comparative Endocrinology, India in recognition of his research contributions in the field of mammalian reproductive physiology.
 51. Prof. Debasis Patnaik, Department of Economics, delivered a talk on 'Integrating Research Strategy into Social Science Research' during the AESIS Conference held at Oslo Metropolitan University at Oslo during November 27-29, 2019.
 52. Dr. Gauranga Charan Samanta, Department of Mathematics, presented a paper entitled 'Wormhole Modeling in General Relativity' in 10th Mathematical Physics Meeting: School and Conference on Modern Mathematical Physics held at University of Belgrade, Serbia during September 9-14, 2019.
 53. Dr. Gauranga Charan Samanta, presented a paper entitled 'Cosmological Dynamics in R2 gravity with logarithmic trace term' in 30th Texas Symposium Relativistic Astrophysics held at University of Portsmouth, United Kingdom during December 15-20, 2019.
 54. Dr. Kiran D. Mali, Department of Mechanical Engineering, presented a paper at the International Conference on Advances in Functional Materials, organized by the American Association for Advances in Functional Materials (AAAFM-UCLA 2019), held at University California, Los Angeles, USA during August 19-22, 2019.
 55. Prof. Lakshmi Subramanian, Department of Humanities and Social Sciences, visited Brussels as an Evaluation Panel member for completed projects under the European Research Commission on November 15, 2019.
 56. Prof. Mridula Goel, Department of Economics and Ms. Nidhi Ravishankar, MSc Student of the department presented a paper titled 'Has Public Policy succeeded in enhancing women autonomy and empowerment in India over the last decade?' at the International conference on Gender Economics, organized by FROGEE (Forum for Research on Gender Economics), held at Tbilisi, Georgia, during November 16-17, 2019.
 57. Dr. Sayantani Sarkar, Department of Humanities and Social Sciences, participated in International Water Association Water and Development Congress and Exhibition held at Colombo, Sri Lanka from 1st to 5th Dec 2019 and GSGS Summit Sri Lanka during December 1-4, 2019.
 58. Dr. Vikas Chaudhari, Department of Mechanical Engineering, presented a paper entitled 'Modeling of short fiber reinforced composite using Extended Finite Element Method (XFEM)' at AAAFM-UCLA International Conference on Advances in Functional Materials 2019 held at University of California, Los Angeles, USA during August 19-22, 2019.
 59. Prof. Anjan Chattopadhyay, Department of Chemistry, delivered an invited talk titled 'Differences in the photo-chemical reaction paths of conjugated acyclic nitrones, protonated Schiff bases and neutral polyenes' at the DAE-CCS (Computational Chemistry Symposium) 2019, held at Bhabha Atomic Research Centre (BARC), Mumbai during November 7-9, 2019.
 60. Prof. Dipankar Pal, Department of Electrical and Electronics Engineering, delivered a keynote address titled, 'Engineering Education in India: Past, Present and Future', in the International Conference on Innovation in Engineering Sciences, Management & Technology-2019 (ICIEMSMT-19), organized by the Institute For Engineering Research and Publication (IFERP) at the S.B. Jain Institute of Technology Management & Research, Nagpur on December 12, 2019.
 61. Prof. Debasis Patnaik, Department of Economics, conducted a three hour workshop on Indian Economy for the students of Nihon University participating in a Study India Program at the Goa University on

- December 18, 2019. Prof. Patnaik also hosted a visit of these students to BITS Pilani, K K Birla Goa Campus and delivered a lecture on BITS Pilani and relevance of the Department of Economics.
62. Prof. Geetha B, Department of Humanities and Social Sciences, delivered a talk 'Visual Narratives in the Classroom: Teaching Empathy through Films' at Cognitive Science in Education: Capacity Building for Teacher Education held at Hyderabad Central University during November 18-22, 2019.
 63. Prof. Judith M. Braganca, Department of Biological Sciences, delivered 2 lectures entitled 'Role of Archaea in Heavy Metal Bioremediation' and 'Emerging Technologies in Microbial Bioremediation' at the National Seminar on 'Microbial Bioremediation' held at St. Xavier's College of Arts and Science, Mapuca, Goa during February 27-28, 2019.
 64. Prof. Judith M. Braganca delivered 2 lectures entitled 'Recent Advances in Haloarcheal Research' and 'Microbial Polyhydroxyalkanoates as a Biomaterial in tissue engineering' at Refresher Course in Life Sciences for College/ University Teachers at the UGC-Human Resource Development Centre, Goa University on November 21, 2019.
 65. Prof. Judith M. Braganca was invited to be the Judge for Oral Presentations at the National Conference on 'Frontiers in Biopesticides and Biofertilizers' organized by the Department of Microbiology of P.E.S.'s R.S.N. College of Arts and Science, Farmagudi, Ponda, Goa in collaboration with Directorate of Higher Education, Government of Goa on December 6, 2019.
 66. Dr. Kiran Vankayala, Department of Chemistry, presented an invited talk in Newton-Bhabha Researcher links workshop titled Indo-UK 'New Electrochemical Technologies for Sustainable Fuels, Chemicals and Industrial Processes' workshop in Pune organized by IISER Pune and University of Glasgow during held during December 2-5, 2019.
 67. Prof. Lakshmi Subramanian, Department of Humanities and Social Sciences participated in the Festival Past Forward arranged by the Indian Foundation for the Arts, Bangalore during October 31, 2019 to November 1, 2019.
 68. Prof. Lakshmi Subramanian participated as a resource person and panel discussant on 'Challenges of teaching economic and Business History' at Indian Institute of Management, Ahmedabad on August 30, 2019.
 69. Prof. Lakshmi Subramanian participated as a resource person and discussant on 'Archives and Diaspora: The Ocean as a Negative Archive' during the international workshop organized by the CSSSC and Trans-regional Academy, (Berlin) at Kolkata during November 26-28, 2019.
 70. Dr. Mithun M.S., Department of Electrical and Electronics Engineering, delivered a talk on 'Online ppm monitoring of Power Transformers' to Transmission wing, Kerala State Electricity Board (KSEB) Ltd. on November 24, 2019.
 71. Dr. Mohan Kumar Bera, Department of Humanities and Social Sciences, presented a paper entitled 'Disaster Induced Migration in Indian Sundarban Islands' in the XIV International Conference on Public Policy and Management, held Indian Institute of Management Bangalore during August 22-24, 2019.
 72. Dr. Mohan Kumar Bera presented a paper entitled 'Dimensions of Migration and livelihood activities to cope with disasters in the Indian Sundarban islands' in a conference organised by VikasAnvesh Foundation, Pune during November 7-9, 2019.
 73. Dr. Nitin Sharma, Department of Electrical and Electronics Engineering, delivered an expert talk on Acquisition and Tracking of GNSS Signals, in TEQIP-III sponsored Short Term Training Program on 'Global Navigation Satellite Systems (GNSS)' held at SVNIT Surat during June 24-28, 2019.
 74. Dr. Nitin Sharma delivered an invited talk on 'Software Defined GNSS Receiver', in ECE Department, Osmania University, Hyderabad on September 9, 2019.
 75. Dr. Nitin Sharma delivered an invited talk on 'Basics of Acquisition and Tracking of GNSS Signals' in NERTU, held Osmania University, Hyderabad during September 5-13, 2019.
 76. Prof. Rajesh Mehrotra, Department of Biological Sciences, delivered an invited talk on ACGT Cis elements in Plant Gene expression: A comparative Genomics Perspective in the international conference on Genomics and Breeding for crop provement (ICGB) organised by Department of Genetics and Plant breeding CCSU, Meerut during December 4-6 2019.

77. Dr. Solano Jose Savio Da Silva, Department of Humanities and Social Sciences, conducted a workshop on Goa's distinctive spatial logic and its possibilities for another urban imagination at Goa College of Architecture, Panaji on September 28, 2019.
78. Prof. Debasis Patnaik, Department of Economics was felicitated by Kalinga Institute of Social Sciences at National Conference on 'Teaching Methodology for Tribal Students' for 'Alternative Pedagogical Directions in Social Science Teaching and Research' on September 27, 2019.
79. Two teams of Goa Campus bagged first positions in different categories in the Grand Finale of Smart India Hackathon, 2019 (SIH, 2019); one of the world's biggest Hackathon, held at 48 centers across India during March 2-3, 2019 and organised by MHRD, Government of India.
 Team ZENIITH, comprising of Ahan M.R., Vedashree Kulkarni, Gaurav Sangle, Aryan Agarwal and Sanket Badgular, won a cash prize of Rs. 50,000/- in their problem statement under the Ministry of Railways at Nagpur.
 Team APPHLETES won a cash prize of Rs. 1,00,000/- in their problem statement under ISRO at Ahmedabad. The team comprised of Gargi Balasubramaniam, Adithya R., Abhiraj Hinge, Mayank Manuja, Pranav Agarwal and Samarth Jain.
80. Goa Campus students - Lucky Kaul and Shiv Kumar won Goa edition of Tata Crucible Campus Quiz, 2019. The winning duo was awarded a cheque of Rs. 75,000, which was presented by Prof. Sunil Bhand, Dean, Sponsored Research and Consulting Division, BITS Pilani.
81. Two Goa Campus students, Suraj Gupta and Taaha Nizam secured first place for their design prototype namely 'Smart Sole' presented during 'Open Innovation in Community Based Rehabilitation (CBR) for People with Disabilities (PWD)' and 'Interdisciplinary Design Thinking Hackathon' organized by Cognitive Neuroscience Lab, Department of Biological Sciences, Goa Campus and Leeds Business School of University of Leeds during March 15-17, 2019.
82. Project DiVe won the best project award during the Quark 2019 in the 'Open Showcase' event among all the BITS projects and second best among all the projects that were displayed. The project was led by student, Atharva M. Dharwa and had received financial supports from the Institute funding scheme, EEE department, Sandbox lab and CTE.
83. Three students of Goa Campus - Ashutosh Vashist, Suraj Gupta and Raghav Kapoor participated in the L&T CreaTech 2019, a product prototype design competition, organized by Larsen and Toubro. Their team, "Piezo-Boys" was selected from over 500 teams, participated from more than a hundred of India's leading engineering institutes. "Piezo-Boys" was selected as one of the top 12 teams to represent BITS Goa in the Grand Finale, held in Mumbai on February 15, 2019. They developed a solution, "PiezoRun" to recover waste heat energy from road transportation to tackle the everlasting energy problems.
84. Two students from Goa campus Manika Kanjani and Naveen P.S. stood first among 230 colleges across India in the National Finals of Case Sensitive, the Annual Case Study Competition. The competition was organized by BITS Pilani, Hyderabad Campus, which was held on April 14, 2019.
85. Anjali Varghese, PhD scholar from EEE department, has been awarded TCS Research Scholar Program scholarship for the project entitled 'Image Processing and Machine Learning Techniques for Leather Species Identification' under the supervision of Prof. A. Amalin Prince.
86. Priya Sharma (Department of Biological Sciences) Won Best Poster Award for One minute on water sanitation poster presentation in National Academia Conclave on Urban Sanitation held at CEPT University, Ahmedabad during March 9-10 2019.
87. Two students, Mr. Arnav Gupta, from the Dept. of Biological Sciences, and Mr. Akul Gupta, from the Department of Computer Science & Information Systems and Economics have been awarded the prestigious MITACS Globalink Research Internship, sponsored by the Government of Canada for the summer of 2019. As part of this internship, Arnav will be undertaking research on 'Bioinformatics Technician in Genomics & Metagenomics' under Professor Robert Colautti at Queen's University in Kingston, whereas Akul will be undertaking research on 'Testing of Machine Learning Programs' under Professor Hadi Hemmati at University of Calgary, Alberta, Canada.
88. Abhiraj Hinge, a third-year computer science student, was selected as one of the Economic Times Campus Stars - Class of 2018-19. This year, 91 students were selected from a pool of 35,000+ applicants from over 2,000+ engineering colleges in India. The selection was conducted over 4 rounds, the first two of which were psychometric and domain-knowledge tests. Third round involved a group activity to

determine leadership skills. The last round was an interview conducted by a panel member from a panel of CXOs. Abhiraj was interviewed by the CEO of Haptik Chatbots, a company that was subsequently acquired for \$100 million by Reliance. ET Campus Stars is an initiative for recognizing and rewarding India's brightest engineering students. Currently into its second edition, this initiative is meant to encourage and nurture young engineers who will be driving the growth of this country as they join the corporate bandwagon.

89. Aditya Sinha, a fourth-year student of Computer Science & Information Systems, is selected as a recipient of the Western Digital Scholarships for STEM for the amount of \$2000. Up to 400 students from United States, China, Japan, India, Malaysia, Philippines and Thailand are awarded each year with this one-time scholarship. The scholarship is used for tuition fees, books, supplies and equipments required by the students.
90. Divya J Mathias, a ME Student of the Dept. of Chemical Engineering, has published her thesis work in the international journal of "Biocatalysis and agricultural Biotechnology"- 2019, Volume 20 (<https://doi.org/10.1016/j.bcab.2019.101259>). Ms. Divya has done her thesis under the supervision of Dr. Vivek Rangarajan, Assistant Professor, Dept. of Chemical Engineering. The article is entitled as 'An investigation on citrus peel as the lignocellulosic feedstock for optimal reducing sugar synthesis with an additional scope for the production of hydrolytic enzymes from the aqueous extract waste'.
91. Harsh Raj, a student of Computer Science & Information System, along with Dr. Swapan Purkait, Director of NETTECH Pvt. Ltd. and Mr. Souryendu Das, Network Software Engineer, Intel Technology India Pvt. Ltd. and a BITS Goa Alumni, has co-authored a paper entitled 'Human-Computer Interactions: The Way Forward,' published by The IUP Journal of Information Technology.
92. Harsh Vijay, a first-year student of Physics, secured 21st rank in the National Graduate Physics Examination (NGPE), conducted by The Indian Association of Physics Teachers (IAPT) in January 2019.
93. Harsh Vijay, a first-year student of Physics, has been selected for the National Initiative on Undergraduate Sciences (NIUS) (Physics) Camp 16.1, organised by Homi Bhabha Centre for Science Education (HBCSE), TIFR (Mumbai) during June 10-22, 2019. With the thrust on promoting undergraduate research and learning, the NIUS programme has been contributing towards training of students and teachers in theoretical and experimental science, preparation of pedagogical material and R&D in science education/ laboratory training. Harsh is the sole-representative of BITS-students amongst the 72 students selected from prestigious colleges / universities across India, who has participated in this programme.
94. Kaivalya Rawal perused his study for a semester in the Politecnico di Milano, Italy, under the agreement of student exchange.
95. Mehul Mohan, a second year student of Computer Science & Information Systems, has been awarded a scholarship to participate in the Apple Worldwide Developers Conference (WWDC) 2019, scheduled during June 3-7, 2019 at San Jose, California (USA). WWDC is awarded to around 250-300 students globally, among which 9 students from India were selected this time. The scholarship included a ticket to the conference, lodging for the week and one year membership in the Apple Developer Programme.
96. Rijul Arora was selected to participate in the 22nd World Business Dialogue (<https://www.world-business-dialogue.com/>), one of the largest international student business conferences, during February 18-22, 2019. This year's theme was Digital Zeitgeist – Time to Rethink Learning. Rijul was amongst 220 delegates selected from a diverse pool of about 2000 international applicants from around 60 countries.
He was selected to be a member of Creation Labs comprising of 90 delegates who worked to digitize the administrative and registration process for incoming foreign exchange students in Faculty of Management, Economics and Social Sciences of University of Cologne. Rijul offered his analytical and consulting skills to his team which finally won the competition.
97. Rijul Arora delivered a TEDx talk at Kristu Jyoti College of Management and technology (KCMT), Kerala, on July 13, 2019. The topic of his talk was 'A 21 year old millennial's journey from social media addiction to Joy of Missing out.
98. Sharad Chitlangia was appointed Visiting Undergraduate Research Intern at Harvard University's Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) where he worked on Deep Reinforcement Learning for the summer of 2019.
99. Sharad Chitlangia completed Google Summer of Code 2019 with CERN-HSF for preparation of software to be used in mainstream particle tracking at the Atlas experiment, Large Hadron Collider.

100. Siddhant Vitthal Patil, a fourth-year student of EEE department studying ENI, has been selected for the International Linkage Degree Program (ILDLP) START plus 2019, International Linkage Degree Program for Developing Innovators Transforming Advanced Technology to Social Goals. The program is scheduled during June 24-30, 2019 at Hiroshima University. Siddhant will be financially supported by the Sakura Science Plan, Japan Science and Technology Agency (<https://ssp.jst.go.jp/EN/index.html>) and the Hiroshima University.

ILDLP-START plus Program is an intensive short course, providing an introduction to the exciting and emerging field of cutting-edge technology of Hiroshima University, especially the laboratories relevant to ILDP target fields; smart infrastructure development, new energy, and environmental sustainability.

101. Suyash Gaekwad, fourth year student of Electrical & Electronics Engineering department appeared for the GATE 2019 examination this year and secured an all India rank (AIR) 13 in Instrumentation engineering discipline.
102. Awani Khodkumbhe, a final year B.E. Electronics and Instrumentation student is selected in top 20 Electrical students in the world as IEEE SSCS Rising Star 2020. The ceremony will take place during the premier conference of IEEE SSCS - ISSCC 2020 in San Fransisco, California in February 2020. She was mentored by Prof. Bram Nauta, Prof. A.J. Annema, University of Twente and Prof. Abhijit Pethe, BITS Pilani, K K Birla Goa Campus.
103. Eight students were awarded partial travel support grant by IPCD for conducting First Degree thesis in reputed foreign universities.

Name	Department	Foreign Institute / University
Aaditya Vikas Vaze	Computer Science	Department of Computer Science, University of Toronto, Canada
Adwait Bauskar	Mathematics	Inria, France
B. Rachith Aiyappa	MSc Physics & Mechanical Engineering	Humboldt-Universität zu Berlin, Berlin, Germany
Glenn Jacob Fernandes	Biological Science	MIT Media Lab, USA
Samarth Mittal	Computer science	NTU, Singapore
Siddhant Jain	Computer Science	NTU, Singapore
Shivam Agarwal	MSc Economics and Computer Science	Insight Centre for data Analytics, Dublin City University, Ireland
Tejas Zodage	Mechanical Engineering	Carnegie Mellon University, USA

104. TECHEXPO'19: The TechExpo'19 was aimed to mark the presence of the projects carried out in the campus by displaying them to the people outside of the campus. It was the first major collaboration between CTE (Center for Technical Education), and the tech clubs of the campus like SEDS Celestia, Electronics and Robotics Club, Aerodynamics club and SAE BITS Goa. The event was coordinated by Chinmay Gokhale and Jay Kamat under the guidance of Director G. Raghurama and faculty coordinator Professor Bharat M. Deshpande. The team consisted of 7 third year, 25 second year and 30 first year students. A team of 5 students were involved in contacting and inviting school participation. Around 210 students of class IX to class XII from 10 different schools across Goa including Mushtifund High School, K.B Hedgewar High School, Bhatikar Model High School participated in the Expo. The financial responsibility of the event was undertaken by CTE.

The event included a small introduction by the club coordinators followed by exhibitions of around 19 projects, with members from every project explaining the details. The school students were divided into groups of 7 and every group was assigned a mentor who guided them through the event. The event was covered by various media houses like The Navhind Times, The Goan, Lokmat, Business Goa and Doodardshan. This has made a considerable impact on the awareness of the projects in the Goan society.

The next edition would be planned to be held over two days with more schools' participation and displaying more projects. It would also be planned to have better media coverage resulting in more publicity of the technical culture of our campus.

105. NIRMAAN: Nirmaan, Goa Chapter organised various events in this semester:

- UDAAN: On February 23, 2019 the volunteers of NIRMAAN successfully organised Udaan in association with Spree - the sports festival of BITS Pilani Goa Campus. Udaan is a sports festival for the differently abled children across various schools in Goa. Udaan 2019 witnessed participation of over 150 students from 4 different schools from Goa. It was held in collaboration with Special Olympics Association Bharat - Goa and Paralympics Association of Goa. Sports such as judo, football, softball, bocce and athletics were played by these children. The prize distribution ceremony was graced by Prof. Raghurama G, who conferred medals and certificates upon the winners.
- MENSTRUAL HYGIENE AWARENESS: On February 6, 2019, NIRMAAN organized an awareness session on the topic of menstrual hygiene and its understanding. The discussion and the presentation revolved around lifestyle disorders like Polycystic Ovary Syndrome (PCOS) and alternative feminine hygiene products like menstrual cups. It was conducted by Dr. Jansi Satyanarayanan and Mrs Suman Nikhil Sharma from Samriddhi Sharma Foundation, an NGO in Goa.
- ITI INITIATIVE: NIRMAAN team organized an awareness session in association with ITI Vasco in two nearby schools, Keshav Smruti, Alto Dabolim and Shree Yallalingeshwar Sharda Mandir, Zari on the 8 March. Over 100 students of class 9 and 10 attended the sessions and were acquainted with future vocational training options at ITI.
- BANKING INITIATIVE: NIRMAAN held a banking informative session for gardening staff, the security staff and the mess workers. This session, conducted by personnel from SBI, informed the attendees about the procedure for setting up an account, deposition of money, withdrawal of money, use of ATM cards, slip-less cash deposit facility, printing of passbooks, application of UPI and the use of SBI's YONO application.
- GMS PROJECT: With the help of a social worker, Mrs Alka Damle, major repair of Government Middle School (GMS), Dabolim was undertaken by NIRMAAN. The leaky tiled roof was replaced with cemented asbestos sheets, external and internal walls were painted, water tank and water filter was repaired, electrical connections were repaired and new lights were fitted.
- COMPUTER INSTALLATION: In April, NIRMAAN installed a full set of 5 computer systems at Sanjay Centre for Special Education, Vasco. The donation was facilitated by BITS Pilani K K Birla Goa Campus.
- BLOOD DONATION & EYE CHECK-UP CAMP: In January, a blood donation camp was organized by NIRMAAN in association with Goa Medical College. In February an eye check-up camps for the workers and non-teaching staff was held.
- CLOTH COLLECTION DRIVE: NIRMAAN- Goa Chapter and Abhigyaan conducted a Cloth and Notebook collection drive. The collections of this drive were donated to Goa Welfare Charitable Trust for distribution amongst the needy.
- STREET PLAY: NIRMAAN conducted 8 versions of the street plays that ranged from issues like drug abuse and domestic violence to the flaming topic of voter awareness and registration and the menace of unhygienic surroundings, the actors expressed themselves with an appealing vigour in different parts of Goa.
- SESSION ON FEMALE HYGIENE AND MENSTRUAL CUPS: NIRMAAN in collaboration with the Upasana Society conducted an awareness session about the importance of menstrual hygiene. Miss Dipti Kashalkar, the speaker, educated the audience on the importance of menstrual hygiene and the use of menstrual cups.
- FIRST-AID AWARENESS SESSION: On the occasion of Children's Day, NIRMAAN conducted an awareness session on First Aid and its implications. This was conducted at SYSM High School in Vasco Da Gama. The children were taught about first aid and its importance through interactive exercises.
- Mahindra Open Drive Collaboration: NIRMAAN partnered with Mahindra Open Drive to support over 100 women through a fundraiser for rural women and it involved five levels of donations based on the amount. The event happened on the 8th & 9th of November.
- JOY OF GIVING WEEK: With the slogan of "A Small Spark Lifts The Dark", NIRMAAN-Goa Chapter was back with another edition of the Joy Of Giving Week. The week consisted of a plethora of events

conducted both on-campus and off-campus. ranging from visits, clean up drives to fun-filled activities. These events witnessed participation from all age groups. From children, students, faculty members, supporting staff, adults to the elderly, this week had something for everyone.

- **TEACH FOR A DAY:** Teach For A Day was an event for freshers to understand a part of the work that NIRMAAN does throughout the year. Conducted for over 5 days it was a chance to become someone's tutor for a day and teach the children of Zari and Lamani. The first edition was conducted in August. The second edition was conducted on the occasion of Children's Day, 14th November. Combined the event witnessed a participation of over 200+ volunteers.

Hyderabad Campus

1. Convocation 2019 was conducted on August 4, 2019. The chief guest for the day was Prof. Goverdhan Mehta, University Distinguished Professor & Dr. Kallam Anji Reddy Chair, School of Chemistry University of Hyderabad. Prof. Souvik Bhattacharyya, Vice Chancellor and Prof. G Sundar, Director, Hyderabad Campus gave away the Degrees. During the Convocation 921 students from First Degree, Higher Degree and Ph.D received their degrees. Four students from Bachelor's degree programmes were awarded Medals: **Gold medal** - Anirudh Srinivasan; **Silver medal** - V Thejas and **Bronze medal** – Bhavsar Neel Hiteshbhai & Sangi Manish Rao.
2. Dr. Satyapaul A. Singh won Prof. N.R. Kuloor Memorial Award for best PhD thesis, IISc Bangalore. (September 12, 2019)
3. Mr. Rajat Gupta won Padmasri Dr. B V Raju Memorial Best Merit Student Award. (July 7, 2019)
4. Mr. Hithesh Augustus and Mr. Prithvinath won Best oral presentation awards at The National Conference on "Advances in Chemical Engineering and Science (ACES-2019)" at Chemical Engineering Department, IISER Bhopal (March 7-8, 2019), Madhya Pradesh, India.
5. Mr. Aditya S Venkataraman; Mr. Prakhar Jain; Mr. Piyush Sharma won 3rd Prize in Padmasri B.V. Raju Memorial Technical QUIZ Competition (An IChE Event held on February 21, 2019).
6. Ms. Vedika Y. Kulkarni won 1st Prize in Ramanathan Memorial ESSAY WRITING Competition (An IChE Event held on 21st February, 2019).
7. AT015 Best Paper Award – Freight Transportation and Logistics Committee, Transportation Research Board, National Academy of Sciences, Washinton D C, USA
8. Dr. Anasua GuhaRay was elected as an Executive Member of Indian Geotechnical Society, Hyderabad Chapter (2019-2021).
9. Prof. K. Srinivas Raju was chosen as Member, International editorial board, Journal of Water and Climate Change, IWA Publishing (https://iwaponline.com/jwcc/pages/Editorial_Board [with effect from May 23, 2019])
10. Prof. K. Srinivas Raju was chosen as subject editor, H2 Open Journal, IWA Publishing [with effect from May 6, 2019] (https://iwaponline.com/h2open/pages/Editorial_Board)
11. Dr. Kalyana Rama, from the Department of Civil Engineering, was awarded the travel grant under Young Researcher Category by FRAMCOS-2019, France (June 2019).
12. Dr. Anasua Guharay, from the Department of Civil Engineering, received "2018 Outstanding Reviewer" recognition from International Journal of Geomechanics, American Society of Civil Engineers (ASCE) in March 2019.
13. Dr. Arkamitra Kar, from the Department of Civil Engineering, received "Recognized Reviewer Status" from Construction and Building Materials, Elsevier in February 2019.
14. Mr. Agnivesh P (2014PH30005H). - AT015 Best Paper Award – Freight Transportation and Logistics Committee, Transportation Research Board, National Academy of Sciences, Washinton D C, USA
15. Mr. Mazhar Syed (2017PHXP0007H) has won a Best Consolation Prize in GEOAPPS 2019 from IIT. HYDERABAD in April 2019.
16. Dr. Souvik Kundu was appointed by VC, JNTU Hyderabad as an expert for Faculty Selection at KG Reddy College of Engineering & Technology, January 2019.
17. Dr. Sanket Goel became associate editor for IEEE Sensors and IEEE Access Journals

18. Dr. Parikshit Sahatiya received Outstanding Reviewer award from IOP Materials Research Express Journal in 2019.
19. Dr. Karumbaiah C N received Outstanding Reviewer award from Sensors & Actuators B Journal in 2019.
20. Dr. Sanket Goel received Visiting fellowship from TAOYAKA Program, Hiroshima University, January 2019.
21. Dr. Runa Kumari became Secretary, MTT/AP/EMC Society Jt. Chapter, IEEE Hyderabad Section and also promoted to IEEE Senior Member.
22. Dr. Sanket Goel has become the Visiting Associate Professor with the UiT he Arctic University of Norway, February 2019 onwards.
23. Students attended Industrial work/interns at Qualcomm, Google, CEE Ahmedabad, SanDisk, Inodaatatics, etc.
24. Sarthak and Yohan did their B.Tech thesis at Korea and US, respectively. Jeffry is visiting Technion-Israel for the same.
25. Students attended (also going to attend) summer internships at prestigious Universities in Singapore, Paris, Canada, and Germany with fellowships like DAAD, MITACS Globalink, etc.
26. Student Teams from EEE Department participated in E-Yantra (National level competition) and Launchpad.
27. N. Madan has participated (ranked 50/6733) in Flipkart grid challenge, whereas A. Dubey participated Hackharvard (ranked 9/650). M. Gupta & R. Singh participated Texas Instruments India Innovation Challenge.
28. K Parvadha, Naresh Sonti, Akash K. and Sai Teja Selected for final round - Anveshan Fellowship 2019 (Analog Devices)
29. SIP Project grants received by Parasuram IVLN, Dhanvanth Balakrishnan, Jay Karhade, Digvijay Singh, and Prasad Gole.
30. Naren Surampudi AIR 28 in the ZS Young Data Science Challenge 2019 Final Select in Invesco Hack2Hire 2019.
31. Priyash Barya got selected for the MITACS Globalink Summer Research Internship 2019. Through the program, she got a fully-funded opportunity to work at the University of Alberta, Canada for 3 months.
32. Prathamesh Saraf got accepted the Presentation in IEEE INDICON Conference 2019. Conference paper on a project ' A Convolutional Neural Networks approach Towards Self Driving Cars'.
33. K G Sankalp Won the First prize at Tech expo during ATMOS 2019 worth 45K for demonstrating prototype of novel biosensor for detection of cancer from saliva.
34. Abhishek Khurana made a 3d scanner that can be used to scan and hence obtain a mesh for any object. He backed the 4th prize in TechExpo, Atmos 2019 for the same.
35. Dr. Satish Kumar Dubey won "ILDP Faculty Exchange: under International Exchange Program titled International Linkage Degree Program (ILDP) for Developing Innovators Transforming Advanced Technology to Social Goals, Hiroshima University. July 2019.
36. Dr. R Parameshwaran Won Best Paper Award, 12th International Conference on Thermal Engineering: Theory and Applications (ICTEA-2019), February 23-26, 2019, Pandit Deendayal Petroleum University Gandhinagar, Gujarat, India in collaboration with Ryerson University in Toronto, Canada.
37. Prof. Yogeeswari was awarded Shri B.K. Birla and Shrimati Sarala Birla Chair Professorship in 2019.
38. Prof. Yogeeswari TiE-BIRAC WinER Award 2019 for Women in Entrepreneurial Research received at the 7th Foundation Day Ceremony of BIRAC on March 19, 2019, New Delhi, India.
39. Prof. Yogeeswari Best Paper Award in the Category of Food Research January 2019-at the International Conference on Biotechnological Innovations in Food and Healthcare, January 27-28, 2019, Dubai, UAE.
40. Prof. Sajeli Begum received "International Travel Award" funded by Nectar Therapeutics Private Ltd., 2019.
41. Arti Dhar received Indra Parekh 50 women in Education Leaders World Education Congress 2019
42. Ms. Kirti, Research Scholar under Prof. Sajeli Begum received "Meilstein Travel Award" of \$1,200.00 USD to present paper in International Conference Cytokines 2019 in Vienna, Austria.

43. Ms. Kirti Research Scholar under Prof. Sajeli Begum received CSIR-Travel Grant for attending Conference.
44. Ms. Pragya Paramita Pal, Research Scholar under Prof. Sajeli Begum received CSIR-Travel Grant for attending conference.
45. G. Roy received Travel Fellowship from CRS - India Chapter to present poster at CRS Annual Meeting, Valencia, Spain, July 21, 2019.
46. G. Roy received 2nd Best Poster Award at CRS - India Chapter Annual Meeting.
47. Pravesh Sharma was awarded as best young author of the accepted abstracts and 600 euro travel grant 56th ERA-EDTA Congress - June 13-16, 2019 - Budapest, Hungary.
48. Dr. Subhrakanta Panda was External Technical Expert member of the committee for Preliminary Design Review of Project PRIDE (Programmer's Ready Integrated Development Environment), ANURAG, DRDO, Hyderabad.
49. Dr. Subhrakanta Panda was External Expert Panel Member of the Faculty Selection Committee of MLRIT, Hyderabad.
50. Dr. Subhrakanta Panda was Technical Committee member of TENCON-2019 Conference held in Kochi, Kerala, India during October 17-20, 2019.
51. Dr. Subhrakanta Panda was Technical Committee member of Fed CSIS - LASD-2019 Conference held in Leipzig, Germany during September 1-4, 2019.
52. Dr. Barsha Mitra acted as a Technical Committee member of IDRBT Doctoral Colloquium 2019.
53. Dr. Barsha Mitra acted as Program Committee member of 2nd International Workshop on Open Services and Tools for Document Analysis (ICDAR-OST) 2019.
54. Dr. Barsha Mitra acted as a Technical Committee member of the 1st IEEE International Conference on Trust, Privacy and Security in Intelligent Systems, and Applications (IEEE TPS) 2019.
55. Dr. Suvadip Batabyal received the TUBITAK 2019 fellowship from Govt. of Turkey for visiting scientist at Sabanci University, Turkey for 3 months.
56. Dr. Suvadip Batabyal acted as the TPC member at the IDRBT Doctoral colloquium 2019.
57. Dr. Suvadip Batabyal acted as the TPC member in IEEE ANTS 2019 to be held at BITS Pilani, Goa during December 16-19, 2019.
58. Dr. Odelu Vanga is TPC member of International Congress on Blockchain and Applications (BLOCKCHAIN'19) will be held in Avila during June 26-28, 2019.
59. Dr. Odelu Vanga is one of the Organizing Chair of International Conference on Mining Intelligence and Knowledge Exploration (MIKE2019), will be held at NIT Goa, Goa.
60. Dr. Lov Kumar Singh was appointed as an Editorial Board Member of the Journal of Computer Science and Artificial Intelligence, November 2019.
61. Dr. Lov Kumar was PC Member of 17th International Conference on Information Technology : New Generations (ITNG 2020), 2020.
62. Dr. Lov Kumar was PC Member of PC Member of 13th Innovations in Software Engineering Conference (ISEC 2020) PhD Symposium.
63. Dr. Lov Kumar was invited as Chief Guest and judge for National Level an IT Exhibition-St.Ann's Technocrats 2019.
64. Dr. Lov Kumar was invited as Chief Guest for Two Weeks Faculty Development Program (FDP) on Emerging Trends in Machine Learning for Biomedical Applications 2019, NARASARAOPETA ENGINEERING COLLEGE, India, July 29 to August 10, 2019
65. Dr. Lov Kumar Received Best Young Researcher Award (Male) (Below 40 years) for outstanding research International Academic and Research Excellence Awards (IARE-2019).
66. Dr. Lov Kumar Received Young Scientist Award for outstanding research by IOSRD.
67. Dr. Lov Kumar Received Best Researcher Award for outstanding research for the year 2018, by IOSRD.
68. Dr. Rajib Ranjan Maiti is Organizing Chair for Student Travel Grant in CoDS-COMAD, 2020, ISB, Hyderabad.

69. Prof. Tathagata Ray was awarded "Best Professor In Information Studies" by Business School Affaire & Dewang Mehta National Education Awards (Regional Round) at Taj Banjara, Hyderabad on 15th November 2019.
70. Prof. Tathagata Ray was a member of the organizing committee for CALDAM 2019, conducted in IIT Kharagpur during February 14-16, 2019.
71. Mr. Kounteya Sarkar (2016H3130077H) received the student travel grant from ACM for presenting the paper: Suvadip Batabyal, Kounteya Sarkar, "Realizing parallelism in quantum MISD architecture," in Proc. of the 16th ACM Intl. Conf. on Computing Frontiers (CF'2019), pp. 230-234, Alghero, Italy — April 30 - May 02, 2019.
72. Mr. Himanshu Gupta won Best Paper Award for An Empirical Framework for Code Smell Prediction using Extreme Learning Machine, 9th Information Technology, Electromechanical and Microelectronics Conference (IEMECON 2019), Jaipur, India.
73. Afroz Ahamad Siddiqui received partial travel grant of INR 100,000 for presenting paper titles Generating Text through Adversarial Training using Skip-Thought Vectors at the North American Chapter of the Association for Computational Linguistics (NAACL) in Minneapolis, USA in June 2019.
74. Keval Morabia received partial travel grant of INR 100,000 for presenting paper titled SEDGWick: Segmentation-based Event Detection from Tweets Using Wikipedia at the North American Chapter of the Association for Computational Linguistics (NAACL) in Minneapolis, USA in June 2019.
75. Mr. Mandan Naresh, a PhD student of CSIS Department, has been selected for the TCS Research Scholar Program in August 2019.
76. Mr. Morabia Keval Mahendra, Mr. Afroz Ahamad Siddiqui, Mr. V. Thejas, Mr. Ankit Anand, Mr. Ajaykrishna Karthikeyan, Mr. Hitesh V. Bhagchandani, Mr. Rakesh Chinthakrindi have got the Off Campus Thesis in the Microsoft Research Lab India, Bangalore in the II Semester 2018-19.
77. Mr. Anirudh Srinivasan got the Off Campus Thesis at the University De Montreal, Canada in the II Semester 2018-19.
78. Mr. Keyur Jain got the Off Campus Thesis in the Media. Net, Bangalore in the II Semester 2018-19.
79. Mr. Tarun Raheja got the Off Campus Thesis in the Indian Institute of Science Education and Research, Pune in the II Semester 2018-19.
80. Mr. Aditya Kumar got the Off Campus Thesis in the Microsoft Redmond WA, USA in the II Semester 2018-19.
81. Mr. Arnav Dhamija got the Off Campus Thesis at the National University of Singapore, Singapore in the II Semester 2018-19.
82. Mr. Arvind A S got the Off Campus Thesis in the Nanyang Technological University, Singapore in the II Semester 2018-19.
83. Mr. Yash Raj Jain, Ms. Ahana Ghosh have got the Off Campus Thesis in the II Semester 2018-19 and Mr. Skanda Vaidyanath has got the Off Campus Thesis I Semester 2019-20 in the Max-Planck-Institute for Intelligent Systems, Germany.
84. Mr. Aditya Vidhate got the Off Campus Thesis in the Inter-University Centre for Astronomy and Astrophysics, Pune in the II Semester 2018-19.
85. Ms. Supriya Lakhtakia got the Off Campus Thesis in the Indian Institute of Information Technology, Hyderabad in the II Semester 2018-19 in the II Semester 2018-19 in the I Semester 2019-20.
86. Ms. Shivani Reddy got the Off Campus Thesis in the Indian Institute of Science, Bangalore, Bangalore in the I Semester 2019-20.
87. Ms. Aditi Sharma got the Off Campus Thesis at the University of Michigan, USA in the I Semester 2019-20.
88. Mr. Vamsi Krishna Aribandi got the Off Campus Thesis in the Kno.e.sis, Wright University, USA in the I Semester 2019-20.
89. Ms. Deeksha Kartik got the Off Campus Thesis in the Shafiee Lab-Harvard University, Cambridge, MA-02139 I Semester 2019-20.
90. Mr. Bharat Malhan a First Degree student of CS&IS department did on On-Campus thesis with Dr. Paresh Saxena and visited Simula Research Centre, OSLO, Norway to work with Co-Supervisor Dr. Thomas Dreibholz I Semester 2019-20.

91. Prof. Jayanty Subbalakshmi was awarded "Distinguished Women in Science" by Venus International Foundation.
92. Prof Sounak Roy was selected in the list of finalists for NASI Scopus Award.
93. The research work of Prof Manab Chakravarty was recognized by Indian Sciences Wire (S&T News from India).
94. Mr. Arunraj B was selected to the final round of the Young Chemist Award conducted by METROHM-IIT Bombay during September 2019.
95. Dr. Archana Srivastava and Dr. Rishi Kumar was awarded with Macro Research Award for the project titled, "Sustainability of Cashless Banking in Unorganized Retail Sector: A Comparative Study of Two Districts of Telangana" sponsored by Indian Institute of Banking and Finance from 7th June to 7th December 2019 (6 months).
96. Ms. Bhavya Mishra, M.Sc. (Eco) 2013-18 batch, received admission offer for graduate programme from University of Chicago.
97. Ms. Gattani Saumya Chandrashekhar, M.Sc. (Eco) 2013- 18 batch received admission offer for Masters in Finance from London School of Economics.
98. Mr. Yashraj Jain, M.Sc. (Eco) 2014-19 batch, first authored paper titled "Measuring How People Learn How to Plan" was accepted for poster presentation at the conference CogSci 2019, Montreal, Canada and extended abstract titled "Measuring How People Learn How to Plan" accepted for poster presentation at the conference "Reinforcement Learning and Decision Making" 2019, Montreal, Canada.
99. Ms. Shrushti Kulkarni, M.Sc. (Eco) 2014-19 batch received admission offer for Masters in Financial Engineering from UCLA.
100. Mr. Kushagra Chanda, M.Sc. (Eco) 2015-20 batch, with Mr. Shaheer Azam and Mr. Srikanth Sridhar won 2nd place at the Hyderabad Zone of SBI Numero Yono Quiz, winning a prize money of Rs. 1.44 lakhs - 2/3/2019.
101. Mr. Rahul Midha, M.Sc. (Eco) 2016-21 batch, got selected for MITACS Globalink Research Internship Program- May 2019 to August 2019.
102. Ms. Shreeya Jain, M.Sc. (Eco) 2016-21 batch, got selected for an internship in Langone School of Medicine, New York University.
103. Mr. Yashdeep Singh Dahiya, Mr. Lakshith D, Mr. Garvit Arora, Mr. Pratik Rathi and Mr. Shyam Jesalpura, M.Sc (Eco) 2016-21 batch, got selected for IIM-B internship programme- May 20 - July 20, 2019.
104. Prof. B. Mishra has been elected as a foreign member of Russian Gravitational Society.
105. Prof. P.K. Sahoo has been elected as a fellow of Royal Astronomical Society, London.
106. Prof. P.K. Sahoo has been elected as a foreign member of Russian Gravitational Society.
107. Mrinal Jha (2016B4A70501H), Murlikrishnan Tripathi (2016B4A70329H) and Pratik (2016B4A70549H) participated in Microsoft codefundo and secured 1st position.
108. Anshuman Pati (2016B4A70470H) participated in Microsoft codefundo and secured third position.
109. Jaina Paresh Shah (2016B4A70496H) did an internship at Tel Aviv University in the field of Deep Learning Application in Cyber Security.
110. R. Harivallabha (2016B4A70519H) and Kothwal Khalid Riyaz (2016B4PS0483H) selected in Google summer of Code (GSoC).
111. Mukundan Jayaraman (2016B4A70355H), Shivaank Agarwal (2016B4A70675H) and Prateek Gupta (2015B4A70482H) selected for MITACS.
112. International travel by Department of Science & Technology, Government of India to S. Banik to present a paper in the international conference "Texas Symposium on Relativistic Astrophysics" at Portsmouth, UK December 2019.

Dubai Campus

1. On August 31, 2019, the "Convocation 2019" ceremony was held in BITS Pilani, Dubai Campus. The occasion was graced by the Chief Guest, Dr Eesa Mohammed Bastaki, President, University of Dubai. At this prestigious event, the degrees were conferred on 443 Graduates who graduated with Ph.D, Higher Degree and First Degree in the following disciplines of engineering, specifically: Chemical Engineering, Electrical and Electronics, Mechanical Engineering, Computer Science, Electronics and Instrumentation, Electronics and Communication, Biotechnology, Design Engineering, Microelectronics, Software Systems and M.B.A. Awards for academic excellence and all-round achievements were given to deserving students.
2. Dr Eesa Mohammed Bastaki, in his address appreciated the management of BITS Pilani, Dubai Campus for understanding the trends of UAE leaders' hard work to enable the rapid evolutionary measurements and expedite the execution of major projects and innovative ideas. Keeping up with the current trends resulted in continuous growth and enhancement of BITS Pilani, Dubai Campus since its inception in the year 2000. He congratulated the graduating batch and encouraged them to participate in innovative activities to support the initiatives of the UAE government to transform UAE into a smart society and contribute to secure sustainable growth for future generations. Dr. Kumar Mangalam Birla, Chancellor, BITS Pilani, in his remote address gave two key messages to the graduating batch: to commit to a lifetime of learning and be a force of change. In this fast-changing world, no degree is sufficient to provide the knowledge and wisdom for a lifetime. Dr. Birla further stated, "the learning curve has turned steeper now, as technology is forcing us to question how we live our lives and how we do our work." Delivering the convocation address, Vice Chancellor, Prof. Souvik Bhattacharyya, congratulated the graduating students and stressed that the alumni is a force multiplier for any academic institute. The Alma Connect database-cum-community portal is a planned initiative to foster alumni relations. He highlighted that BITS Pilani is India's highest ranked non-Government Institute as declared in various reputed world rankings such as QS BRICS, QS Asia, and QS India in 2019. Prof. Dr. R.N. Saha, Director BITS Pilani, Dubai Campus, emphasized this year more than 100 companies participated in the Campus Placement Program. Members of the Senate, Industry Partners, BITS Alumni, Faculty Members and parents of the graduating students were present during the convocation. Ms. Neeraja Padman was awarded Gold Medal, Mr. Usaid Saud Changan was awarded Silver Medal and Mr. Shamith Louis Saldanha was awarded Bronze medal for their excellence in academics. Ms. Shraddha and Mr. Shaleen Bengani were awarded the Director's Medal for All Round Achievement. The convocation ended with Oath by the graduating students.
3. BITS Pilani Dubai campus were the Runners Up in the Inter University Sports Event 2019 during February 9-14, 2019 organized by Gulf Medical University Ajman.
4. Prem Dakshin, student of 1st year MBA, BPDC won the Joint Second Prize AED 3500/- in the Graduate Student Category across all disciplines for his topic "FLOWCON: Frustum CAM (FC) based Fluid Flow Control Mechanism" in the 3rd AUE Student Research Competition held during March 25-26, 2019 at the American University in the Emirates, Dubai. Dr. Shashank Khurana, Assistant Professor of Mechanical Engineering was the supervisor.
5. Students from Computer Science Department, Shaleen Bengani (IV CS), Mohammed Shoaib (III CS) and Shruti Arippara Vinodh (IV CS) secured the first place in the 9th Gulf Programming Contest held on April 1, 2019 at Sultan Qaboos University in Muscat, Oman. Solving 9 problems (out of 12) over a grueling five hours, they won the highly competitive contest, which had a total of 55 teams representing 29 universities from various countries in the Gulf including UAE, Qatar, Oman, Saudi Arabia and Kuwait. The students were awarded a trophy and a Huawei P20 Pro phone each for their accomplishment. They were also given the title of Solid Programmers for solving the maximum number of questions in the first attempt. Dr Sujala D.Shetty, Assistant Professor and Head of Computer Science served as the faculty coach for the team.
6. Lalitha Natraj, a third year Computer Science Engineering student, who has a passion for writing and storytelling, has published her novel, 'Diamond Discovery'. It is the second in a series called 'The Imperial Jewels', the first of which, 'Sapphire Search', she wrote and published when she was 16. It is now available at the Kinokuniya stores in Dubai Mall, UAE and through online portals such as amazon.in.
7. On April 24, 2019, BITS Pilani, Dubai Campus was adjudged as having the "Best Technology Program" by Forbes Middle East. The winners from different countries in the Middle East were announced in Forbes Middle East Higher Education Awards 2019 ceremony in Taj Dubai, UAE.
8. Adithya Pradeep Nair, Shivam Mishra, Rishabh Kaushik from Computer Science and Shilpa Sreekumar from Mechanical Engineering received Best Paper Award in the 4th Student Research Colloquium on

“Advances in Engineering & IT” AEIT-2019 held at Manipal University, Dubai during April 24-25, 2019. Dr. Shashank Khurana, Assistant Professor of Mechanical Engineering served as the supervisor.

9. Fintech 2.0 Hackathon was organized by Department of Finance, Abu Dhabi during April 25-28, 2019. The Team DoFchain consisting of Prashanth Konda - 3rd year CS, Yatharth Kher - 2nd year CS, Hardik Bhatia - 2nd year CS won the 1st Prize of AED 20,000 for their solution on making the national budgeting process automated while reporting any flaws and secure using Blockchain. The Team TracX consisting of Georgio Sunil - 3rd year CS, Aamir Shakir - 3rd year CS, Abdul Raqeeb - 3rd year CS, Tanvir Singh Ahuja - 2nd year CS won the 2nd Prize of AED 15,000 for their project where they built a Risk Analysis software for budgeting using AI and Blockchain technology.
10. Nine teams from BITS Pilani, Dubai Campus participated and presented their research work in Finals of 7th Undergraduate Research Competition conducted by Abu Dhabi University held on April 29, 2019. Around 300 papers were shortlisted for Finals from a pool of over 900 papers. Students Urvashi Satwani and Amaan Fathima from Chemical Engineering mentored by Dr. Nishant Pandya, Assistant Professor of Chemical Engineering secured prestigious 1st place in Environmental Science section and received prize money of AED 5000.
11. Mantra awards are held every year in all the BITS campuses. These awards were instituted by CEL in 2009, to recognize and reward outstanding students who have demonstrated extraordinary leadership potential and/or entrepreneurial initiative. The following students were the Mantra Award Winners from Dubai Campus for 2018-19. Pranay Addepalli won Outstanding Leadership - Male, Anoushka Pirta won Outstanding Leadership - Female, Navisha Daga won Social Leadership and Tarun Krishna Jayachandran and Mohamed Nawaz Muallim (Team Trift) And Yashodhan Naik (Team Navifly) Jointly Won Entrepreneur of the Year.
12. BPDC students stole the spotlight at the 1st UAE University Blockchain Challenge Finals organized by Heriot Watt University, Dubai Campus in collaboration with Nem.io and Dubai Silicon Oasis Authority on May 2, 2019. The following were the winning teams: 1st Prize of AED 55,000 was won by Team AutoChain consisting of Jaskanwar Singh, Sujith Sizon, Soumil Mittal, Jayant Panwar and Urvashi Satwani and 3rd Prize of AED 18,000 was won by Team SolarGridX consisting of Jaskaran Singh Sethi, Hardik Bhatia, Prashanth Konda and Gourisha Sethi. The competition kicked off in September 2018 and looked for the most promising Blockchain challenge and corresponding solution. Over 200+ teams participated in the competition and over the course of 7 months of application development on the NEM platform, top 6 teams were selected for pitching in the final round on May 2, 2019. Team AutoChain worked out a solution making the second-hand Vehicle Market in the UAE secure using Blockchain, while Team SolarGridX built an Exchange platform for tokenization of Solar Assets as an investment commodity using Blockchain technology.
13. Dr. Shamshad Ahmad Khan was invited as Visiting Research Fellowship in a Japanese Research Institute called Policy Research Institute of the Ministry of Finance, Tokyo, Japan for 3 months from 17 May 2019 to August 17, 2019.
14. Prof. Shazi Shah Jabeen received the Best Paper Award for the research paper entitled 'Corporate Social Responsibility Practices in Small and Medium Enterprises' at 9th Global Conference on Business and Social Sciences, Male, Maldives, July 19-20, 2019.
15. Prof. Shazi Shah Jabeen was appointed a member of Technical Committee of 5th International Conference on Culture, Languages and Literature organized by IEDRC and co-organized by the Institute of General Education of Ming Chuan University held during August 15-17, 2019, in Ming Chuan University, Taiwan.
16. Prof. Shazi Shah Jabeen was appointed as Editorial Board Member of Journal of Management and Marketing Review, August 02, 2019.
17. MBA student Harish S' Start Up idea was selected for participation in the Silicon Valley Start Up Program'19 which took place during June 3-15, 2019 in Silicon Valley, United States organized by Silicon Valley Forum. His idea was placed among top 12 out of 100 participants
18. BPDC students stole the spotlight again in the in5 Blockchain Challenge powered by Oracle and Emirates NBD, Dubai and held from September 27- 28, 2019. The team comprising of Mridul Bhandari and Astrid Jerald worked on the idea of Implementing Blockchain in Supply Chain Logistics. They received a cash price of AED 3,000 and will be part of Oracle's Unique Accelerator Program "Oracle for Startups."
19. Sarthak Sethi won the James Dyson Award UAE Competition. The James Dyson Award is an international design award that celebrates, encourages and inspires the next generation of design engineers. It is open to

current and recent design engineering students, and is run by the James Dyson Foundation, James Dyson's charitable trust, as part of its mission to get young people excited about design engineering. Out of hundreds of entries across the world, project "VisionCap" from BITS secured 2nd position at the JDA UAE competition. Award ceremony for the UAE regional level took place at Youth Hub X, Emirates Towers, Dubai on September 30, 2019. Teams were also interviewed by news channels and major newspapers.

20. Kartikey Rai and Sarthak Sethi won the 2nd prize in the TravelTech ME Innovation Competition. The 3rd Annual Travel Tech ME Congress took place during October 8-9, 2019 at The Oberoi Dubai, UAE to exchange ideas, explore the latest developments in the travel industry providing travel professionals the juncture to meet one-to-one to streamline the process of meeting the business objectives on a global platform. The winners will be awarded with a Summer Internship Opportunity at one of the top Online Travel Agencies in UAE.
21. Chemical Engineering students Ms. Urvashi Satwani, Ms. Amaan Fathima, Ms. Jasiya Harris, Ms. Sadhya Gulati, Ms. Shruthi Ravindran and Mr. Allan Barbosa were able to participate with sponsorship in the prestigious Chem-E-Car competition Middle East region which was organized as a part of MEPEC conference in Bahrain by AIChE (American Institute of Chemical Engineers) during October 14-16, 2019. This was the first time that a university from the UAE entered the Chem-E-Car circuit. The BPDC Chem-E-Car team managed to win the most titles among the other teams as they bagged two awards: 1st Place in Poster Competition and Best Video Award. Dr. Eldhose Iype, Assistant Professor of Chemical Engineering served as the mentor for students team.
22. BPDC Student Founder Hardik Bhatia of SolarGridX was awarded at biggest Fintech Festival of MENA region during October 21-23, 2019 organized by Abu Dhabi Global Market. FinTech Abu Dhabi welcomed over 5,000+ delegates from over 70 countries in Abu Dhabi. The Fintech Abu Dhabi Awards showcased the very best in global FinTech innovation across ten inspirational categories and Hardik was awarded "Emerging Fintech Talent of the year". The award is an internationally recognized gold standard for excellence in the field of FinTech. SolarGridX team consisting of Hardik Bhatia, Prashanth Konda and Yatharth Kher, tokenizes the ownership of solar panels to be traded as an investment commodity.
23. On 15 November 2019, BPDC Cricket Team participated in Balade University Premier League emerged as Runner-Up marginally losing in the final match.
24. Neetesh Bhati, Sarthak Sethi and Yatharth Kher participated and secured 1st Position and won cash prize of AED 30000 in "Hack on Health" Hackathon. This event was organized by the Department of Health, Abu Dhabi Government in partnership with Abu Dhabi Digital Authority and IBM during October 27-28, 2019. The students made an app "Salama" for the prevention of chronic diseases. This was done in line with the UAE's Artificial Intelligence Strategy.
25. BITS Pilani, Dubai Campus students bagged top honours of Overall Championship of BITS Sports Festival (BSF) 2019 held during November 24-28, 2019. The Chief Guest of Award Ceremony DJ Bravo, former captain of the West Indies cricket team, graced the occasion and distributed the prizes to the winners. Prof. R N Saha, Director, BPDC and Dr. Priti Bajpai, Associate Dean, SWD congratulated the winners of BSF 2019. Dr. M. Rafiuddin, Senior Manager, Sports Division, BPDC organized the BSF 2019 with excellence.
26. First BITS Innovation Competition (BIC 2019) among BPDC students had begun in April 2019. Around 60 innovative proposals were received for 1st BITS Innovation Competition, out of which 23 teams were shortlisted for finals. After the final round of evaluation which was conducted on 2nd week of November 2019, 4 teams were selected for awards. The Award function was held on 16 December 2019. The winners of BIC 2019 were: Winner was Team SolarGridX, consisting of Hardik Bhatia, Gourisha Sethi, Sarthak Sethi, Yatharth Kher which received Prize Amount : AED 10,000; 1st Runner Up was Team WasheX, consisting of Sameeksha Amin, Neeharika Senthilkumar, Clayton Pereira, Aamer Abdul which received Prize Amount : AED 7,000; 2nd Runner Up was Team AI- Based Health Insurance consisting of Jaskanwar Singh, Sujith Sizon, Urvashi Satwani which received Prize Amount : AED 5,000; and 3rd Runner Up was Team Insight consisting of Allan Mathew, Mohammed Suhail, Hrishikesh Uralath, Sanjeev Narasimhan which received Prize Amount: AED 3000. The BITS proud alumnus Mr. M. P. Sharma, Mr. Kesar Kothari, Mr. Ashok Galgotia and Ms. Sandhya Prakash supported in organizing 1st BIC 2019.

A.2 ADMINISTRATIVE APPOINTMENTS

A. The following have been extended as Directors as per details given below:

S.No.	Name	Administrative Function	Period
(a) Hyderabad Campus			
1.	Prof. G. Sundar	Director, BITS Pilani- Hyderabad Campus and Director, Off Campus Programmes and Industry Engagement	17-07-2019 to 16-07-2021
(b) Dubai Campus			
1.	Prof. R. N. Saha	Director, BITS Pilani- Dubai Campus	24-03-2019 to 17-07-2020

B. The following has been appointed as Dean (Institute-wide) as per details given below:

S.No.	Name	Administrative Function	Period
Hyderabad Campus			
1.	Prof. Suman Kapur	International Programmes and Collaborations	11-04-2019 to 31-07-2020

C. The following has been appointed as Professor-in-charge (Institute-wide) as per details given below:

S.No.	Name	Administrative Function	Period
1.	Prof. P. Yogeewari	Centre for Innovation, Incubation and Entrepreneurship (CIIE)	21-06-2019 to 20-06-2021

D. The following has been appointed as Associate Dean as per details given below:

S.No.	Name	Administrative Function	Period
Dubai Campus			
1.	Prof. Ramachandran Anand Kumar	Practice School Division	16-06-2019 to 10-9-2021

E. The following has been appointed as Finance officer as per details given below:

S.No.	Name	Administrative Function	Period
K K Birla Goa Campus			
1.	Mr. Ajay Kumar Agarwal	Finance Officer	w.e.f. 9-12-2019

F. The following have been appointed as Heads of Departments as per details given below:

S.No.	Name	Department	Period
(a) K K Birla Goa Campus			
1	Prof. Srikanth Mutnuri	Biological Sciences	21-11-2019 to 20-11-2021
2	Prof. Saroj Sundar Baral	Chemical Engineering	21-11-2019 to 20-11-2021
3	Prof. Halan Prakash	Chemistry	21-11-2019 to 20-11-2021
4	Prof. Vinayak Shashikant Naik	Computer Science & Information Systems	21-11-2019 to 20-11-2021
5	Prof. Aswini Kumar Mishra	Economics	21-11-2019 to 20-11-2021
6	Prof. Abhijit Jayant Pethe	Electrical & Electronics Engineering	21-11-2019 to 20-11-2021
7	Prof. Reena Cheruvalath	Humanities & Social Sciences	21-11-2019 to 20-11-2021
8	Dr. Jajati Keshari Sahoo	Mathematics	21-11-2019 to 20-11-2021
9	Dr. Ranjit Shankarrao Patil	Mechanical Engineering	21-11-2019 to 20-11-2021
10	Prof. Radhika Vathsan	Physics	21-11-2019 to 20-11-2021
(b) Hyderabad Campus			
1	Prof. A Sajeli Begum	Pharmacy	29-08-2019 to 30-09-2020
2	Dr. Biswanath Dash	Humanities & Social Sciences	17-09-2019 to 30-09-2020
(c) Dubai Campus			
1.	Prof. Tewfik Mahdi	Civil Engineering	20-08-2019 to 31-05-2020
2.	Prof. Vilas Haridas Gaidhane	Electrical and Electronics Engineering	20-08-2019 to 31-05-2020

G. The following have been appointed as Faculty-in-charges as per details given below:

S.No.	Name	Administrative Function	Period
(a) Pilani Campus			
1.	Prof. Sheth Pratik N.	Instrumentation and Reprography	03-09-2019 to 31-08-2020
(b) K K Birla Goa Campus			
1.	Dr. Rashmi Chauhan	Community Welfare	03-12-2019 to 02-12-2021
(c) Dubai Campus			
1.	Dr. Trupti Swarup Gokhale	Alumni Affairs	12-09-2018 to till further orders

The names and designations of senior officers of different campuses are given in Annexure (Pilani Campus, 'Annexure B1-13'; K K Birla Goa Campus, 'Annexure B2-1'; Hyderabad Campus, 'Annexure B3-1' and Dubai Campus, 'Annexure B4-1').

A.3 ADMINISTRATIVE BODIES

General Body

The General Body of the Institute held its 58th Meeting on 22nd March 2019 under the Chairmanship of Dr. Kumar Mangalam Birla, Chancellor of the Institute. Details are given in 'Annexure A-1'.

Board of Governors

The Board of Governors of the Institute held its 72nd Meeting on 22nd March 2019 under the Chairmanship of Dr. Kumar Mangalam Birla, Chancellor of the Institute. Details are given in 'Annexure A-2'.

Finance Committee

The Finance Committee of the Institute held its 58th Meeting on 22nd March 2019 under the Chairmanship of Dr. Kumar Mangalam Birla, Chancellor of the Institute.

Senate

The Senate of the Institute met five times during the year. It held its 187th, 188th, 189th, 190th, 191st and 192nd meetings on 7th February 2019, 7th March 2019, 28th May 2019, 15th July 2019, 1st October 2019 and 17th December 2019 respectively.

Examination Committee

The Examination Committee met 14 times during the year for analysis and declaration of grades; approval of Ph.D. thesis reports; approval of award of degrees/medals for eligible students; deciding cases of scrutiny, unfair means and related matters.

A.4 ADMISSIONS

BITSAT 2019

A total of 142651 candidates, including 38628 girls, from all over the country applied for BITSAT 2019 test. The candidates had the option of choosing their own centers, date and time for the test, which was conducted during 16th May to 30th May, 2019.

In addition to this 241 applications are also received for admissions under International students' scheme.

BITSAT 2019 Highlights are

- Computer-based objective type online test, conducted from 16th May to 30th May, 2019 in 64 centers across India and in Dubai.
- 112458 candidates including 29499 girls appeared in BITSAT-2019 for 3040 seats.
- Use of secure high-end Technology.
- Choice of date, time and center for candidates, and immediate result on computer screen.
- Eligibility criteria for admission to Integrated First degree programmes: A Minimum 75% aggregate marks in Mathematics, Physics & Chemistry with a minimum of 60% in each (in 10+2 stream).

In addition to admission through BITSAT: direct admission offers were made to board toppers irrespective of their BITSAT score. 16 board toppers joined BITS in 2019.

86 students were admitted under 'International students' admissions scheme'.

The results of admissions to BITS were made available on Internet. Candidates applying for admission to BITS could find the latest information on the status of their application at <http://www.bitsadmission.com/>. Information on waiting list status, fee payment status etc. was made available and thousands of applicants used this instant access for information.

The number of admissions made to various programmes of the Institute in the year 2019 are given in the table below. The numbers in brackets indicate number of female students. The details such as programme-wise cut-off scores etc. are given in 'Annexure A-3'. A comparison of the cut-off marks/scores for admissions to BITS since 1966 are given in 'Annexure A-4'.

	II Semester 2018-2019	I Semester 2019-2020
1. BITS Pilani, Pilani Campus		
Integrated First Degree Programmes		1059 (134)
Higher Degree Programmes		382 (111)
Doctoral Programmes	56 (20)	69 (32)
Total	56 (20)	1510 (277)
2. BITS Pilani , K K Birla Goa Campus		
Integrated First Degree Programmes	-	911(101)
Higher Degree Programmes	-	169(41)
Doctoral Programmes	45 (24)	36 (15)
Total	45 (24)	1116 (157)
3. BITS Pilani, Hyderabad Campus		
Integrated First Degree Programmes	-	1120 (197)
Higher Degree Programmes	-	274 (88)
Doctoral Programmes	66 (26)	73 (33)
Total	66 (26)	1470 (320)
4. BITS Pilani, Dubai Campus		
Integrated First Degree Programmes	7(01)	253 (86)
Higher Degree Programmes	14 (04)	17 (04)
Doctoral Programmes	15 (13)	12 (09)
Total	36 (18)	282 (89)
5. Work-Integrated Learning Programmes		
Post Graduate Certificates	376 (0075)	505 (100)
Integrated First Degree Programmes	457 (0043)	649 (073)
Higher Degree Programmes	3264 (1081)	3145 (637)
Total	4097 (1199)	4299 (810)
GRAND TOTAL (1+2+3+4+5)	4300 (1287)	8677 (1653)

A.5 FLEXIBILITIES: DUAL DEGREE ADMISSIONS

During the academic year 2019-2020, 910 students (355 at Pilani, 270 at Goa and 284 at Hyderabad and 1 at Dubai) were permitted to work concurrently for two first degrees under Dual Degree scheme. Details are given in 'Annexure A-5'.

A.6 AWARD OF DEGREES AND MEDALS

(a) Award of Degrees

During the year, a total of 9547(2124) degrees were awarded. The details on the award of degrees are given below. The numbers in brackets indicate number of female students.

	Number of degrees awarded				
	Pilani Campus	Goa Campus	Hyderabad Campus	Dubai Campus	WILP
84 th Award (vide Board of Governors approval on 22-3-2019)	80 (13)	60 (16)	59 (14)	50 (7)	3094 (760)
85 th Award (vide Board of Governors approval on 16-7-2019)	1436 (260)	892 (130)	1036 (226)	394 (157)	2446 (541)
Total	1516 (273)	952 (146)	1095 (240)	444 (164)	5540 (1301)

(b) Award of Medals for Academic Year 2018-2019

The list of students of Integrated First Degree Programmes for Award of Medals from amongst the students graduated at the end of the First Semester, Second Semester and Summer Term 2018-19 is given in the following table:

A. BITS Pilani, Pilani Campus

S.No.	ID.No.	Name	Gender	CGPA Obtained	Position Obtained	Type of Medal Awarded
Integrated First Degree Programmes (No. of students: 888)						
1.	2015A7PS0549P	RAJAT JAIN	M	9.99	FIRST	GOLD
2.	2015A7PS0355P	VIGNESH NANDA KUMAR	M	9.98	SECOND	SILVER
3.	2014A1B10525P	HARSH KANODIA	M	9.96	THIRD	BRONZE

B. BITS Pilani, K K Birla Goa Campus

S.No.	ID.No.	Name	Gender	CGPA Obtained	Position Obtained	Type of Medal Awarded
Integrated First Degree Programmes (No. of students: 635)						
1.	2014A3A70217G	MADHU ADAV M J	M	9.84	FIRST	GOLD
2.	2014B3A70792G	KATHAN KASHIPAREKH	M	9.65	SECOND	SILVER
3.	2015A7TS0053G	DEVVRIT	M	9.63	THIRD	BRONZE

C. BITS Pilani, Hyderabad Campus

S.No.	ID. No.	Name	Gender	CGPA Obtained	Position Obtained	Type of Medal Awarded
Integrated First Degree Programmes (No. of students: 744)						
1.	2015A7TS0382H	ANIRUDH SRINIVASAN	M	9.96	FIRST	GOLD
2.	2015A7TS0142H	V THEJAS	M	9.82	SECOND	SILVER
3.	2015A7PS0014H	BHAVSAR NEEL HITESHBAI	M	9.77	THIRD	} (Bracketed) BRONZE
4.	2015A7PS0235H	SANGI MANISH RAO	M	9.77	THIRD	

D. BITS Pilani - Dubai Campus

S.No.	ID.No.	Name	Gender	CGPA Obtained	Position Obtained	Type of Medal Awarded
Integrated First Degree Programmes (No. of students: 412)						
1.	2015A8PS0247U	NEERAJA PADMAN	F	10.00	FIRST	GOLD
2.	2015A3PS0396U	USAID SAUD CHANGAN	M	9.99	SECOND	SILVER
3.	2014A3A40001U	SHAMITH LOUIS SALDANHA	M	9.93	THIRD	BRONZE

Director's Medals for the Best All Round Achievement (Dubai Campus)

In addition to the Institute Medals, at Dubai Campus Director's medals are awarded to one male and one female student for the best all-round achievement, in every graduating batch. For the 2019 graduating batch, the Director's medals were awarded to the following students:

S. No.	ID. No.	NAME	SEX
1.	2015A7TS0328U	SHALEEN BENGANI	M
2.	2015AAPS0343U	SHRADDHA	F

A.7 MoUs

The Institute has signed Memoranda of Understanding with the following reputed organizations during 2019.

The Institute has signed Memoranda of Understanding with the following reputed organizations during 2019.

1. International Water Association (IWA), London (United Kingdom)
2. University of Agder, Grimstad (Norway)
3. University of Central Florida, Orlando (U.S.A.)
4. Pace University, New York (U.S.A.)
5. La Trobe University, Wodonga Victoria (Australia)
6. Kregzo Innovation Tech FZE, Dubai (U.A.E.)
7. Curtin University, Perth (Australia)

A.8 NUMBER OF STUDENTS REGISTERED

	No. of Students Registered On-campus				
	Pilani Campus	Goa Campus	Hyderabad Campus	Dubai Campus	Total
Second Semester 2018-2019	5189	3659	4369	1413	14630
Summer Term 2018-2019	1057	836	1157	297	3347
First Semester 2019-2020	5438	4040	4917	1291	15686
GRAND TOTAL					33663

The above table includes students registered in First Degree, Higher Degree and Ph.D. Programmes.

Category-wise Distribution of Ph.D. Students

During Second Semester 2018-2019, a total of 1041 Ph.D. students were on-rolls, while a total of 1143 Ph.D. students were on-rolls during First Semester 2019-2020.

S.No	Category	No. of Ph.D. Students on Rolls							
		II Semester 2018-2019				I Semester 2019-2020			
		Pilani	Goa	Hyderabad	Dubai	Pilani	Goa	Hyderabad	Dubai
1	Research Scholars (FT+PT)	352	259	332	51	385	268	390	53
2	Lectures and Staff	06	09	07	04	05	09	05	04
3	Ph.D. Aspirants	05	03	10	03	07	03	11	03
TOTAL		363	271	349	58	397	280	406	60
GRAND TOTAL		1041				1143			

A.9 COURSES OFFERED

Semester/ Summer Term	Pilani Campus	Goa Campus	Hyderabad Campus	Dubai Campus
II Semester 2018-2019	391	309	348	213
Summer Term 2018-2019	36	10	22	05
I Semester 2019-2020	426	322	374	226

A.10 DEGREES OFFERED AT DIFFERENT CAMPUSES**Pilani Campus**

A. Integrated First Degree Programmes	B. Higher Degree Programmes
<p>B.E.</p> <ul style="list-style-type: none"> Chemical Civil Computer Science Electrical & Electronics Engineering Electronics & Instrumentation Manufacturing Engineering Mechanical <p>B.Pharm.</p> <p>M.Sc.</p> <ul style="list-style-type: none"> Biological Sciences Chemistry Economics Mathematics Physics <p>M.Sc.</p> <ul style="list-style-type: none"> General Studies 	<p>M.E.</p> <ul style="list-style-type: none"> Biotechnology Chemical Civil with Specialization in Structural Engineering. Civil with Specialization in Transportation Engineering. Civil with Specialization in Infrastructure Engineering & Management Computer Science Communication Engineering Design Engineering Embedded Systems Manufacturing Systems Engineering Mechanical Microelectronics Software Systems <p>M.Pharm.</p> <p>M.Pharm. (with Specialization in Pharmaceutics)</p> <p>M.Pharm. (with Specialization in Pharmaceutical Chemistry)</p> <p>Master of Business Administration (M.B.A.)</p>
C. Ph.D.	

K K Birla Goa Campus

A. Integrated First Degree Programmes	B. Higher Degree Programmes
<p>B.E.</p> <ul style="list-style-type: none"> Chemical Computer Science Electrical & Electronics Engineering. Electronics & Communication Engg. Electronics & Instrumentation Engg. Mechanical <p>M.Sc.</p> <ul style="list-style-type: none"> Biological Sciences Chemistry Economics Mathematics Physics 	<p>M.E.</p> <ul style="list-style-type: none"> Biotechnology Chemical Engineering Computer Science Design Engineering Embedded Systems Mechanical Microelectronics Sanitation Science <p>M.Phil</p> <ul style="list-style-type: none"> Liberal Studies
C. Ph.D.	

Hyderabad Campus

A. Integrated First Degree Programmes	B. Higher Degree Programmes
<p>B.E.</p> <ul style="list-style-type: none"> Chemical Civil Computer Science Electrical and Electronics Electronics & Communication Electronics & Instrumentation Mechanical <p>B. Pharm.</p> <p>M.Sc.</p> <ul style="list-style-type: none"> Biological Sciences Chemistry Economics Mathematics Physics 	<p>M.E.</p> <ul style="list-style-type: none"> Biotechnology Chemical Engineering Civil(with Specialization in Structural Engineering) Civil (with Specialization in Transportation Engineering) Computer Science Communication Engineering Design Engineering Embedded System Mechanical Engineering Microelectronics Thermal <p>M.Pharm. (with Specialization in Pharmaceuticals)</p>
C. Ph.D.	

Dubai Campus

A. Integrated First Degree Programmes	B. Higher Degree Programmes
<p>B.E.</p> <ul style="list-style-type: none"> Biotechnology Chemical Civil Computer Science Electrical and Electronics Electronics and Communication Electronics and Instrumentation Mechanical 	<p>M.E.</p> <ul style="list-style-type: none"> Design Engineering Electrical PED Microelectronics Software Systems <p>Master of Business Administration (M.B.A.)</p>
C. Ph.D.	

A.11 PLACEMENT

	Pilani	Goa	Hyderabad	Dubai
Number of companies which conducted campus interviews	225	170	202	141
Number of offers made	1031	602	773	136

A.12 FACULTY DATA

As on January 1, 2020, the number of faculty members in each campus is given below:

Designation	Pilani		Goa	Hyderabad	Dubai	Total
	On Campus	Off Campus				
Tenured						
Senior Professors	2	-	2	2	1	7
Professors	35	-	22	21	17	95
Associate Professors	72	20	46	52	15	205
Assistant Professors	-	-	-	134	41	175
Assistant Professors-Gr-I	136	26	78	-	-	240
Non-Tenured						
Sr. Professor Emeritus	1	-	-	-	-	1
Professors on Contract	-	-	-	-	-	-
Visiting Professors	-	-	-	3	-	3
Visiting Assistant Professors	-	-	4	-	2	6
Assistant Professors on Contract	-	-	-	-	-	-
Assistant Professors – Gr.-II	9	18	8	-	-	35
Sr. Lecturers	-	-	-	-	-	-
Lecturers	-	-	-	7	3	10
Visiting Faculty	2	-	6	2	-	10
Adjunct Faculty	-	-	-	-	-	-
Instructors	-	-	-	-	-	-
Professor Emeritus	-	-	-	-	-	-
Visiting Associate Professor	-	-	-	-	-	-
Total	257	64	166	221	79	787

During the year 2019, 91 new faculty members (35 in Pilani, 17 in Goa, 26 in Hyderabad and 13 in Dubai) joined. 38 faculty members (16 in Pilani, 10 in Goa, 06 in Hyderabad and 06 in Dubai) left the Institute for reasons such as planned/forced separation, resignation, expiry of term and retirement. Details are given in 'Annexure A-6'.

A.13 PRACTICE SCHOOL STATISTICS

University-Industry Linkages

An important aspect of education at BITS is its institutionalized linkages with the world of work. The Institute attaches great importance to the University-Industry Linkages and gives mutually reinforcing thrust to it through various avenues like Practice School (PS), Work Integrated Learning Programmes (WILP), Technology Innovation Centre (TIC) and off-campus Ph.D.

Practice School Programme

All integrated first degree and higher degree programmes of the Institute provide for a Practice School option. The past statistics show that almost all the students admitted, opt for this programme. During the calendar year 2018 the Practice School programme was operated at 688 stations, with 29 stations hosting both Practice School-I (PS-I) and Practice School-II (PS-II), accommodating 5356 students and 179 faculty members. Categorization of PS stations is given below:

S.No.	Categories of Organizations	No. of Organization in	
		PS-II & PS for Higher Degree	PS-I
1.	Banks and other Financial Institutions	91 (56)	21 (03)
2.	Design, Development, Consultancy and Software Organization.	285 (280)	101 (83)
3.	National Research Laboratories and other Research centers	19 (18)	50 (37)
4.	Production, Manufacturing and Public Work Units	32 (35)	108 (75)
5.	Publishing Houses, News Agencies and Museums	02 (08)	07 (07)
Total		430 (397)	287 (205)

In 2019, an integrated practice school allotment for 5356 students was carried out across Pilani, Goa and Hyderabad campuses. The statistical details of the centre-wise distribution of students and faculty at PS-I stations are given in **Annexure A-7'** followed by the details of the Operational Statistics of PS-II and PS for higher degree in **Annexure A-8**. Growth statistics of PS-I, PS-II and PS for higher degree are given in **Annexure A-9**, while facilities available at various PS-II stations are given in **Annexure A-10**.

Following is the breakup of students who were registered in PS-I, PS-II & PS for Higher Degree:

PS-I	Summer Term 2017-2018	(2119)	2846
PS-II	II Semester 2017-2018	(787)	870
	I Semester 2018-2019	(1204)	1215
PS for Higher Degree			
	II Semester 2017-2018	(261)	423
	I Semester 2018-2019	(00)	02
Total		(4371)	5356

Note:-The figures shown in brackets relate to the year 2018.

Dubai Campus

During the calendar year 2019, the Practice School Programme was operated at 163 stations, with 08 stations hosting both Practice School –I (PS-I) and Practice School – II (PS-II), accommodating 594 students and 48 faculty members. Categorization of PS stations is given below:

S. No.	Category of Organizations	No. of Organizations	
		PS-II	PS-I
1.	Banks & other financial Institutions.	02 (00)	02 (01)
2.	Design, Development, Consultancy and Software Organization.	33 (23)	23 (33)
3	Trading	14 (11)	05 (07)
4	Production, Manufacturing and Maintenance	19 (35)	20 (48)
5	Other	03 (07)	13 (08)
Total		71 (76)	63 (97)

With the present annual PS intake of 705 students, the PS programme covers almost entire eligible student population of the Institute. It is worthy to note that the Practice School operation at the Dubai Campus has been conducted successfully since 2002. The statistical details of the distribution of students and faculty at PS-I stations are given in Annexure B4-15 followed by the details of the Statistics of PS-II are given in Annexure B4-16. The Growth statistics of PS-I, PS-II are given in Annexure B4-17, while facilities available at various PS-II stations are given in Annexure B4-18.

Following is the breakup of students who were registered in PS-I, PS-II. (Note: The data pertaining to the calendar year 2018 is given in parenthesis.)

PS-I	Summer Term 2019	278(310)
PS-II	II Semester 2018-2019	203(203)
PS-II	I Semester 2019-2020	113(192)
Total		594(705)

A.14 ALUMNI RELATIONS DIVISION

Alumni Relations Division

In 2017, BITS Pilani formed a new university-wide Alumni Relations Division led by Prof Arya Kumar, Dean, Alumni Relations. The Division aims to connect the BITS Pilani global alumni network and involve them in the Institute's development plans in association with BITSAA International. The Alumni Division has a strong student-alumni team led by the Dean with the cross-campus support provided by Associate Deans, Alumni Relations in each campus of BITS Pilani. The main purpose is to constantly connect with alumni and conceptualize, develop and organize various alumni-led initiatives related to campus development, student life and academic processes. The institute Alumni Relations Division and BITSAA would have seamless functioning across all processes.

Distinguished Alumnus Awards 2019

BITS Distinguished Alumni Awards (DAAs) 2019 were conferred upon BITSians through inviting nominations for more than a period of one and a half month. A committee constituted for selection and to recommend having renowned personalities from Industry and Academia was constituted. The awards are in recognition of the significant and outstanding contributions made by recipients in the area of entrepreneurship or academic teaching and/or research, corporate leadership or professional management of businesses. The eleven DAA awardees for the year 2019 are as under:

S.No.	Name and Affiliation	Category
1.	Prof. Bir Bhanu, Bourns Presidential Chair in Engineering, Distinguished Professor of Electrical and Computer Engineering at University of California, Riverside, USA	Academia and Research
2.	Prof. Ramanan Laxminarayan, Founder and Director of the Center for Disease Dynamics, Economics & Policy (CDDEP), Washington DC, USA	Academia and Research
3.	Prof. Arun Abraham Ross, Professor, Department of Computer Science and Engineering and Director, i-ProBe Lab, Michigan State University, USA	Academia and Research
4.	Prof. Umesh Garg, Professor, Experimental Nuclear Physics, University of Notre Dame, USA	Academia and Research
5.	Prof Arun Kumar Sharma, Deputy Vice-Chancellor and Vice President (Research and Innovation), Queensland University of Technology, Australia	Academia and Research
6.	Mr. Manu Sawhney, CEO, International Cricket Council (ICC) and Independent Director, Manchester United PIC, UK	Corporate Leadership
7.	Mr. Sanjay Jalona, Chief Executive Officer, L&T Infotech, India	Corporate Leadership
8.	Ms. Akila Krishnakumar, Chairperson, Social Venture Partners, Bangalore and former President, Global Solution Centers, SunGard	Corporate Leadership
9.	Mr. Amitabh Chaudhry, Managing Director and CEO, Axis Bank, India	Corporate Leadership
10.	Mr. Veerendra Raj Mehta, Trustee, Sir Dorabji Tata Trustee, World Trade Centre and Executive President, Bhagwan Mahaveer Viklang Sahayata Samiti	Entrepreneurship
11.	Dr. Bhagwati P. Agarwal, Founder and President, Sustainable Innovations Inc, USA	Entrepreneurship

Expansion of Alumni Relations Division

- To further strengthen the activities of the Division, one Database Manager and one Communication & Event Manager were hired, who are presently stationed in Pilani Campus.
- Constitution of Alumni Relations Cell in each of the campus comprising of 10-12 students to support the activities of the Alumni Relations Division.

Alumni : Major New Initiatives – Database, Branded Merchandise and Communication

- After numerous discussions, AlmaConnect was shortlisted and procured as an active software for managing alumni database. An agreement has been signed between Alma Connect Solutions Pvt. Limited and BITS Pilani to build/manage and update the database in an organized way to get regularly connected with our esteem alumni.
- The efforts to increase registration on AlmaConnect were taken through various strategies. To date, BITSian registration crosses over 27,500 out of the 60,000 alumni data updated on AlmaConnect.
- Every month, a number of BITSian's success stories are being shared on AlmaConnect and all social media platform.
- AlmaConnect has now been extensively used as an interactive platform for the BITSians for sharing job opportunities, seeking carrier opinions, posting alumni related news *etc.*

- Data base is helping in segmented approach to connect with Alumni – be geographical, city based, profession and batches etc.
- Permanent e-mail alumni linked mail ID's are given to all passing out students and Alumni from past batches who approach the institute.
- The next four issues of the newsletter of Alumni Relations Division-BITS ECHO, covering the Success Stories of Alumni across the globe and important developments at the institute and alumni front were released. This is one initiative that aims to bring BITS campuses closer to alumni. The alumni will get a feel of what's happening in Pilani, Dubai, Goa and Hyderabad campuses. Particularly news that are relevant to them. The purpose is to share, engage, invite and thank alumni. It would value the connect with BITS Pilani that has shaped alumni to face greater challenges of life and to bring in a name and fame to alma mater.

Presentation of Distinguished Alumnus Awards

- **In Pilani Campus**, Prof. Ramanan Laxminarayan and Prof. Umesh Garg shared their experiences and wonderful memories with the audience, and also promised that they will continue their active participation in the development and upliftment of their mother campus.
- **In Hyderabad Campus**, Ms. Akila Krishnakumar share her life experiences with the students, recollecting her days in Pilani, and then the journey and challenges she had faced along the path.
- **In Goa campus**, Prof. Arun Kumar Sharma interacted with the students and talked about Artificial Intelligence (AI) and its scope. He stressed on the fact that even though AI with the help of enough technology will be able to accomplish many tasks for which a human workforce is still currently hired.
- **In Dubai campus**, Mr. Manu Sawhney and Mr. V. R. Mehta interacted with the students.

Pilani Campus

Alumni Related On-Campus Events

- On the occasion of 1st BITS Defence Officers' alumni reunion, the Indian Air Force (IAF) on April 06, 2019, demonstrated its Induction Publicity Exhibition Vehicle (IPEV) at Pilani campus. As a part of the exhibition, the IAF brought a modified bus to the campus with a flight simulator of IAF's cargo and fighter aircraft. In addition to the simulators, scale models of crewless aerial vehicles (UAV), Mirage 2000, MiG 29, Rafale and a gravity suit were also on display. Representing the IAF Wing Commander AMS Joseph and his staff, who briefed the students about the operations of Indian Air Force, including air defense and aggressive operations. They also explained the functioning of various fighter planes, transport aircraft, and helicopters to a group of curious students. The students were also informed about various qualifying examinations, eligibility criteria and other details required for entry into the Air Force, including UPSC (NDA and CDSE), AFCAT, MET, NCC and SEC".
- Four young alumni working in the technology companies led a panel discussion on "Life in a Technology Firm" in BITS Pilani, Pilani campus on March 26, 2019. Goutham Harsha (Apple), Vishwesh Srimali (Big Vision LLC), Varun Kumar Kadambala (Quantiphi), and Hardik Malhotra (JP Morgan) formed the panel.
- On the occasion of BITSian Day, a mini-marathon was organized at Pilani campus on August 02, 2019. A large number of students and faculty members participated in the 3-kilometre race, which started from the Clock Tower of Pilani Campus and finished at the Med-C Ground. The run was organized to spread awareness on maintaining a healthy lifestyle. The event was jointly organized by FitBITS and Alumni Relations Cell (ARC). 1995 Batch alumnus and Computer Engineer from Chicago, USA, Mr Sujit Arungundram also graced this event with his presence. The mini-marathon was conducted in two categories, for male and female. The first three winners in both categories were presented cash prizes for their success in the marathon. The marathon truly exemplified the true spirit of 'Being a BITSian.
- An Instagram photo competition was also organized on the occasion of BITSian Day in Pilani Campus. A number of entries were received. The winner was awarded with the online shopping voucher. Students Posted their favorite place picture of BITS Pilani, Pilani Campus with delightful captions. Along with the picture they have also used #BITSIANDay Hashtag and Followed @bitspilaniofficial account. around 150 entries were received for the competition.
- Four young BITS alumni working in the Civil Services led the panel discussion on "Life in Civil Services, the third edition of 'Life in a Dash'- a series of an interactive panel discussion was organized on September 09, 2019. S. Nagarajan (IAS officer with the government of Tamil Nadu, 96 BITS graduate), Harsha Vardhan Mandava (Superintendent of Police in Arunachal Pradesh, 2006 BITS graduate), S. Sundar Rajan (Joint Commissioner of Income Tax in Bangalore, 98 BITS graduate), Praveen Nair (Managing Director at Tamil Nadu Corporation for Development of Women, 2002 BITS graduate) formed the panel for the discussion. The event saw more than 250 student's participation. The IAS/IPS officers gave tips to aspirants regarding cracking the UPSC examination and answered many queries put forth by them for about two hours. The event saw the panel answering questions of students, and they appeared benefited with the experience shared by

the august panel. This was an open mentoring and peer-learning session that provided deeper insights into various challenges for UPSC aspirants. Most participants stated that their overall experience was enlightening.

- The first Student Alumni Meet (SAM) of the academic year was organized on August 18, 2019, with the batch of 1999. All the panelists were graduates from the Department of Mechanical Engineering and were very enthusiastic about the prospect of meeting students. From attendance percentage to pursuing the “dream job” in the corporate sector, the panel answered varied questions. SAM is an informal interactive series of discussions involving current students and the visiting alumni batch. Conducted in the NAB Auditorium, this event saw a surge of first year students interacting with the batch of 1999. All the panelists were graduates from Department of Mechanical Engineering, and were very enthusiastic about the prospect of meeting students. The session began with a short introduction of the panelists. This was followed by questions on OASIS, extracurricular activities, and so on. The discussion was filled with ease, humor and anecdotes. Themes, such as the dexterity of engineers and life at BITS were also discussed.
- Mr. Sanjay Thirumalai, 1991 batch alumni, delivered a talk on "Future-proofing yourself in an era of smart machines" on 18th of January 2018, in BITS Pilani, Pilani Campus. He is currently the Managing Director at Grant Thornton LLP, and is the Former Director of KPMG. He also mentors' start-ups under NASSCOM's IOK start-ups program. A large number of students attended the lecture and interacted with him during QnA session.
- An open interactive chat session by Mr. Hari Menon (co-founder and CEO of BigBasket) and Mr. Anil Agarwal (a senior ranking IPS Officer and head of Startup India Program) was organized on November 14, 2019, in BITS Pilani, Pilani campus. Mr. Hari Menon and Mr. Anil Agarwal shared their experiences related to entrepreneurship and interacted with students about becoming a successful entrepreneur. The event saw more than 250 students' participation. The entrepreneurship experts gave tips to students and answered many queries put forth by them.
- The second Student Alumni Meet (SAM) was organized on November 15, 2019. The event was graced by 12 alumni of 1979-83 Batch. Vijay Kedia, Narender Singh, Ravu Sareen, Durgesh Agarwal, Abhay Mehta and many more have shared their life experiences with students. The tycoons of the corporate world explained the importance of management and networking in establishing and maintaining career growth and how innovating is the way to make a difference. They emphasized on the necessity of soft skills in corporate or startup life. Commonly known as “people” or interpersonal skills, soft skills like negotiating, building morale, and maintaining relationships are key to a leader's success. They said that in the age of automation, these skills are becoming even more important. Although some tasks at work will be automated, soft skills like emotional intelligence and the ability to teach, won't be.
- The third Student Alumni Meet (SAM) was organized on November 23, 2019. This event saw a surge of students interacting with the batch of 1990. This activity witnessed very enthusiastic participation from both the alumni and students alike. Alumni also shared their stories from college days and the joys of life on the BITS Pilani campus. The discussion was filled with ease, humor and anecdotes.
- Director's Tea party for the Graduating Class of 2019 was organized on April 26, 2019. The program commenced with the address by Professor Souvik Bhattacharyya- "Victory without virtue is not worth chasing. Reputation for good character and judgement will be the single most important factor that determines whether you progress to positions of greater responsibility. While you all strive to do well, you must also do some good. This purpose will thrill you throughout your life." Prof A.K. Sarkar advised students to experiment and be learners throughout life. Prof Arya Kumar encouraged students to reach for their goals after graduation. Prof Srikanta Routroy, Prof Navin Singh, Prof Surekha Bhanot, also shared their thoughts to future leaders in different walks of life. A number of students shared their learning experiences, aspiration and plans.
- The second graduating party was organized on November 28, 2019 to bid farewell to graduating students of class 2020. Around 500 students of 2015-19 batch of First degree and 2017-2019 batch of higher degree were present in the function. The program began with the comments from Prof A.K. Sarkar. He advised students to experiment and be learners throughout life. Prof Arya Kumar emphasized the importance of keeping in touch through the alumni network. He emphasized upon BITS culture of sharing and caring. He wished the students the very best in life and highlighted the role that they should play in job creation. Students also shared their experiences, aspiration and plans at the event.

Alumni ReConnect

- Around 150+ alumni arrived Pilani Campus to celebrate the Ruby Graduation meet of 1974-79 batch during February 23-25, 2019. The batch reunion, spread over 3 days, was filled with smiles, laughter, warm embraces and friendly banter. More than 100 BITSians, along with their families, attended the event at Pilani. Reliving their old days, the alumni explored the campus, visited their hostel rooms, class-rooms, shops, etc. The event involved certain programs providing ample opportunities to socialize and share their experiences.
- 25 Serving and retired alumni from the defence services visited BITS Pilani for the 1st BITS Defence Officers' reunion during April 5-7, 2019. The two-day event saw alumni across batches renewing friendships and

reliving their memories on the campus, alongside conversations, interactions, and entertainment. The alumni also had some informative and engaging discussions with the students about their experiences, joys and challenges of defence as a career. The alumni inspired and guided the students on overcoming career challenges ahead. Back on the campus after a long gap, the alumni seemed overjoyed with emotions.

- The batch of 1964-69 batch of BITS Pilani celebrated the Golden Jubilee meet of their graduation during November 1-3, 2019 at the Pilani Campus. Over 250 members including 140 alumni of the batch, along with their children and grandchildren attended the 3-day event. The BITS 69 alumni rejoiced with gala musical evening conducted at BITS Auditorium and Alsisar Palace near Pilani. Sidharth Kaul stole the show with his mellifluous singing and crooning of famous Bollywood hits. Another highlight of the show was the recreation of the fierce student election between Vijay Reddy and Jatin Gill. The batch took lot of interest in the growth of their Alma Mater and future strategic thrust areas to give it big push in the coming years. In a very positive and inspiring gesture, the batch has graciously committed funding support to their alma mater. Some trivia for you BITSians – The BITS 69 batch is already registered in the Limca Book of Records for the highest number of alumni meet of a single batch. In their own words, it was 11th such occasion, after having celebrated a number of jubilee celebrations in India and overseas.
- The batch of 1979-83 of BITS Pilani celebrated its Coral Jubilee reunion of their graduation during November 14-17, 2019. The campus reverberated with cheers, laughter and festive activities when more than 80 batch mates gathered with their family members to celebrate their reunion and recall their fond memories. Reliving their old days, alumni visited their respective departments, Sharda Peeth Saraswati Temple, Birla Science Museum, Student Activity Centre (SAC), various hostels, laboratories, Library. They also interacted with students and shared their life experiences. The reunion event brought members back to their Alma mater after 35 years, and yet, for them, it felt like it was only yesterday that they walked the hallowed corridors.
- The alumni from the class of 1990-94/95 of BITS Pilani celebrated their Silver Jubilee reunion during November 22-24, 2019 at the Pilani Campus. This 3-days blast saw the participation from over 130 enthusiastic alumni from all around the world to meet their fellow mates and relive their Institute days one more time. The event was filled with smiles, laughter, warm embraces and friendly banter.
- The alumni from 1969-73 Pharmacy batch celebrated their Golden Jubilee reunion during December 06-08, 2019 at the Pilani Campus. The reunion was an opportunity to celebrate, reconnect with fellow batch mates and alma mater. Alumni visited their hostel rooms, where they experienced nostalgia as they cherished their old times. They were also given a tour of the new academic blocks, the library where they marveled at developments and new infrastructure. The next day was followed by multiple bonding and cultural activities, including professional music performance, lunch in mess etc. An interactive session with the pharmacy faculty members and students was also conducted. The event was a rendezvous down the memory lane and beginning of renewed happy times with their alma mater.
- The batch of 1994 of BITS Pilani celebrated their grand Silver Jubilee reunion meet during December 20-22, 2019 at Pilani Campus. 164 Alumni from different parts of the globe came together to relive their college days, including 46 who travelled from abroad. Packed with laughter, nostalgia, and a whole lot of catching up, the alumni went on a memorable journey to twenty-five years ago. To give a glimpse of the developments in the campus, the alumni were taken on a guided campus tour. Many of them visited their hostel rooms, classrooms, workshops, and many other places. They also played games like cricket and badminton remembering their old fun-filled days. A flash mob in Rotunda was organized by them to show the BITSian Spirit, which was followed by a musical night in the main auditorium on December 21, 2019. New memories were made and the old ones relived where it had all started. It was a truly nostalgic day that strengthened the bonds of friendship between the batch mates, and the sense of belonging to their alma mater.
- BITSAA Chennai Chapter had their annual meet on January 05, 2019, at Hotel Ambassador Pallava, Egmore, Chennai. Prof. Souvik Bhattacharyya and Prof. Arya Kumar attended and shared the developments occurred across the Institute's four campuses, and the strategic thrust that has been given to alumni connect for the growth of the institute in the coming years. He also presented the recent accomplishments of the institute and outlined how the alumni can help to keep them up. B Raj (1970) presented the Chief Guest with his book "Spirituality - A Road Map". Later, Naveen captured the audience's attention with his brief over-view on BITS spark and startups. The event was further elevated with the artistic touch of two people: Viswa (2000) who showcased his serene paintings and Srinath Nadathur (1999) whose ROFL@work comics reminded one of the Dilbert comics, and furthermore Vignesh's (2000) postcrossing collectibles. The official photographer Naveen and the organizing team - Raghu, Naren, Sriram, Jaya, Hari, Rathish, Kireeti, Venkatesh, Jayalakshmi, Aarthi, Abhinaya were appreciated for their efforts that made the event a roaring success. Finally, the event ended gracefully with a sumptuous lunch, not to forget the 'latcha & networking' sessions, which ensued.
- The BITSAA Hyderabad Chapter organized their annual alumni event on March 02, 2019 at Paryatak Bhavan, Begumpet. This year, the event was attended by Prof. Souvik Bhattacharyya, Prof. G. Sundar and Prof. Arya

Kumar, Dean, Alumni Relations. They also shared their thoughts about the institute growth plans and distinct thrust and initiatives about engagement with alumni. Students of SARC also participated in the event.

- Prof. Souvik Bhattacharyya and Prof. Arya Kumar visited Kingdom of Dreams, Gurugram, to attend BITSian day celebration being organized by BITSAA Delhi Chapter on August 02, 2019. Prof Souvik Bhattacharyya and Prof Arya Kumar shared thoughts about developments on institute front and upcoming challenges. Prof Bhattacharyya highlighted various initiatives including AlmaConnect - an interactive platform, Naming Right Policy that provides an opportunity to contribute in different initiatives of the institute.
- Prof. Rajeev Sakhuja and Mr. Sachin Arya attended the BITSAA Jaipur Chapter Diwali Milan on November 06, 2019 and interacted with the alumni.
- Mr. Sachin Arya attended the BITSAA Pune Chapter meet on January 20, 2019.

Off-shore Alumni Outreach Initiative

- The first-ever "Meet & Greet Alumni" event was organized on August 24, 2019, in Singapore. A three-member team of BITS Pilani leadership visited Singapore. The event included some of the best and the brightest of BITS Pilani alumni. Over 50 alumni representing various batches and campuses have attended the event. Included Virender Aggarwal, CEO of Ramco Systems, Narinder Singh, Founder, Utopia Inc., Shailendra Gupta, MD, Ingram Micro amongst others. Prof. Souvik Bhattacharyya spoke about the goals and initiatives of the institution. He said that the University will provide an increasing variety of opportunities for alumni to come together wherever they live or work, with more flexibility based on the professional involvement and interests of alumni. Alumni have also showed interest in coloration and supporting BITS on initiatives involving entrepreneurship and innovation.
- Prof. Arya Kumar and Mr. Sachin Arya attended BITSync technology – networking event organized by BITSAA SVC in San Francisco on September 21, 2019. The event focused on discussion over the future of technology, entrepreneurship, TED-style talks, panel discussions etc. Key alumni participated in the conference are as follows: Sabeer Bhatia, Vivek Paul, Revathi Advaiti, Swati Bhatia, Jayan Ramankutty, Prem Jain, Raju Reddy, Atul Bhatnagar and Vipin Jain. Prof. Arya Kumar presented at the conference about BITS Pilani, its future direction, and the ways in which alumni can participate. The BITSians were quite appreciative of the presentation and met Prof. Arya Kumar and Sachin Arya on the side-lines of the conference. Also, Jayan Ramankutty hosted a dinner for select BITSians at his home to discuss how alumni can support BITS in various ways.
- An international alumni gathering was addressed by Prof. Souvik Bhattacharyya in Chicago at Woodridge, Illinois. Around 25 alumni attended this live interactive session. It involved a panel discussion conducted by the alums which was then followed by a Q&A session. Vice chancellor elaborated the goal and achievements of BITS Pilani. He also spoke about the involvement of alumni in BITS Pilani success journey. He reiterated that the students, faculty and the alumni spell success for any Institute and that BITS is proud of the successes achieved by its alumni spread globally. Alumni have also promised that they will continue their active participation in the development and upliftment of their alma mater.
- Prof. Souvik Bhattacharyya and Prof. Arya Kumar visited BITSAA Sydney and Melbourne Chapters during October 10-18, 2019 and interacted with many alumni. Vice-Chancellor, Prof. Souvik Bhattacharyya presented the growth of Alumni network and BITS over the years. He emphasized on encouraging the collaboration between alumni and BITS Pilani, to achieve greater heights. He highlighted the new initiative, AlmaConnect which is a virtual platform, made available for alumni to connect and network.
- An alumni evening get together was organized by Mrs. and Mr. Anurag Sethi in Munich on June 07, 2019, wherein eight alumni representing all the three Indian campuses participated. Professor Arya Kumar, Dean, Alumni Relations shared thoughts on steps being taken by the institute to strengthen alumni connect and engagement. He also highlighted about various developments on institute front over years and future thrust areas wherein institute is looking forward for greater involvement of Alumni. This was the first such meeting of BITSians in Munich, and it was decided to strengthen BITSian community in Munich and other places in Germany.

Alumni Donations

- Alumni couple, Prashanth and Anuradha Palakurthi have transferred \$250 K as the first instalment (out of at least US 1 million dollars pledge) towards setting up an Anuradha and Prashanth Palakurthi Centre for Artificial Intelligence Research (APPCAIR) with an objective to promote research in the area of Artificial Intelligence.
- 1993 Batch alumni which celebrated their meet in Pilani Campus during December 2018 has crossed a pledge amount of \$425000 and has already transferred an amount of Rs. 2.29 Crores to their beloved Alma Mater. This includes the donation of Rs.1.45 Crores by Mr. M. Shreenivasa Reddy for tinkering lab.

- 1989-93 Batch alumni which celebrated their Silver Jubilee Reunion in November 2018 have crossed a pledge amount of \$97000 and transferred amount of Rs. 26.40 Lakhs towards promoting active alumni engagement and contribute back to their alma mater.
- An amount of US \$5000 has been donated by Mrs. Manjula & Mr. Prem Talreja towards the Alumni Convention Center project.
- On the occasion of BITSIAN Day, BITSAA Delhi Chapter donated an amount of Rs 11 Lakhs towards the Alumni Convention Centre project.
- An amount of Rs 5.08 Lakhs has been received from CMS computers Limited towards the two scholarships (two semesters) created for the first-year students in honor of Late Shri R. D. Grover, a 1968 batch alumnus from BITS Pilani, Pilani Campus.
- Graduation class campaign was launched for 2019 and 2020 graduates in Pilani Campus and there has been a reasonable response.
- Century Textiles has pledged Rs 1 Crore towards setting up Shri BK Birla Incubation and Innovation Centre at Pilani Campus under CSR Funding.
- The 1964-69—the pioneer batch of BITS Pilani contributed/pledged Rs 117 Lakhs towards a scholarship fund to the needy students under MCN category.
- 1994-98/99 Batch alumni celebrated their 25th year of joining BITS Reunion in December 2019 has set a target of \$201.99 K towards contributing back to their Alma Mater.
- 1990-94/95 Batch alumni celebrated their Silver Jubilee Reunion in November 2019 has set a target of \$250 K towards contributing back to their Alma Mater.
- The Batch 1979-83/84 has decided to contribute for the Convention Centre in Pilani Campus. A core team of the batch is actively working to raise funds.
- The Pharmacy batch 1969-73 has decided to contribute Rs 10 Lakhs for the Animal Housing Project of the Pharmacy Department.
- In a major breakthrough, an amount of Rs 21 Lakhs has been received from Mitutoyo South Asia under CSR Fund towards Research Equipment in Industry 4.0 Lab and fellowship for Ph.D. Scholar.
- Axis Bank has committed Rs 25 Lakhs towards Social Project (3D Printed Prosthetic Legs) under CSR Funding.
- Dr. Satish Goel, an alumnus of BITS Pilani has created an endowment (with a corpus of INR 21 lakhs) for funding fellowship to a research scholar pursuing Ph. D programme at BITS Pilani, Pilani Campus. This endowment has been created in recognition and honour of Dr. Satish Goel's parents, Shri Omprakash Goel & Smt. Kamla Goel and grandfather, Shri Ramkishan Goel. The intent of this endowment is to provide 50% fellowship to a PhD candidate pursuing research work in the area of Chemical Engineering or Chemistry or Computer Science. The fellowship has been awarded awarded to a research Scholar from Chemical Engineering Department from August 2019 onwards.
- An amount of Rs 13.84 Lakhs was dispersed on the name of BITS Alumni Fund for Children's Education (BAFCE), a charitable fund instituted by the 1987 batch on behalf of all alumni coinciding with their Silver Jubilee Reunion have been dispersed to college studying children of eligible employees of the BITS eco-system in Pilani Campus during 2019.
- Vasu Sharma, Sidhartha Namburi, along with other BITSians and alumni set up a crowdfunding campaign in order to raise the funds for the treatment of the wife of beloved "Chowki bhaiya", Shri. Vikram Singh, who got diagnosed with advanced stages of blood cancer in January 2019. In less than a week, Rs 30 lakhs were obtained through donations made by alumni from all over the world, showcasing the incredible strength and unity we possess. Thanks to the efforts from everyone, the bone marrow transplant was arranged for.
- An amount of Rs 54K has been donated by Prof. B. R. Natarajan on behalf of 1974-79 batch for procuring a drum for the Music Club. He further donated an amount of 20K for supporting the registration and travel expenses for BITSian startup AR based Elixir Systems for attending a product startup conclave at NPC Bangalore.
- Scholarships amounting for Rs 38.09 Lakhs were dispersed to the needy first degree students across the three Indian campuses either through existing endowments or fresh donations by alumni. This also includes a variety of awards also.

Alumni Related Initiatives

- A six-membered core team (3 from BITS & 3 from BITSAA International) was constituted to coordinate communication, database and strategy framework for Alumni funding.

- Mails and video conference meetings have been initiated with Australia, USA & Singapore chapters for collaboration and holding an Alumni Meet wherein BITS team will also participate.
- Designing on merchandising items has been initiated and a MoU has been signed with The Souled Store Pvt. Ltd. for the online sale of BITS branded merchandise.
- A MoU has been recently signed between BITS Pilani and Mr. Prashanth Palakurthi and Ms. Anuradha Palakurthi for setting up a centre with an objective of promoting research in the area of Artificial Intelligence. This will be funded by the generous contributions of US 1 million dollars by the donors.
- Yearbook compilation for the 2019 and 2020 graduates was done and provided to the graduating students in Pilani, Goa and Hyderabad Campus.
- Prof S S Ranganathan (SSR) Memorial Teaching Excellence Award - 2019, Instituted by BITS Alumni 1978-83 Batch has been conferred to Prof. V. K. Chaubey, Professor, Electrical & Electronics Engineering Department, in recognition of his excellence and consistent high standard of teaching at BITS Pilani, Pilani Campus.
- Professor L K Maheshwari Distinguished Alumnus Award in EEE & Instrumentation- Instituted by Professor L K Maheshwari Foundation has been conferred to. Dr. Rajiv Gupta (Director, Advanced X-ray Imaging Sciences (AXIS) Center Neuro and Emergency Radiology, Massachusetts General Hospital) and Dr. Ramesh Harjani (E F Johnson Professor, Dept. of Electrical & Computer Engineering, University of Minnesota).
- Enormous efforts have been made towards fetching CSR funding, including cold emails to CSR Heads (400 emails sent. Response rate 5%)
- Feedback is taken through various alumni meets that are held on campus or at different chapters across the country. Depending upon the Feedback received Alumni Relations engagements are chalked out to closely associate Alumni with the institute development plans.

K.K Birla Goa Campus

Alumni Related On-Campus Events

- The first-ever Alumni Research Talks (ART) were conducted on January 12, 2019, in BITS Pilani, K. K. Birla Goa Campus, comprising of interactive sessions by five eminent alumni of BITS Pilani, who shared their stories of success, and delved a bit into their research interests, and how they could affect the future as we know it. The event was graced by Prof G. Ra-ghurama, Director, Ms. Sai Kothai, d/o the late Prof S.S. Ranganathan and Mr. N. S. Par-thasarathy, Executive Vice Chairman and COO of Mindtree Ltd. A series of talks were delivered by the eminent alumni of BITS Pilani, namely Prof. Umesh Garg (Nuclear Physicist, University of Notre -Dame, USA), Dr. Surendra Pal (Program Director, ISRO, Bangalore), Prof. Sharmila C. Chatterjee (Professor of Marketing, MIT, USA), Mr. Sanjay Padode (Secretary, Centre of Devel- opmental Education, IFIM Institutions, Ban- galore) and Prof. Govindan Rangarajan (Pro- fessor of Mathematics, IISc, Bangalore).
- Metanoia, the annual alumni summit of BITS Pilani, K. K. Birla Goa Campus was organized on August 17, 2019, where seven eminent alumni namely, Divya Navle, Jyoti Kalyan Sura, Prof Ajit Tyagi, Ms. Nikita Tanwani, Mrs Rashmi Datt and Kunal Bhatiya shared their views. The event started-off with the Director's address to the audience and the speakers. The first speaker to share her experience was Divya Nawale. Being an environmentalist, she spoke extensively about her journey to all the 7 continents, especially the poles. Mr. Jyoti Kalyan Sura talked about his initial plan of pursuing the Civil Services, and how fate had some completely different in store for him. He further went on to say that he only learnt about visual effects (VFX) once he got into college and studied everything on his own as, at that time, coaching for VFX design commanded a fairly handsome tuition fee. He then gave everyone a peek into his future plans and projects and thus, ended his talk on a high note. We then had Air Vice Marshal (retired), Professor Ajit Tyagi on stage to share his experiences. Professor Tyagi too laid heavy emphasis on the importance of environmental conservation. The winner of Miss Andhra Pradesh 2019 and a finalist at Miss India, Nikita spoke to the audience about her journey from an engineer to an extremely successful model. She talked about her passion for modelling, and how she was a part of the fashion club even in college. She also brought to light the hurdles she faced in her journey, one of them being her parents' reluctance to her pursuing a career in modelling. The next speaker was Rashmi Datt, who spoke at length about emotions. She advised everyone to call out for help instead of keeping the emotions bottled up within themselves. The talk truly brought forth some much needed clarity on the psyche of college students today. The final talk was presented by Mr. Kunal Bhatia. He spoke about his the experience he garnered over the years in a plethora of fields including, but not limited to politics. He shared his journey from when he was the head organizer of the national music competition, Sea Rock as a part of college, to being a part of the prime ministerial campaign of 2014 and 2019.
- The first-ever BITS2Startup event was organized in BITS Pilani, K. K. Birla Goa Campus on the January 22, 2019, wherein three alumni, namely Mr. Dheeraj Bhaskar, Co-founder and CEO of The Other Side of the Wall, Mr. Bala Kamallakharan, founder of StartupIceland and Mr. Piyush Kumar, founder and CTO of IgnisNova

Robotics, alumni namely of our alumni, who have ventured into the world of start-ups and are excelling with their great ideas, shared their experiences on how to lay the foundation of a successful startup and tackle the difficulties on the way.

- The BIT2CivilServices talk was organized in BITS Pilani, K. K. Birla Goa Campus on February 05, 2019, to provide an opportunity to students to learn the idiosyncrasies of cracking the UPSC from their alumni, Mr Ashutosh Garg, IAS, Special Secretary, CEO, Himurja, UP, Mr. Anmol Sher Singh Bedi, IFS, Language Trainee at the Indian Embassy in Beijing and Mr. Kshitij Singhal, IAS, CEO, Zila Panchayat, Betul district, MP.
- The third edition of Cat champs was hosted in BITS Pilani, K. K. Birla Goa Campus on February 12, 2019. The panel consisted of three outstanding BITSians - Kshitij Gangal, Anshuman Paranjape and Divij Sinha who have cracked the CAT exam with remarkable percentile.
- A panel discussion comprising of Mr. Apurv Chaturvedi, an ex-investment banking analyst at JP Morgan, currently an MBA candidate at HEC Paris, Mr Saurabh Sachdeva, a London Business School graduate Saurabh, currently a Manager at Kearney and Mr Sandeep Murishetty, an IIM Ahmedabad graduate, currently working as a Strategy Consultant at Deloitte India was conducted in BITS Pilani, K. K. Birla Goa Campus to shed light on the pre-requisites of a MBA candidate and on how to build one's profile.
- Mr. Anupam Maurya, a BITS Pilani alumnus, who made it to the top 20 in 'wedding photographers in India and mastered the art of telling stories through their images' category of Sony Better Photography of the year 2018-2019 shared his inspiring story from an engineering graduate to a wedding photographer on March 18, 2019, in BITS Pilani, K. K. Birla Goa Campus. He has been featured in Professionals of LinkedIn. Founder of KnotsbyAMP, This talk like a breath of fresh air and convinced audiences that may be following our pas-sion and dreams isn't a bad idea after all.
- Mr. Anmol Panda, an alumnus of BITS Pilani, K. K. Birla Goa Campus delivered an interesting talk on Microsoft Research Program on January 18, 2019. This talk was a hit amongst all the Machine Learning and Data Science enthusiasts on campus. His research area involved the identification of false information on social media platforms using Machine Learning and Data Science techniques. He informed the students about the skills and approach required in order to apply for this experience and also how this program can have a great impact on one's career or research endeavours.
- BITSian day was celebrated on August 02, 2019 with a marathon which encouraged the student community to participate in the marathon to show their support for this institution. The winners of the run were awarded with prizes for their achievement.
- Prof. Suresh Ramaswamy Memorial Award was given to the project titled, 'Drone Control by Brainwave Mapping' done by Pranay Mathur and Kshitij Chhabra. This project was selected out of the 11 projects that had competed.
- Director's Tea Party for the batch of Graduating class 2019 was held on April 20, 2019, on K K Birla Goa Campus. It was an event filled with emotions, excitement, and euphoria as the outgoing batch students gather together for one last time. The gathering was addressed by Dr. Veeky Baths, Associate Dean, Alumni Relations after which the students of the outgoing batch shared their feelings and experience about their journey at BITS Pilani K K Birla Goa Campus. The Director, BITS Pilani K K Birla Goa Campus, Professor G. Raghurama addressed the outgoing batch students and gave mantra of success in life. He distributed the certificates of appreciation to the previous coordinating committee of Alumni Relations. The event followed by Dinner and photo session.
- Also, on November 15, 2019, the same event was held for Graduating Class 2020. It was an event filled with emotions, excitement, and euphoria as the outgoing batch students gather together for one last time. Prof. Veeky Baths, Associate Dean of Alumni Relations Cell welcomed the students while Prof. Dipankar Pal, Associate Professor, Department of EEE addressed the students with inspirational quotes while Prof. Raghurama G concluded the event by acknowledging the students as the future stakeholders in advancement and development of the institute and also to be involved in contributing to the same. The event followed by Dinner and photo session.

Offshore Alumni Outreach Initiative

- Prof. Veeky Baths visited Europe, and met with alumni located in different countries for better alumni connect and fundraisings. He discussed about the alumni engagement and mentorship programme. He met Mr. Gurdeep Singh from Heidelberg, Germany. Gurdeep has promised to pool funding from his alumni friends for starting a Chair Professorship in Goa Campus. Mr. Govind Upadhyay from Zurich, Switzerland has promised funding for initiating a scholarship to the students and also for the infrastructure developments of the institute. Mr. Prahars Rai from Gent, Belgium has also promised to connect with current students for alumni engagement. Mr. Hemaditya Malla from the Netherlands has also pleased for the same.

Hyderabad Campus

Alumni Related On-Campus Events

- An interactive session with Parakh M. Gupta (Hyderabad, '14) was organized at the campus on October 15, 2019. The topic of the event was the "Importance of Thesis Abroad". Parakh opined that thesis can often fetch great job opportunities since it helps attest to a person's perseverance, rigorous thinking, skills, and the capability to solve problems.
- The Student Alumni Relation Cell, along with Photog, the photography club, organized a workshop by Pratik Mehta (Hyderabad, '12), currently part of an award-winning photography team, Knots by Amp. The workshop encompassed tips and tricks on ways to make the best out of a phone's camera, and also conducted a photo walk on the campus.
- BITSians day was celebrated on August 02, 2019. BITS Embryo along with SARC had arranged talks by two of our alumni Mr. Ajay Chaturvedi and Mr. Avesh Singh, to take us back to their days at BITS, the golden days of college life where they had their share of happiness, sadness, fun and experiences. They spoke about how invaluable the BITSian tag has been, and how it has helped in their journey in the real world. Mr. Ajay Chaturvedi (a 1995 Pilani graduate) is founder of HarVa - an Indian Business process outsourcing Organization, an author and was honored by WEF as a Young Global Leader, and has many other accolades on his name shared his experiences as a BITSian. Mr. Avesh Singh (a 2017 Pilani graduate), currently a core team member of I-PAC and was formerly working in various roles at InMobi, spoke about his days in BITS Pilani and his journey to the current position.
- BITS Pilani alumni, Mr. Sharath Choudhary (1981 batch) and Mrs. Anu Khendry (1983 batch), who are now members of the rotary club came to campus to educate the students regarding their club on August, 2019. The talk saw an attendance of around 30- 40 extremely enthusiastic students. Mr. Choudhary started off by reminiscing their BITS days before jumping into what exactly Rotaract is, and what type of programs they have and how they act as a platform to improve leadership skills and to meet a variety of people from all over the world. The club's main aim revolves around coming up with innovative solutions to some of the most pressing problems in the world. The idea of starting a chapter on campus was pitched and students responded positively, with a generous number showing interest. The talk concluded with a rather informal question-answer session between the students and Mr. Choudhary, Mrs., Khendry and Prof. Prasuna. Rotary International is an international service organization whose stated purpose is to bring together business and professional leaders in order to provide humanitarian service and to advance goodwill and peace around the world.
- BITS Pilani, Hyderabad Campus organized the first alumni meet of the first two batches of Hyderabad campus (2008 & 2009) on January 12, 2019 in BITS Pilani, Hyderabad Campus. The event started with Prof. G. Sundar, Director of the campus, welcoming and addressing the alumni followed by Prof. Arya Kumar, Dean of Alumni Relations, BITS Pilani, sharing details about developments in the institute and laying distinct emphasis on alumni connect for the growth of the institute in the coming years. Some of the Professors also addressed the alumni and were more than happy to see their students once again. Few of the alumni took the opportunity to share their happiness on being back to the place where memories of a lifetime were made and expressed how grateful they are to be a part of BITS. After the events in the auditorium, the alumni planted saplings on the path towards the new academic blocks. Thereafter, all of them had lunch in the library lawns and the students interacted with them and exchanged stories about how life on campus has changed. Later in the evening, an interactive session was organized with Mr. Harsh Bhargava, an alumnus from Pilani campus, who had served in the Navy. The students on campus got to know about the success stories of the alumni and learnt from their experiences of making professional choices. The alumni were more than happy to share their feelings about the campus and how it played a role in framing their present life. They were grateful for the reunion and were happy to see how the campus has improved.
- Director's Tea Party for batch of Graduating class 2019 was held on April 26, 2019, in Hyderabad Campus. Associate Dean, Alumni Relations, Prof. M. Viswanathan highlighted the importance of registering everyone on BITS AlmaConnect. The opening speech was followed by speeches by final year students who spoke about their life in campus and how that transformed them into completely different humans. In closing address, Prof. G. Sundar, Director, Hyderabad Campus said to the graduates: "I take pride in your excellence and your diversity, and I am excited about the contributions you will make in the years ahead. We applaud your achievements. We send our best wishes as you begin the adventures that lie ahead." He also sang a Kishore Kumar song.
- Also, on November 28, 2019, the same event was held for Graduating Class 2020. All those who would graduate in 2020 joined the faculty members for the Director's farewell dinner. This year, the Student Alumni Relations Cell (SARC), had also arranged for a photo booth so that all attendees could get their photos clicked in solo and in groups that would go into their yearbook. The event saw speeches from members of the student fraternity as well as faculty members and heartfelt words were exchanged. The wonderful evening concluded with a memorable dinner.

Alumni Reconnect

- A chapter of the Rotaract club was mentored and started on campus with the help of our alumni, Mr. Sharath Choudhary and Mrs. Anu Kendry. The club was formally established on campus. The Rotaract club organized two blood donation camps. This club will act as a platform to improve the leadership skills of the students and to meet a variety of people from all over the world. The club's main aim revolves around coming up with innovative solutions to some of the most pressing problems in the world.

Donations by Alumni

BITS Pilani, Hyderabad campus has taken an initiative to strengthen the relationship with BITSAA Hyderabad Chapter. As a result, Rs. 1 Lakh was awarded from BITSAA Hyderabad Chapter to support one student for travel and accommodation for a summer internship abroad from BITS Pilani, Hyderabad campus.

Dubai Campus

Alumni Related On-Campus Events

- First BITS Innovation Competition (BIC 2019), a technology-based innovation competition to provide sustainable solutions towards current issues was organized from Nov—Dec 2019 at Dubai. The competition aims to bring creative minds together to collaborate, work and provide a solution to a problem. 60 teams registered their proposal, which was regularly monitored for their progress by the BIC organizing team comprised of Dr. Vincent S. Kumar, Dr. Neeru Sood, Dr. Trupti Gokhale, Dr. Eldose Iype, and Dr. M. Raja. 23 teams were selected for the finale. Team SolarGridX emerged as the winner with Team Washes as 1st Runner up, Team AI Insurance as 2nd Runner up and Team Indoor Navigation as the 3rd Runner up. Winning teams were awarded cash prizes by our alumni sponsors, Mr. Ashok Galgotia, Mr. Lalit Jain. Ms. Sandhya Prakash and Mr. M. P. Sharma, amongst others.
- Mr. Lalit Jain, a BITS Pilani alumnus conducted a workshop on Project Management Techniques on March 23, 2019 in BITS Pilani, Dubai Campus. The workshop revolved around the basics of project management and going up to details on the planning and execution of the projects. The workshop was extended to all the campuses and it was a pleasure to have good participation from all the campuses.
- Alumni Mr. Jagadeesh Babu Rangishetty and Mr. Manik, BITS Pilani alumni of M. Pharm 1996 and B. Pharm 1997 batches, respectively visited the Dubai campus on August 31, 2019. Mr. Jagadeesh and Mr. Manik interacted with the faculty members from the Biotechnology Department on advances in the Biopharmaceutical field. They are co-founders of Biophore, a Pharmaceutical company based out of Bangalore with offices in USA and other cities in India. Biophore is currently engaged in the synthesis of therapeutic small peptides. The venture has introduced over 200 products in the market and has employed a taskforce 350 scientists. The establishment has a total employee count of 1000.
- DAA 2019 Awardee, Mr. Manu Sawhney released the BPDC sports magazine 2018-2019 on August 31, 2019. Mr. Shawney is the Chief Executive Officer at ICC. He is also on the board of Manchester United Plc and Manchester United Football Club Ltd. and Member of Young Presidents' Organization, Inc., Mr. Sawhney was Chief Executive Officer for SportsHub Pte Ltd. and Managing Director-Asia at ESPN Star Sports. He is BITS Pilani alumnus of 1984 and graduated with Bachelors in Mechanical Engineering.
- An MoU was signed between Kregzo Innovation Tech (Kregzo) and Dubai campus on Sep 19th, 2019 by Mr. Nitin Bhalla, Founder, Kregzo Innovation Tech) and Prof. R. N. Saha, Director, BITS Pilani Dubai campus. The purpose of this MoU is to build an entrepreneurial ecosystem at the Dubai campus and to provide continuous Entrepreneurial support to the students for a period of one year to ensure the start-ups get a successful launchpad in UAE.
- Alumni relations Division hosted an interactive session with Mr Zaidali Khoja Zaid on March 12, 2019. In an interactive session with students, he stressed on continuous learning and training. The event saw the highest number of participation from students.
- BITSian Day was celebrated by BITSAA Middle East on 2nd August 2019. The event saw around 20-25 alumni from Dubai and Abu Dhabi meeting up at Jazz@Pizza Express. It was a fun-filled evening with the President of Dubai Chapter Ghurair Sheikh welcoming the new BITSians in the region followed by loads of laughter and sharing of nostalgic moments spent during the hostel stay at BITS Pilani to general networking.
- Mr. V. R. Mehta, Padmashree Awardee and Distinguished Alumnus Awardee visited Dubai Campus on August 30, 2019. Mr. Mehta is a BITS alumnus of the 1953 batch who graduated with Bachelors in Mechanical Engineering. He shared his experience of working in various fields ranging from social work to banking in India and abroad.
- Mr. V. R. Mehta, Padmashree Awardee and Distinguished Alumnus Awardee visited Dubai Campus on August 30, 2019. Mr. Mehta is a BITS alumnus of the 1953 batch who graduated with Bachelors in Mechanical Engineering. He shared his experience of working in various fields ranging from social work to banking in India and abroad. Mr. Mehta is credited with taking Jaipur Foot beyond the Indian boundaries and founded the

Mahaveer Philippines Foundation Inc. (MPFI), and has established three centres of the prosthetic makers in Philippines and one in Pakistan. Through his interaction with the students, Mr. Mehta emphasized on hard work and passion to follow one's dreams. He encouraged the students to design a roadmap towards their business startups and shared his personal experiences and the learning from them.

- Dr. Subhamoy Pal, BITS Pilani alumni of batch 1996, visited the Dubai campus and had an interactive session with the students on 28th August 2019. Dr. Pal majored in Pharmacy while at BITS Pilani and is currently working for the US Military. He gave a detailed talk about the development of diagnostic kits with a focus on specificity and sensitivity of the tests.
- Col Dr Rakesh Sharma, IEEE and Army Awardee, Head - EY PMU, Govt. of Jharkhand spoke to students and faculty on "BITS Raksha Anusandhan Cell - Synergizing BITS Research for The Future to Make Nations Powerful" on 27 November 2019.
- Director's Tea Party for the batch of Graduating class 2019 was held May 02, 2019 on Dubai Campus. The event saw the graduating batch with mixed emotions. The evening started with the Director, BITS Pilani, Dubai Campus, Prof. R. N. Saha speech. He advised and wished the students for their successful future. Students also shared their learning experiences, aspiration and plans. They thanked their peers for the support they received during exams, events and otherwise through the journey at BITS. The evening ended with a lovely dinner and ample memories. Also, on Nov 15, 2019, the same event was held for Graduating Class 2020.

A.15 FINANCE AND FUND SUPPORT

The accounts of the Institute for the financial year 2018-2019 have been audited by M/s. S.R. Batliboi and Co.LLP, Gurgaon, who are the Statutory Auditors of the Institute. M/S Aneja Management Consultants Pvt Ltd, Chartered Accountants, Mumbai are the Internal Auditors.

Finance and Funds during 2018-2019

Investments: As on 31st October, 2019, the investment in shares & Units of Mutual Funds (out of Corpus fund) stood at Rs. 1896.51 lakhs. The total fixed deposits with banks stood at Rs. 35690.13 lakhs.

Expenditure: The excess of income over expenditure as per Income & Expenditure Account was Rs.16225.71 lakhs.

Pension to Staff: As on 31st October 2019, twenty eight members of the staff were receiving pension. During the financial year 2018-2019, the Institute spent Rs. 37.07 lakhs on pension.

Gratuity to Staff: Institute has paid Rs. 134.77 lakhs to 27 staff members who left the institute.

Medical Facilities: During the financial year 2018-2019, the Institute spent Rs. 316.28 lakhs net for providing medical facilities to the students and staff of the Institute. The expenditure included contribution to Birla Sarvajanik Hospital, Mahadev Singhi Eye Hospital, medical reimbursement and amount spent on visits of various specialists to medical centres.

Financial Assistance to Students: The Institute spent Rs. 719.55 lakhs on scholarships to staff children/spouse/ self to cover the fees for education at the Institute and local schools. Further, 3389 students received financial assistance of Rs. 2465.07 lakhs from different sources, details of which are given below:

S. No.	Particulars	No. of Students	Amount in Rs.
1.	UGC PG Scholarship	127	1,25,45,034
2.	Students Aid Fund	388	36,26,000
3.	Other States Scholarship	4	4,76,600
4.	Institute Merit Scholarship	274	5,76,90,887
5.	Institute Merit-cum-Need Scholarship	2596	25,55,49,686
	Total	3389	32,98,88,207

Grants under DST-FIST:**Pilani Campus**

S.NO	Department	Period (years)	Amt. Sanctioned (50:50 Basis)	Amount Released (in Lakhs)
Grants under DST- FIST Ongoing				
1	Physics	September 2018 - Sept 2023	100.5	66.00
2	Chemistry Level II	July 2016 - July 2021	82.50	76.58
DST-FIST Grant (Completed)				
1	Mechanical Engineering	May 2014 - May 2019	81.50	71.53
2	EEE	November 2014 - November 2019	72.50	68.44
3	Mathematics	October 2014 - October 2019	50.00	37.55
4	Biological Sciences	June 2014 - June 2019	27.50	25.98

KK Birla Goa Campus

S.NO	Department	Period	Duration	Amt. Sanctioned (50:50 Basis)	Amount Released (in Lakhs)
Grants under DST- FIST Ongoing					
1	Mathematics	August 2015 - August 2020	5	37.5	18.75
2	Chemical Eng.	January 2015 - January 2020	5	62.00	31.00
3	Biological Sciences	January 2019 - January 2024	5	160.00	80.00
4	Physics	March 2018 - March 2023	5	290.00	145.00
Grants under DST- FIST Completed					
1	Mechanical Eng.	July 2010 - July 2015	5	80.00	40.00
2	EEE & I	October 2013 - October 2018	5	36.00	18.00
3	Chemistry	March 2013 - March 2018	5	77.00	38.50

Hyderabad Campus

S.NO	Department	Period	Duration	Amt. Sanctioned (50:50 Basis)	BITS share (in Lakhs)
Grants under DST- FIST Sanctioned / Approved					
1.	Pharmacy		5	138.00	60.00
Grants under DST- FIST Ongoing					
1.	Civil Engineering	December 2014 to December.2019	5	90.00	50.00
2.	Mathematics	December 2015 to December 2020	5	45.00	22.5
Grants under DST- FIST Completed					
1.	Pharmacy	December 2012 to December 2017	5	67.00	30.00
2.	Biology	April 2014 to March 2019	5	110.00	55.00
3.	Chemistry	August 2014 to August 2019	5	100.00	50.00

BITS Pilani, Dubai Campus

SCHOLARSHIPS

Financial Assistance to Students

Financial Assistance to Students-637 students received financial assistance of AED: **4,558,563/-** under different categories for the Academic Year 2018-19, the details of which are given below:-

S.No	Particulars	No. of Students	Amount in AED
1	Institute Merit Scholarship	535	3,330,200
2	Higher Degree and Doctoral Scholarship	32	175,000
3	Need-based Scholarship (Physically challenged, Bereaved family discount)	11	147,913
4	Others (Staff, Siblings, Sports, Special Concessions)	59	905,450
Total		637	4,558,563

A.16 WORK INTEGRATED LEARNING PROGRAMMES (WILP)

Since 1979, the Institute has been participating in the human resources development activities of the industries by evolving several degree programmes that integrate the working environment of the employees with the learning environment required by the Institute. These programmes are offered in several domains like Information Technology, Engineering Technology and Management.

The Institute conducts **Work Integrated Learning Programmes (WILP)** as a means of continuing education for employed professionals to meet the Learning & Development needs of a diverse spectrum of industries. These programmes are conducted through a collaborative partnership between BITS Pilani and the organization / industry, to build technical competencies and enable advancement of workplace skills. In a world of rapidly evolving technologies, these programmes represent a successful model to meet the consequent need for continuous education and up-skilling of the workforce.

Over the past three decades, these programmes have grown manifold, meeting the requirements of over 4000 organizations. At present, over 22,000 employed professionals are pursuing various degree programmes through WILP.

SALIENT FEATURES

In line with the educational philosophy of the Institute of integrating theory with practice, the student's own work environment provides an ideal ground for a meaningful combination of the two through assignments, case studies, work experience, and projects. The interplay of work or practice and education is ensured since students are admitted only to a programme that is in line with their work profiles, and with the endorsement and active support of the employer.

The programmes are industry focused, with highly contemporary and relevant curriculum, and the individual courses are taught at the same level of rigor as in programmes on the campus. Instruction is delivered at the workplace, using a judicious combination of asynchronous electronic means, and synchronous, faculty-led classes conducted either physically or through the use of technology. Extensive use is made of virtual laboratories, remote laboratories, simulations, case studies, assignments and projects drawn from the workplace for enhanced experiential learning.

COURSES OFFERED

The number of courses, offered during the year 2019 is as follows:

	Number of Courses offered
Second Semester 2018-2019	743
First Semester 2019-2020	680

PROGRAMMES OFFERED**Currently Operative Work Integrated Learning Programmes**

Programmes	Collaborating / Sponsoring Organization
B.Tech. Programmes	
1. Engineering Design	Designed for the HRD needs of a diverse spectrum of Engineering Industries
2. Engineering Technology	Designed for the HRD needs of a diverse spectrum of Engineering Industries and John Deere, Tata Motors, Pune
3. Information Systems	Designed for the HRD needs of a diverse spectrum of IT Industries and Wipro Bangalore
4. Manufacturing Technology	Kirloskar Oil Engines, Kolhapur, Bharat Forge, Pune, Tata Motors, Jamshedpur; TACO, Pune; Maruti Suzuki, Gurgaon; Mahindra Motor Vehicles; Cummins, Pune, GE Diesel Locomotive, Delhi
5. Power Engineering	Aditya Birla Group, Tata Power, JSW Energy – Mumbai
6. Process Engineering	Aditya Birla Group, Mumbai; JSW Steel, Toranagallu; Vedanta, Jharsuguda; BPCL, Tata Power, Mumbai
B.Sc. Programmes	
1. Design & Computing	HCL, Noida, Chennai Lucknow
M.Sc. Programme	
1. Business Analytics	Designed for the HRD needs of a diverse spectrum of IT Industries
2. Information Systems	Designed for the HRD needs of a diverse spectrum of IT Industries
M.B.A. Programmes	
1. Consultancy Management	Designed for the HRD needs of a diverse spectrum of consulting firms
2. Finance	Designed for the HRD needs of business organizations
3. Hospital and Health Systems Management	Designed for the HRD needs of a diverse spectrum of Hospitals and Healthcare organizations
4. Manufacturing Management	Designed for the HRD needs of a diverse spectrum of Engineering Industries
5. Quality Management	Designed for the HRD needs of a diverse spectrum of Engineering Industries
M.Tech. Programmes	
1. Automotive Engineering	Tata Technologies, Tata Motors, Cummins, Pune; Mercedes Benz; Aptive, MBRDI, Bangalore
2. Computing Systems & Infrastructure	Designed for the HRD needs of a diverse spectrum of IT Industries, VMWare, Wipro, Bangalore
3. Data Science & Engineering	Designed for the HRD requirements of a diverse spectrum of IT Industries, Avaya, Pune, Intuit, Wipro, BFL Bangalore, HCL
4. Design Engineering	Designed for the HRD needs of a diverse spectrum of Engineering Industries, SKF and John Deere, Pune
5. Embedded Systems	Designed for the HRD needs of a diverse spectrum of IT Industries, Cisco, Bangalore; UTC Bangalore and Hyderabad.

Programmes	Collaborating / Sponsoring Organization
6. Environmental Engineering	Goa Pollution Control Board, Goa
7. Manufacturing Management	Designed for the HRD needs of a diverse spectrum of Engineering Industries
8. Microelectronics	Designed for the HRD needs of a diverse spectrum of IT Industries; Synopsys, Bangalore; Samsung, Gurgaon, Aricent Bangalore and Gurgaon
9. Pharmaceutical Operations and Management	Designed for the HRD needs of a diverse spectrum of Pharmaceutical Industries, and Sun Pharmaceutical Industries, Vadodara; Lupin, Mumbai
10. Quality Management	Designed for the HRD needs of a diverse spectrum of Engineering Industries
11. Software Engineering	Wipro Technologies, Dell, SAP Labs, Sabre, EMC, Oracle, Lowe's Services, Bangalore; Avaya, Tech Mahindra, Pune; Capgemini; Qualcomm, Hyderabad
12. Software Systems	Designed for the HRD requirements of a diverse spectrum of IT Industries; Wipro Technologies, Bangalore; TCS, Hyderabad; Cisco, Synopsys, Bangalore; Samsung, Gurgaon; Aricent, Bangalore and Gurgaon
13. Systems Engineering	Wipro Infotech, Bangalore
14. Telecommunications & Software Engineering	Designed for the HRD needs of a diverse spectrum of Telecomm Industries
15. Transportation Engineering	PWD, Goa
Post Graduate Diploma Programmes	
1. Finance	Designed for the HRD needs of Business organizations
2. Manufacturing Management	Designed for the HRD needs of Manufacturing organizations
Post Graduate Certificate Programmes	
1. Big Data Engineering	Designed for the HRD needs of IT industries
2. General Management	Designed for the HRD needs of Engineering industries
3. Internet of Things	Designed for the HRD needs of IT industries
4. Manufacturing Practice	Designed for the HRD needs of Manufacturing organizations
Certificate Programmes	
1. Manufacturing Practice	Designed for the HRD needs of Manufacturing organizations
2. General Management	Designed for the HRD needs of Engineering industries

ADMISSIONS

The number of students admitted in each of the semester is given below.

	II Semester 2018-19	I Semester 2019-20	Total
Post Graduate Certificates	376(0075)	505(100)	881(0175)
Integrated First Degree Programmes	457(0043)	649(073)	1106(0116)
Higher Degree Programmes	3264(1081)	3145(637)	6409(1718)
Total	4097(1199)	4299(810)	8396(2009)

The programme-wise details are given in 'Annexure B5-1'.

NUMBER OF STUDENTS REGISTERED

The registration processes for both the semesters were completed on the first day of each semester.

Semester	Number of students registered
Second Semester 2018-2019	18123
First Semester 2019-2020	18558

Details of Registration of students for the First Semester 2019-2020 are given in 'Annexure B5-2'.

AWARD OF DEGREES

During the year, a total of 5540 students graduated. The details on the award of degrees are given below.

Award	84 th Award (vide Board of Governors approval on 22-3-2019)	85 th Award (vide Board of Governors approval on 16-7-2019)	Total
Integrated First Degrees	762(58)	386(81)	1148(139)
Higher Degrees	2332(702)	2060(460)	4392(1162)
Total	3094(760)	2446(541)	5540(1301)

Statistical details of these degrees are given in Annexure B5-6.

A17. INSTITUTIONAL KNOWLEDGE ANALYSIS CELL (IKAC)

The universities across the world are increasingly promoting data driven decision for both strategic and operational purposes. This calls for systematic organization of data across offices and campuses offices that forms basis of such decisions. This function over last 3 years has been managed by Faculty-in-Charge (Institute-wide) who heads the Institutional Knowledge Analysis Cell (IKAC). The overarching purpose of IKAC is to "provide data with analysis to internal and external stakeholders for evidence based decision making and strategic planning". The objectives of IKAC are:

1. To seek, collate, organize & secure data for institutional processes and functions
2. To conduct analysis & provide insights into collected data, with the goal of facilitating evidence based decision making
3. To Provide relevant data for benchmarking, accreditation, rankings, awards, and other such initiatives

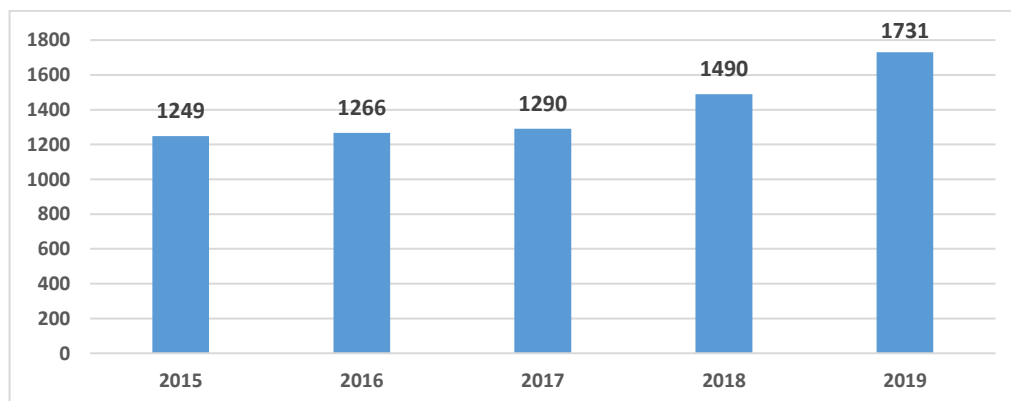
IKAC is somewhat similar to IR (Institutional Research) office in international universities and in the backdrop of BITS Pilani declared as Institution of Eminence by MHRD, Government of India, this cell would play a significant role in the growth and development of BITS Pilani.

During the last year, IKAC had worked for completing ranking questionnaire submissions to various national and international agencies including Swachh Bharat Institution Survey, and National Institution Ranking Forum (NIRF), both MHRD, Government of India initiatives; India Today, The Week, Outlook magazines for Engineering and The Week for B- schools, all national agencies. Currently the IKA Cell is working on ranking data submission to All India Survey for Higher Education (AISHE), MHRD; Quacquarelli Symonds (QS) and Times Higher Education (THE) both international agencies; and various other national agencies. IKAC has also taken initiatives with concerned offices to strengthen and organize data that pertains to student, faculty, research, infrastructure, etc.

In the year 2018, IKAC has also taken initiative to introduce a platform called "RESEARGENCE" with the help of a company CIntelligence Pvt. Ltd., Chennai; for collating the database of National and International publications that has BITS Pilani affiliation. This database includes details of publications in Journals, Conferences, Books, and Book Chapters as available from online databases like Scopus, Web of Science (WoS), IEEE, Pubmed and Google Scholar. This platform provides a base where individual faculty can add-up to his/ her research profile. It also provides an immediate update to the publication by any BITS faculty as it appears online and helps keep

track of citations, impact factor of each publication and overall for any faculty. The platform has helped prepare key parameters namely -h-index, publication count, citations, etc. for individual faculty, department, campus, and overall institute during review. A glimpse of data analysis is presented below-

BITS Pilani affiliated publications trend last 5 years (2015-2019)



BITS Pilani, H-Index since inception is 110

Contribution to publication by campus last 5 years (2015-2019)

Parameter	Pilani	Goa	Hyderabad	Dubai
Publications	3375	1407	1871	501
Citations	13177	4825	7133	1125
H-Index	35 (97)	25 (47)	30 (51)	12 (23)

Fig in in bracket represents H-Index since inception

A.18 OBITUARIES

The Institute deeply mourns the sad demise of the following during the year:

1. Mrs. Sampat, PSRN 3248 (Helping Staff), Estate Management Unit, Pilani Campus died on the 28th April 2019 after brief illness.
2. Shri Ram Kumar, PSRN 3434 (Helping Staff), Estate Management Unit, Pilani Campus died on the 6th May 2019.
3. Shri Chandra Prakash Saini, PSRN 2176 (Junior Office Assistant), Library, Pilani Campus died on the 1st September 2019 after prolonged illness.
4. Ms. Priya R S, ID. No. 2018H1490396P, a student of Pilani Campus passed away on 21st October 2019 at Medanta Hospital, Gurugram.
5. Mr. M Deepak Kumar, ID No: 2016PHXF0418G, a student of K K Birla Goa Campus died on 12th January 2019.
6. Mr. Sagar S. Naik. GPSRN. G0278, an employee of K K Birla Goa Campus died on 20st February 2019.
7. Mr. Avlokita Aditya, ID No: 2013A1PS0552G, a student of K K Birla Goa Campus died on 12th June 2019.
8. Shri Madhusudan Medi, PSRN: H0646 (Accountant), Accounts & Finance Division, Hyderabad Campus died on October 22, 2019.
9. Shri Koduganti Rama Krishna, PSRN: H0340 (Technician), Maintenance Division, Hyderabad Campus died on October 28, 2019.

Note: The complete annual report (Part A and Part B) along with the annexures is given in soft copy.

PART A
ANNEXURES

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GENERAL BODY

The 58th meeting of the General Body of the Institute was held on 22nd March 2019 under the Chairmanship of Dr. Kumar Mangalam Birla, Chancellor of the Institute.

The Chancellor heartily welcomed the members and thanked them for attending the meeting and apprised the members that 3,334 students were admitted to Bachelor's Programme in Academic Year (AY) 2018-19 compared to 3,285 in AY17-18. The increased student intake is attributable to availability of enhanced facilities i.e. hostels and academic blocks at all three campuses and admission to Higher Degree (HD) and PhD Programmes was at 1108 (780+328) compared to 870 during AY17-18 exhibiting over 27% growth. Focus on admissions to these programmes continues. The number of applicants for Birla Institute of Technology and Science Admission Test (BITSAT) in AY18-19 was a little over 1.7 L, comparable to that in AY17-18.

The Chancellor informed the members that BITS was ranked as the top non-Govt Univ in all QS 2019 Rankings. BITS entered the World 500 Rank in several Subject Rankings: Life Sciences in THE 2019 Rankings; Mechanical Engg, EEE and Computer Science in QS 2019. BITS was awarded Institute of Eminence status by MHRD in 2018.

The Chancellor apprised that Institute's efforts to hire high quality faculty continue, with the focus remaining on entry-level Assistant Professor position and on those who have earned their PhDs from reputed Universities in India and overseas. Increasing the faculty strength year-on-year remains a challenge. The overall mix of our faculty has improved. Number of tenured, full-time regular (Assistant Professors and above) faculty members has increased while there is a steep decrease in non-tenured faculty members (Lecturers, Visiting Faculty, etc.) as planned. 137 offers were made during AY 2017-18. The last two academic years saw 185 faculty members joining BITS. Attracting and retaining quality faculty remains a priority for BITS. The establishment of new MHRD Institutions such as IITs, NITs, and IIMs has added to the challenge.

The Chancellor informed that BITS's focus on enhancing sponsored research is yielding results. During FY19 (first 11 months), 128 project proposals were approved leading to research grants totalling Rs. 32 Cr. 119 PhDs were conferred in 2018. Number of Scopus indexed journal publications is continuing to grow steadily with 1113 publications in 2018 (i.e. over 20% year-on-year increase). Research publication quality as evidenced by number of citations per paper (9.46) and h-index (98) is comparable to the top league in the country.

The Chancellor also apprised the members that the student placements exhibited improvements. There was an yearly increase of about 7.2% was seen in recruiter visit due to addition of new profiles such as Data Science, Machine Learning and AI. Pre-placement offers (542) are more than double that of the highest from an IIT. Number of students placed in higher degree increased from 231 to 306, a growth of over 32%. 84.5% of our FD students have been placed as on February 28, 2019. The placements are expected to continue till end April 2019 and we expect to achieve similar placement % like last year (92%), in spite of enhanced student numbers Median annual salary increased from Rs 10.3 L to Rs 12 L and average annual salary grew by 11.6%.

The Chancellor informed the members that nearly 18,000 employed professionals are currently pursuing Work Integrated Learning Programmes. The rigorous nature and high quality of the programs have ensured that they continue to enrich the minds and matter of a large number of working professionals leading to improved knowledge & skills as well as enhanced value to their employers, their industry sectors, and to the nation as a whole. Responding to current demands, several new programs have been launched this year related to Data Science, Analytics, Artificial Intelligence and Machine Learning.

The Chancellor also informed the members that at BITS Pilani, Dubai Campus (BPDC) 367 (127 girls) students were admitted in AY 2018-19, with 302 in FD, 40 in HD and 25 in PhD, showing a marginal increase. Several measures have been taken to increase the admissions for AY 2019-20. 2018 saw a healthy rise in placements with 74% of students placed compared to 51% in 2017. Apart from this, many students were accepted in top ranked institutes in USA, UK, Canada, Germany and Australia for higher studies. The research eco-system in BPDC continues to improve. Faculty members collaborated with researchers from other universities and BITS Indian campuses and submitted 39 grant proposals. A large number of students won top awards in various academic, technical, and business proposal competitions.

The Chancellor told the members that the modernisation and expansion plans at the three Indian campuses are in full swing. At Pilani Campus, Renovation and augmentation of Krishna Bhawan and KG Mess were completed and 56 new flats of faculty housing and 24 renovated flats were handed over. New Academic Block (NAB) (B & C) with 11 classrooms, 15 labs and 128 faculty rooms and Hostel HB 09 with 778 beds were completed and handed over at Hyderabad Campus. 2 boys' hostels of 200 beds each, D-Mess, NAB Phase 1 were completed and handed over at Goa Campus.

The Chancellor informed the members that the engagement with the Alumni continues to strengthen, with alumni participating and supporting their alma mater in multiple ways. Alumni team was reinforced this year with three professionals already recruited to focus on activities related to CSR, database and communications. BITS ECHO, the quarterly newsletter, is now published regularly with 4 issues already released. An industry leaders meet was organized in Mumbai while location based Alumni gatherings have started happening with Dubai and Hyderabad

meets already completed. BITS Alma Connect, an alumni database community platform, has been launched with over 19200 registered so far. Fundraising has grown many folds this year. Mega campaigns such as Alumni Convention Centre at Pilani and Research Endowment Fund have been launched. Lifelong email access has been given to all alumni.

The General Body noted the actions of the Chancellor approving the following:

- (a) Appointment of Shri Ernest Samuel Ratnakumar J as the Registrar of the Institute with effect from 16th August 2018.
- (b) Extension of term of appointment of Prof. R.N. Saha, Senior Professor as Director, BITS Pilani - Dubai Campus with effect from 24th March 2019 till 17th July 2020.
- (c) Constitution of the following Selection Committee for the Distinguished Alumnus Award (DAA) of 2018:
 1. Mr. Deepak S Parekh, Chairman, HDFC Ltd. (Chairman)
 2. Mr. Debu Bhattacharya, Vice Chairman, Hindalco Industries and Novelis, Chairman of the Business Review Council (Manufacturing) of Aditya Birla Group (Member)
 3. Prof. Ravi Sinha, Professor and former Dean, Alumni and Corporate Relations, IIT Bombay (Member)
 4. Mr. NS Parthasarathy, Founder, Executive Vice Chairman and COO, Mindtree, Bangalore and previous DAA Winner (Member)
 5. Prof. Souvik Bhattacharyya, Vice-Chancellor, BITS Pilani (Member)
 6. Prof. Arya Kumar, Dean, Alumni Relations, BITS Pilani (Member-Secretary)
- (d) Nomination of Dr. Chander Kumar Jain, Whole Time Director of Kesoram Industries Limited as admitted member of the General Body in place of Shri Tridib Kumar Das with effect from 11th March 2019 for the residual term ending on 29th April 2019.

The General Body also noted the following:

- (a) The Ministry of Human Resource Development, Government of India, New Delhi - Letter of Intent to BITS Pilani as 'Institution of Eminence Deemed to be University' vide its notification dated 20th September 2018
- (b) The Ministry of Human Resource Development, Government of India, New Delhi notifications dated 20th August 2018 approving the Hyderabad and K.K. Birla Goa Campuses of BITS Pilani
- (c) Shri Sukhbir Singh Sandhu, Additional Secretary (Technical Education), Department of Higher Education, Ministry of Human Resource Development, Government of India, New Delhi has been nominated by the Government of India as its representative to serve on the General Body of the Institute under the constituency "A representative of the Ministry of Human Resource Development, Government of India" with effect from 6th April 2018.
- (d) Shri Anand Sudarshan, Founder & Director, Sylvant Advisors Private Limited, Bangalore has been nominated by the Federation of Indian Chambers of Commerce and Industry, New Delhi as its representative to serve as a member of the General Body of the Institute under the constituency "A Representative of the Federation of Indian Chambers of Commerce and Industry" for a period of three years with effect from 12th July 2018.

The General Body received and recorded the reports on Research Activities of the Institute and collaboration with various Institutions/organisations both within India and abroad.

The General Body adopted the Report of the Board of Governors as to the state and condition of the Institute for the period from 1st January 2018 to 31st December 2018. While adopting the report the members expressed their happiness and satisfaction over the functioning of the Institute. The General Body also adopted the Balance Sheet and Income & Expenditure Account for the year ended on 31st March 2018 and approved the Budget Estimates of the Institute for the financial year 2019-2020 as recommended by the Finance Committee and the Board of Governors.

BOARD OF GOVERNORS

The Board of Governors of the Institute held its 72nd Meeting on 22nd March 2019 under the Chairmanship of Dr. Kumar Mangalam Birla, Chancellor of the Institute.

The Chancellor heartily welcomed the members and thanked them for attending the meeting and apprised the members that 3,334 students were admitted to Bachelor's Programme in Academic Year (AY) 2018-19 compared to 3,285 in AY17-18. The increased student intake is attributable to availability of enhanced facilities i.e. hostels and academic blocks at all three campuses and admission to Higher Degree (HD) and PhD Programmes was at 1108 (780+328) compared to 870 during AY17-18 exhibiting over 27% growth. Focus on admissions to these programmes continues. The number of applicants for Birla Institute of Technology and Science Admission Test (BITSAT) in AY18-19 was a little over 1.7 L, comparable to that in AY17-18.

The Chancellor informed the members that BITS was ranked as the top non-Govt Univ in all QS 2019 Rankings. BITS entered the World 500 Rank in several Subject Rankings: Life Sciences in THE 2019 Rankings; Mechanical Engg, EEE and Computer Science in QS 2019. BITS was awarded Institute of Eminence status by MHRD in 2018.

The Chancellor apprised that Institute's efforts to hire high quality faculty continue, with the focus remaining on entry-level Assistant Professor position and on those who have earned their PhDs from reputed Universities in India and overseas. Increasing the faculty strength year-on-year remains a challenge. The overall mix of our faculty has improved. Number of tenured, full-time regular (Assistant Professors and above) faculty members has increased while there is a steep decrease in non-tenured faculty members (Lecturers, Visiting Faculty, etc.) as planned. 137 offers were made during AY 2017-18. The last two academic years saw 185 faculty members joining BITS. Attracting and retaining quality faculty remains a priority for BITS. The establishment of new MHRD Institutions such as IITs, NITs, and IIMs has added to the challenge.

The Chancellor informed that BITS's focus on enhancing sponsored research is yielding results. During FY19 (first 11 months), 128 project proposals were approved leading to research grants totalling Rs. 32 Cr. 119 PhDs were conferred in 2018. Number of Scopus indexed journal publications is continuing to grow steadily with 1113 publications in 2018 (i.e. over 20% year-on-year increase). Research publication quality as evidenced by number of citations per paper (9.46) and h-index (98) is comparable to the top league in the country.

The Chancellor also apprised the members that the student placements exhibited improvements. There was an yearly increase of about 7.2% was seen in recruiter visit due to addition of new profiles such as Data Science, Machine Learning and AI. Pre-placement offers (542) are more than double that of the highest from an IIT. Number of students placed in higher degree increased from 231 to 306, a growth of over 32%. 84.5% of our FD students have been placed as on February 28, 2019. The placements are expected to continue till end April 2019 and we expect to achieve similar placement % like last year (92%), in spite of enhanced student numbers Median annual salary increased from Rs 10.3 L to Rs 12 L and average annual salary grew by 11.6%.

The Chancellor informed the members that nearly 18,000 employed professionals are currently pursuing Work Integrated Learning Programmes. The rigorous nature and high quality of the programs have ensured that they continue to enrich the minds and matter of a large number of working professionals leading to improved knowledge & skills as well as enhanced value to their employers, their industry sectors, and to the nation as a whole. Responding to current demands, several new programs have been launched this year related to Data Science, Analytics, Artificial Intelligence and Machine Learning.

The Chancellor also informed the members that at BITS Pilani, Dubai Campus (BPDC) 367 (127 girls) students were admitted in AY 2018-19, with 302 in FD, 40 in HD and 25 in PhD, showing a marginal increase. Several measures have been taken to increase the admissions for AY 2019-20. 2018 saw a healthy rise in placements with 74% of students placed compared to 51% in 2017. Apart from this, many students were accepted in top ranked institutes in USA, UK, Canada, Germany and Australia for higher studies. The research eco-system in BPDC continues to improve. Faculty members collaborated with researchers from other universities and BITS Indian campuses and submitted 39 grant proposals. A large number of students won top awards in various academic, technical, and business proposal competitions.

The Chancellor told the members that the modernisation and expansion plans at the three Indian campuses are in full swing. At Pilani Campus, Renovation and augmentation of Krishna Bhawan and KG Mess were completed and 56 new flats of faculty housing and 24 renovated flats were handed over. New Academic Block (NAB) (B &

C) with 11 classrooms, 15 labs and 128 faculty rooms and Hostel HB 09 with 778 beds were completed and handed over at Hyderabad Campus. 2 boys' hostels of 200 beds each, D-Mess, NAB Phase 1 were completed and handed over at Goa Campus.

The Chancellor informed the members that the engagement with the Alumni continues to strengthen, with alumni participating and supporting their alma mater in multiple ways. Alumni team was reinforced this year with three professionals already recruited to focus on activities related to CSR, database and communications. BITS ECHO, the quarterly newsletter, is now published regularly with 4 issues already released. An industry leaders meet was organized in Mumbai while location based Alumni gatherings have started happening with Dubai and Hyderabad meets already completed. BITS Alma Connect, an alumni database community platform, has been launched with over 19200 registered so far. Fundraising has grown many folds this year. Mega campaigns such as Alumni Convention Centre at Pilani and Research Endowment Fund have been launched. Lifelong email access has been given to all alumni.

The Board of Governors noted the actions of the Chancellor approving the following:

- (a) Payment of adhoc interim relief to the employees on or before 31st March 2018 as per BITS Pilani Pay Revision effective from 1st January 2016.
- (b) BITS Pilani Pay Revision for the Vice-Chancellor and Directors effective from 1st January 2016.
- (c) BITS Pilani Pay Revision effective from 1st January 2016.
- (d) Creation of the following two new Divisions, headed by Institute-wide Deans:
 - (1) Academic, Under Graduate Studies - AUGS
 - (2) Academic, Graduate Studies and Research - AGSRand, re-structuring/re-organization of five existing Divisions, viz., Academic Research, Academic and Resource Planning, Admissions, Academic Registration and Counseling, and Instruction.
- (e) Enhancement of 5% in compensation (salary, special allowances, housing rent) of Prof. R.N. Saha, Director, Dubai Campus effective from 1st April 2018.
- (f) Appointment of Shri Ernest Samuel Ratnakumar J as the Registrar of the Institute with effect from 16th August 2018.
- (g) Extension of term of appointment of Prof. R.N. Saha, Senior Professor as Director, BITS Pilani - Dubai Campus with effect from 24th March 2019 till 17th July 2020.
- (h) Recommendations of the Institute Level Committee for promotion of faculty of the Institute effective from 1st July 2018.
- (i) Constitution of the following Selection Committee for the Distinguished Alumnus Award (DAA) of 2018:
 1. Mr. Deepak S Parekh, Chairman, HDFC Ltd. (Chairman)
 2. Mr. Debu Bhattacharya, Vice Chairman, Hindalco Industries and Novelis, Chairman of the Business Review Council (Manufacturing) of Aditya Birla Group (Member)
 3. Prof. Ravi Sinha, Professor and former Dean, Alumni and Corporate Relations, IIT Bombay (Member)
 4. Mr. N S Parthasarathy, Founder, Executive Vice Chairman and COO, Mindtree, Bangalore and previous DAA Winner (Member)
 5. Prof. Souvik Bhattacharyya, Vice-Chancellor, BITS Pilani (Member)
 6. Prof. Arya Kumar, Dean, Alumni Relations, BITS Pilani (Member-Secretary)
- (j) Payment of Performance-linked Variable Pay to the Vice-Chancellor and Directors of the Institute for the Academic Year 2017-18
- (k) Recommendations of the Institute Level Committee for promotion of off-campus faculty of the Institute effective from 1st November 2018.
- (l) International student admissions and increase in fees.

The Board of Governors also noted the following:

- (a) The Ministry of Human Resource Development, Government of India, New Delhi - Letter of Intent to BITS Pilani as 'Institution of Eminence Deemed to be University' vide its notification dated 20th September 2018
- (b) The Ministry of Human Resource Development, Government of India, New Delhi notifications dated 20th August 2018 approving the Hyderabad and K.K. Birla Goa Campuses of BITS Pilani
- (c) Institute has executed Surety Bonds for a total amount of Rs. 28,52,60,162 for Pilani, Hyderabad and Goa campuses in favour of various research funding agencies as a mandatory requirement.
- (d) The decision of the 57th Meeting of the General Body of the Institute held on 16th March 2018 regarding the re-election of Dr. Kumar Managalam Birla as Chancellor of the Institute for another term of five years with effect from 14th September 2018.
- (e) The decision of the 57th Meeting of General Body of the Institute held on 16th March 2018 regarding the re-appointment of Smt. Shobhana Bhartia as Pro-Chancellor of the Institute for another term of five years with effect from 14th September 2018.

The Board received and recorded the reports on Research Activities of the Institute and collaboration with various Institutions/organisations both within India and abroad.

The Board approved the Report as to the state and condition of the Institute for the period from 1st January 2018 to 31st December 2018 and resolved to recommend the same to the General Body for adoption. While approving the report the members expressed their happiness and satisfaction over the functioning of the Institute. The Board of Governors also approved the Balance Sheet and Income & Expenditure Account for the year ended on 31st March 2018 and recommended the same to the General Body for adoption.

The Board also recommended to the General Body the Budget Estimates of the Institute for the financial year 2019-2020 for its approval.

The Board of Governors, through its Circulatory Resolution dated 20th July 2018 has approved the conferment of 5213 degrees (83rd Award) on the students since the last meeting of the Board of Governors and 14 medals to eligible students for the academic year 2017-18.

The Board of Governors also approved the conferment of 3343 Degrees (84th Award) on the students since the Circulatory Resolution dated 20th July 2018 of the Board of Governors.

DETAILS OF ADMISSIONS MADE DURING THE YEAR 2019

(A) On-Campus Programmes:

Second Semester 2018-2019

BITS Pilani, Dubai Campus

PROGRAMMES	No. of students joined
1. Integrated First Degree Programmes:	
B.E.	
Biotechnology	01(01)
Chemical Engineering	02(00)
Civil Engineering	01(00)
Electrical and Electronics Engineering	00(00)
Mechanical Engineering	01(00)
Electronics and Instrumentation Engineering	01(00)
Computer Science	01(00)
Electronics and Communication Engineering	00(00)
Total	07 (01)
2. Higher Degree Programmes:	
M.E.	
Microelectronics	00(00)
Design Engineering	01(00)
Software Systems	06(03)
Biotechnology	00(00)
Electrical PED	02(00)
M.B.A	05(01)
Total	14 (04)
Grand Total	21 (05)

3. Doctoral Programmes (Ph.D.):

BITS Pilani, Pilani Campus	56 (20)
BITS Pilani, K.K. Birla Goa Campus	45 (24)
BITS Pilani, Hyderabad Campus	66(26)
BITS Pilani, Dubai Campus	15 (13)
Total	182(83)

First Semester 2019-2020

PROGRAMMES	No. of students joined	BITSAT Cut-off scores	
		Highest	Lowest
1. Integrated First Degree Programmes			
(a) Pilani Campus			
<u>Group A</u>			
B.E.			
Chemical	73(11)	335	281
Civil	72(9)	333	269
EEE	116(13)	382	341
Mechanical	101(1)	385	313
B. Pharm.	46(25)	326	195
Computer Science	143(9)	439	383
Electronics & Instrumentation	71(5)	374	328
Manufacturing	38(3)	313	255
	660 (76)		
<u>Group B</u>			
M.Sc.			
Biological Sciences	72(14)	314	265
Chemistry	76(17)	305	269
Economics	85(6)	382	315
Mathematics	76(8)	370	297
Physics	76(6)	336	290
	385(51)		
<u>Group C</u>			
M.Sc.			
Gen. Studies	14(7)		
	14(7)		
Total :	1059(134)		
(b) K.K. Birla Goa Campus:			
<u>Group A</u>			
B.E.			
Chemical	77 (14)	300	254
Electrical & Electronics	88 (08)	338	310
Mechanical	104 (06)	340	280
Computer Science	171 (13)	406	352
Electronics & Instrumentation	87 (12)	324	294
Electronics & Communication	90 (07)	351	322
	617(60)		
<u>Group B</u>			
M.Sc.			
Biological Sciences	46 (04)	284	250
Chemistry	54 (14)	288	256
Economics	69 (07)	341	295
Mathematics	67 (10)	322	276
Physics	58 (06)	331	274
	294(41)		
Total :	911(101)		

(c) Hyderabad Campus:**Group A**

B.E.			
Chemical	55 (11)	282	252
Civil	59 (08)	312	253
EEE	106 (15)	340	308
Mechanical	153 (17)	329	275
B.Pharm.(Hons.)	50 (32)	259	161
Computer Science	185 (18)	407	342
Electronics & Instrumentation	73 (18)	317	294
Electronics & Communication	120 (14)	342	318

801(133)

Group B

M.Sc.			
Biological Sciences	41 (15)	288	247
Chemistry	51 (07)	288	249
Economics	88 (15)	341	290
Mathematics	72 (15)	311	270
Physics	69 (13)	294	265

321 (65)

Total : 1122(198)

Note:

- i. The above list consists of 87(27) students who are admitted under 'International students admissions' at Pilani 24(5), Hyderabad 40(15) and Goa 23(7).
- ii. The above list consists of 16 students who are First rank holders from different central/ state boards admitted under 'direct admission of board toppers' scheme.
- iii. The above numbers also include 36 admissions of staff children(31) and of BET school students(5), made under special dispensation consisting of 5 in Chemistry, 7 in Economics, 5 in Mathematics, 5 in Physics and 14 in General Studies.

(d) Dubai Campus:**Admission to Integrated First Degree Programmes**

B.E.	
Biotechnology	23 (20)
Chemical Engineering	14 (08)
Civil	10 (02)
Electrical and Electronics Engineering	08 (01)
Mechanical Engineering	29 (02)
Electronics and Instrumentation Engineering	00 (00)
Computer Science	149 (48)
Electronics and Communication Engineering	20 (05)
Total	253(86)

2. Higher Degree Programmes :**(a) Pilani Campus**

M.E.	
Biotechnology	22 (19)
Chemical Engineering	18 (05)
Civil (Structural Engineering)	23 (03)
Civil (Transportation Engineering)	15 (03)
Civil (Infrastructure Engineering)	13 (02)
Computer Science	26 (05)
Communication Engineering	21 (07)
Design Engineering	25 (01)
Embedded Systems	13 (05)
Manufacturing Systems Engineering	15 (01)
Mechanical Engineering	18 (00)
Microelectronics	27 (05)
Software Systems	31 (05)
MBA	68 (24)

M.Pharm.	13 (08)
M.Pharm. (Pharmaceutics)	20 (12)
M.Pharm. (Pharmaceutical Chemistry)	14 (06)

Total **382 (111)**

(b) Goa Campus

M.E.	
Biotechnology	15 (10)
Chemical Engineering	09 (04)
Computer Science	39 (10)
Design Engineering	22 (01)
Embedded Systems	26 (08)
Mechanical Engineering	24 (00)
Microelectronics	27 (04)
Sanitation Science	05 (02)

M.Phil	
Liberal Studies	02 (02)

Total **169 (41)**

(c) Hyderabad Campus

M.E.	
Biotechnology	13 (10)
Chemical Engineering	08 (04)
Civil (Structural Engineering)	27 (14)
Civil (Transportation Engineering)	12 (05)
Computer Science	40 (09)
Communication Engineering	24 (10)
Design Engineering	26 (03)
Embedded Systems	26 (06)
Mechanical Engineering	25 (02)
Microelectronics	29 (05)
M.Pharm. (Pharmaceutics)	26 (21)
Thermal	<u>19(00)</u>

Total **275(89)**

(d) Dubai Campus

M. E.	
Microelectronics	08 (03)
Design Engineering	04 (01)
Electrical PED	02 (00)
Software Systems	03 (00)
M.B.A	<u>00 (00)</u>

Total **17 (04)**

3. Doctoral Programmes (Ph.D.):	
(a) Pilani Campus	69 (32)
(b) K.K. Birla Goa Campus	36 (15)
(c) Hyderabad Campus	73 (33)
(d) Dubai Campus	12 (09)
Total	189 (89)

Work-Integrated Learning Programme

(A) Second Semester 2018-2019

PROGRAMMES	No. of students joined
1. Certificate & Diploma Programmes	
Post Graduate Certificate	
Artificial Intelligence & Machine Learning	143(23)
Internet of Things	53(11)
Big Data Engineering	140(28)
Big Data Analytics	34(12)
Post Graduate Diploma	
Finance	6(1)
Sub Total	376(75)
2. Integrated First Degree Programmes:	
B.Tech.	
Engineering Technology	196(006)
Power Engineering	36(000)
Process Engineering	106(001)
B.Sc.	
Design & Computing	40(018)
M.Sc.	
Business Analytics	79(018)
Sub Total	457(043)
3. Higher Degree Programmes:	
M.Tech.	
Automotive Engineering	98(022)
Computing Systems & Infrastructure	925(425)
Data Science & Engineering	656(107)
Design Engineering	85(003)
Embedded Systems	68(016)
Manufacturing Management	50(002)
Microelectronics	111(040)
Pharmaceutical Operations & Management	18(004)
Quality Management	62(004)
Software Engineering	572(324)
Software Systems	403(103)
MBA	
Consultancy Management	55(014)
Finance	51(005)
Manufacturing Management	73(004)
Quality Management	37(008)
Sub total	3264(1081)
Total	4097(1199)

(B) First Semester 2019-2020

PROGRAMMES	No. of students joined
1. Certificate & Diploma Programmes	
Post Graduate Certificate	
Artificial Intelligence & Machine Learning	188(34)
Internet of Things	134(16)
Big Data Engineering	87(22)
Big Data Analytics	89(26)
Post Graduate Diploma	
Finance	7(2)
Sub Total	505(100)
2. Integrated First Degree Programmes:	
B.Tech.	
Engineering Technology	436(021)
Manufacturing Technology	35(007)
Process Engineering	27(000)
B.Sc.	
Pharmaceutical Sciences	49(016)
M.Sc.	
Business Analytics	102(029)
Sub total	649(073)
3. Higher Degree Programmes:	
M.Tech.	
Automotive Electronics	67(007)
Automotive Engineering	95(008)
Computing Systems & Infrastructure	125(024)
Data Science & Engineering	756(123)
Design Engineering	152(008)
Digital Manufacturing	54(003)
Embedded Systems	139(034)
Manufacturing Management	115(007)
Microelectronics	129(023)
Pharmaceutical Operations & Management	26(010)
Quality Management	106(023)
Software Engineering	155(047)
Software Systems	711(165)
Systems Engineering	150(059)
MBA	
Consultancy Management	79(022)
Finance	78(025)
Hospital & Health Systems Management	64(022)
Manufacturing Management	84(008)
Quality Management	60(019)
Sub total	3145(637)
Total	4299(810)

SUMMARY

	II Semester 2018-2019	I Semester 2019-2020	
1. BITS, Pilani – Pilani Campus			
Integrated First Degree Programmes	-	1059(134)	
Higher Degree Programmes	-	382(111)	
Doctoral Programmes	56(20)	69(32)	
Total	56(20)	1510(277)	
2. BITS, Pilani – K.K. Birla Goa Campus			
Integrated First Degree Programmes	-	911(101)	
Higher Degree Programmes	-	169(41)	
Doctoral Programmes	45(24)	36 (15)	
Total	45(24)	1116(157)	
3. BITS, Pilani – Hyderabad Campus			
Integrated First Degree Programmes	-	1122(198)	
Higher Degree Programmes	-	275(89)	
Doctoral Programmes	66(26)	73 (33)	
Total	66(26)	1470(320)	
4. BITS, Pilani – Dubai Campus			
Integrated First Degree Programmes	07(01)	253(86)	
Higher Degree Programmes	14 (04)	17(04)	
Doctoral Programmes	15 (13)	12(09)	
Total	36 (18)	282 (89)	
5. Work-Integrated Learning Programmes			
	II Semester 2018-19	I Semester 2019-20	Total
Post Graduate Certificates	376(75)	505(100)	881(175)
Integrated First Degree Programmes	457(43)	649(73)	1106(116)
Higher Degree Programmes	3264(1081)	3145(637)	6409(1718)
Total	4097(1199)	4299(810)	8396(2009)

ADMISSIONS: QUALITY OF STUDENTS' INPUT

Year of Admission	Percentage of marks in Qualifying Subjects (General PCM)	
	Max.	Min.
1966-67	93.7	38.2
1967-68	91.2	52.0
1968-69	95.0	47.3
1969-70	92.7	51.6
1970-71	96.7	45.0
1971-72	92.3	56.2

Year of Admission	Semester	Normalised aggregate percentage	
		Highest	Lowest
1972-73	I Sem.	94.30	65.22
	II Sem.	88.16	65.22
1973-74	I Sem.	100.00	70.97
	II Sem.	94.41	70.97
1974-75	I Sem.	97.83	73.00
	II Sem.	97.83	80.11
1975-76	I Sem.	97.00	78.61
	II Sem.	96.14	79.76
1976-77	I Sem.	99.73	78.50
	II Sem.	92.30	69.63
1977-78	I Sem.	100.00	79.11
	II Sem.	97.19	82.84
1978-79	I Sem.	100.00	60.00
	II Sem.	98.05	79.67
1979-80	I Sem.	100.00	69.46
	II Sem.	99.87	84.24
1980-81	I Sem.	100.00	78.72
	II Sem.	(No admissions made)	
1981-82	I Sem.	100.00	81.10
	II Sem.	97.15	86.30
1982-83	I Sem.	100.00	84.13
	II Sem.	100.00	86.64
1983-84	I Sem.	100.00	84.68
	II Sem.	99.22	85.35
1984-85	I Sem.	99.89	85.60
	II Sem.	96.67	85.60
1985-86	I Sem.	100.00	85.05
	II Sem.	99.04	85.56

Year of Admission	Semester	Normalised aggregate percentage	
		Highest	Lowest
1986-87	I Sem.	100.00	88.63
	II Sem.	97.61	88.63
1987-88	I Sem.	100.00	88.11
	II Sem.	97.81	88.37
1988-89	I Sem.	100.00	88.86
	II Sem	100.00	92.63
1989-90	I Sem	100.00	89.03
	II Sem	98.96	89.03
1990-91	I Sem	100.00	90.90
	II Sem.	100.00	93.87
1991-92	I Sem.	100.00	90.96
	II Sem.	100.00	96.11
1992-93	I Sem	100.00	93.81
	II Sem.	100.00	94.71
1993-94	I Sem.	100.00	93.91
	II Sem.	100.00	95.02
1994-95	I Sem.	100.00	94.53
	II Sem.	99.52	94.99
1995-96	I Sem.	100.00	94.70
	II Sem	98.66	96.07
1996-97	I Sem.	100.00	95.27
	II Sem.	97.87	95.30
1997-98	I Sem.	100.00	95.31
	II Sem.	99.52	95.32
1998-99	I Sem.	100.00	95.10
	II Sem.	100.00	95.31
1999-2000	I Sem.	100.00	96.09
	II Sem.	98.89	96.70
2000-01	I Sem.	100.00	96.11
	II Sem.	99.79	96.11
2001-02	I Sem.	100.00	97.15
	II Sem.	100.00	97.44
2002-03	I Sem.	100.00	98.069
	II Sem.	100.00	98.069
2003-04	I Sem.	100.00	98.374
	II Sem.	100.00	98.374
2004-05	I Sem.	100.00	97.323
	II Sem.	99.673	97.323

Year of Admission	Semester	BITSAT Test Score	
		Highest	Lowest
2005-06	I Sem.	434	245
	II Sem.	366	267
2006-07	I Sem.	430	283
	II Sem.	300	283
2007-08	I Sem.	411	260
	II Sem.	386	251
2008-09	I Sem.	419	230
2009-10	I Sem.	422	255
	II Sem.	304	251
2010-11	I Sem.	398	258
2011-12	I Sem.	414	211
2012-13	I Sem.	414	258
2013-14	I Sem.	418	266
2014-15	I Sem.	430	160
2015-16	I Sem.	419	201
2016-17	I Sem.	423	224
2017-18	I Sem.	442	200
2018-19	I Sem.	378	177
2019-20	I Sem.	439	176

STATEMENT SHOWING THE NUMBER OF CANDIDATES WHO HAVE BEEN PERMITTED IN THE ACADEMIC YEAR 2019-2020 TO PURSUE VARIOUS DUAL DEGREE PROGRAMMES UNDER VARIOUS PRIORITIES

(i) **Pilani Campus:**

FIRST PRIORITY

(From Group 'B' to Group 'A' Programmes)

Programmes* From ↓ To →	A1	A2	A3	A4	A5	A7	A8	AB	Total
B1	12	10	10	14	-	7	6	09	68
B2	10	11	10	13	-	12	09	01	66
B3	05	04	17	10	-	28	06	03	73
B4	08	04	13	09	-	19	17	05	75
B5	05	05	17	14	-	20	08	03	72
Total	40	34	67	60	-	86	46	21	354

OTHER PRIORITIES

Programmes* From ↓ To →	B4	Total
A8	01	01
Total	01	01

Transfer within same tier

Programmes* From ↓ To →	A4	A7	A8	Total
A1	-	-	2	2
A3	-	4	-	4
AB	1	-	-	1
B5	1	-	-	1
Total	2	4	2	8

Transfer within B to B

Programmes* From ↓ To →	B1	B3	B4	B5	Total
B1	-	1	1	-	2
B2	2	1	5	1	9
B4	1	1	-	-	2
B5	3	1	3	-	7
Total	6	4	9	1	20

Vertical Transfers

From	To	No. of Students
B.E. Manufacturing Engineering	M.E. Software Systems	1
B.E. Civil	M.E. Software Systems	1
B.E. Electrical & Electronics	M.E. Computer Science	1
M.E. Chemical	Ph.D. Chemical	1
Total		4

Minor Programmes: During the Academic year 2019-20, 183 students were admitted in Minor Programme, out of them 110 in Finance, 61 in Data Science, 7 in Physics, 4 in Philosophy, Economics and Politics and 1 Film and Media.

(ii) **K.K. Birla Goa Campus:**

FIRST PRIORITY

(From Group 'B' to Group 'A' Programmes)

Programmes* From ↓ To →	A1	A3	A4	A7	A8	AA	Total
B1	6	3	10	10	5	7	41
B2	1	11	10	10	11	4	47
B3	1	13	10	27	6	13	70
B4	6	7	6	19	7	15	60
B5	1	8	10	15	11	7	52
Total	15	42	46	81	40	46	270

OTHER PRIORITIES

NIL

Transfer within same tier

Programmes* From ↓ To →	A7	AA	Total
A3	-	2	2
A4	-	1	1
A8	-	2	2
AA	2	-	2
Total	2	5	7

Transfer within B to B

Programmes* From ↓ To →	B1	B3	Total
B1	-	1	1
B2	2	1	3
B5	-	1	1
Total	2	3	5

Vertical Transfers

From	To	No. of Students
M.E. Chemical	Ph.D. Chemical	1
Total		1

(iii) Hyderabad Campus:

FIRST PRIORITY

(From Group 'B' to Group 'A' Programmes)

Programmes* From ↓ To →	A1	A2	A3	A4	A7	A8	AA	Total
B1	5	6	3	9	7	2	7	39
B2	8	4	7	10	5	3	8	45
B3	3	5	8	12	24	9	14	75
B4	5	7	14	13	14	6	14	73
B5	1	3	8	13	20	2	5	52
Total	22	25	40	57	70	22	48	284

OTHER PRIORITIES

NIL

Transfer within same tier:

Programmes* From ↓ To →	A3	A7	AA	Total
A1	2	-	1	3
A2	1	1	-	2
A3	-	1	1	2
A4	1	1	-	2
A8	1	1	1	3
AA	-	1	-	1
Total	5	5	3	13

Transfer within B to B

Programmes* From ↓ To →	B3	B4	B5	Total
B1	-	1	1	2
B2	-	3	-	3
B4	1	-	-	1
B5	2	-	-	2
Total	3	4	1	8

VERTICAL TRANSFERS

From	To	No. of Students
B.Pharm.	M.Pharm. with specialization in Pharmaceutics	1
M.E. Mechanical	Ph.D in EEE	1
M.E. Chemical	Ph.D. Chemical	1
M.E. Biotechnology	Ph.D. Biological Science	1
Total		4

(iv) Dubai Campus: One

S.NO.	ID NO	NAME	PERMITTED TO DUAL
1	2018A9A40019U	CATHERINE SAVIO	MECHANICAL

LIST OF CANDIDATES WHO HAVE BEEN PERMITTED TO TRANSFER WITHIN THE FIRST DEGREE IN II SEMESTER 2018-2019

S.NO.	ID NO	NAME	PERMITTED TO TRANSFER	
			FROM	TO
1	2018A4PS0290U	KANNAT JAYALAL GOPIKA	MECH	BIOT
2	2017A9PS0904U	RIGVEDA SACHIN JANAI	BIOT	CHE
3	2018AAPS0288U	DIVYA SEHGAL	ECE	CS
4	2018A1PS0132U	JASKARAN S SETHI	CHE	ECE
5	2018A8PS0135U	SIDDHARTH KISHORE	EIE	ECE
6	2018A7PS0107U	PASUPULETI DHANUSH BABU	CS	ECE
7	2018A7PS0226U	SAKSHI SINGH	CS	EEE
8	2018AAPS0238U	SANKALP MEHROTRA	ECE	MECH

*Legend :

- A1 B.E. Chemical
- A2 B.E. Civil
- A3 B.E. Electrical & Electronics
- A4 B.E. Mechanical
- A5 B.Pharm.
- A7 B.E. Computer Science
- A8 B.E. Electronics and Instrumentation
- A9 B.E. Biotechnology
- AA B.E. Electronics & Communication
- AB B.E. Manufacturing Engineering
- B1 M.Sc. Biological Sciences
- B2 M.Sc. Chemistry
- B3 M.Sc. Economics
- B4 M.Sc. Mathematics
- B5 M.Sc. Physics
- C2 M.Sc. General Studies
- C5 M.Sc. Engineering Technology
- C6 M.Sc. Information Systems
- C7 M.Sc. Finance

FACULTY DATA

Pilani Campus

List of Faculty members who joined between 01-01-2019 to 31-12-2019.

S.No.	Name of the faculty member	Designation	Department	Date of Joining
1.	Sugata Ghosal	Associate Professor (OC)	WILPD-CSIS	02-Jan-19
2.	Abhishek Suresh Dhoble	Assistant Professor, Gr-I	CHE	21-Jan-19
3.	Glynn John	Assistant Professor (OC)-Gr-II	WILPD-ENGG.	02-Jan-19
4.	Archana Khosa Kakkar	Visiting Assistant Professor	PHA	07-Jan-19
5.	Madhurima Das	Assistant Professor, Gr-I	HUSS	28-Feb-19
6.	Rajesh Kumar	Assistant Professor, Gr-I	CS&IS	11-Mar-19
7.	Somak Chatterjee	Assistant Professor, Gr-I	CHE	23-Mar-19
8.	Rahul Arora	Assistant Professor, Gr-I	ECFI	02-Apr-19
9.	Arghya Banerjee	Assistant Professor, Gr-I	CHE	04-Apr-19
10.	Muhammed Afzal P	Assistant Professor, Gr-I	HUSS	07-May-19
11.	Shashank Mohan Tiwari	Associate Professor (OC)	WILPD-ENGG.	17-Apr-19
12.	Seetha Parameswaran	Assistant Professor (OC)-Gr-II	WILPD-CSIS	30-May-19
13.	Anirudh Singh Rana	Assistant Professor, Gr-I	MATH	15-Jun-19
14.	Faizan Mohammad Rashid	Assistant Professor, Gr-I	ME	22-Jun-19
15.	Deepak Sharma	Assistant Professor, Gr-I	ME	23-Jul-19
16.	Aditya Raw Gautam	Assistant Professor, Gr-I	EEE	25-Jul-19
17.	Saket Verma	Assistant Professor, Gr-I	ME	29-Jul-19
18.	Akash Agarwal	Assistant Professor, Gr-II	EEE	01-Aug-19
19.	Jagat Sesh Challa	Assistant Professor, Gr-II	CS&IS	03-Aug-19
20.	Pravin Yashwant Pawar	Assistant Professor (OC)-Gr-I	WILPD-CSIS	25-Jul-19
21.	Chetana Anoop Gavankar	Associate Professor (OC)	WILPD-CSIS	01-Aug-19
22.	Suvanjan Bhattacharyya	Assistant Professor, Gr-I	ME	07-Aug-19
23.	Shelaka Gupta	Assistant Professor, Gr-I	CHE	19-Aug-19
24.	Ambatipudi Vamsidhar	Associate Professor (OC)	WILPD-MGT	07-Aug-19
25.	Divyum Sharma	Assistant Professor, Gr-I	MATH	09-Sep-19
26.	Gourab Sil	Visiting Faculty	CE	23-Sep-19
27.	Benu Madhab Gedam	Associate Professor (OC)	WILPD-ENGG.	01-Oct-19
28.	Raj Singh	Visiting Faculty	EEE	24-Oct-19
29.	Shishir Maheshwari	Assistant Professor, Gr-II	EEE	06-Nov-19
30.	Prithviraj Mukhopadhyay	Assistant Professor (OC)-Gr-I	WILPD-ENGG.	31-Oct-19
31.	Amit Rajnarayan Singh	Assistant Professor, Gr-I	ME	02-Dec-19
32.	Chintalapalli Vijayakumar	Assistant Professor, Gr-I	HUSS	06-Dec-19
33.	Sai Sessa Chalapathi Gattupalli	Assistant Professor, Gr-I	EEE	11-Dec-19
34.	Satyendra Kumar Mourya	Assistant Professor, Gr-II	EEE	20-Dec-19
35.	Amitesh Singh Rajput	Assistant Professor, Gr-II	CS&IS	27-Dec-19

List of Faculty members who left the Institute between 01-01-2019 to 31-12-2019

S.No.	Name of Faculty	Desig.	Date of Leaving	Reason
1.	R. Srinivas	Assistant Professor, Gr-II	09-Jan-19	Resignation
2.	Arun Kumar	Assistant Professor, Gr-I	15-Jan-19	Resignation
3.	Archana Khosa Kakkar	Visiting Asstt. Professor	31-May-19	Term End
4.	Pratyush Banerjee	Visiting Asstt. Professor	25-Jun-19	Resignation
5.	Mayuri Abhijeet Digalwar	Visiting Asstt. Professor	06-Jul-19	Resignation
6.	Chandra Bhan Gupta	Professor	17-Jul-19	Normal Retirement
7.	Sai Sessa Chalapathi Gattupalli	Assistant Professor, Gr-II	17-Jul-19	Term End
8.	Gajanand Gupta	Assistant Professor, Gr-II	17-Jul-19	Term End
9.	Mahesh Angira	Assistant Professor, Gr-I	29-Jul-19	Resignation
10.	Padma Murali	Assistant Professor, Gr-I	31-Jul-19	Resignation
11.	S. Balasubramaniam	Professor	10-Sep-19	Resignation
12.	Akash Agarwal	Assistant Professor, Gr-II	14-Dec-19	Resignation
13.	Kavindra Kandpal	Assistant Professor, Gr-I	14-Dec-19	Resignation
14.	Ashoke Kumar Sarkar	Sr. Professor & Director	20-Dec-19	Resignation
15.	Ravinder Kumar	Visiting Asstt. Professor	31-Dec-19	Term End
16.	Kusum Lata	Visiting Faculty	31-Dec-19	Term End

K.K. Birla Goa Campus

List of Faculty Members Joined for the period from 01-Jan-2019 to 31-Dec-2019

S.No	Name	Designation	Department	Date of Joining
1	Dr. Richa Shukla	Visiting Assistant Professor	Economics	01-Jan-2019
2	Dr. Tusar Tirtha Saha	Assistant Professor, Gr-I	Biological Sciences	01-Jan-2019
3	Dr. Raj Kumar Jaiswal	Visiting Assistant Professor	CS & IS	04-Jan-2019
4	Dr. Rudranil Basu	Assistant Professor, Gr-I	Physics	01-Feb-2019
5	Dr. Swati Agarwal*	Assistant Professor, Gr-I	CS & IS	25-Feb-2019
6	Dr. Vankayala Kiran	Assistant Professor, Gr-I	Chemistry	22-Mar-2019
7	Dr. Abhishek Sarkar	Assistant Professor, Gr-I	Mathematics	01-Apr-2019
8	Prof. Vijay Madhukar Patankar	Associate Professor	Mathematics	31-May-2019
9	Prof. Prasad Anant Naik	Visiting Professor	Physics	15-Jul-2019
10	Prof. Lakshmi Subramanian	Visiting Professor	HSS	15-Jul-2019
11	Mr. Soumyabrata Barik	Assistant Professor, Gr-II	EEE	22-Jul-2019
12	Mr. Varun Sharma	Assistant Professor, Gr-II	EEE	29-Jul-2019
13	Dr. Dhruvajyoti Mandal	Assistant Professor, Gr-I	Mathematics	07-Aug-2019
14	Dr. Pramila	Assistant Professor, Gr-II	EEE	26-Aug-2019
15	Dr. Noel Prashant Ratchagar	Assistant Professor, Gr-II	EEE	29-Oct-2019
16	Dr. Rakesh R. Warier	Assistant Professor, Gr-I	EEE	31-Oct-2019
17	Dr. Solano Jose Da Silva*	Assistant Professor, Gr-I	HSS	20-Nov-2019
18	Dr. Ritika Jaiswal*	Assistant Professor, Gr-I	Economics	26-Nov-2019
19	Dr. Richa Shukla*	Assistant Professor, Gr-I	Economics	26-Nov-2019
20	Dr. Kanchan Manna	Assistant Professor, Gr-I	CS & IS	28-Nov-2019
21	Dr. Chaudhry Indra Kumar	Assistant Professor, Gr-II	EEE	12-Dec-2019

* indicates Re-designation

List of Faculty Members left between 01-Jan-2019 to 31-Dec-2019

S.No	Name	Designation	Department	Date of Exit
1	Dr. Swati Agarwal*	Assistant Professor, Gr-I	CS & IS	24-Feb-2019
2	Dr. Debasis Das	Assistant Professor, Gr-I	CS & IS	14-May-2019
3	Dr. Parichay Patra	Assistant Professor, Gr-I	HSS	17-May-2019
4	Dr. Bijil Prakash	Visiting Faculty	Mathematics	15-Jul-2019
5	Dr. Rajagopal Vellingiri	Assistant Professor, Gr-I	Chemical Engineering	17-Jul-2019
6	Dr. Geeta Patil	Visiting Faculty	CS & IS	17-Jul-2019
7	Dr. Sreejith V.	Visiting Assistant Professor	CS & IS	23-Jul-2019
8	Dr. Abhishek Sarkar	Assistant Professor, Gr-I	Mathematics	30-Jul-2019
9	Dr. Dhruvajyoti Mandal	Assistant Professor, Gr-I	Mathematics	26-Oct-2019
10	Dr. Solano Jose Da Silva*	Assistant Professor, Gr-I	HSS	19-Nov-2019
11	Dr. Ritika Jaiswal*	Assistant Professor, Gr-I	Economics	25-Nov-2019
12	Dr. Richa Shukla*	Assistant Professor, Gr-I	Economics	25-Nov-2019
13	Prof. Santonu Sarkar	Professor	CS & IS	29-Nov-2019
14	Dr. Shashidhara Kotian	Assistant Professor, Gr-I	EEE	18-Dec-2019

* indicates Re-designation

Hyderabad Campus

List of Faculty members who joined between 01-01-2019 to 31-12-2019.

S.No.	Name	Designation	Department	Date of Joining
1	Himanshu Aggarwal	Assistant Professor, Gr-I	Chemistry	01-Feb-2019
2	Debopam Chakraborty	Assistant Professor, Gr-I	Mathematics	06-Feb-2019
3	Piyush Chandra Verma	Assistant Professor, Gr-I	Mechanical Engineering	02-Mar-2019
4	Nemiraja Jadiyahappa	Assistant Professor, Gr-I	Economics and Finance	13-Mar-2019
5	Gujji Murali Mohan Reddy	Assistant Professor, Gr-I	Mathematics	18-Mar-2019
6	Nirman Ganguly	Assistant Professor, Gr-I	Mathematics	01-Apr-2019
7	Nivedita Sinha	Assistant Professor, Gr-I	Economics and Finance	15-Apr-2019
8	Md Zakaria Siddiqui	Assistant Professor, Gr-I	HSS	13-May-2019
9	Anubhav Sinha	Assistant Professor, Gr-I	Mechanical Engineering	24-May-2019
10	Shreya Biswas	Assistant Professor, Gr-I	Economics and Finance	27-May-2019
11	Pratyusha Chattopadhyay	Assistant Professor, Gr-I	Mathematics	27-May-2019
12	Manjanna B	Assistant Professor, Gr-I	CS&IS	31-May-2019
13	Brajesh Kumar Panigrahi	Assistant Professor, Gr-I	Mechanical Engineering	15-Jul-2019
14	Manik Gupta	Assistant Professor, Gr-I	CS&IS	15-Jul-2019
15	Dipanjan Chakraborty	Assistant Professor, Gr-I	CS&IS	15-Jul-2019
16	Ankur Bhattacharjee	Assistant Professor, Gr-I	EEE	29-Jul-2019
17	Amit Ranjan Azad	Assistant Professor, Gr-II	EEE	30-Jul-2019
18	Pankaj Kumar	Assistant Professor, Gr-II	Chemical Engineering	31-Jul-2019
19	Ved Prakash Mishra	Visiting Professor	Chemical Engineering	01-Aug-2019
20	Sabyasachi Dey	Assistant Professor, Gr-I	Mathematics	10-Aug-2019
21	Vuppuluri Amol	Assistant Professor, Gr-I	Mechanical Engineering	13-Aug-2019
22	Kundan Kumar Singh	Assistant Professor, Gr-I	Mechanical Engineering	03-Sep-2019
23	K Bhargav Kumar	Assistant Professor, Gr-I	Mathematics	04-Sep-2019
24	Jaideep Chatterjee	Professor	Chemical Engineering	01-Oct-2019
25	Srimath Tirumala Pallerlamudi Srinivas	Assistant Professor, Gr-II	EEE	25-Nov-2019
26	Ramaswamy Venkatakrishnan	Assistant Professor, Gr-I	CS&IS	02-Dec-2019

List of Faculty members who Left the Institute between 01-01-2019 to 31-12-2019.

S.No.	Name of Faculty	Desig.	Date of Leaving	Reason
1	Manish Narwaria	Assistant Professor, Gr-I	10-May-19	Resignation
2	Shaikshavali Chitraganti	Assistant Professor, Gr-I	31-May-19	Resignation
3	Sri Kalyana Rama J	Visiting Faculty	17-Jul-19	Term Ended
4	Amit Ashok Vernekar	Assistant Professor, Gr-I	17-Jul-19	Resignation
5	Sunny Jose G	Associate Professor	16-Sep-19	Resignation
6	Anubhav Sinha	Assistant Professor, Gr-I	14-Dec-19	Resignation

Dubai Campus**List of Faculty members who joined between 01-01-2019 to 31-12-2019**

S.No.	Name of Faculty	Designation	Discipline	Date of Joining
1.	Nand Kumar	Visiting Faculty (Lecturer)	CS	06-Jan-19
2.	Nitin Simha Vihari Poluru	Assistant Professor	HSS	07-Jan-19
3.	Parizad Dngore	Visiting Assistant Professor	HSS	16-Jan-19
4.	Gulshan Kumar	Assistant Professor	ME	20-Jan-19
5.	Mahima Raina	Assistant Professor	HSS	28-Mar-19
6.	Vinnarasan Aruldoss	Assistant Professor	HSS	01-Apr-19
7.	Devika Sharma	Assistant Professor	HSS	02-Apr-19
8.	Shamshad Ahmad Khan	Assistant Professor	HSS	01-May-19
9.	Razia Sulthana	Visiting Assistant Professor	CS	30-Jun-19
10.	Tewfik Mahdi	Professor	CE	14-Jul-19
11.	Rahul Chengot Sankaramenon	Assistant Professor	CS	01-Sep-19
12.	Brij Kishor Pandey	Assistant Professor	CE	09-Sep-19
13.	Tamizharasan Periyasamy	Assistant Professor	CS	18-Sep-19

List of Faculty members who Left the Institute between 01-01-2019 to 31-12-2019

S.No.	Name of Faculty	Designation	Date of Leaving	Reason
1.	Srinivasa Rao	Associate Professor	03/01/2019	Resignation
2.	Rajib Ghosh	Assistant Professor	03/01/2019	Resignation
3.	Aiyaswami Natesa Prasad	Visiting Professor	11/08/2019	Term End
4.	Nand Kumar	Visiting Faculty (Lecturer)	31/07/2019	Term End
5.	Muralidharan Baladhandapani	Professor	31/10/2019	Other Separation
6.	Sridhar Gangaputhiran	Assistant Professor	26/12/2019	Resignation

**DETAILS OF DISTRIBUTION OF PS-I STUDENTS AND FACULTY OVER PRACTICE SCHOOL - I
STATIONS DURING THE SUMMER 2019**

S.No	CENTER_NAME	STATION_NAME	NO. OF STUDENT	NO. OF FACULTY
1	Ahmedabad	Adani Power	10	1*
		PGS Energy Services Pvt. Ltd.	5	1*
		Pharmalab India Pvt. Ltd.	9	1*
		Rajnagar Textile Mills (National Textile Corporation Ltd)	10	1*
		Viitorcloud Technologies Pvt. Ltd.	5	1*
2	Ajmer	National Highways Authority of India (NHAI)	7	1**
3	Amreli	Ultratech Cement Limited	9	1
4	Aurangabad	Aurangabad Electricals	10	1
5	Ballabgarh	NCCBM	19	1**
6	Bangalore	AlphaICs India Pvt. Ltd.	5	1**
		COUTURE AI PVT LTD. +	5	1**
		Edelweiss securities Ltd.	7	1**
		Faregeo Technologies	5	1**
		Fiabilite Network Solutions Pvt. Ltd.	5	1
		Goscale Technologies (SDOD Technologies Pvt. Ltd)	6	1**
		Grindwell Norton Ltd	5	1**
		HAL ROTARY WING	7	1**
		Happiest Minds	6	1**
		Heraizen Technologies Pvt. Ltd.	10	1**
		Indian Red Cross Society	10	1**
		Innoviti Payment Solutions Pvt. Ltd.	9	1
		Khyateh Consulting Pvt Ltd	10	1
		Letstransport (Diptab Ventures Pvt Ltd)	7	1**
		Numancia Aerospace Private Limited (Pixxel)	15	1**
		PASFEX Technologies Pvt. Ltd.	10	1**
		Power Grid Corporation of India Limited	5	1**
		Race2Cloud Technologies Pvt. Ltd.	5	1*
		SenSei Technologies Pvt.Ltd.	5	1
		SenZopt Technologies Pvt Ltd.	3	1*
		Sun Mobility +	5	1**
		VoiceQube	32	1**
		Zinnov Management Consulting +	2	1*
7	Bapatla (Near Amravati)	Andhra Pradesh Human Resource Development institute (APHRDI)	17	1**
8	Bharuch	Birla Cellulosic	7	1
9	Bhopal	New Bhopal Textile Mills Bhopal (National Textile Corporation Ltd)	16	1
10	Bhubaneswar	The Institute Of Minerals And Materials Technology	9	1*
11	Bilaspur	South Eastern Coalfields Limited	6	1*
12	Chandigarh	Gates India Pvt Ltd	5	1

S.No	CENTER_NAME	STATION_NAME	NO. OF STUDENT	NO. OF FACULTY
		PGS Energy Services Pvt. Ltd.	9	1*
13	Chandrapur	Awarpur Cement Works	5	1
		Manikgarh CEMENT	9	1*
14	Chennai	Belief Systems	5	1**
		BSCPL Infrastructure Ltd.	8	1
		Carborundum Universal Ltd.	9	1**
		Center for Medical Genetics	8	1
		Central Electronics Engineering Research Institute	20	1
		Central Leather Research Institute +	42	1*
		Chennai Metro Rail Limited	11	1
		Daimler India Commercial Vehicles	11	1*
		Ebek Language Laboratories Pvt. Ltd.	7	1**
		HTIC	4	1**
		Indian Red Cross Society (IRCS)	15	1**
		Integral Coach Factory	21	1**
		National Metallurgical Laboratory Madras Centre	5	1*
		Rane Trw Steering Systems Limited	4	1**
		Tamil Nadu eGovernance Agency	20	1**
		Tamilnadu Science and Technology Centre	9	1**
		Wheels India Ltd.	6	1**
15	Coimbatore	National Textile Corporation Limited (Regional Office)	5	1
		Southern Regional Office (NTCL)	10	1*
		ZF Windpower	5	1*
16	Dalla	Dalla Cement Works	4	1*
17	Damanjodi	National Aluminium Company Limited - Smelter Plant	26	1
18	Dehradun	Indian Institute Of Remote Sensing	20	1
19	Delhi	Indian Railways Organization for Alternate Fuels (IROAF)	14	1*
		Solar Energy Corporation of India	7	1**
20	Dhanbad	Bharat Coking Coal Limited (BCCL)	5	1
		CSIR-Central Institute of Mining and Fuel Research (CIMFR)	15	1*
21	Dhule	District Collector Office	3	1*
22	Faridabad	Aaress Auto Pvt.Ltd	6	1**
		Escorts	10	1**
		Gates India Pvt. Ltd.	4	1**
		IOCL R & D Centre	2	1**
		JBM Auto Ltd.	4	1**
		L&T MHPS Boilers Pvt. Ltd	7	1**
		Superseals India Ltd.	8	1**
23	Gandhinagar	Bhaskaracharya Institute For Space Applications And Geoinformatic	20	1
		Gujarat Environment Management Institute	9	1*
		Infibeam Avenues Ltd.	9	1*
		Institute of Seismological Research (ISR)	5	1*
24	Gauhati	Guwahati Refinery IOCL	19	1

S.No	CENTER_NAME	STATION_NAME	NO. OF STUDENT	NO. OF FACULTY
25	Ghaziabad	Tata Steel BSL Ltd.	13	1*
26	Goa	Cg Ppi Adhesive Products Ltd	3	1
		Department of Agriculture	5	1
		Funskool (india) Ltd.	8	1*
		Helix Techin Info Systems Pvt.Ltd	6	1*
		Helpage India	6	1*
		IFB Industries Limited +	4	1*
		Mormugao Port Trust	10	1
		National Centre For Antarctic And Ocean Research	13	1*
		National Institute of Oceanography	4	1*
		Orchid Bio Medical Systems	9	1
		Parinati Solutions Private Limited	8	1*
		Qualpro Diagnostics	9	1*
		Smartlink Holdings Ltd	6	1*
		Zephyr Biomedical	9	1*
27	Gurgaon	A. V. Engineers	10	1
		AlmaConnect +	8	1
		Concept Infracon Pvt. +	5	1*
		Convergent Technologies	7	1*
		Ecom Express Pvt. Ltd.	2	1*
		Maruti Suzuki India Limited	22	1*
		Power Grid Corporation of India	5	1*
		TKW Fasteners Pvt. Ltd	9	1*
28	Halol	Aditya Birla Insulators +	4	1
		CEAT Ltd.	3	1*
29	Haridwar	Renowed LifeSciences	3	1*
30	Harihar	Birla Polyfibers	7	1**
31	Hosur	Harita Fehrer Ltd.	3	1**
32	Hubballi	Deshpande Foundation	4	1**
33	Hyderabad	Analogics Tech India Ltd +	4	1
		CtrlS Data Centre Pvt Ltd	10	1
		Data M Intelligence 4 Market Research LLP +	10	1
		DRDO - CAS	3	1
		DRDO - RCI	10	1*
		EgnifyTechnologies +	6	1
		Eliptico IT Solutions Pvt. Ltd.	5	1*
		Enixta Innovations Pvt. Ltd.	5	1*
		Fountane Makerspace Pvt. Ltd	12	1*
		G.M.R. Varalakshmi Foundation	15	1
		H.B.L. Power Systems Ltd.	7	1*
		Helpage India	20	1*
		Hexagon Capability Center India Pvt. Ltd.	6	1*
		Indian Red Cross Society	5	1*
		L&T Metro Rail (Hyderabad) Ltd.	6	1*

S.No	CENTER_NAME	STATION_NAME	NO. OF STUDENT	NO. OF FACULTY
		L.V.Prasad Eye Institute	8	1*
		Market Data Forecast +	10	1*
		National Institute of Rural Development & Panchayati Raj	32	1*
		NCCCM	15	1*
		Pass Consulting	8	1*
		Preto Tooling Systems	9	1*
		RA Chem Pharma	7	1*
		Vidcentum R & D Pvt. Ltd.	6	1*
		Vodafone Idea Ltd	5	1*
		Telangana e-governance	41	1**
34	Jafrabad	Ultratech Cement Limited	6	1*
35	Jaggayapet	The Ramco Cements Ltd.	24	1**
36	Jaipur	BOSCH LIMITED	3	1
		CEERI	7	1
		Food Civil supplies and Consumer Affairs Department	4	1*
		IT Department Government of Rajasthan	9	1*
		Jaipur Development Authority	15	1*
		KEC International Ltd.	13	1*
		NBC Bearings +	6	1*
37	Jharsuguda	Sesa Sterlite Ltd. (Vedanta Aluminium & Power)	7	1
38	Jodhpur	Birla White Cements	12	1
		Regional Remote Sensing Centre	10	1*
39	Kalpakkam	Atomic Energy Regulatory Board (AERB)	4	1
		Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI)	5	1*
		Indira Gandhi Centre For Atomic Research (igcar)	50	1*
40	Karnal	Gupta Agro Industries	7	1
41	Kolkata	Allahabad Bank	13	1
		Delta Step Learning Pvt. Ltd	2	1**
		Department of Health & Family Welfare Govt. of West Bengal	9	1*
		Department of Planning Statistics and Program Implementation	11	1*
		Irrigation and Waste Water Department	10	1*
		Self Help Group Self Employment Department Government Of West Bengal	8	1*
		Texmaco Ltd.	3	1**
		Variable Energy Cyclotron Centre	4	1*
		West Bengal Traffic Police	9	1**
		West Bengal Transport Department Govt. of West Bengal	5	1*
42	Kota	Kota Super Thermal Power Station	15	1
43	Kotputli	Ultratech Cement Ltd.	8	1*
44	Lucknow	Board of revenue - UP Government	20	1
		Council of Science & Technology (CST)	20	1*
		Research design & Standards Organisation (RDSO)	10	1*
		UP -100 (Police Emergency Management System)	14	1*
45	Malkhed	Rajshree Cement	11	1

S.No	CENTER_NAME	STATION_NAME	NO. OF STUDENT	NO. OF FACULTY
46	Manesar	Honda Motorcycle & Scooter India Pvt. Ltd.	7	1
47	Mathura	Indian Oil	5	1**
48	Mehsana	Knack Packaging Pvt Ltd	3	1*
49	Mohali	Edifecs Technologies Private Ltd.	9	1
		IDS Infotech Ltd	10	1*
		Semi- conductor laboratoty	2	1*
		Vodafone Idea Ltd	4	1*
50	Mumbai	ACC Ltd.	3	1**
		Aditya Birla Science & Technology +	4	1**
		Aditya Jyot Eye Hospital	10	1
		Atomic Energy Regulatory Board	5	1
		Ben Line Agencies (india) Pvt. Ltd.	6	1*
		Cateina Technologies Pvt. Ltd.	13	1*
		Century Rayon +	19	1
		Edelweiss securities Ltd.	3	1**
		Henkel Loctite	4	1**
		Hindustan Petroleum Corporation Limited	6	1*
		Homi Bhabha Centre For Science Education	15	1*
		India United Mills No.5	10	1*
		Indian Oil Corporation Limited	10	1
		Indian Red Cross Society	9	1*
		L & T	5	1**
		Lenest	15	1*
		Makers Asylum	7	1**
		Mumbai Rail Vikas Corporation Ltd.	10	1**
		Podar Mills Mumbai (National Textile Corporation Ltd)	10	1*
		Regional Office (NTCL)	15	1*
		Samhita Social Ventures +	5	1*
		Strides Chemicals Pvt. Ltd.	5	1*
		Tata Mills-Dadar(National Textile Corporation Ltd)	10	1**
51	Nagda	Grasim Chemicals	9	1
		Grasim Industries Ltd +	51	1*
52	Nagpur	Geomitra Solutions LLP	6	18
		Kizora Software Pvt. Ltd.	12	1
		SeeTech Solutions	10	1*
53	Nandyal	Nandi Group of Companies	18	1
54	Narsapura (Karnataka)	Honda Motorcycle & Scooter India Pvt. Ltd.	5	1**
55	Nashik	Starlite Lighting Ltd.	5	1
56	Neemuch	Vikram Cement Works	11	1*
57	New Delhi	505 Army Base Workshop	30	1
		Centre for Railway Information Systems	10	1**
		Centre For Science and Environment	5	1
		CSIR-Institute of Genomics & Integrative Biology	20	1*
		G.M.R. Varalakshmi Foundation	7	1*

S.No	CENTER_NAME	STATION_NAME	NO. OF STUDENT	NO. OF FACULTY
		Indian Institute of Public Administration	10	1
		Indian Oil Corporation Limited	8	1**
		Indian Red Cross Society Blood Bank	24	1**
		Jaguar Overseas Ltd.	4	1*
		MapMyIndia +	16	1**
		National Textile Corporation Limited	13	1**
		Oil and Natural Gas Corporation Ltd	5	1*
		CEERI	6	1*
58	Noida	IMARC Services Pvt. Ltd.	18	1
		IOCL Pipelines Head office	1	1*
		Million Sparks Foundation	9	1*
		Noida Metro Rail Corporation (NMRC)	6	1**
		Samvardhana Motherson Adsys Tech Ltd.	6	1**
		TV Today Network Ltd.	5	1**
59	Pilani	Birla Science Centre	10	1**
		Central Electronics Engineering Research Institute +	52	1**
60	Pune	AFour Technologies Pvt. Ltd. +	6	1**
		APS Lifetech	7	1
		Bank of Maharashtra	25	1*
		Bharat Forge Ltd +	10	1
		Carraro India P Ltd.	10	1
		Divgi TorqTransfer Systems Pvt. Ltd Shivare	2	1**
		Divgi TorqTransfer Systems Pvt. Ltd. - Bhosari +	3	1**
		Indian meteorological department	15	1**
		Inter-university Centre For Astronomy And Astrophysics (iucca)	5	1*
		Liveweaver India Pvt.Ltd	16	1**
		Maritime Research Centre (MRC)	11	1
		National Chemical Laboratory +	7	1**
		Schindler India Pvt. Ltd.	8	1*
		Smart i Electronics Systems Pvt.Ltd	8	1*
		Tata Auto Comp Composite Division	5	1**
		Tata Motors Ltd. +	8	1**
		Yazaki India Ltd.	6	1**
61	Raipur	Rawan Cement Works	13	1*
62	Ranchi	Central Coalfields Limited	8	1*
		Central Mine Planning and Design Institute	6	1*
63	Reddipalayam	Reddipalayam Cement Works	9	1**
64	Renukoot	Birla Carbon India Pvt. Ltd.	2	1
		Hindalco Industries Limited	7	1*
65	Renusagar	Hindalco Industries Limited	9	1*
66	Rishra	Aditya Birla Insulator	3	1
67	Roorkee	Government Irrigation Workshop	18	1
68	Rourkela	Rourkela Steel Plant	62	1
69	Secunderabad	South Central Railway	9	1*

S.No	CENTER_NAME	STATION_NAME	NO. OF STUDENT	NO. OF FACULTY
70	Shambupura	Aditya Cement Works	10	1
71	Shimla	HelpAge India	7	1*
72	Sidhi (MP)	Sidhi Cement Works	5	1
73	Simga	Hirmi Cement Works	10	1
74	Solan (H.P.-	Baga Cement Works (Ultra Tech Cement Ltd.)	6	1
75	Sri ganganagar	Medanta	11	1
76	Srikalahasti (Near Tirupati)	Andhra Pradesh Human Resource Development institute (APHRDI)	9	1
77	Surat	Essar Steel India Ltd.	8	1*
		Finnacle Investment Academy	32	1*
		L & T Heavy Engineering	5	1*
78	Tadpathri	Ultratech Cement Limited	8	1
79	Tapukara (Rajasthan)	Honda Motorcycle & Scooter India Pvt. Ltd.	6	1*
80	Thane	Eclipse Instrumentation Pvt. Ltd.	8	1*
		Teksons Pvt. Ltd.	4	1*
81	Tirora	Adani Power	10	1
82	Trivandrum	Centre For Development Of Imaging Technology	7	1
		ISRO Inertial Systems Unit	5	1*
		Law Pundits LLP +	10	1*
		UST Global +	8	1*
83	Udaipur	Pyrotech Electronics Pvt. Ltd.	15	1*
84	Umiam	North Eastern Space Applications Centre	15	1
85	Vadodara	Cosmos Impex (India) Pvt.Ltd	7	1*
		Indian Oil Corporation Ltd.	8	1*
86	Vijayawada	Andhra Pradesh Innovation Society	2	1**
		AP Govt MeeSeva	4	1**
		E pragati	10	1**
		Efftronics Systems Pvt. Ltd.	9	1**
87	Vijaynagar	Jsw Energy	10	1**
		Jsw Steel	30	1**
88	Visakhapatnam	Sarda Metals & Alloys Ltd.	6	1
		Vishakapatnam Steel Plant	40	1*
		287	2846	116

* Faculty looking after more than one PS-I station

** PS-II Faculty looking after PS-I

+ PS-I organizations hosting PS-II also

SOME PRACTICE SCHOOL - II STATISTICS

Statistical Details of the Distribution of Students & Faculty over Practice School-II and Practice School (for Higher Degree) Stations during the year 2019

S.No	Stations	Second Semester 18-19 (06.01.2019- 18.06.2019)		First Semester 19-20 (04.07.2019- 14.12.2019)		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
Ahmedabad						
1.	Amazon Operations (Area manager)	1	1*	-	-	1
2.	Pfizer Ltd.	1	1*	-	-	1
Aurangabad						
3.	Skoda Auto India Pvt. Ltd.	2	1	2	1	4
Ballabgarh						
4.	National Council for Cement and Building Materials	3	1	6	1	9
Bangalore						
5.	Aditya Auto products & Engg (I) .P.Ltd.	1	1*	-	-	1
6.	Aditya Birla Fashion and Retail Ltd.	8	1*	-	-	8
7.	Aditya Birla Group -Data and Analytics	2	1*	5	1*	7
8.	Adobe Systems	5	1*	4	1*	9
9.	Aerchain	-	-	3	1*	3
10.	Altair Engineering India Pvt. Ltd. - Software Division	2	1	2	1*	4
11.	Amazon Area Manager	4	1*	-	-	4
12.	Amazon Development Center	24	1	23	1	47
13.	Amazon Professional Services	-	-	5	1*	5
14.	American Express - Big Data Labs (BDL)	3	1*	5	1*	8
15.	American Express - Technology	-	-	2	1*	2
16.	AmericanExpress-RiskInformation- Management-Capabilities(RIM-C)	4	1*	1	1*	5
17.	Analog Devices India Pvt. Ltd.	5	1*	-	-	5
18.	ARM Embedded Technologies Private Limited	2	1	5	1	7
19.	Aurigo Software Technologies	-	-	4	1*	4
20.	Avaamo	3	1*	4	1*	7
21.	belong.co	2	1*	3	1	5
22.	Blue Jeans Network India Pvt. Ltd.	5	1*	6	1*	11
23.	Bosch Research and Technology center	5	1*	-	-	5
24.	Bundl Technologies Private Limited (Swiggy) - Nontech	7	1*	25	1	32
25.	Bundl Technologies Private Limited (Swiggy) - Tech	7	1*	-	-	7
26.	Capillary Technologies - Testing Automation	4	1*	4	1*	8
27.	CIREL Systems	1	1*	-	-	1
28.	Cisco Systems (India) Pvt. Ltd - Software Engineering	40	1*	3	1*	43
29.	Cloudcherry Analytics Pvt Ltd	2	1	1	1	3
30.	Cohesity Storage Solutions India Pvt. Ltd.	2	1*	2	1*	4
31.	Couture AI +	3	1*	6	1*	9
32.	Cypress Semiconductor India Pvt Ltd.	7	1*	-	-	7
33.	Decision Resources Group	1	1*	-	-	1
34.	Dell R&D	7	1	6	1	13

S.No	Stations	Second Semester 18-19 (06.01.2019- 18.06.2019)		First Semester 19-20 (04.07.2019- 14.12.2019)		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
35.	eGovernments Foundation	2	1*	5	1	7
36.	EnSci - A Unit of Weir Minerals India Pvt. Ltd.	2	1	-	-	2
37.	Ericsson Global India Pvt. Ltd.	1	1*	-	-	1
38.	Ernst & Young Global Delivery Services	1	1*	3	1*	4
39.	Ernst & Young Technology	3	1*	-	-	3
40.	Fidelity Investments	3	1*	5	1*	8
41.	Flipkart	7	1*	1	1*	8
42.	Flipkart Internet Services Pvt. Ltd	12	1*	-	-	12
43.	Genpact	8	1*	21	1	29
44.	Goldman Sachs - Investment Banking	3	1	4	1*	7
45.	Goldman Sachs - IT	2	1*	-	-	2
46.	Goldman Sachs India Pvt. Ltd. - Operations	-	-	9	1*	9
47.	Goodera (NextGen PMS Pvt. Ltd)- Non IT	10	1*	2	1*	12
48.	Goodera (NextGen PMS) - IT	3	1*	-	-	3
49.	Groww - Business Analyst	-	-	2	1*	2
50.	Groww - Software Development	-	-	3	1*	3
51.	HAPPAY (VA Tech Ventures Pvt Ltd.)	1	1*	7	1*	8
52.	HealthCubed	1	1*	-	-	1
53.	Hindustan Unilever Research Centre	7	1*	10	1	17
54.	Holiday IQ- Tech	2	1*	-	-	2
55.	HSBC Electronic Data Processing India Pvt. Ltd.	8	1*	-	-	8
56.	HSBC Global Analytics Centers	3	1*	-	-	3
57.	IBM Security - Fiberlink	6	1*	6	1*	12
58.	IMS Health	15	1*	-	-	15
59.	Infinera	4	1*	2	1*	6
60.	Ingersoll Rand India Ltd	4	1*	-	-	4
61.	InMobi - Software Development	3	1*	-	-	3
62.	InMobi- Business Development	29	1	11	1*	40
63.	Intel India Technology	29	1	12	1	41
64.	J P Morgan Services - GKN-CCB Risk	2	1*	-	-	2
65.	J P Morgan Services Ltd - GKN Research - Corporate Risk Management	1	1*	-	-	1
66.	JDA Software Solutions	3	1	16	1	19
67.	John F Welch Technology Center (GE)	9	1*	7	1*	16
68.	JP Morgan Chase - Technology	1	1*	14	1	15
69.	JP Morgan Services - GKN Model Risk Governance & Review â€ Finance	-	-	2	1*	2
70.	JP Morgan Services - GKN Risk Analytics â€ Finance	-	-	2	1*	2
71.	Juniper Networks	2	1*	-	-	2
72.	KPMG	1	1*	-	-	1
73.	Kristal.AI	-	-	4	1*	4
74.	Kruzer Mobility Technology Solutions Pvt. Ltd.	-	-	4	1*	4
75.	Lavelle Networks	1	1*	-	-	1
76.	Lenskart	2	1	6	1	8
77.	Lightplane Technologies India Pvt. Ltd	1	1*	-	-	1
78.	Loweâ€™ Services India Pvt. Ltd.	-	-	5	1*	5
79.	MapMyIndia	-	-	2	1*	2
80.	MathWorks India Private Limited	2	1*	-	-	2
81.	Maybank Labs Pvt. Ltd.	5	1*	3	1*	8

S.No	Stations	Second Semester 18-19 (06.01.2019- 18.06.2019)		First Semester 19-20 (04.07.2019- 14.12.2019)		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
82.	Mech Mocha Internet Pvt. Ltd.	-	-	6	1*	6
83.	MediaTek Bangalore Pvt. Ltd.	6	1*	-	-	6
84.	Mentor Graphics	-	-	1	1	1
85.	Mercedes Benz	12	1*	6	1	18
86.	MiQ Digital India Pvt. Ltd.	3	1*	3	1	6
87.	Morgan Stanley Advantage Services	3	1*	-	-	3
88.	National Aerospace Laboratories	1	1*	-	-	1
89.	National Centre for Biological Sciences	4	1	2	1	6
90.	National Instruments India Sales	2	1*	-	-	2
91.	National Instruments Systems (India) Pvt. Ltd.	3	1*	1	1*	4
92.	NetApp	5	1*	-	-	5
93.	Netcore Solutions	1	1*	-	-	1
94.	NetSkope Software India Pvt. Ltd.	4	1*	-	-	4
95.	Nreach Online Services Pvt. Ltd.	2	1	3	1	5
96.	Nutanix Technologies India Pvt. Ltd.	17	1*	14	1*	31
97.	Nvidia Graphics - Hardware	26	1	9	1	35
98.	Nvidia Graphics -Software	8	1*	4	1*	12
99.	Oyo Rooms (Tech)	-	-	10	1*	10
100.	PAYPAL	9	1*	-	-	9
101.	Petasense - Services & App Development	2	1	3	1*	5
102.	PricewaterhouseCoopers (PWC)	-	-	1	1*	1
103.	Publicis Sapiant	5	1*	20	1*	25
104.	PwC DIAC US Advisory	1	1*	-	-	1
105.	Qualcomm India Pvt Ltd- Bangalore	17	1	-	-	17
106.	Qubole	14	1*	8	1*	22
107.	Reliance Jio	4	1*	-	-	4
108.	Robert Bosch Center for Cyber Physical Systems	2	1	2	1	4
109.	Samsung R & D Institute	37	1*	-	-	37
110.	Samsung Semiconductor India R&D Center- Hardware	17	1*	14	1*	31
111.	Sattva Media & Consulting Pvt Ltd	1	1*	3	1	4
112.	Searce	2	1*	-	-	2
113.	Shell Technology Center	2	1*	3	1*	5
114.	Siemens technology and Services Pvt ltd	6	1*	-	-	6
115.	StateStreet Global Advisors	2	1*	-	-	2
116.	Strand Life Sciences Pvt Ltd	2	1*	-	-	2
117.	Sun Mobility +	2	1	5	1*	7
118.	Symantec Software Solutions Pvt. Ltd.	-	-	2	1*	2
119.	TapChief	3	1	4	1*	7
120.	Tata Consultancy Services	-	-	2	1*	2
121.	Tejas Networks	2	1*	-	-	2
122.	TESCO Hindustan Service Centre	2	1*	5	1*	7
123.	Texas Instruments (I) Pvt. Ltd - Systems	3	1*	2	1*	5
124.	Texas Instruments (I) Pvt. Ltd. -Analog	3	1*	3	1*	6
125.	Texas Instruments (I) Pvt. Ltd. -Digital	1	1*	1	1*	2
126.	Think and learn	-	-	5	1*	5
127.	Thinkerbell Labs - Developer	-	-	2	1*	2
128.	Thinkerbell Labs - Electronics	4	1*	2	1*	6
129.	Thinkerbell Labs - Mechanical Design	-	-	1	1*	1
130.	Thinkerbell Labs - Partnerships	-	-	3	1*	3

S.No	Stations	Second Semester 18-19 (06.01.2019- 18.06.2019)		First Semester 19-20 (04.07.2019- 14.12.2019)		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
131.	Thorogood	4	1*	2	1*	6
132.	Udaan	4	1*	29	1	33
133.	Udhyan Learning Foundation	-	-	1	1*	1
134.	Unnati	1	1*	-	-	1
135.	Vitor Healthsciences Pvt. Ltd.	2	1	3	1	5
136.	VMware Software India Pvt. Ltd.	5	1	5	1	10
137.	Walmart Global Technology Services	4	1*	-	-	4
138.	Wealth India Financial Services Pvt. Ltd	1	1*	-	-	1
139.	Western Digital (SANDISK)	17	1*	-	-	17
140.	William O Neil India Pvt Ltd	3	1*	1	1*	4
141.	Zendrive India Pvt Ltd	5	1*	5	1*	10
142.	Zeotap India Pvt. Ltd.	3	1*	6	1	9
143.	Zinnov Management Consulting Pvt. Ltd (IT Project)	1	1*	3	1*	4
144.	Zinnov Management Consulting Pvt. Ltd.+	6	1	18	1*	24
Bilaspur (Gurgaon)						
145.	Amazon Operations (Area Manager)	2	1*	-	-	2
Chennai						
146.	Amazon Development Center	5	1*	1	1	6
147.	Amazon Operations (Area Manager)	2	1*	-	-	2
148.	Central Leather Research Institute (CLRI)+	5	1	1	1	6
149.	Dell R & D	2	1*	-	-	2
150.	Door Sabha Nigam Ltd.	-	-	1	1	1
151.	Ericsson Global India Pvt. Ltd.	-	-	2	1*	2
152.	Fidelity Investments	-	-	3	1*	3
153.	FreshWorks Inc	1	1*	-	-	1
154.	Healthcare Technology Innovation Centre (HTIC)	5	1*	5	1*	10
155.	Linarc India Pvt. Ltd.	-	-	1	1*	1
156.	PAYPAL	-	-	3	1*	3
157.	Paypal	12	1	-	-	12
158.	Pfizer Ltd.	5	1*	-	-	5
159.	UST Global- Chennai	-	-	5	1*	5
160.	Wabco India Pvt. Ltd	1	1*	-	-	1
Cochin						
161.	UST Global - Business Domain(Cochin)	1	1*	-	-	1
162.	UST Global - Cochin	1	1*	3	1*	4
Dahej						
163.	Tega Industries SEZ Ltd	1	1*	2	1*	3
Dehradun						
164.	Indian Institute of Petroleum	-	-	2	1*	2
Delhi						
165.	Solar Energy Corporation of India	-	-	1	1*	1
166.	Udaan	-	-	2	1*	2
167.	Amazon Development Center	8	1*	-	-	8
168.	BLS International Services Limited	3	1*	-	-	3
169.	DMI Finance Private Limited	1	1*	4	1*	5
170.	Ecom Express Pvt. Ltd. - Data Science	2	1*	6	1*	8
171.	GMR Infrastructure Ltd.	3	1*	-	-	3
172.	Goodera (Next Gen PMS) (Non IT)	1	1*	-	-	1
173.	LEA Associates	2	1*	-	-	2

S.No	Stations	Second Semester 18-19 (06.01.2019- 18.06.2019)		First Semester 19-20 (04.07.2019- 14.12.2019)		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
174.	Mapmy India +	-	-	3	1*	3
175.	myHQ & (JustWork Technologies Pvt. Ltd.) Tech	-	-	2	1*	2
176.	National Council of Applied Economic Research	2	1	2	1*	4
177.	National Institute of Science and Tech. Dev. Studies (NISTADS)	1	1	1	1*	2
178.	PricewaterhouseCoopers (PWC)	5	1*	-	-	5
179.	Sattva Media and Consulting Pvt Ltd	-	-	1	1*	1
Goa						
180.	GMR Infrastructure Ltd.	2	1*	-	-	2
181.	IFB Industries +	5	1	10	1	15
Greater noida						
182.	ST Microelectronics(I) Pvt.Ltd.	-	-	1	1	1
Gurgaon						
183.	AlmaConnect +	-	-	9	1*	9
184.	Amazon Operations (Area Manager)	2	1*	-	-	2
185.	American Express - Capabilities EDA	-	-	3	1*	3
186.	American Express - Machine Learning & Artificial Intelligence	-	-	1	1*	1
187.	American Express - Technology	-	-	2	1*	2
188.	American Express India-Risk Information Management-Capabilities(RIM-C)	5	1	2	1	7
189.	Concept Infracon Pvt. Ltd. +	1	1*	-	-	1
190.	Decision Resources Group	4	1*	-	-	4
191.	Futures First- Financial Market & Research (Quant)	2	1*	-	-	2
192.	GroupM Media India Pvt Ltd. Location	-	-	2	1*	2
193.	IMS Health	6	1*	-	-	6
194.	Kochar Tech	-	-	2	1*	2
195.	KPMG	4	1*	-	-	4
196.	MM Aqua Technologies Ltd.	2	1*	-	-	2
197.	OfBusiness	1	1	2	1	3
198.	OYO Non Tech	2	1*	-	-	2
199.	OYO Tech	10	1*	17	1*	27
200.	Pluss Advanced Technologies Pvt. Ltd.	1	1*	-	-	1
201.	PricewaterhouseCoopers (PWC)	-	-	3	1*	3
202.	Ramboll India Pvt. Ltd.	2	1*	-	-	2
203.	Resonance Data	-	-	1	1*	1
204.	Rivigo Non Tech	4	1*	-	-	4
205.	Rivigo Tech	7	1*	-	-	7
206.	shipsy	-	-	5	1*	5
207.	ShortHills Tech Pvt. Ltd	-	-	1	1*	1
208.	Skoda Auto India Pvt. Ltd.	1	1	-	-	1
209.	Splash Math	-	-	4	1*	4
210.	SRF Ltd.	4	1	6	1	10
211.	Zinnov Management Consulting Pvt. Ltd.	1	1*	5	1*	6
212.	Zomato Media Private Limited	-	-	1	1*	1
Halol						
213.	Aditya Birla Insulators +	7	1	3	1	10
Hosur						
214.	Faiveley Transport Rail Technologies India Ltd (FTRTIL)	-	-	2	1*	2

S.No	Stations	Second Semester 18-19 (06.01.2019- 18.06.2019)		First Semester 19-20 (04.07.2019- 14.12.2019)		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
Hyderabad						
215.	Amazon Development Center	20	1*	4	1*	24
216.	Amazon Operations (Area Manager)	2	1*	-	-	2
217.	Analogics Tech India Ltd. +	2	1*	-	-	2
218.	Apple India Pvt Limited	14	1	7	1	21
219.	Arup India Pvt. Ltd.	3	1*	-	-	3
220.	DataM Intelligene 4Market research +	3	1*	3	1	6
221.	Divami Design Labs	-	-	1	1*	1
222.	EA Games India Pvt. Ltd.	1	1*	-	-	1
223.	Egnify Technologies +	1	1	3	1*	4
224.	Futures First Info Services Pvt Ltd	-	-	2	1*	2
225.	GE Appliances	-	-	1	1*	1
226.	GenY medium	-	-	2	1*	2
227.	GEP	-	-	2	1*	2
228.	GGK Technologies (Software Development)	4	1*	-	-	4
229.	GMR Infrastructure Ltd	2	1*	-	-	2
230.	iB Hubs	-	-	1	1*	1
231.	IMI Mobile R&D	5	1*	12	1	17
232.	IMIdigital R&D	2	1*	2	1*	4
233.	Intel India Technology	6	1*	-	-	6
234.	JDA Software Solutions	2	1*	8	1*	10
235.	JPMC - Technology	1	1*	5	1*	6
236.	MAQ Software	1	1*	-	-	1
237.	Market Data Forecast +	2	1	8	1	10
238.	Market Data Forecast (Marketing Associate)	3	1*	-	-	3
239.	MathWorks India Pvt. Ltd.	5	1*	-	-	5
240.	Mol De Analytics	-	-	1	1*	1
241.	National Council for Cement and Building Materials	-	-	2	1*	2
242.	Novartis	1	1*	-	-	1
243.	Novartis Healthcare Pvt. Ltd.	-	-	8	1*	8
244.	Nvidia Graphics - Hardware	2	1*	-	-	2
245.	OYO Tech	5	1*	8	1*	13
246.	PricewaterhouseCoopers (PWC)	2	1*	1	1*	3
247.	Qualcomm India Pvt Ltd.	8	1	-	-	8
248.	RACEnergy	-	-	1	1*	1
249.	Reliance Jio	2	1*	-	-	2
250.	ReportGarden Technologies Pvt. LTd.	1	1	16	1	17
251.	Servicenow Software Development India	6	1*	19	1*	25
252.	Synergiz Global	2	1*	-	-	2
253.	Synopsys India Pvt. Ltd.	3	1*	2	1*	5
254.	Taxilla Info Pvt. Ltd.	1	1*	-	-	1
255.	UBER	2	1*	4	1*	6
256.	UBS Business Solutions (India) Private Limited - Group Operations	2	1*	-	-	2
257.	Udaan	-	-	1	1*	1
258.	VCTIP Pvt. Ltd. (Market Data Forecast) Research Associate	3	1*	-	-	3
259.	WCB Robotics	2	1*	-	-	2
260.	Worley Parsons India	-	-	1	1	1
261.	Xilinx India Technology Services Pvt. Ltd.	2	1	3	1	5

S.No	Stations	Second Semester 18-19 (06.01.2019- 18.06.2019)		First Semester 19-20 (04.07.2019- 14.12.2019)		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
Indore						
262.	Techture Structures	-	-	1	1*	1
Jaipur						
263.	Angara ecommerce pvt. ltd	1	1*	-	-	1
264.	CEG Limited	4	1*	-	-	4
265.	Futures First Info Services Pvt. Ltd.	-	-	3	1*	3
266.	NBC Bearings +	2	1	-	-	2
Jamshedpur						
267.	Tata Motors Ltd.	1	1*	-	-	1
Jodalli						
268.	Spicer India Ltd.	1	1*	-	-	1
Kalyani						
269.	Tega Industries Ltd.	1	1*	-	-	1
Kolkata						
270.	Futures First - Financial Market & Research (Quant)	2	1*	-	-	2
271.	Tega Industries	-	-	2	1*	2
272.	Texmaco Rail & Engineering Ltd.	2	1	1	1	3
Mumbai						
273.	Aditya Birla Science & Technology Company Ltd. +	3	1*	2	1*	5
274.	Amazon Operations (Area Manager)	2	1*	-	-	2
275.	Ashoka Buildcon Ltd	3	1*	-	-	3
276.	Ayro Retail Solutions Pvt. Ltd.	3	1*	1	1*	4
277.	Baldor Technologies Pvt Ltd	5	1*	5	1*	10
278.	Century Rayon +	2	1*	4	1*	6
279.	Citec Engineering India Pvt. Ltd	2	1*	-	-	2
280.	Cogoport - Non Tech	-	-	10	1*	10
281.	Cogoport (Tech)	-	-	2	1*	2
282.	Credit Suisse - Credit Analytics	5	1*	8	1*	13
283.	Credit Suisse - Enterprise Operational Risk Management	3	1*	1	1*	4
284.	Credit Suisse - Equity Research	-	-	4	1*	4
285.	Credit Suisse - GBIS	-	-	2	1*	2
286.	Credit Suisse - Global Market Risk Management	7	1*	9	1*	16
287.	Credit Suisse - Global Markets (BC&E Efficiency & Analysis)	-	-	1	1*	1
288.	Credit Suisse - Global Markets Controls COO	4	1*	2	1*	6
289.	Credit Suisse - GM Trading Risk	1	1*	-	-	1
290.	Credit Suisse - International Wealth Management	2	1*	-	-	2
291.	Credit Suisse - Prime Services	6	1*	3	1*	9
292.	Credit Suisse - Product Control	-	-	1	1*	1
293.	Credit Suisse - Risk & Finance Data Analytics Reporting	3	1*	7	1*	10
294.	Credit Suisse - Technology	-	-	1	1*	1
295.	DBOI - Business Finance	-	-	5	1*	5
296.	DBOI - Counterparty Credit Ratings	-	-	6	1*	6
297.	DBOI - Credit Risk	6	1*	-	-	6
298.	DBOI - GVG	-	-	2	1*	2
299.	DBOI - Market Data Strategy and Analytics	-	-	1	1*	1

S.No	Stations	Second Semester 18-19 (06.01.2019- 18.06.2019)		First Semester 19-20 (04.07.2019- 14.12.2019)		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
300.	DBOI - Market Risk Analysis & Control	-	-	8	1*	8
301.	DBOI - MLRM Risk Methodology & NFRM	8	1*	-	-	8
302.	DBOI - Risk Metrics Quality Assurance and Analysis	-	-	1	1*	1
303.	DBOI - Trading Risk & PL	5	1*	-	-	5
304.	Development Consultants Pvt. Ltd. (DCPL)	-	-	2	1*	2
305.	Dorsch Consult (India) Pvt. Ltd.	2	1*	2	1*	4
306.	Girish Enterprises Pvt. Ltd.	1	1*	2	1*	3
307.	Goodera - (Next Gen) (Non IT)	1	1*	-	-	1
308.	GP Petroleums Ltd	-	-	4	1*	4
309.	Grasim Industries Pulp and Fibre Division	1	1*	2	1*	3
310.	Haptik	-	-	3	1*	3
311.	HDFC Life	2	1*	-	-	2
312.	Here Maps - Distributed Data	5	1	14	1	19
313.	Hindalco Innovation Centre - Semifab Taloja	1	1	2	1*	3
314.	Hourglass Research	1	1*	3	1*	4
315.	J P Morgan Services - GKN Markets	1	1*	-	-	1
316.	J P Morgan Services - GKN-CCB Risk	1	1*	-	-	1
317.	J P Morgan Services Ltd - Finance	1	1*	-	-	1
318.	J P Morgan Services Ltd - GKN Quant	1	1*	-	-	1
319.	J P Morgan Services Ltd - GKN Research - Corporate Risk Management	3	1*	-	-	3
320.	J P Morgan Services Ltd - GMG & Quant	5	1*	-	-	5
321.	J P Morgan Services Ltd - GRC- GKN Global Research	10	1*	-	-	10
322.	JP Morgan Services - GKN Banking (CRG) â€¦ Finance	-	-	15	1	15
323.	JP Morgan Services - GKN Banking (CRG) â€¦ Fintech	-	-	2	1*	2
324.	JP Morgan Services - GKN Data Science â€¦ Fintech	-	-	2	1*	2
325.	JP Morgan Services - GKN Global Research (GRC) â€¦ Finance	-	-	9	1*	9
326.	JP Morgan Services - GKN Markets & Treasury Risk â€¦ Finance	-	-	7	1*	7
327.	JP Morgan Services - GKN Markets (GMG) â€¦ Finance	-	-	4	1*	4
328.	JP Morgan Services - GKN Quantitative Research â€¦ Fintech	-	-	6	1*	6
329.	JP Morgan Services GKN Global Research (GRC) â€¦ Fintech	-	-	2	1*	2
330.	JPMC - Technology	1	1*	7	1*	8
331.	LogisticsNow	-	-	1	1*	1
332.	Morgan Stanley Advantage Services	4	1*	-	-	4
333.	Morning Star - Index Management and Analytics	-	-	1	1*	1
334.	Morning Star - Index New Product Development	-	-	1	1*	1
335.	Morning Star - Index Operations	-	-	1	1*	1
336.	Morning Star - Indexes Product Operations (Product Management)	-	-	1	1*	1
337.	Morningstar - Index Technology	7	1	1	1*	8
338.	MSCI - Applied Data Intelligence	-	-	2	1*	2
339.	MSCI - Equity Core Research - Data Science	-	-	2	1*	2

S.No	Stations	Second Semester 18-19 (06.01.2019- 18.06.2019)		First Semester 19-20 (04.07.2019- 14.12.2019)		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
340.	MSCI - Performance IT - Index	-	-	1	1*	1
341.	MSCI (IMR)	2	1*	1	1*	3
342.	MSCI (NPD & Index Research)	2	1	1	1	3
343.	MSCI Technology & Development	1	1*	-	-	1
344.	Netcore Solutions	2	1*	-	-	2
345.	NIVEA	-	-	1	1*	1
346.	Nomura - FinTech	1	1*	2	1*	3
347.	Nomura - Wholesale Strategy	1	1*	1	1*	2
348.	Nomura Global Finance	6	1*	4	1	10
349.	Nomura Global Markets	4	1*	5	1*	9
350.	Nomura Global Risk	5	1*	6	1*	11
351.	Oyo Rooms - Non tech	1	1*	-	-	1
352.	Piramal Group	5	1*	8	1*	13
353.	PricewaterhouseCoopers (PWC)	2	1*	3	1*	5
354.	PwC DIAC US Advisory	6	1*	-	-	6
355.	QUANTIPHI	5	1*	6	1	11
356.	Reliance Jio	2	1*	-	-	2
357.	Samhita Social Ventures +	1	1*	-	-	1
358.	Skoda Auto India Pvt. Ltd.	4	1	9	1*	13
359.	Thornton Tomasetti	2	1*	-	-	2
360.	UBS - Group RISK	2	1*	-	-	2
361.	UBS Business Solutions (India) Private Limited - RAS FINANCE	3	1*	4	1*	7
362.	UBS Business Solutions(India)PrivateLimited- Group Operations	4	1*	2	1*	6
363.	UPGRAD	3	1*	5	1*	8
364.	Viacom18 Media Pvt. Ltd - Corporate Strategy	1	1*	1	1*	2
365.	Viacom18 Media Pvt. Ltd - Digital Ventures	4	1	5	1	9
366.	VMS (Vakil Mehta Seth) Consultants Private Limited	3	1*	-	-	3
367.	Worley Parsons India	1	1*	2	1*	3
368.	Ascent Health and Wellness Solutions Private Limited	2	1*	-	-	2
369.	Credit Suisse- Investment Banking and Capital Markets	4	1*	2	1*	6
Nagda						
370.	Grasim Industries Ltd. +	2	1*	2	1*	4
Nagpur						
371.	Techure Structures (IT)	-	-	2	1*	2
372.	Techure Structures Pvt Ltd.	1	1*	1	1	2
373.	GEP	-	-	2	1*	2
Noida						
374.	Adobe Systems	3	1*	1	1*	4
375.	Amity Software Systems Ltd.	2	1*	-	-	2
376.	ASA Industries	-	-	5	1*	5
377.	BIS Research Pvt. Ltd. - NonTech	-	-	6	1*	6
378.	Cadence Design Systems	1	1*	-	-	1
379.	Indiamart Intermesh Ltd.	3	1*	-	-	3
380.	Nucleus Software Export Ltd	6	1	15	1	21
381.	Samsung R&D Institute India-Delhi (SRI-D)	4	1*	-	-	4
382.	Society for Health Information Systems Programme	5	1	1	1*	6

S.No	Stations	Second Semester 18-19 (06.01.2019- 18.06.2019)		First Semester 19-20 (04.07.2019- 14.12.2019)		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
Norway						
383.	Yale University	-	-	2	1*	2
Pilani						
384.	Central Electronics Engineering Research Institute +	2	1	1	1	3
Pune						
385.	AFour Technologies +	1	1*	6	1*	7
386.	B.G.Shirke Construction Technology Pvt. Ltd.	2	1*	2	1*	4
387.	Bajaj Auto	7	1*	-	-	7
388.	Bharat Forge Ltd +	2	1	4	1	6
389.	Credit Suisse - Business Control	1	1*	-	-	1
390.	Credit Suisse - Group Finance - FMAR Transition Management	1	1*	-	-	1
391.	Credit Suisse - Information Technology	4	1*	-	-	4
392.	Credit Suisse - Risk & Finance Data Analytics Reporting	2	1*	6	1*	8
393.	Credit Suisse- Finance Change	2	1*	5	1*	7
394.	DAR AI-Handasah	6	1*	-	-	6
395.	DBOI	5	1*	2	1*	7
396.	Divgi TorqTransfer Systems Pvt. Ltd. - Bhosari +	1	1	2	1	3
397.	Espressif Systems	2	1	-	-	2
398.	Gabriel India Ltd	-	-	2	1*	2
399.	IBM Security - Fiberlink	6	1*	3	1*	9
400.	IDeaS - SAS - Software Development	4	1	6	1	10
401.	JW Consultants	2	1*	-	-	2
402.	Knorr-Bremse Technology Center India Private Limited	-	-	2	1	2
403.	Mahle Anand Thermal System (Formerly Mahle Behr India Pvt Ltd)	1	1*	-	-	1
404.	National Chemical Laboratory +	2	1	1	1	3
405.	Nvidia Graphics - Software Systems	4	1*	-	-	4
406.	PharmaACE	4	1*	-	-	4
407.	Reflexis Systems India Pvt Ltd.	6	1*	12	1*	18
408.	Siemens PLM Software	2	1	13	1	15
409.	Skoda Auto India Pvt. Ltd. (Chakan)	-	-	1	1*	1
410.	Spicer India Ltd.	-	-	7	1*	7
411.	Symphony Fintech Solutions Pvt. Ltd.	1	1*	3	1*	4
412.	Tata Autocomp Systems Ltd.	3	1*	-	-	3
413.	Tata Chemical Innovation Center	4	1*	2	1*	6
414.	Tata Motors Ltd. +	7	1*	3	1*	10
415.	Tata Technologies	5	1*	-	-	5
416.	UBS Business Solutions (India) Private Limited - Finance Group	8	1*	6	1*	14
417.	UBS Business Solutions (India) Private Limited - Group Operations	2	1	8	1	10
418.	UBS Business Solutions (India) Private Limited - RAS FINANCE	9	1*	9	1*	18
419.	VMware Software India Pvt. Ltd.	2	1*	-	-	2
420.	Whirlpool	4	1*	-	-	4
421.	ZiMetrics Technologies Pvt. Ltd.	2	1	3	1*	5
Sanand						

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		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
422.	Tata Motors Ltd.	-	-	3	1	3
Sirsi						
423.	Divgi TorqTransfer Systems Pvt. Ltd.	1	1*	1	1*	2
Sonipat (Delhi)						
424.	Amazon Operations (Area Manager)	2	1*	-	-	2
Trivandrum						
425.	UST Global Infinity Labs-Robotics	5	1	18	1	23
426.	Klientas	-	-	1	1*	1
427.	Law Pundits +	1	1*	-	-	1
428.	UST Global +	1	1*	8	1*	9
USA						
429.	MedNetOne	-	-	1	1*	1
Vijayawada						
430.	Andhra Pradesh Capital Region Development Authority (APCRDA)	4	1*	-	-	4
		1293		1217		2510

+Stations hosting PS-I also

*Faculty looking after more than one PS-II Station

PRACTICE SCHOOL GROWTH STATISTICS

PRACTICE SCHOOL-I

Session	No. of students who attended PS-I	No. of faculty who supervised PS-I	No. of PS-I stations
Summer 1973	15	04	01
Summer 1974	89	17	09
Summer 1975	244	26	14
Summer 1976	355	33	28
Summer 1977	349	32	38
Summer 1978	335	35	38
Summer 1979	474	45	53
Summer 1980	397	34	42
Summer 1981	372	33	36
Summer 1982	462	39	44
Summer 1983	476	43	49
Summer 1984	491	40	52
Summer 1985	514	42	52
Summer 1986	507	38	49
Summer 1987	497	35	49
Summer 1988	552	42	59
Summer 1989	574	42	58
Summer 1990	572	46	63
Summer 1991	530	43	62
Summer 1992	625	53	78
Summer 1993	648	56	87
Summer 1994	612	55	81
Summer 1995	607	54	80
Summer 1996	648	54	89
Summer 1997	628	53	86
Summer 1998	638	53	87
Summer 1999	568	42	73
Summer 2000	656	52	85
Summer 2001	770	52	100
Summer 2002	807	52	98
Summer 2003	861	60	115
Summer 2004	861	57	95
Summer 2005	840	54	83
Summer 2006	1376	68	129
Summer 2007	1340	79	138
Summer 2008	1399	72	133
Summer 2009	1355	68	121
Summer 2010	1926	95	204
Summer 2011	2065	107	203
Summer 2012	2036	105	183
Summer 2013	2081	74	178
Summer 2014	2038	93	170
Summer 2015	2096	107	182
Summer 2016	2184	100	182
Summer 2017	2192	111	197
Summer 2018	2119	103	205
Summer 2019	2846	116	287

PRACTICE SCHOOL-II FOR INTEGRATED FIRST DEGREE

Semesters	No. of students who attended PS-II	No. of faculty who supervised PS-II	No. of PS-II stations
Second Sem. 72-73	10	04	01
First Sem. 73-74	12	04	01
Second Sem. 73-74	12	08	01
First Sem.74-75	36	05	06
Second Sem. 74-75	56	15	09
First Sem.75-76	31	06	05
Second Sem. 75-76	75	12	15
First Sem.76-77	121	18	15
Second Sem. 76-77	110	21	18
First Sem.77-78	151	16	16
Second Sem. 77-78	159	19	20
First Sem.78-79	166	23	20
Second Sem. 78-79	171	23	26
First Sem. 79-80	159	25	23
Second Sem. 79-80	153	25	22
First Sem.80-81	183	27	25
Second Sem. 80-81	195	26	28
First Sem.81-82	181	28	30
Second Sem. 81-82	184	27	31
First Sem.82-83	208	26	32
Second Sem. 82-83	212	23	34
First Sem.83-84	213	30	31
Second Sem. 83-84	200	23	35
First Sem.84-85	217	30	34
Second Sem. 84-85	213	37	41
First Sem. 85-86	239	33	41
Second Sem. 85-86	231	34	46
First Sem.86-87	248	36	47
Second Sem. 86-87	249	40	45
First Sem.87-88	231	40	48
Second Sem. 87-88	232	36	46
First Sem.88-89	274	39	51
Second Sem. 88-89	269	30	51
First Sem.89-90	275	31	49
Second Sem. 89-90	272	32	49
First Sem.90-91	272	30	49
Second Sem. 90-91	274	29	57
First Sem. 91-92	306	32	62
Second Sem. 91-92	297	36	66
First Sem.92-93	297	38	68
Second Sem. 92-93	281	34	69
First Sem.93-94	311	36	69
Second Sem. 93-94	314	38	79
First Sem.94-95	335	36	80
Second Sem. 94-95	344	35	79
First Sem.95-96	330	43	84
Second Sem. 95-96	323	40	91
First Sem.96-97	321	42	92
Second Sem. 96-97	323	43	89
First Sem.97-98	320	42	86

Semesters	No. of students who attended PS-II	No. of faculty who supervised PS-II	No. of PS-II stations
Second Sem. 97-98	330	42	87
First Sem.98-99	317	36	82
Second Sem. 98-99	327	37	89
First Sem. 1999-2000	324	42	84
Second Sem. 1999-2000	335	42	91
First Sem. 2000-2001	347	43	85
Second Sem. 2000-2001	336	44	93
First Sem. 2001-2002	330	43	88
Second Sem. 2001-2002	349	36	84
First Sem. 2002-2003	400	40	99
Second Sem. 2002-2003	406	43	93
First Sem. 2003-2004	427	42	88
Second Sem. 2003-2004	426	43	88
First Sem. 2004-2005	456	44	94
Second Sem. 2004-2005	459	46	101
First Sem. 2005-2006	499	53	110
Second Sem. 2005-2006	470	48	113
First Sem. 2006-2007	458	46	103
Second Sem. 2006-2007	570	53	128
First Sem. 2007-2008	708	53	153
Second Sem. 2007-2008	763	54	165
First Sem. 2008-2009	864	54	174
Second Sem. 2008-2009	730	61	193
First Sem. 2009-2010	862	62	194
Second Sem. 2009-2010	871	66	229
First Sem. 2010-2011	897	62	219
Second Sem. 2010-2011	874	69	261
First Sem. 2011-2012	1085	72	259
Second Sem. 2011-2012	1087	63	273
First Sem. 2012-2013	1190	64	256
Second Sem 2012-2013	1147	63	263
First Sem 2013-2014	1127	60	246
Second Sem 2013-2014	1128	49	244
First Sem 2014-2015	1138	48	221
Second Sem 2014-2015	1107	45	208
First Sem 2015-2016	1078	46	179
Second Sem 2015-2016	760	51	172
First Sem 2016-2017	1070	57	162
Second Sem 2016-2017	812	57	168
First Sem 2017-2018	1174	57	226
Second Sem 2017-2018	787	54	218
First Sem. 2018-2019	1204	56	259
Second Sem 2018-2019	870	61	320
First Sem. 2019-2020	1215	63	276

PRACTICE SCHOOL FOR HIGHER DEGREE

Semesters	No. of students who attended PS	No. of faculty who supervised PS	No. of PS stations where Higher Degree students were also sent
Second Sem. 91-92	18	09	12
First Sem.92-93	39	19	20
Second Sem. 92-93	41	19	21
First Sem.93-94	35	16	17
Second Sem. 93-94	41	11	15
First Sem.94-95	43	18	22
Second Sem. 94-95	45	17	17
First Sem.95-96	53	29	36
Second Sem. 95-96	52	27	35
First Sem.96-97	60	25	36
Second Sem. 96-97	55	25	33
First Sem.97-98	45	21	28
Second Sem. 97-98	56	22	29
First Sem.98-99	38	20	28
Second Sem. 98-99	46	19	24
First Sem. 1999-2000	62	26	34
Second Sem. 1999-2000	63	26	33
First Sem. 2000-2001	39	23	27
Second Sem. 2000-2001	50	26	36
First Sem. 2001-2002	85	23	27
Second Sem. 2001-2002	100	27	39
First Sem. 2002-2003	69	25	35
Second Sem. 2002-2003	46	20	22
First Sem. 2003-2004	02	02	02
Second Sem. 2003-2004	59	22	27
First Sem. 2004-2005	43	11	16
Second Sem. 2004-2005	88	20	32
First Sem. 2005-2006	46	16	19
Second Sem. 2005-2006	95	22	31
First Sem. 2006-2007	50	18	24
Second Sem. 2006-2007	111	30	47
First Sem. 2007-2008	55	23	31
Second Sem. 2007-2008	129	41	67
First Sem. 2008-2009	63	35	53
Second Sem. 2008-2009	174	48	84
First Sem. 2009-2010	38	18	21
Second Sem. 2009-2010	146	40	78
First Sem. 2010-2011	63	29	41
Second Sem. 2010-2011	181	42	96
First Sem. 2011-2012	78	29	44
Second Sem. 2011-2012	230	40	105
First Sem. 2012-2013	72	22	34
Second Sem 2012-2013	217	16	75
First Sem 2013-2014	2	4	2
Second Sem 2013-2014	217	35	88
First Sem 2014-2015	0	0	0
Second Sem 2014-2015	32	12	14
First Sem 2015-2016	2	1	1
Second Sem 2015-2016	239	43	85
First Sem 2016-2017	0	0	0
Second Sem 2016-2017	284	45	88
First Sem 2017-2018	0	0	0
Second Sem 2017-2018	261	41	104
First Sem. 2018-2019	0	0	0
Second Sem 2018-2019	423	52	133
First Sem. 2019-2020	2	2	2

+ It may be noted that the faculty members and PS stations indicated in this table are common to that of integrated First Degree PS-II Programme and thus numbers shown under the columns 3 and 4 are subsets of the respective columns of table "PRACTICE SCHOOL - II FOR INTEGRATED FIRST DEGREE" given above.

FACILITIES AVAILABLE AT PS-II STATIONS DURING THE YEAR 2019

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
Ahmedabad				
1.	Amazon Operations (Area manager)	40000	No	Initial 15 days accommodation and 7 days cab on request.
2.	Pfizer Ltd.	12500	No	No
Aurangabad				
3.	Skoda Auto India Pvt. Ltd.	8000	No	No
Ballabgarh				
4.	National Council for Cement and Building Materials	10000	No	No
Bangalore				
5.	Aditya Auto products & Engg (I) .P.Ltd.	20000	Accommodation provided by the organization (only for boys)	Free Company Bus
6.	Aditya Birla Fashion and Retail Ltd.	20000	No	Initial 15 days accommodation
7.	Aditya Birla Group -Data and Analytics	30000	No	No
8.	Adobe Systems	50000	No	Free Lunch First Class Rail Fare Company will provide accommodation for initial 14 days.
9.	Aerchain	20000	No	No
10.	Altair Engineering India Pvt. Ltd. - Software Division	21500	No	No
11.	Amazon Area Manager	40000	No	Air Fare
12.	Amazon Development Center	45000	No	No
13.	Amazon Professional Services	45000	No	No
14.	American Express - Big Data Labs (BDL)	100000	No	No
15.	American Express - Technology	100000	No	No
16.	AmericanExpress-RiskInformation-Management-Capabilities(RIM-C)	30000	No	No
17.	Analog Devices India Pvt. Ltd.	25000	No	No
18.	ARM Embedded Technologies Private Limited	28000	No	Subsidised Lunch
19.	Aurigo Software Technologies	35000	No	No
20.	Avaamo	75000	No	No
21.	belong.co	25000	No	No
22.	Blue Jeans Network India Pvt. Ltd.	50000	No	Free Breakfast & Lunch
23.	Bosch Research and Technology center	30000	No	No
24.	Bundl Technologies Private Limited (Swiggy) - Nontech	40000	No	No
25.	Bundl Technologies Private Limited (Swiggy) - Tech	40000	No	Free Air Fare, 2 weeks accommodation and flight travel to Bangalore at the start of PS
26.	Capillary Technologies - Testing Automation	35000	No	No
27.	CIREL Systems	25000	No	No
28.	Cisco Systems (India) Pvt. Ltd - Software Engineering	44000	No	No
29.	Cloudcherry Analytics Pvt Ltd	30000	No	No
30.	Cohesity Storage Solutions India Pvt. Ltd.	90000	No	Subsidised Lunch & Breakfast
31.	Couture AI	50000	No	No
32.	Cypress Semiconductor India Pvt Ltd.	25000	No	No
33.	Decision Resources Group	25000	No	No

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
34.	Dell R&D	30000	No	Canteen available
35.	eGovernments Foundation	30000	No	No
36.	EnSci - A Unit of Weir Minerals India Pvt. Ltd.	20000	No	No
37.	Ericsson Global India Pvt. Ltd.	35000	No	Subsidised Canteen Facilities
38.	Ernst & Young Global Delivery Services	40000	No	No
39.	Ernst & Young Technology	80000	No	No
40.	Fidelity Investments	50000	No	Company will provide accommodation for initial 2 weeks Company will provide INR 15,000 one time travel allowance
41.	Flipkart	50000	No	(1) Rs. 2200/- per month food card. (2) Company Sponsored Accommodation for 15 days on Twin Sharing basis. (3) College/Hometown to PS Station 2 Way Airfare.
42.	Flipkart Internet Services Pvt. Ltd	50000	No	No
43.	Genpact	18000	No	No
44.	Goldman Sachs - Investment Banking	120000	No	No
45.	Goldman Sachs - IT	75000	No	No
46.	Goldman Sachs India Pvt. Ltd. - Operations	35000	No	No
47.	Goodera (NextGen PMS Pvt. Ltd)- Non IT	41000	No	No
48.	Goodera (NextGen PMS) - IT	75000	No	No
49.	Groww - Business Analyst	26000	No	No
50.	Groww - Software Development	51000	No	No
51.	HAPPAY (VA Tech Ventures Pvt Ltd.)	40000	No	No
52.	HealthCubed	15000	No	No
53.	Hindustan Unilever Research Centre	20000	No	No
54.	Holiday IQ- Tech	30000	No	No
55.	HSBC Electronic Data Processing India Pvt. Ltd.	40000	No	Two way ticket & 14 days accommodation apart from the stipend
56.	HSBC Global Analytics Centers	40000	No	No
57.	IBM Security - Fiberlink	30000	No	No
58.	IMS Health	20000	No	Subsidised Food
59.	Infinera	35000	No	No
60.	Ingersoll Rand India Ltd	15000	No	No
61.	InMobi - Software Development	40000	No	Free Breakfast, Lunch & Dinner
62.	InMobi- Business Development	35000	No	No
63.	Intel India Technology	30000	No	No
64.	J P Morgan Services - GKN-CCB Risk	50000	No	No
65.	J P Morgan Services Ltd - GKN Research - Corporate Risk Management	50000	No	No
66.	JDA Software Solutions	25000	No	No
67.	John F Welch Technology Center (GE)	25000	No	No
68.	JP Morgan Chase - Technology	35500	No	No
69.	JP Morgan Services - GKN Model Risk Governance & Review - Finance	50000	No	No
70.	JP Morgan Services - GKN Risk Analytics - Finance	50000	No	No
71.	Juniper Networks	31800	No	Subsidised Food
72.	KPMG	15000	No	No
73.	Kristal.AI	50000	No	Free Lunch
74.	Kruzr Mobility Technology Solutions Pvt. Ltd.	25000	No	No
75.	Lavelle Networks	30000	No	No

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
76.	Lenskart	25000	No	No
77.	Lightplane Technologies India Pvt. Ltd	35000	No	No
78.	Loweâ€™ Services India Pvt. Ltd.	40000	No	Rs. 160 per day for food
79.	MapMyIndia	50000	No	No
80.	MathWorks India Private Limited	35000	No	Initial 2 weeks accommodation for outstation students
81.	Maybank Labs Pvt. Ltd.	35000	No	No
82.	Mech Mocha Internet Pvt. Ltd.	60000	Accommodation provided by the organization (for boys and girls)	No
83.	MediaTek Bangalore Pvt. Ltd.	33000	No	No
84.	Mentor Graphics	30000	No	No
85.	Mercedes Benz	25000	No	No
86.	MiQ Digital India Pvt. Ltd.	35000	No	No
87.	Morgan Stanley Advantage Services	87000	No	No
88.	National Aerospace Laboratories	0	No	No
89.	National Centre for Biological Sciences	0	No	No
90.	National Instruments India Sales	20000	No	No
91.	National Instruments Systems (India) Pvt. Ltd.	30000	No	Subsidised Lunch
92.	NetApp	35000	No	Subsidised Food, Initial 2 weeks accommodation
93.	Netcore Solutions	40000	No	No
94.	NetSkope Software India Pvt. Ltd.	40000	No	Subsidised Breakfast, Lunch & Dinner
95.	Nreach Online Services Pvt. Ltd.	20000	No	Free Breakfast & Lunch
96.	Nutanix Technologies India Pvt. Ltd.	90000	No	No
97.	Nvidia Graphics - Hardware	35000	No	Free Lunch
98.	Nvidia Graphics -Software	35000	No	Free Lunch, Air Fare, Company Bus
99.	Oyo Rooms (Tech)	45000	No	No
100.	PAYPAL	50000	No	Subsidised Breakfast, Lunch & Dinner
101.	Petasense - Services & App Development	40000	No	No
102.	PricewaterhouseCoopers (PWC)	40000	No	No
103.	Publicis Sapient	35000	Accommodation provided by the organization (for boys and girls)	Subsidised Breakfast, Lunch & Dinner, Company Bus at Cost
104.	PwC DIAC US Advisory	50000	No	No
105.	Qualcomm India Pvt Ltd- Bangalore	30000	No	No
106.	Qubole	90000	No	Initial one week accommodation
107.	Reliance Jio	35000	No	Outstation students will be eligible for a housing allowance of INR 8000 per month
108.	Robert Bosch Center for Cyber Physical Systems	10000	No	No
109.	Samsung R & D Institute	50000	No	Free Canteen Facility, Onward and Return Economy airfare over and above 500 kms from Bangalore OR 1st class A/C train fare up

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
				to 500 kms of distance from Bangalore
110.	Samsung Semiconductor India R&D Center-Hardware	35000	Accommodation provided by the organization (for boys and girls)	Free Breakfast & Lunch, We would provide flight tickets if the distance is above 500kms if the distance is less than 500kms we would reimburse train / bus tickets
111.	Sattva Media & Consulting Pvt Ltd	18000	No	No
112.	Searce	35000	No	No
113.	Shell Technology Center	20000	No	No
114.	Siemens technology and Services Pvt ltd	40000	No	No
115.	StateStreet Global Advisors	40000	No	No
116.	Strand Life Sciences Pvt Ltd	25000	No	Free CanteenFacility
117.	Sun Mobility	15000	No	No
118.	Symantec Software Solutions Pvt. Ltd.	40000	No	No
119.	TapChief	15000	No	No
120.	Tata Consultancy Services	20000	No	No
121.	Tejas Networks	30000	No	No
122.	TESCO Hindustan Service Centre	30000	No	No
123.	Texas Instruments (I) Pvt. Ltd - Systems	40000	No	No
124.	Texas Instruments (I) Pvt. Ltd. -Analog	40000	No	No
125.	Texas Instruments (I) Pvt. Ltd. -Digital	40000	No	No
126.	Think and learn	40000	No	No
127.	Thinkerbell Labs - Developer	25000	No	No
128.	Thinkerbell Labs - Electronics	25000	No	No
129.	Thinkerbell Labs - Mechanical Design	25000	No	No
130.	Thinkerbell Labs - Partnerships	25000	No	No
131.	Thorogood	32000	No	No
132.	Udaan	35000	No	No
133.	Udhyam Learning Foundation	20000	No	No
134.	Unnati	0	Free Accommodation	Free Food
135.	Vitor Healthsciences Pvt. Ltd.	20000	No	No
136.	VMware Software India Pvt. Ltd.	35000	No	Subsidised Food
137.	Walmart Global Technology Services	30000	No	No
138.	Wealth India Financial Services Pvt. Ltd	30000	No	No
139.	Western Digital (SANDISK)	35000	No	Sodexos INR 2200 Per Month
140.	William O Neil India Pvt Ltd	40000	No	No
141.	Zendrive India Pvt Ltd	60000	No	Lunch provided
142.	Zeotap India Pvt. Ltd.	65000	No	No
143.	Zinnov Management Consulting Pvt. Ltd (IT Project)	30000	No	No
144.	Zinnov Management Consulting Pvt. Ltd.	18000	No	No
Bilaspur (Gurgaon)				
145.	Amazon Operations (Area Manager)	40000	No	Air Fare, Company Bus, Initial 15 days accommodation
Chennai				
146.	Amazon Development Center	45000	No	No
147.	Amazon Operations (Area Manager)	40000	No	Air Fare, Company Bus, Initial 15 days accommodation
148.	Central Leather Research Institute (CLRI)	0	No	No
149.	Dell R & D	30000	No	No

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
150.	Door Sabha Nigam Ltd.	25000	No	No
151.	Ericsson Global India Pvt. Ltd.	35000	No	No
152.	Fidelity Investments	50000	No	No
153.	FreshWorks Inc	25000	No	Free Canteen Facility, Initial one week of accommodation
154.	Healthcare Technology Innovation Centre (HTIC)	10000	No	No
155.	Linarc India Pvt. Ltd.	25000	No	No
156.	PAYPAL	50000	No	No
157.	Paypal	50000	No	Subsidised Canteen Facilities, Company Bus, Initial one week accommodation
158.	Pfizer Ltd.	12000	No	No
159.	UST Global- Chennai	20000	No	No
160.	Wabco India Pvt. Ltd	18000	No	No
Cochin				
161.	UST Global - Business Domain(Cochin)	20000	No	No
162.	UST Global - Cochin	20000	No	No
Dahej				
163.	Tega Industries SEZ Ltd	15000	No	No
Dehradun				
164.	Indian Institute of Petroleum	0	No	No
Delhi				
165.	Solar Energy Corporation of India	5000	No	No
166.	Udaan	35000	No	No
167.	Amazon Development Center	45000	No	Subsidised Canteen Facilities, Initial two weeks accommodation, To and Fro Tickets from Hometown to PS II will be given.
168.	BLS International Services Limited	20000	No	No
169.	DMI Finance Private Limited	35000	No	No
170.	Ecom Express Pvt. Ltd. - Data Science	30000	No	No
171.	GMR Infrastructure Ltd.	20000	No	No
172.	Goodera (Next Gen PMS) (Non IT)	40000	No	Subsidised Canteen Facilities @ Rs. 600 p.m
173.	LEA Associates	10000	No	No
174.	Mapmy India	50000	No	No
175.	myHQ & (JustWork Technologies Pvt. Ltd.) Tech	15000	No	Subsidised Lunch
176.	National Council of Applied Economic Research	6500	No	No
177.	National Institute of Science and Tech. Dev. Studies (NISTADS)	3000	No	No
178.	PricewaterhouseCoopers (PWC)	40000	No	No
179.	Sattva Media and Consulting Pvt Ltd	18000	No	No
Goa				
180.	GMR Infrastructure Ltd.	20000	No	No
181.	IFB Industries	15000	No	No
Greater noida				
182.	ST Microelectronics(I) Pvt.Ltd.	26000	No	No
Gurgaon				
183.	AlmaConnect	35000	No	Pre-Placement offer in case of good performance
184.	Amazon Operations (Area Manager)	40000	No	Air Fare, Company Bus, Initial 15 days accommodation

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
185.	American Express - Capabilities EDA	30000	No	No
186.	American Express - Machine Learning & Artificial Intelligence	100000	No	No
187.	American Express - Technology	100000	No	No
188.	American Express India-Risk Information Management-Capabilities(RIM-C)	30000	No	No
189.	Concept Infracon Pvt. Ltd.	0	No	No
190.	Decision Resources Group	25000	No	No
191.	Futures First- Financial Market & Research (Quant)	20000	No	No
192.	GroupM Media India Pvt Ltd. Location	35000	No	No
193.	IMS Health	20000	No	Subsidised Food
194.	Kochar Tech	20000	No	No
195.	KPMG	15000	No	No
196.	MM Aqua Technologies Ltd.	15000	No	No
197.	OfBusiness	40000	No	No
198.	OYO Non Tech	30000	No	Subsidised Food, Accommodation provided initial 7 days
199.	OYO Tech	45000	No	Subsidised Lunch, Initially one week Accommodation
200.	Pluss Advanced Technologies Pvt. Ltd.	18000	No	No
201.	PricewaterhouseCoopers (PWC)	40000	No	No
202.	Ramboll India Pvt. Ltd.	10000	No	No
203.	Resonance Data	30000	No	One week free accommodation during the start.
204.	Rivigo Non Tech	35000	No	No
205.	Rivigo Tech	70000	No	Subsidised Lunch
206.	shipsy	30000	No	No
207.	ShortHills Tech Pvt. Ltd	40000	No	No
208.	Skoda Auto India Pvt. Ltd.	8000	No	No
209.	Splash Math	32000	No	No
210.	SRF Ltd.	18000	No	No
211.	Zinnov Management Consulting Pvt. Ltd.	15000	No	No
212.	Zomato Media Private Limited	25000	No	No
Halol				
213.	Aditya Birla Insulators	15000	No	No
Hosur				
214.	Faiveley Transport Rail Technologies India Ltd (FTRTIL)	15000	No	No
Hyderabad				
215.	Amazon Development Center	45000	No	No
216.	Amazon Operations (Area Manager)	40000	No	Air Fare, Company Bus, Initial 15 days accommodation
217.	Analogics Tech India Ltd.	10000	No	No
218.	Apple India Pvt Limited	45000	No	No
219.	Arup India Pvt. Ltd.	20000	No	No
220.	DataM Intelligene 4Market research	15000	No	No
221.	Divami Design Labs	10000	No	No
222.	EA Games India Pvt. Ltd.	30000	No	Initial 15 days accommodation & food coupons Rs. 2200 Medical Insurance upto 1 lac
223.	Egnify Technologies	20000	No	No
224.	Futures First Info Services Pvt Ltd	40000	No	No
225.	GE Appliances	20000	No	No
226.	GenY medium	12000	No	No

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
227.	GEP	30000	No	No
228.	GGK Technologies (Software Development)	20000	No	No
229.	GMR Infrastructure Ltd	20000	No	No
230.	iBÂ Hubs	15000	No	No
231.	IMI Mobile R&D	35000	No	No
232.	IMIdigital R&D	35000	No	No
233.	Intel India Technology	30000	No	No
234.	JDA Software Solutions	25000	No	No
235.	JPMC - Technology	35500	No	No
236.	MAQ Software	25000	No	No
237.	Market Data Forecast	12000	No	No
238.	Market Data Forecast (Marketing Associate)	12000	No	No
239.	MathWorks India Pvt. Ltd.	35000	No	Initial two weeks acco. for outstation students
240.	Mol De Analytics	50000	No	No
241.	National Council for Cement and Building Materials	10000	No	No
242.	Novartis	25000	No	No
243.	Novartis Healthcare Pvt. Ltd.	30000	No	No
244.	Nvidia Graphics - Hardware	35000	No	No
245.	OYO Tech	45000	No	No
246.	PricewaterhouseCoopers (PWC)	40000	No	No
247.	Qualcomm India Pvt Ltd.	30000	No	No
248.	RACEnergy	12000	No	No
249.	Reliance Jio	35000	No	No
250.	ReportGarden Technologies Pvt. LTd.	25000	No	No
251.	Servicenow Software Development India	35000	No	No
252.	Synergiz Global	15000	No	No
253.	Synopsys India Pvt. Ltd.	20000	No	No
254.	Taxilla Info Pvt. Ltd.	20000	No	No
255.	UBER	30000	No	15000 for house rent allowance
256.	UBS Business Solutions (India) Private Limited - Group Operations	25000	No	Subsidised Canteen Facilities
257.	Udaan	35000	No	No
258.	VCTIP Pvt. Ltd. (Market Data Forecast) Research Associate	15000	No	No
259.	WCB Robotics	25000	No	No
260.	Worley Parsons India	19000	No	No
261.	Xilinx India Technology Services Pvt. Ltd.	20000	No	No
Indore				
262.	Techure Structures	15000	No	No
Jaipur				
263.	Angara ecommerce pvt. ltd	20000	No	No
264.	CEG Limited	12500	No	No
265.	Futures First Info Services Pvt. Ltd.	20000	No	No
266.	NBC Bearings	4000	No	free food and acco. provided by organization. Also possibility of PPO
Jamshedpur				
267.	Tata Motors Ltd.	18000	No	Subsidised Canteen Facilities
Jodalli				
268.	Spicer India Ltd.	8000	No	No
Kalyani				
269.	Tega Industries Ltd.	15000	accom. will be provided at nominal rates subjected to availability	No

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
Kolkata				
270.	Futures First - Financial Market & Research (Quant)	40000	No	No
271.	Tega Industries	15000	No	No
272.	Texmaco Rail & Engineering Ltd.	4000	No	No
Mumbai				
273.	Aditya Birla Science & Technology Company Ltd.	10000	No	No
274.	Amazon Operations (Area Manager)	40000	No	Air Fare, Company Bus, Initial 15 days accommodation
275.	Ashoka Buildcon Ltd	10000	No	No
276.	Ayro Retail Solutions Pvt. Ltd.	50000	No	No
277.	Baldor Technologies Pvt Ltd	45000	No	No
278.	Century Rayon	7500	Accommodation provided by the organization (for boys and girls)	Subsidised Breakfast, Lunch & Dinner
279.	Citec Engineering India Pvt. Ltd	12000	No	No
280.	Cogoport - Non Tech	30000	No	No
281.	Cogoport (Tech)	60000	No	No
282.	Credit Suisse - Credit Analytics	40000	No	No
283.	Credit Suisse - Enterprise Operational Risk Management	40000	No	No
284.	Credit Suisse - Equity Research	40000	No	No
285.	Credit Suisse - GBIS	40000	No	No
286.	Credit Suisse - Global Market Risk Management	40000	No	No
287.	Credit Suisse - Global Markets (BC&E Efficiency & Analysis)	40000	No	No
288.	Credit Suisse - Global Markets Controls COO	40000	No	No
289.	Credit Suisse - GM Trading Risk	40000	No	No
290.	Credit Suisse - International Wealth Management	40000	No	No
291.	Credit Suisse - Prime Services	40000	No	No
292.	Credit Suisse - Product Control	40000	No	No
293.	Credit Suisse - Risk & Finance Data Analytics Reporting	40000	No	No
294.	Credit Suisse - Technology	40000	No	No
295.	DBOI - Business Finance	30000	No	No
296.	DBOI - Counterparty Credit Ratings	30000	No	No
297.	DBOI - Credit Risk	30000	No	Subsidised Canteen Facilities
298.	DBOI - GVG	30000	No	No
299.	DBOI - Market Data Strategy and Analytics	30000	No	No
300.	DBOI - Market Risk Analysis & Control	30000	No	No
301.	DBOI - MLRM Risk Methodology & NFRM	30000	No	Subsidised Canteen Facilities
302.	DBOI - Risk Metrics Quality Assurance and Analysis	30000	No	No
303.	DBOI - Trading Risk & PL	30000	No	Subsidised Canteen Facilities
304.	Development Consultants Pvt. Ltd. (DCPL)	8500	Accommodation provided by the organization (only for boys)	No
305.	Dorsch Consult (India) Pvt. Ltd.	12000	No	No
306.	Girish Enterprises Pvt. Ltd.	15000	No	No
307.	Goodera - (Next Gen) (Non IT)	40000	No	Subsidised Canteen Facilities
308.	GP Petroleums Ltd	20000	No	No
309.	Grasim Industries Pulp and Fibre Division	17000	No	No
310.	Haptik	30000	No	No
311.	HDFC Life	40000	No	No
312.	Here Maps - Distributed Data	30000	No	No

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
313.	Hindalco Innovation Centre - Semifab Taloja	10000	No	No
314.	Hourglass Research	17000	No	No
315.	J P Morgan Services - GKN Markets	75000	No	No
316.	J P Morgan Services - GKN-CCB Risk	50000	No	No
317.	J P Morgan Services Ltd - Finance	50000	No	No
318.	J P Morgan Services Ltd - GKN Quant	75000	No	No
319.	J P Morgan Services Ltd - GKN Research - Corporate Risk Management	50000	No	No
320.	J P Morgan Services Ltd - GMG & Quant	50000	No	No
321.	J P Morgan Services Ltd - GRC- GKN Global Research	40000	No	No
322.	JP Morgan Services - GKN Banking (CRG) â€	50000	No	No
323.	JP Morgan Services - GKN Banking (CRG) â€	50000	No	No
324.	JP Morgan Services - GKN Data Science â€	100000	No	No
325.	JP Morgan Services - GKN Global Research (GRC) â€	75000	No	No
326.	JP Morgan Services - GKN Markets & Treasury Risk â€	75000	No	No
327.	JP Morgan Services - GKN Markets (GMG) â€	75000	No	No
328.	JP Morgan Services - GKN Quantitative Research â€	100000	No	No
329.	JP Morgan Services GKN Global Research (GRC) â€	75000	No	No
330.	JPMC - Technology	35500	No	No
331.	LogisticsNow	25000	No	performance bonus upto Rs. 10,000/-
332.	Morgan Stanley Advantage Services	87000	No	No
333.	Morning Star - Index Management and Analytics	40000	No	No
334.	Morning Star - Index New Product Development	40000	No	No
335.	Morning Star - Index Operations	40000	No	No
336.	Morning Star - Indexes Product Operations (Product Management)	40000	No	No
337.	Morningstar - Index Technology	40000	No	No
338.	MSCI - Applied Data Intelligence	40000	No	No
339.	MSCI - Equity Core Research - Data Science	40000	No	No
340.	MSCI - Performance IT - Index	40000	No	No
341.	MSCI (IMR)	40000	No	No
342.	MSCI (NPD â€	40000	No	No
343.	MSCI Technology & Development	40000	No	No
344.	Netcore Solutions	40000	No	No
345.	NIVEA	10000	No	Free Lunch & Subsidised Breakfast
346.	Nomura - FinTech	75000	No	Subsidised Canteen Facilities, Free Air Fare, Company Bus at Cost
347.	Nomura - Wholesale Strategy	75000	No	Subsidised Canteen Facilities, Free Air Fare, Company Bus at Cost
348.	Nomura Global Finance	75000	No	Subsidised Canteen Facilities, To & Fro Air Fare, Company Bus
349.	Nomura Global Markets	75000	No	Subsidised Canteen Facilities, Free Air Fare, Company bus
350.	Nomura Global Risk	75000	No	Subsidised Canteen Facilities, Free Air

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
				Fare, Fare, Company bus
351.	Oyo Rooms - Non tech	30000	No	No
352.	Piramal Group	70000	No	Air-travel to/from hometown to PS-II station
353.	PricewaterhouseCoopers (PWC)	40000	No	No
354.	PwC DIAC US Advisory	50000	No	No
355.	QUANTIPHI	50000	No	Subsidised Food
356.	Reliance Jio	35000	No	No
357.	Samhita Social Ventures	18000	No	No
358.	Skoda Auto India Pvt. Ltd.	14000	No	No
359.	Thornton Tomasetti	15000	No	No
360.	UBS - Group RISK	25000	No	No
361.	UBS Business Solutions (India) Private Limited - RAS FINANCE	25000	No	No
362.	UBS Business Solutions(India)PrivateLimited-Group Operations	25000	No	No
363.	UPGRAD	40000	No	No
364.	Viacom18 Media Pvt. Ltd - Corporate Strategy	30000	No	No
365.	Viacom18 Media Pvt. Ltd - Digital Ventures	30000	No	No
366.	VMS (Vakil Mehta Seth) Consultants Private Limited	10000	No	No
367.	Worley Parsons India	19000	No	No
368.	Ascent Health and Wellness Solutions Private Limited	35000	No	No
369.	Credit Suisse- Investment Banking and Capital Markets	40000	No	No
Nagda				
370.	Grasim Industries Ltd.	8500	No	No
Nagpur				
371.	Techture Structures (IT)	25000	No	No
372.	Techture Structures Pvt Ltd.	15000	No	No
373.	GEP	30000	No	No
Noida				
374.	Adobe Systems	50000	No	No
375.	Amity Software Systems Ltd.	37500	No	No
376.	ASA Industries	20000	Accommodation provided by the organization (for boys and girls)	Subsidised Food
377.	BIS Research Pvt. Ltd. - NonTech	17500	No	No
378.	Cadence Design Systems	15000	No	Subsidised Lunch, Free Company Bus
379.	Indiamart Intermesh Ltd.	25000	No	No
380.	Nucleus Software Export Ltd	30000	No	No
381.	Samsung R&D Institute India-Delhi (SRI-D)	35000	No	No
382.	Society for Health Information Systems Programme	10000	No	No
Norway				
383.	Yale University	600	Accommodation provided by the organization (for boys and girls)	No
Pilani				
384.	Central Electronics Engineering Research Institute	0	Accommodation arranged by the institute (for boys and girls)	Subsidised Canteen Facilities
Pune				
385.	AFour Technologies	35000	No	For office transportation Subsidised cab is available on certain

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
				routes in the city. Also At times students may have to contribute on Saturdays.
386.	B.G.Shirke Construction Technology Pvt. Ltd.	10000	No	No
387.	Bajaj Auto	20000	No	No
388.	Bharat Forge Ltd	7500	No	No
389.	Credit Suisse - Business Control	40000	No	No
390.	Credit Suisse - Group Finance - FMAR Transition Management	40000	No	No
391.	Credit Suisse - Information Technology	40000	No	No
392.	Credit Suisse - Risk & Finance Data Analytics Reporting	40000	No	No
393.	Credit Suisse- Finance Change	40000	No	No
394.	DAR Al-Handasah	9000	No	No
395.	DBOI	30000	No	No
396.	Divgi TorqTransfer Systems Pvt. Ltd. - Bhosari	12500	No	No
397.	Espressif Systems	21000	No	No
398.	Gabriel India Ltd	8000	No	No
399.	IBM Security - Fiberlink	30000	No	No
400.	IDeaS - SAS - Software Development	30000	No	lunch, Subsidised Cab facility for office transport
401.	JW Consultants	26000	No	No
402.	Knorr-Bremse Technology Center India Private Limited	15000	No	No
403.	Mahle Anand Thermal System (Formerly Mahle Behr India Pvt Ltd)	8000	No	No
404.	National Chemical Laboratory	0	No	No
405.	Nvidia Graphics - Software Systems	35000	No	Free Breakfast & Lunch, Company Bus, Initial 14 days accommodation
406.	PharmaACE	30000	No	No
407.	Reflexis Systems India Pvt Ltd.	30000	No	No
408.	Siemens PLM Software	30000	No	No
409.	Skoda Auto India Pvt. Ltd. (Chakan)	8000	No	No
410.	Spicer India Ltd.	8000	No	No
411.	Symphony Fintech Solutions Pvt. Ltd.	40000	No	No
412.	Tata Autocomp Systems Ltd.	12000	No	Subsidised Lunch, Free Company Bus
413.	Tata Chemical Innovation Center	10000	Accommodation provided by the organization (for boys and girls)	Free Breakfast, Lunch & Dinner, Company Bus
414.	Tata Motors Ltd.	18000	No	No
415.	Tata Technologies	12000	No	No
416.	UBS Business Solutions (India) Private Limited - Finance Group	25000	No	No
417.	UBS Business Solutions (India) Private Limited - Group Operations	25000	No	No
418.	UBS Business Solutions (India) Private Limited - RAS FINANCE	25000	No	No
419.	VMware Software India Pvt. Ltd.	35000	No	No
420.	Whirlpool	25000	No	No
421.	ZiMetrics Technologies Pvt. Ltd.	30000	No	No
	Sanand			
422.	Tata Motors Ltd.	18000	No	No
	Sirsi			
423.	Divgi TorqTransfer Systems Pvt. Ltd.	12500	No	Subsidised Lunch & Breakfast

S.No.	PS-II Station	Out of Pocket Allowances (Rs. Per Month)	Accommodation provided	Other
Sonipat (Delhi)				
424.	Amazon Operations (Area Manager)	40000	No	Air Fare, Company Bus, Initial 15 days accommodation
Trivandrum				
425.	UST Global Infinity Labs-Robotics	20000	No	No
426.	Klientas	12500	No	No
427.	Law Pundits	12500	No	No
428.	UST Global- Trivandrum	20000	No	No
USA				
429.	MedNetOne	1200	No	No
Vijayawada				
430.	Andhra Pradesh Capital Region Development Authority (APCRDA)	20000	No	No

LIST OF PROJECT ASSIGNMENTS FOR SECOND SEMESTER 2018-2019

1.	Aditya Auto products & Engg (I) .P.Ltd. , Bangalore
	1. Modification of the Window regulator design
2.	Aditya Birla Fashion and Retail Ltd. , Bangalore
	2. DESIGNING AND OPTIMIZATION OF LOOP MEDIATED ISOTHERMAL AMPLIFICATION TO DETECT Anopheles stephensi FOR VECTOR SURVEILLANCE
	3. Marketing support & execution for Van Heusen
	4. Van Heusen DS Pump Prime
	5. Sales prediction for the apparel brand Louis Philippe using Decision Trees
	6. GS SMV Rationalization
	7. Automation and Natural Language Processing Product iBot
3.	Aditya Birla Group -Data and Analytics , Bangalore
	8. Aluminum recovery improvement through Data Analytics
	9. Video Magnification
4.	Aditya Birla Insulators , Halol
	10. Alternate methods of packaging for polymer insulators
	11. Homogenisation of clay and design optimisation of raw materials (quartz , feldspar)
	12. Recovery of metal flanges
	13. Metal Cap production capabilities, Identification & Development as well as bringing efficiency while redesigning the metal caps.
	14. Alternate packaging of small items (s1/s2) of solid core porcelain insulators.
	15. System and Methods of Distributed Key Value Store
	16. Re-design of metal flanges and it's improvement in the supply Chain
5.	Aditya Birla Science & Technology Company Ltd. , Mumbai
	17. Internet of things based dryer automation
	18. Self Tuning of Data based Models for a Manufacturing Process
	19. Life Cycle Analysis of Crucial Elements involved in Aluminium Smelting Plant
6.	Adobe Systems , Bangalore
	20. Exploration for the Development Adobe XD Web Application
	21. Third Party Integration with Adobe Cloud Platform - Dropbox Storage as Service
	22. Auto-Color and Auto-Close frames in Adobe Animate
	23. Third Party Integration with Adobe Cloud Platform - Dropbox Storage as a Service
	24. Document Model Unification and Exploration for the Development of Adobe XD on Web
7.	Adobe Systems , Noida
	25. iOS Development
	26. Hybrid Recommendation Systems
	27. iOS App development
8.	AFour Technologies , Pune
	28. AFour ERP
9.	Altair Engineering India Pvt. Ltd. - Software Division , Bangalore
	29. Pricing of Fixed Income instruments
10.	Amazon Area Manager , Bangalore
	30. Pack Single Small Productivity Improvement
	31. 1. Developing processes and checklists for critical construction works at site, which include flooring and interior works. 2. Developing playbook for arriving at BOQ for DS with easy user interface.
	32. Improvement in pick productivity by using lean methodologies.
	33. PENDING RESEARCH INVENTORY MANAGEMENT
11.	Amazon Development Center , Bangalore
	34. SP Irrelevant Ads Blacklisting on Amazon.in AND ASIN Dashboard for Advertising Account Managers.
	35. Amazon Pay Connected Commerce
	36. CVS related Use Cases and Notification Service
	37. AFTX Inventory Handoff
	38. Alexa Companion App- Music & Books Queue Refactoring
	39. Gifting feature for Prime Book Box.

	40. Business Intelligence Dashboard for GIL
	41. Usage of Blockchain Tech in Amazon's Accounting Engineering, and Serverless Architecture for Websites
	42. Affordability Automation
	43. DAG Support in Job Orchestrator
	44. SUBSCRIBE AND SAVE CX DEVELOPMENT
	45. Digital Commerce Platform
	46. Payment Method Plugin for JP Invoicing & DynamoDB Archiving
	47. Simple Issue Router
	48. Zebra printers for invoice printing
	49. Anomaly Detection Algorithm and Guard Rail
	50. PO Template Self Service Tool
	51. Automation using Alexa
	52. Notification Channel Enablement for Business
	53. Real Time Reporting Using Elastic-search
	54. Amazon Seller Flex (Warehouse Management System)
	55. AWS Infra supply Chain and automation (Build a UI facing web service budgeting portal use case)
	56. Molybdenum Oxide Thin Films for Selective Solar Thermal Absorption; HfZr/HfZrN based multilayer hard coatings
	57. Amazon Pay Notification System
12.	Amazon Development Center , Chennai
	58. Wi-Fi simple setup for next generation Echo devices
	59. DLQ analysis, XFSN Cookie Migration ,OMA to PCE Migration and ADPToken Migration
	60. CLOUD SUPPORT FOR ECHO DEVICE REGISTRATION
	61. WeeklyOpsAutomator
	62. Article Scoring Tool
13.	Amazon Development Center , Hyderabad
	63. Self Service Tool
	64. Automated Trading System Development
	65. Migration of workflows from SWF to Herd.
	66. CONFIGURE PUBLISHING OF FLOWLOGS TO S3 INSTEAD OF CLOUDWATCH FOR ALLEGIANCE; CLEANUP CALL FLOW TO NOT PLAY SUGGESTION VIA CALLFLOW; MIGRATING AGGRESSIVE EXPERIMENT RECOMMENDER TO IVRHANDLERS; DESIGN AND DEVELOPMENT OF ADVANCED AND INDIVIDUAL SEARCH MODELS, VIEWS, CONTROLLER FOR VCS PROGRAM; DEFINING HERD INDEX AND HERD INDEX ACCESSOR FOR VCS PROGRAM TO ALLOW SEARCHING ON ONBOARDING WORKFLOW FROM VCSADMINWEBSITE.
	67. TOOL TO SUPPORT DATA VISUALIZATION AND EASE MIGRATION OF CLIENTS FROM OLD PLATFORM TO NEW PLATFORM
	68. User Contact Management
	69. Optimize Elastic Search Index Generation Time, Automating ingestion of manual feedback data into AWS DynamoDB
	70. Cartographer and Upsell Service(Recommendation Engine)
	71. Migration of the Returns Home Page from Gurupa stack to Horizonte stack
	72. SchedulePersistence User site and eligible workgroup mappings
	73. INVOICE VALIDATION PROJECT
	74. Invoice Reconciliation and Invoice Failures Dashboard
	75. Implementing Label Comparator for real time shadow testing
	76. Risk Controllers: Alteryx UT Automation Project
	77. Automati extraction of banking information through check scan
	78. Business Configuration Manager and Enhancing Voyager
	79. Brew software enhancements and capturing retail anecdotes
	80. Configurable Bulk Data Migration for New Attributes in Payee Service
	81. POC for Vendor Self-Service Invoicing Mobile App and TouchStone: Support Secure ingestion of banking details for Amazon Advertising.
	82. SIC PLAN SEARCH ENGINE
14.	Amazon Development Center , New delhi
	83. Payee Central Approvals Workflow
	84. CRejects V5
	85. UNIT TESTING, UPDATE CONTACT ATTACHMENT API AND IMAGE DISPLAY WIDGET UI
	86. C-Rejects V5 ML Model, Generic ML Transformer

	87. Billing admin
	88. PREDICTION OF SHIPMENT METHOD USING MACHINE LEARNING
	89. Machine Learning use cases for IVR(Interactive Voice Response) Servicing channel at American Express
	90. Automation Of Repo Var Monitoring Using Python
15.	Amazon Operations (Area manager) , Ahmedabad
	91. PRODUCTIVITY AND QUALITY ENHANCEMENT INITIATIVES IN AMAZON
16.	Amazon Operations (Area Manager) , Bilaspur (Gurgaon)
	92. Reduction of MFI generation in DEL5
	93. Improving Inbounding Productivity at DEL5 FC (Amazon Warehouse)
17.	Amazon Operations (Area Manager) , Chennai
	94. BASIC PROCESSES AND INVENTORY MANAGEMENT. IN IB AMAZON FC â€ MAA4
	95. Implementation of Hybrid Shift in Outbound Department
18.	Amazon Operations (Area Manager) , Gurgaon
	96. PRODUCTIVE TIME IMPROVEMENT THROUGH PACKAGING STATION REDESIGN
	97. Productive Time Improvement with FPY control
19.	Amazon Operations (Area Manager) , Hyderabad
	98. Warehouse Damage Reduction and Pick FPY Improvement
	99. Development and execution of Inventory Placement plan For Customer-return Stow for overall Flow improvement of Stow and Pick
20.	Amazon Operations (Area Manager) , Mumbai
	100. Project Health Analysis
	101. Transshipment/IXD Defect Injection Reduction
21.	Amazon Operations (Area Manager) , Sonipat (Delhi)
	102. Plck Rate improvement
	103. Reduction of warehouse damages in FC
22.	American Express - Big Data Labs (BDL) , Bangalore
	104. Sub-Intent Detection
	105. AXGBoost enhancements and new features
	106. A Recommender System for Distributed Deep Learning Frameworks
23.	American Express India-Risk Information Management-Capabilities(RIM-C) , Gurgaon
	107. Improving An Existing Admin Portal and An Active Talent Search Engine
	108. PROCESS DEVELOPMENT AND AUTOMATION FOR ANALYTICS SERVICES USING BUSINESS OBJECTS AND EXCEL - MACRO
	109. Platform Modernization for Servicing Communications
	110. Modernization of Internal American Express Applications.
	111. PS II first Semester: Business Analyst, GGK Technologies PS II second semester: Business Management, Global Markets, Nomura Structured Financial services, India office
24.	AmericanExpress-RiskInformation-Management-Capabilities(RIM-C) , Bangalore
	112. Analysis and Design of Multi storey Structures
	113. Transaction Level Data Scoring on Big Data Platform
	114. Open Repository Creation
	115. Project Title for Semester-1: Benchmarking Exercises, Project Proposals, and Identifying Issues and Solutions in Shipping & Logistics Industry II Project Title for Semester2: Competitor Mapping, MAVRIC, Branded Content Analysis and Retention Analysis at VOOT
25.	Amity Software Systems Ltd. , Noida
	116. To Develop & Implement Innovative Branding & Marketing Strategies via Online/ Offline Media
	117. Increasing the sale of company products in existing customer segment and targeting new segments by contributing in various sales related activities.
26.	Analog Devices India Pvt. Ltd. , Bangalore
	118. Modelling and Verifying System Level blocks using SystemC
	119. Functional Post Silicon Validation of ADI Audio Processor Evaluation Boards
	120. Implementation of Memory Verification Algorithms
	121. Design of Bandgap Reference Circuit
	122. Artificially Generating Data to Improve the Accuracy of Existing Models

27.	Analogics Tech India Ltd. , Hyderabad
	123. Ultrasonic Water Meter
	124. Mesh Networking of Smart Meters
28.	Andhra Pradesh Capital Region Development Authority (APCRDA) , Vijayawada
	125. Secretariat & HOD Buildings
	126. REVIEW OF RECYCLING TECHNOLOGIES IN SOLID WASTE MANAGEMENT
	127. Smart City Website, Digital Master Plan
	128. Planning and progress update of infrastructure works in Amravati.
29.	Angara ecommerce pvt. ltd , Jaipur
	129. UNBXD Search & Browse Implementation
30.	Apple India Pvt Limited , Hyderabad
	130. An automated feature engineering platform
	131. Recommendation and Personalisation for Sales Training Platform of Apple
	132. Full Stack Support For Deploying Services On APC
	133. User Behavioral Analytics
	134. DAILY WORK AT APPLE
	135. Test Catalyst
	136. Store Locator Module
	137. Org Management
	138. Forecasting Application
	139. Daily BookRunning at Deutsche Bank
	140. Smart-Tagging for textual data
	141. Global Markets trading risk analysis
31.	ARM Embedded Technologies Private Limited , Bangalore
	142. PPA Trails in Synthesis
	143. Top level CPU verification
32.	Arup India Pvt. Ltd. , Hyderabad
	144. Software Development for PRIMER (PRE-PROCESSOR for LS-DYNA)
33.	Ascent Health and Wellness Solutions Private Limited, Mumbai , Mumbai
	145. Automating MDM Enrichment To Reduce Manpower And Go-To-Market Time
	146. Development of Process Management and Quality Assurance Framework for Medicine Master Data Management
34.	Ashoka Buildcon Ltd , Mumbai
	147. JNPT Road Project - Construction of NH 548 & NH 348
	148. Construction of NH 4B from km 21.200 to 27.27 km (D to E section) and from km 0.00 to km 4.492 (D to G section) of JNPT phase-II. (package-IV) on EPC basis. Navi Mumbai.
	149. Construction of NH 4B from km 21.200 to 27.270 km (D to E section) and from km 0.00 to km 4.492 (D to G section) of JNPT phase-II. (package-IV) on EPC basis. Navi Mumbai.
35.	Avaamo , Bangalore
	150. Natural Language Processing & Technical Pre-Sales
	151. DESIGN OPTIMIZATION OF ANGLEPOISE LAMP & DESIGN & PATH OPTIMIZATION OF CIRCUIT BREAKER
	152. Unsupervised Natural Language Processing for Large Scale Application
36.	Ayro Retail Solutions Pvt. Ltd. , Mumbai
	153. Marketing and Product Management related activities for 2 products â€ SuperTax & Retailio
	154. REST API Development using LoopBack for supporting Web Frontend, Android and Backend Applications
	155. Retailio Distributor and Retailer Panel Feature Development
37.	B.G.Shirke Construction Technology Pvt. Ltd. , Pune
	156. Analysis and design of the structures
	157. DESIGN AND ANALYSIS OF PREFAB CONCRETE AND STEEL STRUCTURES
38.	Bajaj Auto , Pune
	158. Optimization of multi-link suspension
	159. Building an automated process for optimization/design of an axial fan design
	160. Implementation of AGV for material transfer, Improvements in engine store and planning of new scooter assembly shop
	161. Selection of belt to run AC compressor on a single cylinder engine and establish its reliability
	162. Quota Exception Report and Digitization of Purchase Order Creation

	163. Automation of the calculation involved in making of a suspension system to save time and reduce complexity
	164. USE OF FORMABILITY TO ELIMINATE DEFECTS AT DESIGN STAGE FOR SHEET METAL PARTS
39.	Baldor Technologies Pvt Ltd , Mumbai
	165. Agile software development for EVE
	166. Face liveness, Document Image Validation, Inhouse OCR
	167. API Testing Framework and KYC Gateway
	168. Video KYC
	169. 1.Video kyc, 2. Alerts
40.	belong.co , Bangalore
	170. Scaling Candidate Belongingness
41.	Bharat Forge Ltd , Pune
	171. Aerospace Standard AS13004 and Documentation Involved, Process Flow Diagram, Process Failure Mode & Effects Analysis, and Value Stream Mapping of Turbine Shaft
	172. Study on Distortion of Ti6Al4V Aero-Engine Fan Blade and Residual Stress Measurement using X-Ray Diffraction
42.	BLS International Services Limited , New delhi
	173. Strengthening the Corporate brand of BLS International
	174. Expansion of Business Horizons in terms of Visas, E-Visas and E-Governance Outsourcing Space
43.	Blue Jeans Network India Pvt. Ltd. , Bangalore
	175. Debugging and building small scale Indigo architecture
	176. INTEGRATION OF JDBC METRICS AND SWAGGER TO BLUEJEANS
	177. VIDEO LAYOUT ENHANCEMENT FOR BLUEJEANS FIBER AND SCREEN CAPTURE IMPLEMENTATION FOR BLUEJEANS CLIENTS MEDIA
	178. Extending Capacity Dashboard for Helix
	179. Performance improvement in Web Meeting Client
44.	Bosch Research and Technology center , Bangalore
	180. VIDEO OBJECT SEGMENTATION
	181. Text Analytics for Trend Detection and Recall Incident Prediction
	182. Unsupervised Domain Adaptation of Real and Synthetic Data
	183. Semantic Segmentation of LiDAR point Clouds
	184. Time Series Classification
45.	Bundl Technologies Private Limited (Swiggy) - Nontech , Bangalore
	185. Cost per delivery optimization for Swiggy POP category
	186. Project Alexander - Rapid Area Expansions
	187. Pioneering Incubation and Growth for 4.x and 5.x cities
	188. Performance Analysis of Deliver Executives (DE)
	189. NATIONAL CITY EXPANSION AND ESTABLISHING THEM FOR SUCCESS
	190. Research and Analysis of new business initiatives
	191. Swiggy Launchpad Program
46.	Bundl Technologies Private Limited (Swiggy) - Tech , Bangalore
	192. Catalog Intelligence
	193. Workflows in Oneview and Picker Admin Dashboard
	194. Pricing
	195. Enhancements in Yoda Simulation and Config Scheduler
	196. Customer Address Correction, Customer Address Clustering and Finding a common labelled entity from addresses by correlating text address and coordinates
	197. Item level prediction on slot level and day level prediction for zones of Bangalore
	198. Building a better data-flow pipeline for LMS/Improving Catalog Executive Efficiency on KMS/POS Integration for KMS
47.	Cadence Design Systems , Noida
	199. Developing a test case to verify the functionality of PROTIUM X1
48.	Capillary Technologies - Testing Automation , Bangalore
	200. Affiliate Partner Operations - Wadogo Supply
	201. Development of an Algorithm to Identify Indications based on Transaction-level Data
	202. LEVERAGE RATIO DENOMINATOR REPORTING ON MICROSTRATEGY AND AUTOMATION ON PYTHON

49.	CEG Limited , Jaipur
	203. Geometric Design of Highways and Expressways
	204. Framework for Design of High-Speed Expressways for reliable and consistent operation of traffic
	205. Design of Bow String Steel Bridge
	206. Design and Analysis of Skew Box Culvert
50.	Central Electronics Engineering Research Institute , Pilani
	207. In-silico classification of time series data
	208. Fall Detection in 360 Video
51.	Central Leather Research Institute (CLRI) , Chennai
	209. THERMOKINETIC MODELLING OF CARBOXYPEPTIDASE PRODUCTION IN YEAST & PRODUCTION OF POLYHYDROXYBUTYRATE FROM MIXED MICROBIAL CULTURE
	210. Interaction study on flavonoid (Rutin) with collagen
	211. Bioactives Encapsulated Nanofiber Delivery System For Burn Wound Healing
	212. BIOMETHANE POTENTIAL STUDY AND SPATIAL DISTRIBUTION STUDY OF ORGANIC WASTE IN AN URBAN CITY
	213. DESIGN, FABRICATION, TESTING AND ANALYSIS OF SOLAR DRYER FOR ORGANIC MUNICIPAL SOLID WASTES
52.	Century Rayon , Mumbai
	214. Sulfur Recovery From Slag Sulfur & Zinc Recovery From ETP Waste
	215. Sulphur recovery from slag sulfur and Zinc recovery from ETP waste
53.	CIREL Systems , Bangalore
	216. Fuel Gauge Algorithm Development for Li- Ion Batteries
54.	Cisco Systems (India) Pvt. Ltd - Software Engineering , Bangalore
	217. Customer Experience: Project Management
	218. Business Operation and data analysis
	219. Configurable Option to handle Subscriber Profile in 5G SBA
	220. Network Monitoring for SAN Switches in the Data Center
	221. Media Platform - Service Monitoring
	222. Developing an NLP agent using MindMeld to develop a Conv IVR
	223. Alert Monitoring
	224. Business Analysis and Report Automation
	225. Business Analyst Internship - Business Analysis, Business Reporting and Automation
	226. Business Analysis and Productivity Improvement
	227. Dashboard Development and Report Automation
	228. Business Operations and Data Analysis
	229. Business and data Analysis
	230. SSL Decryption for TLS v1.3 enabled sites
	231. Next Generation Security Management Appliance Portal & Using Redis As Cache
	232. Firmware management and Support Utility for Servers
	233. Power Optimisation at RTL level
	234. COMPUTE ORCHESTRATION IN RHEV
	235. The configuration of Viptela specific SDWAN devices in order to enhance the serviceability and programmability aspects of different daemons.
	236. Manufacturer Usage Description (MUD)
	237. A comprehensive dashboard for SIP proxy nodes
	238. Graphical Rendering for Email Threat Analysis
	239. Verification of the Virtual Ethernet Module for Fibre Channel Line Card
	240. Low Power optimization on ASIC chips
	241. ACL Optimisations, Hardware Automation for testing
	242. Service Delivery Support
	243. Automation testing
	244. Implementation of functional coverage for a datapath FPGA design and Porting of PCIe VIP
	245. VERIFICATION FLOW AUTOMATION IN PERL & BLOCK LEVEL POWER ANALYSIS USING PTPX
	246. Telephony Spark Bot
	247. Device Classification Service Using Unlabelled Data
	248. IMPROVEMENTS IN TESTING TOOL â€˜SAMOSAâ€™ for ANYCONNECTâ€™s NVM
	249. CodeMapper for CUCM IM&P Logs
	250. Accounting for Calvados VM for E-XR platforms.

	251. GUI Support for Redfish Interface On Cisco C-Series Server
	252. DEBUGGING AND STABILIZING OF SECURITY AUTOMATION SCRIPTS
	253. Design of Phase Detector for 28 Gbps Clock Data Recovery
	254. Node Functional View
	255. A chat bot for on demand testing of webex sites
55.	Citec Engineering India Pvt. Ltd , Mumbai
	256. Analysis and Design of Power Plant Steel Structures
	257. Analysis & Design of Ongoing Project
56.	Cloudcherry Analytics Pvt Ltd , Bangalore
	258. System Verilog Modeling of Fabric Reorder block
	259. CEM software implementation and management
57.	Cohesity Storage Solutions India Pvt. Ltd. , Bangalore
	260. Data protection for SAP HANA Databases
	261. Hybrid Extender
58.	Concept Infracon Pvt. Ltd. , Gurgaon
	262. CONSTRUCTION OF VARIOUS AMENITIES AT ASI ADARSH MONUMENTS AT VARIOUS LOCATIONS IN UTTAR PRADESH
59.	Couture AI , Bangalore
	263. PRICE AND RELEVANCY ENGINE FOR ONLINE AND OFFLINE CATALOGUING AND MERCHANDISING
60.	Credit Suisse - Business Control , Pune
	264. Catalyst Screening in Multi-Reactor Fixed bed System
61.	Credit Suisse - Credit Analytics , Mumbai
	265. INVESTMENT BANKING RISK MITIGATION BUSINESS SUPPORT
	266. First Semester(at Samsung Semiconductor R&D Institute India- Bangalore)- Wi-Fi Sharing Offload. Second Semester(at IMIImobile, Hyderabad)- IMIassist, a WebRTC based application.
	267. MODEL VALIDATION AND REVIEW
	268. Automation of testcases for invoiceserv
62.	Credit Suisse - Enterprise Operational Risk Management , Mumbai
	269. EXPLORING AND IMPLEMENTING AUTOMATION CAPABILITIES FOR FREQUENTLY PERFORMED TASKS BY ENTERPRISE AND OPERATIONAL RISK MANAGEMENT
	270. Model Risk Management (MRM)
	271. TECH OPERATIONAL RISK REPORTABLE INCIDENTS ANALYSIS AND REPORTING; TECHNOLOGICAL RISK MANAGEMENT FRAMEWORK; 4 TH PARTY AND SUBCONTRACTING RISK MANAGEMENT
63.	Credit Suisse - Global Market Risk Management , Mumbai
	272. Market Risk Analysis and Reporting
	273. Power Aware verification for DDR Sub System
	274. Market Risk Management and RNiV of Strategic Resolution Unit
	275. An Analysis if Bank-Wide Risks under Severe Stress Scenario
	276. Market Risk Non-Quant
	277. CREDIT RISK MANAGEMENT
	278. Business Analytics of Programmatic Ad Tech Buying
64.	Credit Suisse - Global Markets Controls COO , Mumbai
	279. Machine Learning and its application for Natural Language Understanding
	280. Last-Mile Audit Workflow And Performance Management Platform
	281. Business Metrics for Emerging Payments
	282. Quality Assurance
65.	Credit Suisse - GM Trading Risk , Mumbai
	283. Market Data Analysis at GM Trading Risk Desk
66.	Credit Suisse - Group Finance - FMAR Transition Management , Pune
	284. Automation & Designing of various Metrics files using Qlik Sense™ & VBA™.
67.	Credit Suisse - Information Technology , Pune
	285. Optimisation of Fee Processing for Cash Equity Trades at Credit Suisse (using Python , IBM Netezza and Oracle databases)
	286. Inmobi Pulse
	287. APPLICATION DEVELOPMENT FOR CHECKING CORPORATE ACTIONS ON CONSTITUENTS OF AN INDEX USING VISUAL STUDIO.
	288. Fund Transfer Pricing

68.	Credit Suisse - International Wealth Management , Mumbai
	289. DEVELOPMENT OF A MODEL TO ANALYSE PERFORMANCES OF ASSET CLASSES ACROSS MARKET RISK AND STRESS REGIMES
	290. UNDERSTANDING BUSINESS CYCLES AND CREATION OF TOOL TO SUMMARISE VARIOUS ASSET CLASSES' PERFORMANCE IN DIFFERENT BUSINESS CYCLE REGIMES
69.	Credit Suisse - Prime Services , Mumbai
	291. SECURITIES LENDING
	292. PRIME BROKERAGE AND INDEX REBALANCE FORECASTING
	293. Approval Workflow System for Tax Department in Amazon
	294. SUPERVISION AND OVERSIGHT TO MITIGATE OPERATIONAL RISK AT CREDIT SUISSE
	295. Client Analytics Pricing and Index trading management
	296. Index Forecasting and Rebalancing
70.	Credit Suisse - Risk & Finance Data Analytics, Reporting , Mumbai
	297. Global Product Risk Classification
	298. MODEL VALIDATION
	299. Market Liquidity Risk Management
71.	Credit Suisse - Risk & Finance Data Analytics, Reporting , Pune
	300. Credit Risk Management
	301. Design of APB Master, Divider and APB Arbiter to obtain the division of system register values
72.	Credit Suisse- Finance Change , Pune
	302. OYO Rooms Hyderabad: Jul-Dec 2018: ACP Packages Backend Services Aggregator Walmart: Jan-Jun 2019: Creating a Metadata Manager
	303. AUTOMATION OF UK CLUSTER REPORTS INTO TABLEAU
73.	Credit Suisse- Investment Banking and Capital Markets , Mumbai (Worli)
	304. IT Services sector and some stock recommendations
	305. Automation of End User Computations using Python
	306. Marketing Research- Campaign Management
	307. Developing a log grepper tool and implementing operational excellence tasks
74.	Cypress Semiconductor India Pvt Ltd. , Bangalore
	308. EZ-PD (Power Delivery) Configuration Utility 2.0
	309. Save restore implementation and verification in WLAN chip
	310. DESIGN OF HIGH SPEED RECEIVER FOR EUSB
	311. Cyclic Prefix Selection in 802.11 ax wireless standard
	312. PAPR reduction in OFDM in WLAN 802.11ax
	313. Physical Integration of FRAM (RTL TO GDS)
	314. RTL TO GDSII FLOW IMPLEMENTATION OF FRAM
75.	DAR AI-Handasah , Pune
	315. Design of Road infrastructure and Highways
	316. Traffic Analysis and Transportation Planning
	317. DESIGN OF ROAD INFRASTRUCTURE & HIGHWAY
76.	DataM Intelligene 4Market research , Hyderabad
	318. The Complete Analysis and In-depth Report Writing of Various Markets in Different Domains
	319. Business development with Lead Generation from the Outbound Marketing, E-mail Marketing and Karsan New Generation Delivery Electric Vehicle
	320. Europe Commercial Vehicles Market and Report descriptions of various domains
77.	DBOI - Credit Risk , Mumbai
	321. Global Credit Ratings Developed Markets Corporations
	322. Credit Rating Analysis
	323. Market Risk Stress Testing.
	324. Risk Analysis of Corporates
	325. Global Credit Ratings Emerging Markets, SFA & Funds
78.	DBOI - MLRM, Risk Methodology & NFRM , Mumbai
	326. Full Revaluation approach for VaR Calculation by Strategic Production Team
	327. Hybrid Report
	328. QUANTILE SCALAR, BSST REVIEW and Automation
	329. Risk and P&L Reporting
	330. Market Data Strategy & Analytics
	331. Python Automation

	332. MARKET RISK ANALYSIS AND CONTROL
79.	DBOI - Trading Risk & PL , Mumbai
	333. SoC Level Test Development
	334. Quantitative Investment Strategies (Nomura Global Markets)
	335. Rates product control
	336. AMR SURVEILLANCE RESEARCH
	337. UNBXD search and browse implementation
80.	DBOI , Pune
	338. CREATE CHATBOT SERVICE AND INTEGRATE IT WITH BANK FRAMEWORK
	339. DBLOOKUP+- An AUTOMATED IMPACT ANALYSIS TOOL
	340. MASTER DATA MANAGEMENT
	341. Chatbot and its Integration with Bank's Framework
	342. Big Data Analytics in Financial Fraud Detection
81.	Decision Resources Group , Bangalore
	343. Managed Entry Agreements
82.	Decision Resources Group , Gurgaon
	344. Formulary Coding, PA Form Research, Copay Research.
	345. Prior Authorization forms, Formulary Coding and Copay Research
	346. Oncology Clinical Trial Monitor (OCTM)
	347. Health Technology Assessment Report Extraction
83.	Dell R & D , Chennai
	348. DHCP Protocol State Machine Using Scapy
	349. Method to collect snapshot of the live system to debug without production impact
84.	Dell R&D , Bangalore
	350. SPDM over MCTP Binding
	351. Predicting Thermal Tables
	352. UNIT TEST AUTOMATION FOR VALIDATION
	353. PCI-VDM tool for NVMe devices.
	354. A comprehensive test framework for AWS S3 & ECS compliance
	355. SPARK CONNECTORS FOR PRAVEGA
	356. Elastic Cloud Storage
85.	Divgi TorqTransfer Systems Pvt. Ltd. - Bhosari , Pune
	357. Tooling Cost Estimation, Consumables Costing and Cycle Time Verification
86.	Divgi TorqTransfer Systems Pvt. Ltd. , Sirsi
	358. APPLYING LEAN PRINCIPLES & TECHNIQUES ON THE SHOPFLOOR
87.	DMI Finance Private Limited , New delhi
	359. Developing an end-to-end solution to identify loan eligible customers and assigning them credit line based on their predicted income
88.	Dorsch Consult (India) Pvt. Ltd., , Mumbai
	360. State Intelligence Department Project & Dehradun Airport Project
	361. Project planning and management of various ongoing projects of Dorsch Consult Pvt. Ltd.
89.	EA Games India Pvt. Ltd. , Hyderabad
	362. TEST ANALYSIS AND SUMMARY GENERATION
90.	Ecom Express Pvt. Ltd. - Data Science , New delhi
	363. The rating system
	364. Geocoding and locality extraction
91.	Egnify Technologies , Hyderabad
	365. Question Document Parser
92.	eGovernments Foundation , Bangalore
	366. Strategy and Fundraising Initiatives for eGovernments Foundation
	367. Frontend development of the DIGIT platform
93.	EnSci - A Unit of Weir Minerals India Pvt. Ltd. , Bangalore
	368. Predictive Pump Maintenance through Vibratory Condition Monitoring
	369. Wear Prediction in Pumps using Machine Learning
94.	Ericsson Global India Pvt. Ltd. , Bangalore
	370. TROUBLE REPORT DATA SCRUBBING UI FOR BUG TRACKER INTERFACE
95.	Ernst & Young Global Delivery Services , Bangalore
	371. Derivatives Valuation

96.	Ernst & Young Technology , Bangalore
	372. Backend API Services Development
	373. A deep learning approach to language understanding
97.	Espressif Systems , Pune
	374. RISC-V CPU Core Evaluation
	375. Testing of Strategic Enhanced Factor and IRC Methodologies
98.	Fidelity Investments , Bangalore
	376. EXPLORATION AND STUDY OF BLOCKCHAIN PLATFORMS
	377. Fund file download system
	378. Univariate time series forecasting using deep learning approach
99.	Flipkart , Bangalore
	379. 1. Checkout Conversion drivers 2. Customer journey score
	380. Selection Net Promoter Score
	381. Dynamic Seeding Score
	382. Customer Perception on NPS
	383. MINIMIZING DELIVERY HUB STRESS DURING THE BIG BILLION DAYS SALE
	384. 1)Regional Utilisation(RU) Waterfall, 2) Inter Warehouse Inventory Transfer Capacity(Manpower) Planning
	385. 1)Stock Clearance Sale-Pricing Methodology Development, 2)Baselining of RPC-Price Efficiency Metric
100.	Flipkart Internet Services Pvt. Ltd , Bangalore
	386. Druid Segment Manager and Report Builder
	387. Text Attribute Extraction
	388. Real Time Data Binning by Distributed Computing Frameworks
	389. Visualisation of IVR Call data
	390. Model Health Monitoring
	391. UGC Solicitation, Insights and Vernacular
	392. Text to Speech Systems
	393. Map Matching and Reconciliation System for FSG
	394. Complements to services under Application Lifecycle Management
	395. Text To Speech Systems (TTS)
	396. Cheque Text Extraction Using Machine Learning
	397. Product Migration
101.	FreshWorks Inc , Chennai
	398. Demand Planning for E-commerce and Value Channel in Van Heusen
102.	Futures First - Financial Market & Research (Quant) , Kolkata
	399. FUTURES MATCHING ALGORITHM ANALYSIS ON ICE & CME EXCHANGES AND BUILDING STRATEGIES USING TRADING PLATFORM ADL MECHANISM
103.	Futures First - Financial Market & Research (Quant) , Kolkata
	400. Analysis of Spreads during Rollover Period and Back-testing of Candlestick Patterns
	401. Profit and Loss Reporting
104.	Genpact , Bangalore
	402. Bill prediction and Speech Analytics and emotion detection
	403. Context based chatbot response
	404. IMPLEMENTATION OF MACHINE LEARNING ALGORITHMS FOR DIFFERENT USE CASES
	405. Credit Risk Analysis and Monitoring
	406. Tabular PDF Parsing
	407. One shot Learning
	408. Customer segmentation using machine learning algorithms
	409. Formula-e and Neo4j Paradise Papers
105.	GGK Technologies (Software Development) , Hyderabad
	410. Developing DApp's using Blockchain
	411. Building DApp's using Blockchain
	412. Automation/Machine Learning
	413. Developing dApps with blockchain
106.	Girish Enterprises Pvt. Ltd. , Mumbai
	414. CONSTRUCTION ,OPERATION AND MAINTENANCE OF 24 MLD PUMPING STATION WITH ALLIED MECHANICAL AND ELECTRICAL WORKS
107.	GMR Infrastructure Ltd , Hyderabad

	415. EXPANSION OF RGI AIRPORT, HYDERABAD
	416. Design and Construction Techniques of Taxiway and Apron: A Case Study On Hyderabad Airport
108.	GMR Infrastructure Ltd. , Goa
	417. Airport Planning and Pavement Design: A Case Study of Greenfield International Airport at Mopa, Goa
109.	GMR Infrastructure Ltd. , New delhi
	418. CONSTRUCTION OF SITE ENABLING WORKS for FBO,MRO Facilities and Earthwork, Site grading and levelling of BSF Hangar for DIAL Phase 3A phase at IGI Airport
	419. Construction Project Management and Risk Assessment on DIAL Phase 3A Project using Fuzzy AHP approach
	420. Construction Of Drainage and Building
110.	Goldman Sachs - Investment Banking , Bangalore
	421. Pitching strategic options to a leading company in the Financial Institutions Group (FIG) sector.
	422. Reconciliation of Front Office and Back Office Trades
111.	Goldman Sachs - IT , Bangalore
	423. BMC Remote Management & Asset Audit Platform
	424. Upgrading and unifying equity trading platforms
112.	Goodera - (Next Gen) (Non IT) , Mumbai
	425. ME&I of a Multi-Billion Dollar Client
113.	Goodera (Next Gen PMS) (Non IT) , New delhi
	426. Affiliate Partnership Strategy & Operations, Wadogo - InMobi
114.	Goodera (NextGen PMS Pvt. Ltd)- Non IT , Bangalore
	427. Corporate Social Responsibility Management
	428. Product management volunteering team
	429. Product Management in Enterprise CSR Platform
	430. Marketing Platform, Landing Pages & Campaign Design
	431. Change by design,Key account management(CSR)
	432. The Business Leads Funnel
	433. THE CUSTOMER SUCCESS MANAGEMENT OF THE VOLUNTEERING TEAM AT GOODERA
	434. Client Success Management
115.	Goodera (NextGen PMS) - IT , Bangalore
	435. Building Custom Dashboards
	436. AUTOMATING CUSTOMIZED MAILERS
116.	Grasim Industries Ltd. , Nagda
	437. Design of hoods for efficient exhaust of gases
117.	Grasim Industries, Pulp and Fibre Division , Mumbai
	438. Modeling of Digester & Estimation of quality of Pulp using Extended Kalman Filter
118.	HAPPAY (VA Tech Ventures Pvt Ltd.) , Bangalore
	439. Handling Backend Development Responsibilities at Happay
119.	HDFC Life , Mumbai
	440. Detailed study of Minigrd Scenario in India
120.	Healthcare Technology Innovation Centre (HTIC) , Chennai
	441. DESIGN AND OPTIMIZATION OF LOOP MEDIATED ISOTHERMAL AMPLIFICATION (LAMP) ASSAY TO DETECT Culex quinquefasciatus FOR VECTOR SURVEILLANCE
	442. FPGA firmware development for Endoscopy
	443. Evaluation of Orientation Estimation Techniques using Inertial Sensors
	444. DESIGNING AND OPTIMIZATION OF LOOP MEDIATED ISOTHERMAL AMPLIFICATION ASSAY TO DETECT Anopheles stephensi FOR VECTOR SURVEILLANCE
	445. DEVELOPMENT OF LOOP MEDIATED ISOTHERMAL AMPLIFICATION FOR ON FIELD SPECIES IDENTIFICATION OF Aedes aegypti FOR VECTOR SURVEILLANCE
121.	HealthCubed , Bangalore
	446. Image Analysis on Rapid Diagnostic Test for automatically finding test results in HealthCube Products

122.	Here Maps - Distributed Data , Mumbai
	447. WEB-BASED VISUALIZATION OF 3D-MAPS
	448. 1. Designing graph database of Traffic signs , 2. Bridge Detection on top-down lidar images.
	449. Creating an Attribute Capturing Toolbar in the Map- Editing Tool
	450. Predicting onstreet parking using street level imagery and probe data
123.	Hindalco Innovation Centre - Semifab, Taloja , Mumbai
	451. Accelerated Coil Cooling & SHT Rack Bending Problem.
124.	Hindustan Unilever Research Centre , Bangalore
	452. Synthesis of silicon-based compounds and their surface modification properties.
	453. Understanding complex phase diagrams using rheology measurement as a tool and substantiation through microscopy/SLS.
	454. Synthesis of Designer Particles with desired Optical Properties
	455. Theoretical modeling of multicomponent salt adsorption in capacitive deionization.
	456. Modelling and simulation of a spray dryer
	457. Effect of additives on solution and cleaning properties of non-ionic and anionic surfactants
	458. Study of solution conditions such as surfactants, pH and Ionic Strength in manipulating slipperiness of a detergent solution
125.	Holiday IQ- Tech , Bangalore
	459. Automated Text Review Mining
	460. Automated Interactive Lead Generation
126.	Hourglass Research , Mumbai
	461. Patent Analysis
127.	HSBC Electronic Data Processing India Pvt. Ltd. , Bangalore
	462. Understanding bank operations, reducing costs, increasing efficiency
	463. Presto and RubiX Optimizations
	464. Gap Analysis of CCR BAU
	465. Automation of SVaR MI Reporting using python
	466. Key Account Management- Corporate Social Responsibility (CSR)
	467. Product Portfolio Analysis for HSBC's Investment Banking Products
	468. Derivatives and hedging solution
	469. VOLCKER METRICS AND COO FUNCTIONS
128.	HSBC Global Analytics Centers , Bangalore
	470. Monitoring of Credit Risk Models for Wholesale Portfolio of the Bank
	471. Data Science using Python at Worley India
	472. Developing scenarios and schedule the tasks in the simulated environment.
129.	IBM Security - Fiberlink , Bangalore
	473. Chromium Based Secure Browser
	474. Insights of The Customer By Profiling
	475. Support for Progressive Web Apps , developement of App-Analysis
	476. ToolChain for Agents
	477. Data Security on devices
130.	IBM Security - Fiberlink , Pune
	478. AUTOMATING IDENTITY & ACCESS MANAGEMENT WORKFLOW
	479. Risk based analysis using CIA
	480. Automating and Attaching Identity and Access Management Workflows to any Cloud Identity feature
	481. CIA Trial Centre and Analyze using Identity data
	482. Workflow as a service
	483. Integration of IGI with AAE
131.	IDeaS - SAS - Software Development , Pune
	484. Recruitment Portal V2 an Integration with Service delivery Portal
	485. Recruitment Portal V2 and Integration of Service Delivery Portal
	486. COUNTERPARTY CREDIT RISK - CREDIT VALUATION ADJUSTMENTS
	487. Robotic Process Automation

132.	IFB Industries , Goa
	488. Designing of the nozzle system for rinsing cycle and washing cycle in top load washing machine
	489. Bench-marking, Reduction of Noise in Washing Machine and Product Development of Dispenser Tray.
	490. Field failure issue analysis for top loader washing machine
	491. Estimation of True Unbalanced Mass in a 7.5 kg Front Loader Washing Machine
	492. Benchmarking, Reduction of Noise in Washing Machine and Product Development of DD Tray
133.	IMI Mobile R&D , Hyderabad
	493. IMIAssist
	494. Topic Modelling and Sentiment Analysis
	495. REST API, Web Extraction & NLP
	496. Augmented Reality
	497. A report on AMR Surveillance Research, Mobile Applications For Immunization Data And HISP India Website Revamp
134.	IMIdigital R&D , Hyderabad
	498. RCS
	499. Scaling up the capacity of VOIP system
135.	IMS Health , Bangalore
	500. AUTOMATION OF SEGMENTATION AND TARGETING USING PYTHON SCRIPT AND MACHINE LEARNING
	501. Market Data Strategy and Analytics - Market Risk Management
	502. Preparing syndicated report, doing fake news analysis and sofar project
	503. Statistics and the Pharmacy Value Chain in the USA
	504. GOVERNMENT POLICIES AFFECTING INDIAN PHARMA INDUSTRY
	505. A report on preparation of Syndicated report & Social Media Intelligence proposal.
	506. Study of market landscape and future dynamics in managing Renal Cell Carcinoma
	507. 1. Conducted comprehensive company analysis in terms of market share, product portfolio, new launches, merges and acquisitions, company's Quarterly reports, annual and analyst reports
	508. Social Media Sentiment Analysis and Adverse Drug Event Reporting of Antiepileptic Brands
	509. PRACTICE SCHOOL PROJECTS ON KEY OPINION LEADERS, COMPETITIVE INTELLIGENCE, EPIDEMIOLOGICAL STUDIES & PRODUCT BENCHMARKING
	510. Syndicated Report for Asthma & COPD drugs, Fake Health News Analysis and Digital Index
	511. ANALYSIS OF UNSUBSTANTIATED HEALTH RELATED ARTICLES, DIFFERENT PROBIOTIC BRANDS IN THE MARKET AND ONTOLOGY DEVELOPMENT FOR THE ANALGESIC BRANDS
	512. Acquisitions, Mergers and Divestments Occurring in Health Care Industry
	513. Syndicated Report on COPD/Asthma and Fake Health News Analysis
136.	IMS Health , Gurgaon
	514. : Primary project: Quantitative and qualitative analysis of unsubstantiated health related articles on social media and their influence on patient Secondary Project: Social listening through primary and secondary research on social media platforms
	515. COMPETITOR ANALYSIS OF IQVIA, IN THE SYNDICATED PRIMARY MARKET RESEARCH IN US/HEALTHCARE MARKET SPACE
	516. 1) Quantitative and qualitative analysis of unsubstantiated health related articles on social media and their influence on patients. 2) Social intelligence report of Pharmaceutical conference
	517. Quantitative and qualitative analysis of unsubstantiated health related articles on social media and their influence on patients
	518. Open-End coding and KOL(Key Opinion Leader) Profiling
137.	Indiamart Intermesh Ltd. , Noida
	519. To understand the reasons behind client churn on IndiaMART portal
	520. Standard Product : Seller Mapping & Price as a Product
	521. Platinum Rush
138.	Infinera , Bangalore
	522. DEVELOPEMENT OF SCALABLE EMULATION INFRASTRUCTURE FOR ETHERNET SUB SYSTEM
	523. HDLC PROTOCOL AND BIT STUFFING
	524. Design of generic alarm hierarchy
	525. UTILITY DEVELOPMENT FOR REGRESSION LISTS
139.	Ingersoll Rand India Ltd , Bangalore
	526. STUDY OF VIBRATION PROFILE OF AIR-COOLED CHILLERS
	527. Poka Yoke design for TXV bulb mounting
	528. Improvement in Performance Of Micro-channel Exchanger used for heat pump applications
	529. Developing web features for Qubole s admin page.

140.	InMobi - Software Development , Bangalore
	530. WADOGO DEMAND PLATFORM
	531. Fraudefence.ai
	532. AWS to Azure Migration
141.	InMobi- Business Development , Bangalore
	533. Strategy & Operations â€™ InMobi Demand Side Platform
	534. HARD REVENUE TRANSFER
	535. INMOBI Affiliate Partner Product Development Wadogo, InMobi
	536. Global Risk Analyst: Anomaly Detection with Time Series Forecasting
	537. Programmatic Advertising Marketplace Account Management
	538. Market Research
	539. Reduction of MFI generation at Del5
	540. Operations and Business Analytics
	541. OPERATIONAL RISK DASHBOARD IB C&ORC DATA ANALYTICS
	542. Supply Business
	543. Profitability Analysis of Programmatics Business
	544. Customized dashboards for monitoring CSR activities
	545. WADOGO TEAM: CHINA EXPORT DIRECT DEMAND
	546. Resolution of inventory items categorised as Pending Research
	547. Different Avenues for Mobile Advertising
	548. Sales prediction for the brand Louis Philippe using decision trees
	549. Fraud Analysis & Prevention
	550. Business and Strategy Analysis
	551. Revenue Tracking and Establishing Hygiene in Audiences through Data Signals
	552. Private Placement of a Microfinance Company
	553. INMOBI PULSE
	554. Affiliate Partner Strategy & Operations â€™ Wadogo
	555. Dynamic verification of power aware RTL design
	556. VIRTUALISED DEPLOYMENT OF MEDICAL IMAGE RECONSTRUCTION SOFTWARE
	557. PRODUCT MANAGEMENT â€™ CUSTOMER DATA PLATFORM, CROSS DEVICE ID GRAPH & ML-AI FEATURE ANALYSIS
	558. Product Management â€™ ConnectX
	559. India Sales Team
	560. Client Delivery and Reporting in Market Research
142.	Intel India Technology , Bangalore
	561. Validation of P4 Tools using Test Framework
	562. Automated VM Provisioning
	563. Floorplanning and RLS Automation
	564. Graphics based test automation and integration of machine learning based solution.
	565. RTL Quality Improvements Based On Static Checks
	566. Connectivity of IP in SoC
	567. Gate Level Verification
	568. Study and analysis of RISC-V and ARM CPUs
	569. Automated Terragraph Testing.
	570. Full Chip Timing analysis and its Convergence
	571. Generation of Subsystem IO constraints from SoC level
	572. DFT RTL DESIGN AND INTEGRATION
	573. Power optimization through Clock Gating
	574. Performance validation of GPUs
	575. Physical Design Flow(Different Floorplan Methodologies)
	576. STRUCTURED DESIGN ON FIVR AND RELIABILITY VERIFICATION
	577. Discrete Graphics Integration and Validation
	578. Design and Validation of study project (CDC FIFO MUX) and Pre-Si validation of OVS (open virtual switch)
	579. Full Chip Integration/Clock tree Synthesis, Design Planning (Tools, Flows and Methodology)
	580. Functional Coverage enablement in Emulation
	581. Structural design and implementation of physical block
	582. Analysis of BERT Architecture

	583. REPORT DEVELOPMENT, PROCESS TRANSFORMATION AND AUTOMATION FOR REPORTING & ANALYTICS SERVICES (RAS) USING MICROSTRATEGY
	584. Improvements in PHY Timing Analysis Methodology to Achieve High Turn Around Time and Better Quality
	585. Graphics Full Chip Floorplanning
	586. Debugging Graphics Drivers
	587. Voot Business Insights
	588. Performance Formal Verification on Graphics Unit
	589. Optimizing Current and Voltage Sensing in a Motor Drive Power Stage
143.	Intel India Technology , Hyderabad
	590. RTL to GDS II Implementation of Partitions of SoC
	591. Power Estimation, Optimization and PDN Analysis for SOC
	592. Low Power Analysis using LEC
	593. Verification of SoC Interactions with Converged Security Engine
	594. Formal Equivalence Verification
	595. Scan Methodology for SoC Testing and SoC Integration Methodology for DfX Subsystems
144.	J P Morgan Services - GKN Markets , Mumbai
	596. Investable Indices
145.	J P Morgan Services - GKN-CCB Risk , Bangalore
	597. Work Done in CCB Risk Credit Forecasting
	598. Managing and Scaling Wadogo Demand
146.	J P Morgan Services - GKN-CCB Risk , Mumbai
	599. Self Service Tableau Transformation Project And Credit Card Opportunity Analysis
147.	J P Morgan Services Ltd - Finance , Mumbai
	600. Robotics enabled automation of Regulatory Reporting Processes
148.	J P Morgan Services Ltd - GKN Quant , Mumbai
	601. Returns based style analysis
149.	J P Morgan Services Ltd - GKN Research - Corporate Risk Management , Bangalore
	602. 2017H1490360P-Bharat Pattern
	603. Automation of IBID application
	604. Numerical Study of Human Comfort in a Passenger Car Cabin with Sliding Roof
	605. Exposure and xVA calculation of Derivative Products across asset classes. Development of Non Model Estimation Methods for upstream spreads used in calculation of xVA. Development of Web application using Bootstrapping on front end and Python on the backend.
150.	J P Morgan Services Ltd - GMG & Quant , Mumbai
	606. Computer vision for humanoid robots.
	607. Preparing Trading Strategies using Python
	608. Next generation Automatic Slack Adjuster
	609. Building Analytics for Custody & Fund Services and Assets under custody Prediction
	610. BITS F412 UBS Mumbai Group Operations RPA
151.	J P Morgan Services Ltd - GRC- GKN Global Research , Mumbai
	611. Equity Research
	612. Small and Mid Cap Strategy
	613. Fundamental Analysis and Equity Research
	614. Fundamental Equity Research
	615. US HIGH GRADE STRATEGY AND CREDIT DERIVATIVES RESEARCH
	616. US fixed income and fintech automation
152.	JDA Software Solutions , Bangalore
	617. Automation of Configuration Management and Database management
	618. XB Automation Application Development and it's usage in WMS
	619. Managed file transfer, Server build
153.	JDA Software Solutions , Hyderabad
	620. 1.Multi-class classification of clothes attributes 2.Automating Sprint reports
	621. PMM-SG Integration
154.	John F Welch Technology Center (GE) , Bangalore
	622. Instant Ad Booking
	623. CONCEPT DESIGN, DESIGN RISK MITIGATION AND REQUIREMENTS FOR THE NEXT GEN MOBILE X-RAY MACHINE

	624. Literature Survey on Labyrinth Seal and Creation of Ansys APDL Macro for Automated Analysis Procedure
	625. QUALITY ASSURANCE OF BOILER CONFIGURATOR TOOL & IMPLEMENTING FRAMEWORK FOR AUTOMATED TESTING
	626. NESTED UNIT CELLS AND ITS APPLICATION IN ADDITIVE MANUFACTURING
	627. HEAT EXCHANGER DESIGN FOR SUPERCRITICAL CO2 CYCLE FOR WASTE HEAT RECOVERY
	628. CONSTRUCTION OF FLOW BATTERY
	629. DEVELOPING A PROTOTYPE OF ABSORPTION SPECTROSCOPYBASED GAS SENSORS
155.	JP Morgan Chase - Technology , Bangalore
	630. MyWorkPlace - An Integrated Employee Workplace Experience
156.	JPMC - Technology , Hyderabad
	631. JNET
157.	JPMC - Technology , Mumbai
	632. Electric Vehicles- Market Study and Future Prospects / Leveraged Finance - Credit Ratings
158.	Juniper Networks , Bangalore
	633. Product Management in Enterprise CSR Platform
	634. Monthly assessment and Report generation for Business Operation Risk.
159.	JW Consultants , Pune
	635. Risk Management using Linear Quantitative Research Techniques
	636. ANALYSIS AND DESIGN OF MULTISTOREY STRUCTURE
160.	KPMG , Bangalore
	637. RESEARCH AND BENCHMARKING PROJECTS UNDERTAKEN ACROSS DIVERSE SECTORS
161.	KPMG , Gurgaon
	638. Mergers & Acquisitions (M&A) transactions with focus On Financial due diligence.
	639. DEAL ADVISORY RESEARCH WITH FOCUS ON MERGERS & ACQUISITIONS (M&A) TRANSACTIONS
	640. Secondary research at KGS
	641. MULTIPLE RESEARCH PROJECTS UNDERTAKEN AND DELIVERED
162.	Lavelle Networks , Bangalore
	642. Managing Lavelle Networks social media channels and devising social media strategy to maintain continued growth
163.	Law Pundits , Trivandrum
	643. Data Mining and Event Management
164.	LEA Associates , New delhi
	644. Structural Design of Bridge Components
	645. BRT Tiger Reserve Boundary to Bangalore Section of NH-209
165.	Lenskart , Bangalore
	646. VARIOUS TYPES OF AUTOMATION TESTING IN PRODUCTION ENVIRONMENT
	647. PERFORMANT REGRESSION TESTING ON ANDROID
166.	Lightplane Technologies India Pvt. Ltd , Bangalore
	648. Prediction of error events in a system through log analysis, using a Machine Learning based predictor.
167.	Mahle Anand Thermal System (Formerly Mahle Behr India Pvt Ltd) , Pune
	649. Supplier Upgradation Project
168.	MAQ Software , Hyderabad
	650. Backend Support for Microsoft - ServicesHub
169.	Market Data Forecast (Marketing Associate) , Hyderabad
	651. Business Development & Creation of Person Of Contact Database For Research Cosmos
	652. Writing Project Report Descriptions (PRDs) of various Markets and Website Optimization for more in-bound traffic to website
	653. Business Development Introduction
170.	Market Data Forecast , Hyderabad
	654. Study on inside sales & understanding sales pipeline
	655. Business Development and Understanding the Sales Pipeline

171.	MathWorks India Private Limited , Bangalore
	656. Block Semantics Tester
	657. Conformance Testing Using Simulink Design Verifier.
172.	MathWorks India Pvt. Ltd. , Hyderabad
	658. HDL Verifier
	659. Style Transfer using WCT2 Network for Data Synthesis
	660. BLE Mesh Friend Feature
	661. Robotic Operating System (ROS)
	662. Autonomous Navigation of UAV in an Unknown Indoor Environment
173.	Maybank Labs Pvt. Ltd. , Bangalore
	663. Limit Management
	664. Common Components (CC1)
	665. Portfolio optimization using forward looking volatility estimation & Computation of Economic Capital for Credit risk.
	666. QUALITATIVELY ANALYZING REPORTS OF MALAYSIAN COMPANIES TO GUAGE MANAGEMENT STABILITY
	667. Quality Assurance of jBPM Integration with Customer Due Diligence
174.	MediaTek Bangalore Pvt. Ltd. , Bangalore
	668. ANALYSIS OF PLMN SEARCH, PLMN LIST AND CELL RESELECTION ON 2G LOGS USING PPAT TOOL
	669. SYNTHESIS AND LEC OF RISC8 MODULE
	670. design verification of test chip
	671. ANALYSIS OF PLMN SELECTION IN 3G PROTOCOL STACK
	672. SYNTHESIS OF A MODULE AND CLOCK DOMAIN CROSSING (CDC) CHECK ON CHIP TOP LEVEL
	673. Analysis of 2G Logs using PLA Tool for PLMN Search, SRVCC & CSFB Scenarios
175.	Mercedes Benz , Bangalore
	674. Derivatives Structuring and Python Development
	675. Machine learning approach for parametric optimization of hydraulic tensioner model for enhanced correlation with test data.
	676. Structural Design of Bridge Components
	677. Order management system and control panel management
	678. Control Panel Management, Consumer Journey
	679. THERMAL MANAGEMENT OF BATTERY ELECTRONICS
	680. Validation of 50th Percentile Male & Double; Relaxed & Double; Human Body Model using ISO 9790 Load Cases
	681. 1. STUDY OF THE MULTI-BODY ANALYSIS AND THE USE OF REDUCED-FLEXIBLE BODY IN MBD. 2. PROCESS AUTOMATION FOR VEHICLE INITIAL SETUP, USING MATLAB. 3. REPLICATION OF PLUGIN FUNCTIONS IN MATLAB TO ELIMINATE ADDITIONAL TOOLBOXES.
	682. PCPNL analyst in NOMURA
	683. Numerical modelling of subcooled flow boiling in engine cooling systems
	684. Torque Optimisation of Motor in Active Grill Shutter
	685. Validation of Seat-Ventilation Simulations in terms of Temperature
176.	MiQ Digital India Pvt. Ltd. , Bangalore
	686. Development of a working prototype of a Redox Flow Battery from scratch
	687. Understanding the importance of Automation and Deep Learning in Digital Ad Campaigns
	688. Consulting & analysis of campaign data for multiple clients to enhance their performance.
177.	MM Aqua Technologies Ltd. , Gurgaon
	689. Application of Lean Manufacturing Practices in Gluing and Hammer section
	690. ESTABLISHING MANUFACTURING EXCELLENCE
178.	Morgan Stanley Advantage Services , Bangalore
	691. Parallelization of Non-Trading flow of different business products.
	692. Redesign Of Email Bounce Tracker Application Using Scala/Akka Tech Stack
	693. Front End Development In Angular
179.	Morgan Stanley Advantage Services , Mumbai
	694. Development of Recon and Automated Testing Tools
	695. Secure-key Authentication
	696. Active vibration Control with Machine Learning
	697. MSPM HUB
180.	Morningstar - Index Technology , Mumbai

	698. Indexes, Database Management
	699. Centre of Excellence
	700. Structured Deal Review
	701. Indexes Technology Intern
	702. To study and build models for different use cases of portfolio optimization and to build a risk model based on Morningstar proprietary data points.
	703. News Sentiment Analysis for International Equities.
181.	MSCI (IMR) , Mumbai
	704. BRM Team Processes Automation
	705. Quantitative Equity Index Research
182.	MSCI (NPD Index Research) , Mumbai
	706. Transaction level data scoring on big data platforms
	707. MSCI Quantitative Equity Research: Factor and Thematic Indexes
183.	MSCI Technology & Development , Mumbai
	708. Sentiment Analysis for Client Engagement Production
184.	National Aerospace Laboratories , Bangalore
	709. Research and benchmarking projects
185.	National Centre for Biological Sciences , Bangalore
	710. Structural characterisation of host-viral interface
	711. Regulation of glycan profile by Golgi structure
	712. Modulation of the host Mycobacterium interactions through genetic and chemical perturbation
	713. Propensity of Tumors in Pancreatic Cancer Mouse Model and Detection of Aldehyde-Induced DNA and Protein Adducts
186.	National Chemical Laboratory , Pune
	714. CONTROL OF NON-LINEAR CHAOTIC CSTR SYSTEM
	715. CFD Analysis of Biomass Gasifier using Fluent
187.	National Council for Cement and Building Materials , Ballabgarh
	716. System Design Developmen for Pre-Processing and Co-Processing of Alternate Fuel in Cement Plants.
	717. Heat Balance of Vertical Roller Mill
	718. Third Party Quality Assurance (TPQA) at various Mega Construction projects in MEP work.
188.	National Council of Applied Economic Research , New delhi
	719. Digitized Land Record
	720. Evaluation of Beti Bachao Beti Padhao: Performance of Secondary Schools & Sampling design and Manual construction, All India Citizens Survey on Police Services
189.	National Institute of Science and Tech. Dev. Studies (NISTADS) , New delhi
	721. Recruitment Portal V2 and Integration with Service Delivery Portal
190.	National Instruments India Sales , Bangalore
	722. SystemLink
	723. Fan speed control
191.	National Instruments Systems (India) Pvt. Ltd. , Bangalore
	724. Prototype OFDM Transmitter and Receiver & Channel Equalization In LTE Sidelink
	725. IQ Impairment estimation for MIMO systems
	726. Peak Detection and Consolidating Reporting
192.	NBC Bearings , Jaipur
	727. To understand the seal fitment design & process and improve seal fitment
	728. Valuations Control and Automation using Python
193.	NetApp , Bangalore
	729. SNAPMIRROR SYNCHRONOUS
	730. An Efficient Secure Distributed Storage for Append - only Data
	731. ONTAP Analytics
	732. File Analytics for Ransomware Attack Detection
	733. Cost Estimation Model for SaaS Backup
194.	Netcore Solutions , Bangalore
	734. Customer Success Management For Nectore's Smartech.
195.	Netcore Solutions , Mumbai
	735. Digital Marketing Strategy for Pepipost.com
	736. Product Management Activities
196.	NetSkope Software India Pvt. Ltd. , Bangalore

	737. Productivity Engineering project at Netskope
	738. Productivity Engineering Projects at Netskope
	739. Practice School at Netskope Inc.
	740. Client Software and Application Development
197.	Nomura - FinTech , Mumbai
	741. Progress on Voyager Program on behalf of FIO division & Business Management, Global Markets
198.	Nomura - Wholesale Strategy , Mumbai
	742. Solution and Non Traditional Financing
199.	Nomura Global Finance , Mumbai
	743. Optimisation and scaling of demand side platforms
	744. Full Stack Software Development
	745. Enhancing support for ESP-IDF and feature addition to varies ESP Products
	746. Platform Modernization for Servicing Communication
	747. Data analysis for campaign effectiveness and user acquisition sales
	748. Understanding complex phase diagrams of surfactants using rheology measurement.
200.	Nomura Global Markets , Mumbai
	749. Equity Research
	750. Developing market screenshot to capture DoD swings in Indexes and reasons causing them
	751. Unit Testing, Update Contact Attachment API and Image Display Widget UI
	752. A Study of direction provided by fintechs.
201.	Nomura Global Risk , Mumbai
	753. Affiliate Partner Strategy & Operations â€ˆ Wadogo, InMobi
	754. TOOL INTEGRATION AND TS FORECASTING THROUGH MACHINE LEARNING FOR TEAM HMDG AT NOMURA
	755. Marketing Launch of New Louis Philippe store and Market to Customer
	756. Enhancement of GFN with gaming AI assistance
202.	Novartis , Hyderabad
	757. Creation of internal Customer relationship management tool â€œSTEPâ€
203.	Nreach Online Services Pvt. Ltd. , Bangalore
	758. Business Process Automation and Product Marketing Management
	759. Marketing - Digital Marketing and BTL Marketing
204.	Nucleus Software Export Ltd , Noida
	760. AUTOMATED FEEDBACK USING FACIAL EXPRESSION RECOGNITION
	761. Verification of Documents uploaded using Image Processing
	762. Introduction to ELK Stack and its applications
	763. Text extraction from an image.
	764. Fraud detection using session details of a user.
	765. Extensibility through UI
205.	Nutanix Technologies India Pvt. Ltd. , Bangalore
	766. India Operations Dashboard
	767. Reducing fragmentation effect due to tcmalloc
	768. Xi Networking Dashboard and ANC Monitoring CLI
	769. Various Disaster Recovery related projects
	770. TCP-based Nutanix RPC Client in Golang
	771. IDF Containers, Benchmarking and Automation
	772. 1). CREATING NESTED AHV INSTALLED QCOW2 IMAGES. 2).EXPLORE DIFFERENT WAYS TO UPGRADE A LIVE PROCESS
	773. Streaming Kafka Infrastructure Framework and Fabric
	774. Binary Logging: An approach to make logs more informative and debugging more efficient
	775. Uptime Microservice
	776. Various Projects on Network Monitoring
	777. LCM Framework development for Dark Sites and bug fixes
	778. Adding proxy support and WebSocket implementation for Calm
	779. Nutanix on Google Cloud Platform
	780. Various tasks in Disaster Recovery
	781. COO Functions and Volcker Metrics Generation
206.	Nvidia Graphics - Hardware , Bangalore
	782. C based generator model for various compression algorithms in GPU

	783. NA/CDC Waiver Generating Tool
	784. Formal connectivity of PADRING IP and LA functional Coverage
	785. Memory Sub System - High Speed Hub Verification
	786. Formal Verification and Functional Coverage of design
	787. PCIe IP Level Vericaition
	788. Conversion from 2 symbol mode to 4 symbol mode in Transmit block of Physical layer of PCIe
	789. Intelligent Test Scheduling system for CPU Verification
	790. Power optimization and Estimation for different use cases of CMOS Chips
	791. Optimization of BOOTROM Software and Hardware Verification
	792. Transaction Tracking Tool for Memory management Unit (MMU) using FSDB Post Processing
	793. Functional Safety Tools for Automotive Systems
	794. FAULT SIMULATION OF IO PADS FOR GPU CHIP
	795. Modelling Nvidia's High-Speed PHY to make it a part of System FPGA.
	796. Layout design from netlist to GDS for a GPU
	797. Boot Architecture Modelling and validation
	798. Low Power Sequence Monitor
	799. Tegra Memory Sub Systems Verification
	800. Analysis of Data transmission through Ethernet
	801. Discovering optimization opportunities through value profiling
	802. Verification of Tegra Control Backbone(CBB)
	803. GUI for SoC for Address Framework and AXI Protocol Converter
	804. Applications of formal verification in ASIC design
	805. Memory Qualification and Validation of GDDR6 memory
	806. Backend Support for Microsoft - ServicesHub
	807. Formal Verification of Tightly Coupled Memories
	808. Usecase Based Optimal Transmit Scheme in Automotive Ethernet with TSN
207.	Nvidia Graphics - Software Systems , Pune
	809. Third party rules import using VIB API for Fusion Loyalty/Quality improvement for NVIDIA s Display Sanity Framework
	810. BRAND CAMPAIGN MANAGEMENT à€ BUSINESS DEVELOPMENT
	811. Power Consumption Monitoring of Graphics Processing Unit
	812. Automation for building nvidia driver against a range of Linux kernels and nvidia display driver quality enhancement
208.	Nvidia Graphics -Software , Bangalore
	813. Yocto And Genivi Framework Analysis And Upgrade For NVIDIA DRIVE Automotive Platform
	814. VALIDATION AND FEATURE ENHANCEMENTS OF NvSciBuf
	815. Optimisation of Boot KPI on NTG7 Automotive Platforms
	816. Automation of Unit Testing
	817. Tool For Generating Tool Qualification Report.
	818. Development of a Safety Network Configuration tool and a tool for Stress Testing
	819. Safety Framework Configuration Tool
	820. Emulation of embedded multimedia frameworks on x86
209.	OfBusiness , Gurgaon
	821. Clustering Products in Database, Information Verification API and Company Connections
210.	OYO Non Tech , Gurgaon
	822. CHANNEL PARTNER EXPANSION AND ADD-ON SERVICES POST BOOKING
	823. Product Analytics
211.	Oyo Rooms - Non tech , Mumbai
	824. 1.Market Research and Lead Generation; 2. Analysis and implementation plans to increase brand loyalt amongst clients.
212.	OYO Tech , Gurgaon
	825. Feature development for Consumer Web Application
	826. TIME SERIES DATABASES: RESEARCH AND IMPLEMENTATION
	827. SAP Syncing and SAP Stability
	828. SAP Sync Stability
	829. OYO OS Property Operations
	830. Hotel Management System
	831. Reconciliation Control

	832. OYO Orderings and Bookings
	833. CLIENT AND USER SEGMENTATION
	834. Availability and Occupancy Service
213.	OYO Tech , Hyderabad
	835. OYO for Business Rewards System
	836. Wallet Recharge, BTC Approval Flow, Vendor and Travel Agent Commission Payouts.
	837. Backend Development of Oyo Optimus App
	838. OYO's Internal Ordering System
	839. Authotisation Service
214.	PAYPAL , Bangalore
	840. Framework to support Interface Contract Validations in Distributed Systems
	841. Historical simulation for VaR calculation by strategic production
	842. Slackbot for faster CI and Insights As A Platform
	843. Advanced Search Capabilities on Android, ETA Phase 3
	844. Alerting and Monitoring System
	845. The Business Leads Funnel
	846. Chatbot for Merchant Reporting Portal
	847. Impact Assessment of AICTE affiliated technical institutes in the North East
	848. UI Design Studio to generate Templates for Merchant Onboarding application in PayPal
215.	Paypal , Chennai
	849. INTEGRATION OF DISPUTE PORTAL TO ADMIN TOOL OF PAYPAL.
	850. Developing a visibility dashboard to display real-time metrics for large batch payouts
	851. Galileo and Galilei: Tools to detect and correct payment alerts
	852. Developing a visibility dashboard to monitor real time file metrics
	853. 1. Merchant Monitoring Bot 2. Instant App 3. Optimization for WebView Checkout
	854. Automating testing of invoiceserv v1
	855. Logging and Monitoring
	856. SEARCH PLATFORM SELF SERVICE PORTAL
	857. Automation of API's in Shipping Product
	858. IDENTIFICATION OF FRAUDULENT SELLERS
	859. Monitoring and alerting dashboard
	860. Resolution and Protection policies
216.	Petasense - Services & App Development , Bangalore
	861. Operations and Business Analytics
	862. Full Stack Development at Petasense
217.	Pfizer Ltd. , Ahmedabad
	863. Mitigating Manufacturing & Supply Disruptions through Robust Regulatory Strategies for Alternate Supplier and Site Qualification.
218.	Pfizer Ltd. , Chennai
	864. Regulatory requirements for minor post approval changes (CMC) in USA, Europe, Australia, Canada and Brazil
	865. REGULATORY REQUIREMENTS FOR THE RENEWALS OF FINISHED PHARMACEUTICALS IN EUROPE AND SOUTHEAST ASIAN COUNTRIES
	866. Orphan Drugs: Legislation Governing Designation Criteria and Its Submission Requirements In Regulated Markets With A Special Emphasis On US And EU
	867. Regulatory Requirements In Registration of NCE and Generics in ASEAN Countries and Australia.
	868. Regulatory Requirements of Over the Counter drugs (OTC) in US market
219.	PharmaACE , Pune
	869. MARKET OPPORTUNITY ASSESSMENT FOR PIPELINE ASSET IN ASTHMA AND CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)
	870. Predictive Alerts for Cancer Patients
	871. MARKET ASSESSMENT AND DEVELOPMENT OF A FORECAST FOR A CLIENT COMPANY FOR AN INLINE PRODUCT IN PSORIASIS [PSO]
	872. CANCER METABOLISM BASED COMPETITIVE INTELLIGENCE ON MYELOID DYSPLASTIC SYNDROME, PERIPHERAL T-CELL LYMPHOMA AND CONFERENCE COVERAGE FOR BUSINESS DEVELOPMENT & LICENSING
220.	Piramal Group , Mumbai
	873. APPLICATION OF DATA SCIENCE TO MAXIMIZE SOCIAL IMPACT OF PIRAMAL SWASTHYA'S MOBILE MEDICAL SERVICES

	874. Model Automation
	875. Digital campaign for PCHF
	876. Distributor Network Segmentation
	877. P1-Glass Bottles Production Efficiency Optimization; P2-Piramal Critical Care Sales Report Automation and Intelligence Model
221.	Pluss Advanced Technologies Pvt. Ltd. , Gurgaon
	878. EV Battery Thermal Sleeve & Microencapsulation
222.	PricewaterhouseCoopers (PWC) , Hyderabad
	879. Quadrant Analysis for selection of suitable industrial clusters & Industrial strategy for focus sectors of Gujarat
	880. Comparative Study of Operational Management of Delhi Metro
223.	PricewaterhouseCoopers (PWC) , Mumbai
	881. Study of City Gas Distribution system in India for a Japanese client
	882. Study of Indian City Gas Distribution
224.	PricewaterhouseCoopers (PWC) , New delhi
	883. Study of Minigrids in India
	884. Demand Side Management capacity building in distribution companies along with knowledge exchange between UK and India
	885. 1. Verification of establishment of Sustainable Development Unit for World Bank's proposed loan of USD 16.5 million 2. Technical Assistance to client in Solomon Islands for detailed energy audits, assessing Self Generation Options (SGOs), preparation of tender documents and support in capacity building activities 3. India programme - knowledge exchange on approaches for enhancing cleaner energy deployment through consumer behavior and smart grids 4. Document preparation for tender on Energy assessment for capacity estimation of solar power projects at all three manufacturing units of client 5. Document preparation for tender on Project Management Consultant for providing support to client on Energy Efficiency and Energy conservation activities in the state of Uttar Pradesh 6. Concept notes for client's entry in Maldives 7. Verification of DLI-1, 2 & 3 for World Bank's proposed loan of USD 25 million
	886. Financing Energy Efficiency in MSME
	887. Energy Efficiency of Buildings
225.	Publicis Sapient , Bangalore
	888. CREDIT CARD FRAUD DETECTION AS A SERVICE
	889. Credit Card Fraud Detection as a Service using Deep Learning
	890. Coupon Library
	891. FAQ ChatBot
226.	PwC DIAC US Advisory , Bangalore
	892. Customer Lifetime Value As A Service
227.	PwC DIAC US Advisory , Mumbai
	893. Social Media Listening and Topic Modeling
	894. Dashboard creation with Tableau, Alteryx and SQL & Time Series Forecasting using Various Techniques
	895. Data Analysis and multi variate data visualisation
	896. DevOps and Resilience External Sensing Tool
	897. BAYESIAN OPTIMIZATION FOR LIFESTYLE INTERVENTION OPTIMIZATION
	898. Implementation of AI techniques in business domain
228.	Qualcomm India Pvt Ltd- Bangalore , Bangalore
	899. Verification of memory controller and per bank refresh test case bring up.
	900. POWER AWARE VERIFICATION FOR DDR SUBSYSTEM
	901. MODELLING AND DESIGN VERIFICATION OF A SYSTEM ON A CHIP
	902. Verification of SMMU Features
	903. Design for testability in VLSI systems and Test-point optimization for coverage, test-time and X-tolerance using XLBIST
	904. Research and Market Analysis for Cloud Partner Benefits and Addressable Cognitive Market
	905. Design of a single-chip solution of Pulse oximeter using the MSP430FR2355CU
	906. AUTOMATION,ALGORITHM AND ITS IMPACT
	907. MACHINE LEARNING BASED SOLUTIONS FOR SUPPORT-SIDE AUTOMATION AND HOLD-FIXING TECHNIQUES WITH LAYER DEMOTION
	908. Beejak Metadata Tuner
	909. Physical Design and Automation
	910. Co-Sim based Rapid Architecture Exploration
	911. Power Computation and Analysis of CPU

	912. Design of APB Master, Divider and APB Arbiter to obtain the division of system register values
	913. HKADC Buffer Design (RFIC)
	914. Synthesis of System-on-Chip components using Design Compiler and Timing Analysis of generated netlist
	915. 1. API Design and Payload Architecture for Integration with External Payments Service Provider ; 2. Full-Stack Development for Component Resources in Stored Value Administration Tool
229.	Qualcomm India Pvt Ltd. , Hyderabad
	916. Study of Synthesis flow in SoC design
	917. DMA ENGINE VERIFICATION AND PROFILING
	918. Development of Python based Modem Log Parser for Power Analysis
	919. Implementing Qualcomm FLOW Tool at chip level and its Automation
	920. AUTOMATION OF FUNCTIONAL COVERAGE CODE GENERATION FOR SOC BUS VERIFICATION
	921. Broadcast Audio Refactoring and Kernel Programming
	922. MODEM FIRMWARE DEVELOPMENT
	923. CPU Profiling
230.	QUANTIPHI , Mumbai
	924. Design of High Speed Datapath Circuits.
	925. Finance Reporting Strategy (FRS) Program
	926. Text and Image Detection and Recognition
231.	Qubole , Bangalore
	927. Upscaling Downscaling of Kubernetes Cluster and Detect False Positives in Cleanup Worker
	928. Zeppelin Development
	929. Developing and Contributing to Qubole Hive
	930. RF Low Noise Amplifier
	931. Improving Apache Spark Cluster Computing Framework
	932. UI Tests with Multi Threading and Account Parallelization, Checkstyle And Qubole Version of Apache Zeppelin
	933. Qubole Platform Analysis
	934. Internship with Drivers Team
	935. Working On Cloud Infrastructure
	936. Hadoop YARN
	937. Financial Intelligence,Rates (Deutsche Bank)
	938. Development of features for Streaming Platform Quest
	939. SEM 1 (2018-2019): Build a Cross Platform Mobile App to Perform Offline Facial Recognition and Intelligent Insights Mining; SEM-2 (2018-2019): Quantify Open Text User Comments using Various Kinds of Word Embedding Techniques and Intelligent Insights Mining (Extended)
232.	Ramboll India Pvt. Ltd. , Gurgaon
	940. Swasea central Arena
	941. Analysis and Design of Building Structural Elements as per European Standards
233.	Reflexis Systems India Pvt Ltd. , Pune
	942. EPP FRONT END DEVELOPMENT AND BACK END TESTING
	943. IOS App of Clock
	944. Implementation of Multitenancy support in Time and Attendance Module
	945. Frontend Development with React
	946. RWS - Resource Bundle Utilities
	947. Reflexis Workforce Scheduling
234.	Reliance Jio , Bangalore
	948. Configurational Data manager and automatic sync of config files with deployment boxes
	949. Containerizing services that enable vMotion using Docker
	950. Improvement in search workflow of reliancedigital.in

235.	Reliance Jio , Hyderabad
	951. MEAN Stack Web application development
236.	Reliance Jio , Mumbai
	952. Jio-ANPR
	953. Jio Parking, Jio ANPR
237.	ReportGarden Technologies Pvt. LTd. , Hyderabad
	954. Projects for team RDMC at Nomura
238.	Rivigo Non Tech , Gurgaon
	955. Analysis of Metrics for Prime products
	956. FASTAG ADOPTION, ISSUER BANK INTEGRATION AND AUGMENTING FREIGHT SALES AND OPERATION
	957. Driving Payment Products at Rivigo
	958. Product management in the Sales Ecosystem
239.	Rivigo Tech , Gurgaon
	959. Full Stack Development of Consignment Tracking Tool
	960. Functional Validation of GPU PCIe
	961. Empowering Sales Team With Unprecedented Data and Intelligence Using Java Based Frameworks
	962. Full Stack Web Portal Development
	963. ENHANCEMENT OF USER EXPERIENCE BY SERVICES SUCH AS VEHICLE TRACKING, SUPPORT SECTION and WALLET STATEMENT
	964. Location Tracking And Address Blocking
	965. Front End User Interface Development for Rivigo's Prime Division using ReactJS and Redux
240.	Robert Bosch Center for Cyber Physical Systems , Bangalore
	966. Business Analysis and Productivity Improvement
	967. API Implementation and Security in India Urban Data Exchange Catalogue Service
241.	Samhita Social Ventures , Mumbai
	968. Wash Platform IT Infrastructure Management
242.	Samsung R & D Institute , Bangalore
	969. Performance Evaluation of Multilayer Data Protection and Blockchain based trusted authentication in IOPS
	970. Spectrum Sharing Study
	971. Adding ONNX framework to the Samsung's Neural Accelerator Platform
	972. Improving JavaScript V8 Engine for lot devices
	973. Study of Noise and SNR in a smartphone camera
	974. Application development for IoT-enabled Doors
	975. Smart Reply
	976. Autobot- Automation Framework
	977. Context based Question Answering
	978. Identification of Anomalous Applications in Android Mobile Devices using Machine Learning Techniques
	979. Profiler and Model Inference
	980. Applying Deep Reinforcement Learning to the LTE MAC scheduler
	981. Samsung Consumer Electronics Chatbot
	982. Hand pose estimation using swarm intelligence
	983. Bi-LSTM Based LTE Turbo Encoders and Decoders
	984. Settings Recommendation for Appliances using Machine Learning
	985. Personalized AI Streaming
	986. Manipulation of Image Previews based on ROI Position and Movement
	987. Signaling message Parser
	988. Time Domain Sequence Generation and Receiver Design for NR PRACH
	989. Depth Enhancement Using The Bilateral Solver.
	990. On device machine learning application : unified context modelling engine
	991. App performance improvement using Reinforcement Learning
	992. Automatic zooming of lens using Aesthetic score and Roi position
	993. Voice Analytics for Bixby 2.0
	994. Android Application Development for Text Classification
	995. Samsung Multi Device Portal - Content Recognition Engine (CRE)
	996. Know your Face Inherence: A method to determine Various Facial Attribute Types
	997. MULTIPLE FACE ATTRIBUTES MATCHING

	998. Semantic Role Recognition
	999. Human Ear Contour Detection
	1000. A REPORT ON FEEDBACK PREDICTION
	1001. CNN based foot segmentation
	1002. GENERATION OF SYNTHETIC FOOT DATA FOR AUGMENTED REALITY
	1003. Selection of representative product images from user gallery images
	1004. Developing Benchmarking Application for Assessing Platform Complexity
243.	Samsung R&D Institute India-Delhi (SRI-D) , Noida
	1005. Identity And Access Management, Server Infra and Security
	1006. A Lightweight Technique for Robust Text-Dependent Speaker Identification for Short Utterances
	1007. Quality of Search Analysis using knowledge graphs
	1008. Brain Computer Interfacing for binary classification
244.	Samsung Semiconductor India R&D Center-Hardware , Bangalore
	1009. Standardization of libraries in standard cell design flow
	1010. Step response of a current mode controlled DC DC converter.
	1011. Python Scripting and Modifications in the SystemC code for AES block
	1012. ATPG Fault Classes
	1013. SoC Design
	1014. SoC Design Flow
	1015. Power Estimation Using PrimeTime PX
	1016. LOYALTY TEAM PROJECTS
	1017. Memory Characterization of SRAM
	1018. Formal Assertions and Cover Properties for SAS based existing Design Module
	1019. Clock Domain Crossing (CDC) Violations check using Meridian CDC
	1020. Lane detection using image processing
	1021. Log automation in communication systems
	1022. Multiplatform Solid State Drive Verification Software
	1023. Module to module timing analysis, analyze tool behavior, analyze effect of different placement options to mitigate congestion and improve on Quality of Report (QOR).
	1024. GEN-Z ARCHITECTURE FOR MEMORY BUS IMPLEMENTATION
245.	Sattva Media & Consulting Pvt Ltd , Bangalore
	1025. 1) centralised database for sattva (2) Magic Bus Youth Livelihood Program (3) Need Assessment Study for Castrol (4) IMPACT - ASSESSMENT STUDY FOR NIIT
246.	Searce , Bangalore
	1026. Smart-KYC design
	1027. Dataflow Pipelines for Data Migration and Real Time Analysis
247.	Servicenow Software Development India , Hyderabad
	1028. Elastic search
	1029. DevOps Automation for IoT
	1030. JVM Performance Analysis
	1031. Build Next generation UI for Visual Task Board
	1032. Enhancement in Exclusion and Preserver
	1033. Test Automation Frameworks
248.	Shell Technology Center , Bangalore
	1034. Improving the Quality of Bid Proposals and Bid Management Process
249.	Siemens PLM Software , Pune
	1035. Migration of MES software to Cloud
250.	Siemens technology and Services Pvt ltd , Bangalore
	1036. 1. Warranty cost Analytics, 2. Harmonic balance simulation for Turbo machinery application
	1037. Cellular Automata Based Traffic Modelling
	1038. Automated conversion of 2D orthographic drawings to solid model
	1039. Numerical Simulation of Trapped Vortex Combustor
	1040. Aeroacoustic simulations of supersonic flow through orifice
	1041. Indoor Navigation System for Emergency Responders
251.	Skoda Auto India Pvt. Ltd. , Aurangabad
	1042. Improvements in Audi Q7 line and Integration of Audi Q7 NG & Audi A6 NG
	1043. NEW PROJECTS IMPLEMENTATION: - AUDI A6 NG
252.	Skoda Auto India Pvt. Ltd. , Gurgaon

	1044. CNG Market Study and Daily Sales Report Format (New)
253.	Skoda Auto India Pvt. Ltd. , Mumbai
	1045. Sales planning and reporting at SKODA
	1046. Market Research & Competition Analysis
254.	Society for Health Information Systems Programme , Noida
	1047. AMR SURVEILLANCE RESEARCH
	1048. Profit and Loss Reporting in Product Control
255.	Spicer India Ltd. , Jodalli
	1049. Reducing Man-hours required per shift of Inward Inspection at Spicer India Pvt Ltd
256.	SRF Ltd. , Gurgaon
	1050. Preparation of BEP package for P-14 Plant
	1051. Designing of Basic Engineering Package for Batch Process
	1052. Research and Benchmarking Projects at KPMG
	1053. Divisional allocation of exposure and collateral
257.	StateStreet Global Advisors , Bangalore
	1054. Work done in Fixed Income, Cash and Currency
258.	Strand Life Sciences Pvt Ltd , Bangalore
	1055. Interpretation and reporting: rare diseases
	1056. Clinical interpretation of breast and ovarian cancer patients using Next generation sequencing techniques.
259.	Sun Mobility , Bangalore
	1057. Building and Supporting Marketing Activities for the Organization (SUN Mobility)
	1058. API Implementation and Testing in India Urban Data Exchange Catalogue Service
260.	Symphony Fintech Solutions Pvt. Ltd. , Pune
	1059. Optimising Trading System for Latency
261.	Synergiz Global , Hyderabad
	1060. IMPLEMENTATION OF BIM SERVICES AND STRATEGIC PLANNING TO BUILD A DESIGN TEAM
262.	Synopsys India Pvt. Ltd. , Hyderabad
	1061. PDK Frontend Training and PDK Development
	1062. PDK Development.
	1063. DFT BASED PROJECT
263.	TapChief , Bangalore
	1064. Automation of Quarterly Deck Generation for ICS Model Tracking
264.	Tata Autocomp Systems Ltd. , Pune
	1065. Cost Benefit Analysis of Polymer Usage across Business Units and Evaluation of Spend Analysis for cost optimization in outbound transportation services
	1066. Supplier Quality Management
	1067. EVALUATION OF SPEND ANALYSIS AND COST OPTIMIZATION OF INDIRECT MATERIALS AND OUTBOUND TRANSPORTATION SERVICES
265.	Tata Chemical Innovation Center , Pune
	1068. Spice Cubes
	1069. Functionalization of nano-silica for tyre applications
	1070. Study of the Physicochemical Properties of FOS and its components
	1071. TASTE IMPROVEMENT OF SALT SUBSTITUTES WITH FOOD INGREDIENTS
266.	Tata Motors Ltd. , Jamshedpur
	1072. Deming Way - Timely Engine Supply to Assembly Lines
267.	Tata Motors Ltd. , Pune
	1073. Analysis of trends in raw material cost of bus bodies
	1074. Mapping, Analysis and Elimination of Productivity losses in Winger BIW
	1075. IMPROVING MEASURE OF PERFORMANCE ON THE M/HCV CHASSIS LINE
	1076. STUDY OF WARRANTY ISSUES OF EGR VALVE, Oil SYSTEM, CATALYTIC CONVERTER AND TURBOCHARGER AND SUGGEST IMPROVEMENTS TO RESOLVE CUSTOMER PROBLEMS
	1077. Quality Improvement of LPT cabin
	1078. Proto Development of 18 Cum Moon on LPK 3118 Chassis
	1079. Proto-Fabrication of Tipper, Trailer and RMC mixers.
268.	Tata Technologies , Pune
	1080. Automotive Engine Mount Design Optimization
	1081. Development of SCR Simulation methodology for BS-VI Regulations

	1082. Development of Vehicle Pushing Equipment
	1083. ESTIMATION OF ENGINEERING CONSTANTS OF METAL SANDWICH COMPOSITE BY APPLICATION OF DIFFERENT METHODS
	1084. Synchronization of Crank Cam for Injection and Ignition Timing
269.	Taxilla Info Pvt. Ltd. , Hyderabad
	1085. CSV TO EXCEL CONVERTER
270.	Tecture Structures Pvt Ltd. , Nagpur
	1086. Structural Design building components
271.	Tega Industries Ltd. , Kalyani
	1087. Reduction of cycle time (loading, unloading & waiting time) and possible solution to reduce wastage of material.
272.	Tega Industries SEZ Ltd , Dahej
	1088. PRODUCTIVITY IMPROVEMENT IN MOULD AND BLASTING DEPARTMENTS
273.	Tejas Networks , Bangalore
	1089. GPON BASICS AND WIFI ACCESS DEVELOPMENT
	1090. Deployment and Testing of GPON
274.	TESCO Hindustan Service Centre , Bangalore
	1091. Sales impact analysis due to: 1. CNC minimum basket reduction 2. Bag less initiative
	1092. Forecasting Techniques & Their Application
275.	Texas Instruments (I) Pvt. Ltd - Systems , Bangalore
	1093. Pitching strategic options to a leading company in the Consumer Retail Group (CRG) sector.
	1094. DIGITAL PREDISTORTION IN POWER AMPLIFIERS
	1095. DEVELOPMENT OF AN AUTOMATIC TEST SOLUTION FOR DRV8304S
276.	Texas Instruments (I) Pvt. Ltd. -Analog , Bangalore
	1096. Characterization and Measurement of BLDC Motor Parameters
277.	Texas Instruments (I) Pvt. Ltd. -Digital , Bangalore
	1097. Profit & Loss Reporting for NOMURA (Investment Banking Division)
278.	Texmaco Rail & Engineering Ltd. , Kolkata
	1098. OPTIMIZATION OF THE PROCESS PARAMETERS OF STEEL MELTING PROCESSES.
279.	Thinkerbell Labs - Electronics , Bangalore
	1099. Enhancement of Preexisting Annie Hardware
	1100. Prototype development & Streamlining supply chain for Annie
	1101. Create a Marketing Strategy to Establish a Beneficiary On- Boarding Process
	1102. Market Research and Social Media Marketing Campaign
280.	Thornton Tomasetti , Mumbai
	1103. A Report on Shop Drawing Reviews of Various Projects and Software Related Work
	1104. A Report on Shop Drawing Review of Memphis Airport and quantity estimation of Nexworld
281.	Thorogood , Bangalore
	1105. PROVIDING BUSINESS INTELLIGENCE AND ANALYTICS SOLUTIONS TO MNCs
	1106. Analysis of data of Clients using Business Intelligence Consulting and providing solutions using the same
	1107. Building end-to-end data analytics systems using Business Intelligence tools
282.	UBER , Hyderabad
	1108. Project Northstar: Marketplace Intelligence
	1109. Policy Engine
283.	UBS - Group RISK , Mumbai
	1110. Profit and Loss Reporting
	1111. Deploying ML workloads on Kubeflow Pipelines
284.	UBS Business Solutions (India) Private Limited - Finance Group , Pune
	1112. Private Banking And Dormant Centers Closure
	1113. Total Direct Cost and Workforce Headcount Analytics
	1114. PROCESS DEVELOPMENT AND AUTOMATION FOR ANALYTICS SERVICES USING BUSINESS OBJECTS AND EXCEL- MACRO
	1115. Dual Degree Student. 1st sem - DATA ANALYTICS TO ANALYSE POLICIES FOR GOOD GOVERNANCE, 2nd Sem - RESEARCH OF DIFFERENT AVENUES FOR MOBILE ADVERTISEMENTS
	1116. TREND ANALYSIS OF BALANCE SHEET OF WEALTH MANAGEMENT(ZURICH) AND PREPARATION OF DAILY LCR REPORT AT UBS PUNE
	1117. Accounting of Wealth Management (Zurich)- Corporate Centre

	1118. REVENUE RECOGNITION AND PRODUCT CONTROL
	1119. INTEGRATED MIDDLE OFFICE (IMO) UBS
285.	UBS Business Solutions (India) Private Limited - Group Operations , Hyderabad
	1120. KYC Periodic Reviews and Background Checks as per latest SEBI guidelines
	1121. Improving Operational Efficiency for Capacity Planning
286.	UBS Business Solutions (India) Private Limited - Group Operations , Pune
	1122. Performing & KYC(Know Your Customer)& On Clients And Automation of Its Various Stages
	1123. Validation of 50th percentile male "Relaxed" human body model using ISO 9790 load cases.
287.	UBS Business Solutions (India) Private Limited - RAS FINANCE , Mumbai
	1124. Co-Sim Based Rapid U-Arch Exploration
	1125. HARD REVENUE TRANSFER
288.	UBS Business Solutions (India) Private Limited - RAS FINANCE , Pune
	1126. Investment Bank Reporting at UBS
	1127. Credit Suisse Equity Research-Preparation of initiation report for City gas distribution(CGD) sector.
	1128. UI development using react js/testing automation using automation development tool
	1129. Development of Graphical user interface (GUI) for electronic equipments used in R&D lab for automation purpose
	1130. A report on market Research
	1131. DATA PROTECTION, DATA CATEGORIZATION AND GROUP RISK CONTROL
	1132. Reporting and Performance Analytics & Application Automation Tools
	1133. FINANCIAL REPORT FORMAT PREPARATION AND OFFLINE DATA LOAD IN GROUP FINANCE REPORTING
	1134. Risk Management
289.	UBS Business Solutions(India)PrivateLimited-Group Operations , Mumbai
	1135. Robotic Process Automation- Readiness Team
	1136. Delivery of Robots for Robotics Process Automation (RPA) Team
	1137. STATIC CHECK OBSPOINTS
	1138. Concept Development of Taper Roller Bearing for Semi Float Axle Application
290.	Udaan , Bangalore
	1139. Financial Planning & Analysis
	1140. Financial Planning and Analysis
	1141. STEADY STATE COST OPTIMIZATION OF FM, LM, MM LEGS FOR FOOD AND FMCG OPERATION.
	1142. Handling social media platform of unnati.
291.	UPGRAD , Mumbai
	1143. Multi-platform application development on Android and iOS
	1144. Improve the feedback given by graders, aiding in sampling and improving the grader platform
	1145. Feature Extension of Rules Engine
292.	UST Global - Business Domain(Cochin) , Cochin
	1146. Market Analysis on current accounts as well competitors based on secondary research and gathering target audience of a marketing campaign
293.	UST Global - Cochin , Cochin
	1147. ROI Calculator Web Application and Platform Integration
294.	UST Global Infinity Labs-Robotics , Thiruvananthapuram
	1148. TRADE FUNDS MANAGEMENT SOFTWARE
	1149. Design of Embedded System for Control and Navigation of an Automated Guided Vehicle
	1150. Brain computer interface
	1151. Operations Process improvisation
	1152. Face recognition and automatic parking system
295.	UST Global- Trivandrum , Trivandrum
	1153. Blockchain- Some usecases(POE 2.0, SpeedChain, Blockchain Tool Factory)

296.	VCTIP Pvt. Ltd. (Market Data Forecast) Research Associate , Hyderabad
	1154. Content Writing - Report Description (RD)
	1155. Industrial Market Research on companies in Healthcare, Agriculture, Food & Beverages, & Chemical Domains
	1156. Report Writing
297.	Viacom18 Media Pvt. Ltd - Corporate Strategy , Mumbai
	1157. Ratings Prediction Model
298.	Viacom18 Media Pvt. Ltd - Digital Ventures , Mumbai
	1158. Robotic Process Automation, Innovations and Customer Relationship Management
	1159. Actuarial Evaluation Project - Big Data Analytics
	1160. Developing a R model to automate prebilling process by obtaining the accurate weight for each shipment using past data and analytics technique.
	1161. Mapping Voot Demographics, Chinese Ecosystem and Branded Content Landscape
299.	Vitor Healthsciences Pvt. Ltd. , Bangalore
	1162. Developing Bluetooth Modules for Health Devices and Vitor Dashboard App.
	1163. Developing Bluetooth Modules for Health Devices.
300.	VMS (Vakil Mehta Seth) Consultants Private Limited , Mumbai
	1164. Designing Heights to Infinity
	1165. Analysis and Design of Multi storey buildings
	1166. Analysis and design of steel -concrete composite multi-storeyed structure
301.	VMware Software India Pvt. Ltd. , Bangalore
	1167. Automation of Deployment and Configuration process of Skyline (VMware product)
	1168. Analysis and insights from capacity planner data
	1169. VCF-ServiceNow Integration
	1170. Exception Matching Analysis and Anomaly Detection
	1171. Enable RAV Migrations in old vCenter versions
302.	VMware Software India Pvt. Ltd. , Pune
	1172. Guest Introspection
	1173. Differential Amplifier based Repeater design for high speed clock path
303.	Walmart Global Technology Services , Bangalore
	1174. Product and Web Development
	1175. Azure Migration of Elastic Search and CI/CD Pipeline
	1176. Kinematics and Compliance of Vehicle Suspension System
	1177. POC on Migration of CMS from Oracleâ€™s XM to Walmartâ€™s Tempo.
304.	WCB Robotics , Hyderabad
	1178. Design, Manufacturing and Control of Window Cleaning Robot
305.	Wealth India Financial Services Pvt. Ltd , Bangalore
	1179. Improve overall experience of users on web, android and ios platform of fundsindia.
306.	Western Digital (SANDISK) , Bangalore
	1180. 24 DUT Carrier with Current Measurement Design
	1181. Power Cycle Tool Code Modification and Windows Driver Development for Host Memory Buffer
	1182. Activescale
	1183. Introduction to FTL and Enhancement of FTL Simulator
	1184. ANOMALY DETECTION USING MACHINE LEARNING
	1185. Design of High Speed CMOS Relaxation Oscillator using Feedforward Period Control Scheme
	1186. 1. JP Morgan Chase & Co. - "Operational Risk Management in Corporate Banking" ; 2. UBS, Pune - "Financial Data Management"
	1187. OKR Tool automation system
	1188. UDA Development for NAND Evaluation Platform used for Memory Reliability & Qualification
	1189. Unit Testing Framework for NVMe SSD CommonFramework Validation Platform
	1190. Firmware Development of Test programs for USB and uSD/SD Controller to screen out bad memories
	1191. Development of debug framework for an existing system NAND evaluation Platform.
	1192. Unified Logger Design
	1193. Market Risk and Analysis based on VaR
	1194. System Test Checkout Automation Framework
	1195. 24- DUT tester design with Current Measurement Unit
	1196. System Test Automation (USB/SD/microSD)
307.	Whirlpool , Pune

	1197. EXPERIMENTAL STUDY OF HOT GAS DEFROSTING IN VAPOUR COMPRESSION CYCLE (ON ACTUAL PRODUCT)
	1198. Glass Failure Modelling
	1199. Virtual Environment for Remote Access to Software Development with Hardware in Loop
	1200. Adhesive modelling in LS Dyna
308.	William O Neil India Pvt Ltd , Bangalore
	1201. Research on various Investment strategies
	1202. Factor Research and Recommendation Engine
	1203. Equity Research - Global, Software Sector
309.	Worley Parsons India , Mumbai
	1204. Affiliate Partner Operations - Wadogo Supply
310.	Xilinx India Technology Services Pvt. Ltd. , Hyderabad
	1205. FPGA Implimentation of STA
	1206. Graph Visualizer
311.	Zendrive India Pvt Ltd , Bangalore
	1207. GPS Speed Performance during Extreme Acceleration and Improvements to Sensor Fusion Estimates
	1208. Design a scalable UI For Dogfood App, Migration of dogfood app from Objective C to Swift
	1209. 1) SensorLab - Android, iOS; 2) HERE Maps speed limit retrieval; 3) Collision detection and DvP prediction using Deep learning
	1210. Deployment at Zendrive Backend
	1211. Setting up static analysis pipeline and investigating battery drain
312.	Zeotap India Pvt. Ltd. , Bangalore
	1212. Data Engineering and Telco Ingestions
	1213. Connect Dataplane and Client ETL
	1214. Data Partner Management Console
313.	ZiMetrics Technologies Pvt. Ltd. , Pune
	1215. Development of a CI/CD pipeline to automate the delivery of a data platform for ingesting and processing diabetes data and sending notifications to care partners
	1216. POC for the client organization to showcase the capabilities of AWS Sagemaker
314.	Zinnov Management Consulting Pvt. Ltd (IT Project) , Bangalore
	1217. OPTIMIZATION OF PIPELINE FRAMEWORK
315.	Zinnov Management Consulting Pvt. Ltd., , Bangalore
	1218. B2B Landscape in India; Tier 2 City Analysis
	1219. GENDER DIVERSITY STUDY (INDIAN Perspective) 2.STUDY OF HR ORGANIZATION STRUCTURE
	1220. Internet of Things Market Opportunities in India
	1221. Initiation of Customer Referral Program
	1222. Zinnov Zones ER&D, IoT and M&T Reports 2019
	1223. Tasks at Zinnov - Building alerting system
316.	Zinnov Management Consulting Pvt. Ltd., , Gurgaon
	1224. Financial Data Flow & Control of Single Cost Ledger at UBS

LIST OF PROJECT ASSIGNMENTS FOR FIRST SEMESTER 2019-2020

1	Aditya Birla Group -Data and Analytics , Bangalore
	1. Fashion Quotient
	2. Kalman Filter and License Plate Recognition
	3. Mission Happiness
	4. Anomaly Detection in IoT Data
	5. Traded Commodity Forecasting
2	Aditya Birla Insulators , Halol
	6. DESIGNING SOPs & HIRA FOR PPC AND WAREHOUSE
	7. A Project On Vibration Mitigation & Reliability Engineering in CNC Machines
	8. Alalysis of Plant Layout Mangement and Calculation of Product Cost

3	Aditya Birla Science & Technology Company Ltd. , Mumbai
9.	Enhancement of Whiteness Index of Birla White Cement
4	Adobe Systems , Bangalore
10.	Defocus Map
11.	Object Homogeneous Defocus Map Estimation and Automatic Crop for Export Workflow
12.	AutoComplete Edit Suggestions and Content-Aware Smart Presets
13.	Auto-Complete edit suggestions and Content-aware smart presets
5	Adobe Systems , Noida
14.	NLP on Big for Bug Prediction
6	Aerchain , Bangalore
15.	Development of Aerchain's Web Application
16.	CAPP and SAPP of Aerchain Platform
17.	Analytics Automation, Milestone Payments and Returns For Stock Transfers
7	AFour Technologies , Pune
18.	ERP AND INTELLIGENT TESTING
19.	Development of ERP and Plugin for Intelligent Testing
20.	Enterprise resource portal and Intelligent testing
8	AlmaConnect , Gurgaon
21.	Product Management and Operations
22.	PS2 AlmaConnect Report
23.	Data Analytics and Product Development
24.	React-Native Application Development
25.	Business Operations and Product Management
26.	Business Development & Operations
27.	Development and maintenance of AlmaConnect web portal
28.	The Growth Phase of AlmaConnect
29.	Data Extraction and Web Development
9	Altair Engineering India Pvt. Ltd. - Software Division , Bangalore
30.	CAE RESULTS PREDICTION USING CUSTOM DEEP NEURAL NETWORKS
10	Amazon Development Center , Bangalore
31.	Back End Development for RBSEnrichmentWorkers & Fixing Size Variations in an ASIN family
32.	Created tools for collection of data to aid customers in shopping decisions
33.	Enter Amount Web Application-Amazon Here and Smile Code Poster Generator
34.	Accessibility Enforcement on Deals Widgets & Identifying root cause for data inconsistency between two databases
35.	ShoppingAids Performance Dashboard & Content scheduling in Hindi on Amazon
36.	Implementing Guard Rails for Variables inside Transaction Risk Management System Evaluation Configuration & Improvements in Variable Comparison Tool for Variable Migrations
37.	SCos Budgeting Platform
38.	DECOUPLING VARIABLE COMPUTATION FROM RISK EVALUATION SYSTEMS FOR PHYSICAL USE-CASE, ONBOARDING A NEW VARIABLE GATHER SOURCE ON THE EVALUATION PLATFORM FORTRESS
39.	Molly-Hopper as a Service
40.	Multiple queue removal and poller movement to NAWS.
41.	SCos Ordering Platform
42.	FULL - STACK DEVELOPMENT IN JAVA WITH SPRING MVC AND RESTful APIs
43.	Ankana Project
44.	hr-tools
45.	Autocut Trouble Ticket Root Cause Analysis
46.	Client Config Mangement Service
47.	Analysis on Authorization Decline Rates

	48.	Improving Customer Experience while rescheduling KYC in Amazon Pay EMI
	49.	Notification Filter based on PurchaseHalo component
	50.	Multiple Queue Removal and Poller Movement to NAWS
	51.	LENDING APP AND ENABLING CLOUD AUTH
	52.	Migration to Mystique & Alarm Automation & Service poller optimize & Timezone issue fix
11	Amazon Development Center , Chennai	
	53.	Bug Fixes for Amazon owned Tablets, Barcode Regex setup portal and Migration of data from Database to Data Warehouses
12	Amazon Development Center , Hyderabad	
	54.	Request Editor and Accessibility
	55.	Service to service Integration and onboarding
	56.	Visualising A Container
13	Amazon Professional Services , Bangalore	
	57.	SAP on AWS Best Practices Compliance Check Tool Automation and SAP Application and Database Availability Dashboard
	58.	Automation of Least privileged access
	59.	Cost Optimization Billing Dashboard
	60.	Automated Creation of Question-Answering Chatbots with Amazon Lex
	61.	Cost Optimization Dashboard
14	American Express - Big Data Labs (BDL) , Bangalore	
	62.	Unstructured Document Analysis and Question Answering
	63.	Automation of Column Name Standardization
	64.	AXGBoost enhancements and new Features
15	American Express - Capabilities EDA , Gurgaon	
	65.	DOCUMENT SUMMARISER AND PATTERN DETECTION
	66.	Non_AD Measurement and SAC Retention Automation
	67.	Model Tracking and Automation
16	American Express - Machine Learning & Artificial Intelligence , Gurgaon	
	68.	Incremental spend and baseline modelling
17	American Express - Technology , Bangalore	
	69.	Development of a staffing tool and an end-to-end Big Data pipeline using Spark Streaming
	70.	Staff Management Tool
18	American Express - Technology , Gurgaon	
	71.	Stream invoice application
	72.	CMS (Content Management System)
19	American Express India-Risk Information Management-Capabilities(RIM-C) , Gurgaon	
	73.	Auto Model Refresh , Default Analyzer Deck Automation
	74.	Identifying redundant data and creating an online data dictionary
20	AmericanExpress-RiskInformation-Management-Capabilities(RIM-C) , Bangalore	
	75.	Case Reviews and GCP Deck Automation
21	Apple India Pvt Limited , Hyderabad	
	76.	Tagging and Resolution of IT Tickets.
	77.	WEB DEVELOPMENT AND IOS DEVELOPMENT
	78.	Server Optimization
	79.	Redesign UI
	80.	servebot
	81.	iOS Architectural Patterns & Integrating Machine Learning with iOS development
	82.	Data Science for Optimizing Application flow
22	ARM Embedded Technologies Private Limited , Bangalore	

	83.	Power management of multi threaded processor and message transfer
	84.	Testing and Implementation of Advanced eXtensible Interface Weighted Random Memory Delay Module (AXI WRDM).
	85.	Architecture verification profiler: To extract resource dependent test cases.
	86.	Testing and Implementation of Advanced eXtensible Interface Weighted Random Memory Delay Module (AXI WRDM)
	87.	Multi-chip Environment in Arm SoCs
23	ASA Industries , Noida	
	88.	Automation: Pressure die casting and Truck Loading
	89.	VMC Purchase, Supplier Analysis, and other jobs
	90.	Business Analysis and Future Expansion Recommendation for Electrical Stamping Manufacturing Firm
	91.	Cost analysis and studying the supply management configuration at ASA. Implementing the inventory monitoring system
	92.	Efficiency loss matrix
24	Aurigo Software Technologies , Bangalore	
	93.	Aurigo Masterworks Cloud
25	Avaamo , Bangalore	
	94.	Building Conversational AI based chatbots
	95.	Conversational AI and Natural Language Processing
	96.	Natural Language Processing
	97.	KNOWLEDGE EXTRACTION FROM UNSTRUCTURED DOCUMENTS
26	Ayro Retail Solutions Pvt. Ltd. , Mumbai	
	98.	Retailer Invoice and Wallet Service
27	B.G.Shirke Construction Technology Pvt. Ltd. , Pune	
	99.	DESIGN AND ANALYSIS OF PREFAB CONCRETE AND STEEL STRUCTURES
	100.	Design and analysis of precast and steel structures
28	Baldor Technologies Pvt Ltd , Mumbai	
	101.	Assisted Video KYC
	102.	Document Forensic
	103.	Assisted Video KYC, Google Analytics, Design Website and Unit Testing
	104.	Improving the efficiency of Idfy's background verification process
	105.	API Gateway
29	belong.co , Bangalore	
	106.	Backend Development for B2C product of Belong.co
	107.	Backend development for cloud based applications
	108.	JD Parser
30	Bharat Forge Ltd , Pune	
	109.	AJAX 6000T Press line die lubrication process improvement
	110.	Voice of Customer-Customer Satisfaction Management
	111.	New Product Development of Transmission Shaft
	112.	Hazard Identification And Risk Assessment (HIRA) of cold forge shop and gear shop
31	BIS Research Pvt. Ltd. - NonTech , Noida	
	113.	Market Intelligence Research - (Artificial Intelligence in Agriculture Market and Other Emerging Technologies Market)
	114.	DEAL OF GLOBAL LIQUID HYDROGEN MARKET
	115.	Analysis on Emerging Aerospace and Defence Technologies Market
	116.	Market Estimation of Global Digital Biomarkers Market
	117.	Estimating the market size of Surgical Robotics and various other tasks
	118.	Plastics Ecosystem
32	Blue Jeans Network India Pvt. Ltd. , Bangalore	

	119.	Rewrite of WMC codebase
	120.	Using Rendering Library from CLM in Fbrapp And Changing the layout of Fbrapp for Mac
	121.	Implementing Features in UICore
	122.	Development And Improvement Of BlueJeans Microservices
	123.	Events Backend Development
	124.	Indigo Backend Development
33	Bundl Technologies Private Limited (Swiggy) - Nontech , Bangalore	
	125.	Scaling up of Private Brands - New Supply Business across India
	126.	Growth Strategy
	127.	Analysis and Reduction of IGCC Missing Complaints for PB and Reduction of complaints for New Brands
	128.	SnD Finance , SnD Business , AOV Analysis , Pre-Launch Alignment,Business Marketing
	129.	Improvement of Growth on Swiggy SUPER
	130.	To drive Virtual Brand Creation and Growth
	131.	Marked Delivered Incorrectly
	132.	Rule Based serviceability and Search plus Long distance
	133.	New Initiative - Swiggy GO
	134.	City Supply Scorecard and Automation of QOP
	135.	Swiggy - Endsem Report
	136.	Improving Customer Experience for National Reports
	137.	Swiggy Sides and Drinks
	138.	i) ROC - Biz<=&tg;Ops Program Management Communication set up ii) Delivery Fee Strategy & Analysis
	139.	Swiggy_Non Delivery Use Case
	140.	Growth POD
	141.	Sourcing of Ads, User Segmentation Analysis for Ads user-base & Pepsi 'Swag Menu' Campaign
	142.	Model Stores, RCA of unfulfilled Orders, Demand Projection & Supply Planning
	143.	Hyperlocal Growth Hacking & Competition Intelligence
	144.	Swiggy PLUS- Approach, Hypothesis and GTM Strategy
	145.	Swiggy- Sides & Drinks
	146.	Growth of National Alliance Brands
	147.	Swiggy GO
	148.	REALM, EI2, City Launches - Supply, Cancellation Initiatives
	149.	Setting Up Control Room, Cold Chain Analysis
34	Capillary Technologies - Testing Automation , Bangalore	
	150.	Big Data Using Spark
	151.	Enhancement of Control Panel
	152.	Improving the accuracy and correctness of Email Whitelisting Service and Product Usage Span Scoring
	153.	Replay Statistics and Rulesets
35	Central Electronics Engineering Research Institute , Pilani	
	154.	Autonomous UAV Navigation using Reinforcement Learning
	Central Leather Research Institute (CLRI) , Chennai	
	155.	Study of Viability of Gelatin and Collagen as food supplements
36	Century Rayon , Mumbai	
	156.	Zinc Recovery From Waste Sludge
	157.	Zinc Recovery from Waste Effluent
37	Cisco Systems (India) Pvt. Ltd - Software Engineering , Bangalore	
	158.	Development of Assertions File for protocol and Functional Verification of DDR Controller RTL
	159.	High speed and Multiport Ethernet BFM
	160.	Physical Design in VLSI
38	Cloudcherry Analytics Pvt Ltd , Bangalore	

	161.	Front end web development
39	Cogoport - Non Tech , Mumbai	
	162.	Data Enrichment and Commodity Analysis at Cogoport
	163.	Exploring new markets, devising go to market strategy and its execution
	164.	Increasing the traction and engagement on various social media channels and eventually increasing website traction through them
	165.	Marketing Analytics
	166.	Executing Sales Strategy and Understanding Operations
	167.	Landside Expansion
	168.	Product and Supply Chain Integration
	169.	Nurture Marketing and Internal Communication
	170.	DATA MANAGEMENT AND ANALYSIS
40	Cogoport (Tech) , Mumbai	
	171.	Backend Infrastructure at Cogoport
	172.	Backend-Infrastructure of Cogoport
41	Cohesity Storage Solutions India Pvt. Ltd. , Bangalore	
	173.	Nexus Development Tasks
	174.	App Trial Experience
42	Couture AI , Bangalore	
	175.	DEMAND FORECASTING USING STATISTICAL MODELS and GUI FEATURE ENHANCEMENT IN APACHE SUPERSET
	176.	Distributed deployment of Minio using Kubernetes, Setting up a Kubernetes cluster and deployment of Ignite on Kubernetes
	177.	Data Science in Apache Spark and Scala
	178.	Style Generation and Transfer for apparel in fashion
	179.	Customized Recommender System
	180.	Workflow orchestrator for ML and Data pipelines
43	Credit Suisse - Credit Analytics , Mumbai	
	181.	Cash Trade & ETFO Reporting, and IB AIRB Model performance Monitoring
	182.	Commodity Calibration for Commodity Model
	183.	Automation of Hull White Calibration
	184.	Pre-deal trade analysis and it's variables
	185.	Recalibration of Model Parameters
	186.	AUTOMATED GAPS AND ERROR ANALYSIS ON INPUT MARKET DATA GENERATION
	187.	Design and Automation of the monitoring framework of the Strategic Enhanced Factor model
	188.	FIRM WIDE STRESS TESTING USING STRESSED PROBABILITY OF DEFAULT (PD) MODEL AND STRESSED LGD MODEL
44	Credit Suisse - Enterprise Operational Risk Management , Mumbai	
	189.	Model Validation
45	Credit Suisse - Equity Research , Mumbai	
	190.	MSCI India Index Predictions, Mutual Funds Tracking Database, Exchange Traded Funds, Open Interest and Price Movement of Stocks, VBA Projects, and Few Small Economic Research Projects
	191.	INDUSTRY AND COMPANY ANALYSIS OF THE CONSUMER ELECTRONICS AND APPLIANCE AND THE STAFFING INDUSTRY SECTOR
	192.	Analysis on Stock Returns based on statistical models and Technical Indicators
	193.	Valaution of Indian IT services company

46	Credit Suisse - GBIS , Mumbai
194.	Control Attestation and operational risk analysis
195.	DATA VISUALIZATION OF CONTROLS FRAMEWORK AND CONTROL PROCESSES AUTOMATION USING TABLEAU AND R-SHINY
47	Credit Suisse - Global Market Risk Management , Mumbai
196.	Credit Valuation Adjustment
197.	Emerging Markets, Credit Suisse, Mumbai
198.	AUTOMATION OF MODEL CALIBRATIONS AND TESTING USING PYTHON
199.	A Framework for Identifying Drivers of Flight to Liquidity in Market Risks
200.	VaR and SVaR projection model under the Comprehensive Capital Analysis and Review program
201.	MINIMUM CAPITAL REQUIREMENTS FOR MARKET RISK - THE INTERNAL MODELS APPROACH
202.	CS PL CMBS Model
203.	RWA impact analysis of Credit Rating correction
204.	Market Risk Management - Stress Testing
48	Credit Suisse - Global Markets (BC&E Efficiency & Analysis) , Mumbai
205.	making company cost efficient by reducing variable expenses.
49	Credit Suisse - Global Markets Controls COO , Mumbai
206.	Market Liquidity and Risk Management
207.	Hedge Fund model automation in Python
50	Credit Suisse - Prime Services , Mumbai
208.	Securities Lending
209.	Client Analysis
210.	CDS Mechanism and Pricing
211.	Tracking Trade Activity with respect to the Data Flow Structure/Processes of the organisation and its Impact on Financial Reporting
51	Credit Suisse - Risk & Finance Data Analytics, Reporting , Mumbai
212.	MARKET RISK VAR CALCULATION AND ANALYSIS
213.	Use of Scenarios for Stress Testing and Internal Risk Reporting
214.	SEVERE FLIGHT TO QUALITY SCENARIO ANALYSIS FOR STRESS TESTING AND MARKET RISK MANAGEMENT
215.	USE OF RISK METRICS PARAMETERS, VaR, Greeks and ERC to prepare Prime Risk Reports
216.	Implementing Scenarios PnL's In Daily, Weekly, Monthly and Internal Risk Reporting
217.	Economic Risk Capital Reporting
218.	Automation of NASSAU & Saudi Portfolio Risk Assessment
52	Credit Suisse - Risk & Finance Data Analytics, Reporting , Pune
219.	Expected Credit Loss: Calculation and Analysis
220.	Credit Risk Measurement using Stress Testing Techniques
221.	COUNTERPARTY CREDIT RISK- SLBs, Repos
222.	Exposure Moves Analysis of Exchange-Traded Derivatives and Cleared Over-the-Counter Products
223.	Exposure movement analysis - CVA
224.	Credit Risk Management
53	Credit Suisse - Technology , Mumbai
225.	Business Process Automation
54	Credit Suisse- Finance Change , Pune
226.	Automation of Business Attribute Validations
227.	US GAAP Impairment
228.	Pillar 3 reporting and ead calculation
229.	Front to back implementation of Business transformation Projects
230.	BUSINESS PROCESS ANALYSIS AND PROCESS TRANSFORMATION

55	Credit Suisse- Investment Banking and Capital Markets , Mumbai (Worli)
	231. Information memorandum of a listed company
	232. Private placement indicators and it's process
56	DataM Intelligene 4Market research , Hyderabad
	233. Digital Marketing for a Market Research Firm
	234. Digital Marketing in a Market Research Firm
	235. LEAD GENERATION FOR MARKET RESEARCH
57	DBOI - Business Finance , Mumbai
	236. Emerging Markets Debt Bookrunning
	237. Product Control - Running books of various instruments
	238. PnL and Risk Reporting- Product Control
	239. Bookrunning for US Rates Business Division (Treasury Business Finance
	240. Product Control
58	DBOI - Counterparty Credit Ratings , Mumbai
	241. Controls for Operational Risk
	242. Credit Rating Analysis
	243. Rating analysis of Sub-sovereigns
	244. Global Credit Ratings
	245. Report on Leveraged & Structured Finance at Global Credit Ratings Team
59	DBOI - GVG , Mumbai
	246. Capturing the valuation risk
	247. Valuation
60	DBOI - Market Data Strategy and Analytics , Mumbai
	248. Python Automation in Risk Validation
61	DBOI - Market Risk Analysis & Control , Mumbai
	249. Credit Risk Methodology
	250. Modification and Automation of Reports
	251. Risk Testing and Validation
	252. DBOI. Ishita
	253. Market Risk Analysis and VaR Analysis
	254. Business As Usual
	255. Market Risk & Control - Portfolio Stress Testing
	256. Regulation and Validation of risks for credit businesses
62	DBOI - Risk Metrics Quality Assurance and Analysis , Mumbai
	257. Credit Rating Analysis at Global Credit Ratings Team, Deutsche Bank, Mumbai
63	DBOI , Pune
	258. Risk metrics quality assurance and analysis
	259. PS 2 Report DBOI PUNE 2016A5PS0731H
64	Dell R&D , Bangalore
	260. Ui Debugger- Web application
	261. 1)Python Web Security Testing 2)GUI Frontend Simulation
	262. Remote File Explorer
	263. Isilon Cluster Data Simulator
	264. PLDM for Redfish Device Enablement
	265. Chatbot and UI for System Health Monitoring
65	Development Consultants Pvt. Ltd. (DCPL) , Mumbai
	266. Design Process and Methodology for Structural Elements
	267. Design and analysis of structural elements for ongoing projects in DCPL Mumbai.
66	Divami Design Labs , Hyderabad

	268.	Zenoti Dashboard Revamp
67	Divgi TorqTransfer Systems Pvt. Ltd. - Bhosari , Pune	
	269.	Prototype Development for 5 Speed And 6 Speed Manual Transmission
	270.	Cycle Time Calculation & Machine Capacity Planning for Different Processes & Tooling Budget Preparation
68	Divgi TorqTransfer Systems Pvt. Ltd. , Sirsi	
	271.	Lean Improvements in Companion Flange Cell
69	DMI Finance Private Limited , New delhi	
	272.	Data Science project
	273.	Salesforce Development
	274.	End term report on PSII at DMI Finance Pvt Ltd
	275.	Application of Data Science in NBFC's
70	Door Sabha Nigam Ltd. , Chennai	
	276.	Record Reconciliation
71	Dorsch Consult (India) Pvt. Ltd., , Mumbai	
	277.	Construction of Domestic Passenger Terminal Building at Dehradun Airport
	278.	Project Planning & Management of various ongoing projects
72	Ecom Express Pvt. Ltd. - Data Science , New delhi	
	279.	Data Analytics, Time series forecasting, Deblurring using GANs, Open Street Map Services, Stress Dc Analysis, Manpower hiring Model.
	280.	Automation of weight dispute model
	281.	Big data Engineering
	282.	FUEL CONSUMPTION MODEL
	283.	Fake Delivery Attempt Identification
	284.	Attrition_Prediction
73	Egnify Technologies , Hyderabad	
	285.	Rankguru,Nova(React JS)
	286.	React web and mobile app development
	287.	RankGuru and JEET Web Applications
74	eGovernments Foundation , Bangalore	
	288.	DEVELOPING A LEARNING SYSTEM FOR THE TRAINING OF TECHNOLOGICAL PARTNERS
	289.	Backend Development of Digit Platform
	290.	Front end Development anX Audit
	291.	Front-end development of mseva 2.0
	292.	Chat bot integration with Google asistant
75	Ericsson Global India Pvt. Ltd. , Chennai	
	293.	Dependency visualization plugin
	294.	Semestrial Internship at Ericsson
76	Ernst & Young Global Delivery Services , Bangalore	
	295.	Hull WHite 1 Factor model and HJM model
	296.	Application and Implementation of Copulas for calculating MonteCarlo VaR
	297.	Volatility And Correlation Modelling for Asset : Equity
77	Faiveley Transport Rail Technologies India Ltd (FRTIL) , Hosur	
	298.	DATABASE MANAGEMENT OF HISTORICAL COSTS & STANDARD OPERATING PROCEDURE FOR CALCULATING TOTAL MANUFACTURING COST[TMC]
	299.	Casting parametric costing model
78	Fidelity Investments , Bangalore	
	300.	Automation of key feature extraction in chat data
	301.	Dimensionality reduction and feature extraction
	302.	Data Science
	303.	Fidelity Investments-Prakhar Deo-Final Report

	304.	Uncovered Security Advisor (Stock Recomendor System)
79	Fidelity Investments , Chennai	
	305.	VAP and NRS
	306.	Semestrial Internship at Fidelity Investments
80	Flipkart , Bangalore	
	307.	Product-wise Day-level Sales Forecasting
81	Futures First Info Services Pvt Ltd , Hyderabad	
	308.	Automated trading systems
	309.	Research Analysis
82	Futures First Info Services Pvt. Ltd., , Jaipur	
	310.	Market Analysis
	311.	Trading app development
	312.	Web Application Development
83	Gabriel India Ltd , Pune	
	313.	Virtual Approach for Numerical formulation of Pyramid Shim Stack in a Twin Tube Hydraulic Shock Absorber
	314.	Virtual Approach for Numerical Formulation of Pyramid Shim Stack Deflection in Twin Tube Hydraulic Shock Absorber
84	GE Appliances , Hyderabad	
	315.	Smart Appliances
85	Genpact , Bangalore	
	316.	Analysis of video and poster advertisements using OCR followed by sentiment analysis using Natural Language Processing
	317.	Text Mining ,Prediction of Data set using ML models and Azure AutoML
	318.	Cost Effective Active Learning
	319.	Cross Tab Analysis using R and MS Excel
	320.	Promotion optimization in Retail
	321.	Project Status and Time Tracker
	322.	Identification of car damages by Semantic Segmentation using HRNet
	323.	Ticket Management System in Django
	324.	SHELF-SPACE OPTIMIZATION USING REINFORCEMENT LEARNING
	325.	Descriptive and predictive analysis of Net Promoter Score for Genpact, India-2019
	326.	A Report on Truck Load Building and Direct Shipments
	327.	Model Interpretation in Named Entity Recognition of Medical Data
	328.	Ticket Management System
	329.	Descriptive and predictive analysis of Net Promoter Score for Genpact, India-2019
	330.	AWS SageMaker for Machine Learning
	331.	Sales and Cash Flow Optimisation
	332.	Effectiveness of Digital Detailing Tool used by a Global Pharmaceutical Company in the Analysis of Reach of eSales Activities
	333.	PROJECT,STATUS AND TIME TRACKER
	334.	TRUCKLOAD OPTIMISATION & DIRECT SHIPMENT
	335.	DESIGNING A DIGITAL DETAILING TOOL USED BY A GLOBAL PHARMACEUTICAL COMPANY IN THE ANALYSIS OF REACH OF ESALES ACTIVITIES
	336.	THE EFFECTIVENESS OF DIGITAL DETAILING TOOL USED BY A GLOBAL PHARMACEUTICAL COMPANY IN THE ANALYSIS OF REACH OF ESALES ACTIVITIES
86	GenY medium , Hyderabad	
	337.	A case study on performance marketing for a healthcare brand
	338.	Digital Marketing Analytics & Business Development
87	GEP , Hyderabad	
	339.	Invoices attributes extraction, Contracts attributes extraction, MDM attributes extraction

	340.	Attributes extraction using image processing
88	GEP , Navi mumbai	
	341.	ETL Pipeline for NICO chatbot, Geography Normalization, Revamping the Taxonomy Upload Framework
	342.	Geography Normalization, NICO Chatbot ETL Pipeline, Vendor Data Normalization and Enrichment
89	Girish Enterprises Pvt. Ltd. , Mumbai	
	343.	Operation and maintenance of the 24 MLD pumping station at Chinchpokli and Modernization of Deonar Abattoir
90	Goldman Sachs - Investment Banking , Bangalore	
	344.	Finding a suitable target amongst retail chain companies for an e-commerce client
	345.	Finding a suitable target amongst beer companies for the Client
	346.	Finding a suitable target among beer companies for the client
91	Goldman Sachs India Pvt. Ltd. - Operations , Bangalore	
	347.	Automation of Client reach out e-mail
	348.	AUTOMATION OF GS INTERNAL AND CLIENT E-MAILS
	349.	AUTOMATION OF TRADE DOCUMENTATION REVIEW PROCESS
	350.	AUTOMATION OF TRADE SETTLEMENT PROCESS
	351.	Derivative trade management in the Foreign Exchange division
	352.	Risk Modelling
	353.	Derivative trade management in the Foreign Exchange division of Goldman Sachs
	354.	Exotic Trade Review
	355.	Invoice Tracking Automation / Multiple BI Projects
92	Goodera (NextGen PMS Pvt. Ltd)- Non IT , Bangalore	
	356.	Product Development and Project Management
	357.	Data Quality tool and Translator Module
93	GP Petroleums Ltd , Mumbai	
	358.	Architecting cloud based serverless solutions for eStelMet
	359.	Acquisition & Optimization of the Supply Chain & Vendor Networks
	360.	Setting up Business Models & Configuring Logistics to Scale Steel E-commerce in India
	361.	Architecting cloud based serverless solution for eStelMet
94	Grasim Industries Ltd. , Nagda	
	362.	INCREASING CS2 RECOVERY PERCENTAGE IN SPINNING SECTION
	363.	ETP and its Load Reduction due to Spinning
95	Grasim Industries, Pulp and Fibre Division , Mumbai	
	364.	Modelling of Multistage Flash Evaporator, Load allocation for steam consumption savings and optimization of the operating cycle
	365.	Modelling of Pulp Hypo Stage Bleaching
96	GroupM Media India Pvt Ltd. Location , Gurgaon	
	366.	Exploratory Data Analysis on Digital Content
	367.	Using Machine Learning to Develop a Resume Parser
97	Groww - Business Analyst , Bangalore	
	368.	Groww Business Analyst - Prakhar Vyas
	369.	Product Management: Help and Support, Groww App
98	Groww - Software Development , Bangalore	
	370.	User Authorization Service and Groww Academy
	371.	User Authorization Service and Groww Academy App

99	HAPPAY (VA Tech Ventures Pvt Ltd.) , Bangalore
372.	Gmail Parser Application Development
373.	Creating a testing framework for improving accuracy of an invoice parser
374.	Invoice parser, sbt changes and suggestion of nearby airports
375.	Django/Multi GSTIN/PaymentConfig
376.	Enhancing and Defining Flows for Happay's suite of Products.
377.	Vendor Product Enhancement
100	Haptik , Mumbai
378.	SYMPHONY SPELL CORRECTOR
379.	Named Entity Recognition for various intents
380.	Offline Content Delivery For Haptik iOS SDK
101	Healthcare Technology Innovation Centre (HTIC) , Chennai
381.	(i) Slide Scanner with Deep Learning Assisted Image Analysis, Stitching & Data Retrieval. (ii) Spine Marker Real Time Object Detection & Tracking.
382.	Predicting 30-day ICU readmission from the MIMIC-III database
383.	An analysis of the technical pitfalls of image-guided spinal navigation
384.	Auto-focusing a camera lens
102	Here Maps - Distributed Data , Mumbai
385.	Image Captioning using RNN By training NLP model for HERE MapCreator WebTool
386.	Missing Sign and Rasa Chatbot
387.	Jugnoo Enrichment
388.	Transliteration Tool & Blur Detection
389.	CREATION OF GRAPHICS PIPELINE FOR GPU RENDERING OF MAP DATA
390.	Automation of exception comparison and Cost Optimization
391.	GENERATION OF MEANINGFUL PARAGRAPHS BY FEEDING IN STREET IMAGES AND DEVELOPMENT OF HERE XYZ STUDIO
392.	PIPELINE VISUALISATION PROJECT
393.	Pipeline Monitoring and Visualization using Dashboard
394.	SIAMESE NETWORKS AND ACTIVE LEARNING
395.	AWS Chat-Ops
396.	Report on DAB Tool - Deduplication Analytics Board.
397.	Transliteration Tool and Blur Image Detection
398.	Product Creation and Status Dashboard
103	Hindalco Innovation Centre - Semifab, Taloja , Mumbai
399.	Analysis of Roll camber on flatness for different pass schedules
400.	Strength Analysis of Architectural Extrusion Sections in Window Frames
104	Hindustan Unilever Research Centre , Bangalore
401.	Effect of physico chemical parameters on phase stability and cleaning properties of surfactant additive system
402.	Understanding the Rheology of Mixed Surfactant Systems
403.	towards machine learning based process optimization
404.	Understanding the gloss and colour attributes of interference mica from polarization-resolved BRDF experiments
405.	Understanding complex phase diagrams of surfactants using rheology measurement as a tool and substantiation through microscopy/Static light scattering.
406.	Mechanistic understanding on the role of surfactants and polymers in altering the friction coefficients
407.	Study on Anionic and Zwitterionic surfactants at low PH system Prepared
408.	Development of ANN based surrogate model for CFD
409.	Screening of actives for dank malodor inhibition
410.	Mechanistic understanding of mush in soap bars

105	Hourglass Research , Mumbai
411.	Patent Analytics
106	iBĀ Hubs , Hyderabad
412.	Business Development of iB Cricket
107	IBM Security - Fiberlink , Bangalore
413.	ORDER MANAGEMENT SYSTEM
414.	IBM Order Management System
415.	CAM-Ansible Integration Project - IBM Bangalore
416.	Cloud Automation Manager (CAM) - Ansible Tower Integration, Portal for deployment of patterns , Portal for running scripts on remote machine.
417.	IBM ORDER MANAGEMENT SYSTEM AND WATSON ORDER OPTIMIZER
418.	CLOUD AUTOMATION MANAGER (CAM) - ANSIBLE TOWER INTEGRATION & UI AUTOMATION - SELENIUM
108	IBM Security - Fiberlink , Pune
419.	Integration of Robotic Process Automation (RPA) with Identity Governance and Intelligence (IGI) and it's Access Request Provisioning
420.	Analysis of Efficiency of ElasticSearch over Cloudant and Sign in with Apple Implementation on local flow
421.	Integrating Apples Identity via Sign in with Apple REST API framework with IBMs Cloud Identity Connect Software
109	IDeaS - SAS - Software Development , Pune
422.	Integration Of Google Analytics with RevPlan Application and Auditing
423.	Automation of IDeaS Revenue Management
424.	Automation of video upload process onto Shiplt voteapp.
425.	Automation of IDeaS RMS Processes
426.	Automation And Regression using selenium & UI Enhancements
427.	Sla Prediction
110	IFB Industries , Goa
428.	My IFB app
429.	1. Modification Of Transportation Bolts In Front Loading Washing Machine To Reduce Machine Damages During Shipping Test 2. To Eliminate Damage To Top Lid In Front Loading Washing Machine During Shipping Test 3. Relocation Of Power Supply Cable To Avoid Damage During Shipping Test In Front Load Washing Machines
430.	CFD-DEM Coupled Analysis of Inlet Filter in a Magnetic Feed Valve
431.	Augmented Reality
432.	DETERMINING THE OPTIMAL DRYING TIME OF A DRYER CYCLE USING MACHINE LEARNING
433.	Industrial IoT Implementation on the Drum Production Line.
434.	Industrial IoT Implementation on the Drum Production Line
435.	1.Modification of transportation bolts in front loading washing machine to reduce machine damages during shipping test 2.To eliminate damage to toplid in front loading washing machine during shipping test 3. Relocation of power supply cable to avoid damage during shipping test in front loading washing machines
436.	Pressostat Testing Automation
437.	RUNOUT TESTING AUTOMATION AND DATA ACQUISITION SYSTEM
111	IMI Mobile R&D , Hyderabad
438.	TESTING(POSTMAN)
439.	Design Systems Development
440.	Sharat patil PS2 Project
441.	Dynamic Front End Web Development
442.	Churn Prediction using Machine Learning Models
443.	Data Analytics
444.	Integrating different NLP framework with bot platform
445.	Web Application Development(IMlassist)
446.	UI AUTOMATION

	447.	ChatBot development
	448.	IMIConnect : New Node Development
	449.	Traffic Simulator
112	IMIdigital R&D , Hyderabad	
	450.	FRONTEND_DEVELOPMENT
	451.	IMI/RCS client GUI
113	Indian Institute of Petroleum , Dehradun	
	452.	Simulation and modeling of pressure swing adsorption with aspen plus
	453.	Exploratory work on the interaction of microwaves with spark-plug.
114	Infinera , Bangalore	
	454.	Verification of Infinera Dual Port Memory Model
	455.	Development of Python infrastructure to configure 2 stage lut
115	InMobi- Business Analyst , Bangalore	
	456.	Business Insights for Programmatic Ad Business
	457.	Mobile Marketing and Advertising at InMobi Technology Services Pvt Ltd
	458.	Inmobi-Client services and Inside sales
	459.	Sales and Delivery in Mobile Ad Industry
	460.	Optimizing Social – Wadogo, InMobi
	461.	Affiliate Partner Strategy & Operations – Wadogo
	462.	Driving Strategic Sales Conversion
	463.	End Semester Report-Strategy and operations-InMobi
	464.	Campaign Management, Fraud management & Optimisation
	465.	Learnings as Marketing Intern at InMobi Bengaluru
116	Intel India Technology , Bangalore	
	466.	SOC CLOCK DESIGN AND DISTRIBUTION
	467.	Debugging and Feature Enhancement of Software Tool for Graphics Pipeline Validation.
	468.	PCI-Express Subsystem in IoT Accelerator.
	469.	Code Coverage Analysis and Error Detection in Regressions for Verification
	470.	Study and Analysis of IR Drop and Reliability Methodologies in VLSI Design
	471.	Generic PCIe Driver Development
	472.	Verification of Vector Processor
	473.	Functional verification model for pre-si validation of System on chip radio IP using industry standard UVM protocols
	474.	RTL Integration Methodology and Design
	475.	Migration and New Feature Development for Automation Software
	476.	Quantitative Approach to SRAM selection
	477.	Improving the debug capabilities of FPGA Prototyping using Avalon Streaming Interfaces for transfer of data on a multi-FPGA platform
117	JDA Software Solutions , Bangalore	
	478.	CHANNEL PRIORITISATION AND JOB FAILURE RECOVERY MECHANISM
	479.	Configuration Change Automation Tool AND Data Correction framework
	480.	Exploratory Data Analysis and RFP Automation
	481.	Hostinga2z and Automation
	482.	InstallAnywhere QA Testing and Development
	483.	JDA Demand Forecast
	484.	Product Development at JDA
	485.	JDA Connect Pipeline
	486.	Python script to check authenticity of a list of credentials, Bash script to load a dump file and also execute PL/SQL script, Collection and Plotting of data from an Oracle database through an Excel VBA program
	487.	AUTOMATION OF WMS ENVIRONMENT SETUP AND INSTALLER SOFTWARE TESTING

	488.	Development of Regression testing suite for SAP adapter
	489.	A Breif Report on Database Evaluation, Automation and Testing of JDA Product Development
	490.	Building a low latency system over JIRA to increase performance and availability
	491.	Self-Heal Framework
	492.	Analyzing LP Opt data
	493.	Test source code of ESP product of JDA
	494.	LDE Dashboard
	495.	Testing on JDA Demand 2019.1
	496.	LOGGER CHANGES IN MASTERPLANNING
	497.	LUMINATE PERSONALIZED ASSORTMENT
	498.	Fulfillment Automation Testing
	499.	REST API in TMS
	500.	LUMINATE CONTROL TOWER TESTING- JDA S
	501.	Automaion in Patch Application of RollBack process in Product Development
118		John F Welch Technology Center (GE) , Bangalore
	502.	Simulation of Coal Flow in Various Pipe Geometries
	503.	Web Application Development For Boiler Design Using Maven And Spring
	504.	Gas turbine rotor damping
	505.	Boiler - Duct Geometry And General Arrangement (GA)
	506.	Implementation of AGATHA
	507.	HRSG WEB APPLICATION DEVELOPMENT
	508.	Flow simulations in various pipe geometries
119		JP Morgan Chase - Technology , Bangalore
	509.	Robotic Process Automation and ChatOps in Production Support
	510.	FIX Protocol Health Check
	511.	Migration of the tax processing tool of JPMC in India
	512.	Common Model Deployment
	513.	Screen Comparison Tool & Load Testing
	514.	Develop SLI SLO Applications
	515.	Common Model Deployment Systems
	516.	Common Model Deployment System
	517.	to develop portal to facilitate the flow of information between departments of trade
	518.	Migration of ILAS to Tax Engine(TE) for Statutory Tax Payments
	519.	AWS ON GAIA
	520.	TOOL TO TRANSFORM DATA BETWEEN DIFFERENT FINANCIAL TEAMS
	521.	Automatic Message Transformation System
	522.	Workflow Management Tool and Reports Module
120		JP Morgan Services - GKN Model Risk Governance & Review â€™ Finance , Bangalore
	523.	Capital Stress Testing & Qualitative Models
	524.	A Report on Basel III Capital Requirement and Balance Sheet of Commercial Banks
121		JP Morgan Services - GKN Risk Analytics â€™ Finance , Bangalore
	525.	Match Pair for Consumer Requested Credit Line Increase Strategy
	526.	Bad to Good Ratio Forecasting
122		JP Morgan Services GKN Banking(CRG)Finance , Mumbai
	527.	Tech Media Telecom (TMT-Asia)
	528.	Centralized Research Group: Debt Capital Markets (DCM)
	529.	Mergers & Acquisitions
	530.	Oil and gas
	531.	Report on Centralized Research Group (CRG) â€™ Natural Resource Group-Oil & Gas Sector

	532.	Report_Samyak
	533.	Diversified Industrial and Transportation
	534.	Digital Wealth Management Sector Analysis
	535.	Legacy IT company expanding in the digital and cognitive space
	536.	Diversified Industrials and Transportation
	537.	Real estate opportunities-REIT
	538.	Financial Institutions and Group
	539.	Gigabit Society
	540.	A potential M&A target
123	JP Morgan Services GKN Global Research(GRC)-Fintech , Mumbai	
	541.	Automation In the World Of Finance
124	JP Morgan Services-GKN Banking(CRG)-Fintech , Mumbai	
	542.	Automation and Fintech implementation of Investment Banking products
	543.	Automation of back office tasks in corporate investment banking
125	JP Morgan Services-GKN Data Science-Fintech , Mumbai	
	544.	Credit Risk Classification and Detection
	545.	Anomaly Detection & Root Cause Analysis
126	JP Morgan Services-GKN GlobalResearch(GRC)Finance , Mumbai	
	546.	Equity Research
	547.	Fixed Income and Credit Strategy
	548.	U.S Equity Research : U.S Pharma and Distribution
	549.	European Equity Research
	550.	SMid Equity Strategy
	551.	Equity Research and Sector Analysis
	552.	Attending earning calls, assisting the team with company equity alerts and Automation of certain client request files using VBA
127	JP Morgan Services-GKN Markets &Treasury Risk-Finance , Mumbai	
	553.	Negative yielding debt and its impact on the banking, pension and insurance sector
	554.	India Deep Dive, Hong Kong protest and its impact on JPM
	555.	Implementation Of FRTB Rules And Automation Of Weekly Analysis Of LOBs Capital Charge Under Strategic Review
	556.	Credit risk analysis of municipal bonds
	557.	Analysis of Private Label Securities and SOFR
	558.	Tool automation using python and object oriented programming
	559.	Implementation of FIRB Process to better understand FRTB IMA Process
128	JP Morgan Services-GKN Markets(GMG)Finance , Mumbai	
	560.	Algorithmic Trading Strategies and Index Structuring
	561.	Structuring of Index
	562.	Automation of Pricing of Various Trade Products
	563.	Pricing of Structured Products and Fixed Income Instruments
129	JP Morgan Services-GKN Quantitative Research-Fintech , Mumbai	
	564.	Software Application to Track Projects and Time Allotted to them
	565.	Minimum Capital Requirements using Internal Model Approach - Fundamental Review of Trading Book
	566.	Implementing Model Usage Restrictions (MURs) on financial models
	567.	BCC 13-5 Conservative Analysis of CRE Loan Financing Asset Class
	568.	MODEL DEVELOPMENT AND DATA ANALYTICS
	569.	Trade Scheduling Using Linear Quantitative Research Technique
130	JPMC - Technology , Hyderabad	
	570.	Creation of Reusable UI templates and DB optimization
	571.	Building and Deploying Web Applications

	572.	Deployment of web applications on cloud
	573.	Document Classifier and Data Pipeline
	574.	Creating graphical UIs and process automation
131	JPMC - Technology , Mumbai	
	575.	Building an automation test suite for data validation using Selenium Webdriver
	576.	Integration Of Machine Learning With CPR
	577.	Web Application development
	578.	Data Query Monitor and Kubernetes
	579.	A REPORT ON building dashboard for graphical representation of data using R Shiny and implementation of machine learning algorithm for predictive analysis of NAV fund
	580.	Analysis and Testing of Java Project using Spring
	581.	Full stack web development
132	Klientas , Trivandrum	
	582.	Data Mining, Event Management and Marketing for Law
133	Knorr-Bremse Technology Center India Private Limited , Pune	
	583.	Design and Development of EnSeGi and Python Toolchain Migration
	584.	Development of Privacy Protection Tool and Detection of Used Case Parameter For Dspace Simulation
134	Kochar Tech , Gurgaon	
	585.	Real-time Footfall Monitoring System
	586.	Footfall Optimization
135	Kristal.AI , Bangalore	
	587.	SPRING CLOUD , APACHE SPARK
	588.	DEVELOPMENT OF STATISTICAL MODELS AND DEEP LEARNING ALGORITHMS WITH APPLICATION IN FINANCE
	589.	iOS App Development
	590.	Client Risk Management System & Index Tracking Optimizaton
136	Kruzer Mobility Technology Solutions Pvt. Ltd. , Bangalore	
	591.	Creating Backend-Microservices using Node.js, Express.js and MongoDB & creating mockAPIs for existing Microservices
	592.	Wake Word Detection_&_Modelling Acceleration Risk Profiler
	593.	PRE SALES MARKET ANALYSIS
	594.	Kruzer Android App User Interface Implementation and Voice Assistant Flow Design
137	Lenskart , Bangalore	
	595.	Lenskart Android Automation Framework and Testing
	596.	REST API AUTOMATION AND MANUAL TESTING USING POSTMAN AND JAVA .
	597.	FINDING FACE SHAPES AND FRAME SIZES FROM IMAGES CONTAINING FACES
	598.	Inventory Movement Register, Full Stack Web Development
	599.	Face Shape Detection
	600.	Inventory Movement Register (Full Stack Development)
138	Linarc India Pvt. Ltd. , Chennai	
	601.	Web Designing
139	LogisticsNow , Mumbai	
	602.	LogisticsNow: Industry and Company Overview
140	Lowe Services India Pvt.Ltd , Bangalore	
	603.	Internship at Store Operations Team, DACI
	604.	Data analytics at the Macroeconomics segment of Lowe's India
	605.	FLEX SPACE REPORT ,LAWN &GARDEN DASHBOARD
	606.	Project Overviews
	607.	Substitute product, Web Scraping
141	Mapmy India , New delhi	

	608.	OSRM-BACKEND AND TABLE-SERVICE
	609.	Vehicle Type Prediction
142	MapMyIndia , Bangalore	
	610.	To find architectures for road objects detection and segmentation task using ML and AI techniques.
	611.	Extraction of Road Objects
143	Market Data Forecast , Hyderabad	
	612.	Business Development Associate at Market Data Forecast
	613.	Market Research and Digital Marketing
	614.	Business Development
	615.	A Report on Market research and Business Development
	616.	Market Research and its various components and Email marketing
	617.	Development Web Application to Generate Report Descriptions
	618.	Business Development Introduction
144	Maybank Labs Pvt. Ltd. , Bangalore	
	619.	Chatbot(faq and dedupe) and Economic Capital web application
	620.	Development Of Pace 2.0 (App and Web)
	621.	Development Of Pace 2.0 App and Web
145	Mech Mocha Internet Pvt. Ltd. , Bangalore	
	622.	Full stack development and integration of various games
	623.	Data Analytics and Testing
	624.	BIGQUERY ETL DEVELOPMENT
	625.	Platform Feature Implementation for Hello Play
	626.	Statistical Analysis of Game Data
	627.	Game Development
146	MedNetOne , USA	
	628.	RISK STRATIFICATION FOR POPULATION HEALTH MANAGEMENT
147	Mentor Graphics , Bangalore	
	629.	Design to Image Contour Conversion
148	Mercedes Benz , Bangalore	
	630.	RANDOM VIBRATION FATIGUE ANALYSIS OF MOTOR CASING USING OPTISTRUCT
	631.	Image Based Frequency Analyzer
	632.	Validation of Western 5th Percentile Female Human Body Model using ISO 9790 load cases
	633.	Analysing Running Board and providing viable model through Design of Experiment
	634.	ML based Identification of Oil Canning Regions in Class A Surfaces
	635.	Validation of Western 5th percentile female Human Body Model using ISO 9790 load cases.
149	MiQ Digital India Pvt. Ltd. , Bangalore	
	636.	CONSULTING & ANALYSIS OF CAMPAIGN DATA FOR MULTIPLE CLIENTS TO ENHANCE THEIR PERFORMANCE
150	Mol De Analytics , Hyderabad	
	637.	Computer vision based customer behaviour analysis tool for the retail industry
151	Morning Star - Index Management and Analytics , Mumbai	
	638.	Multiple Projects
152	Morning Star - Index Operations , Mumbai	
	639.	Morningstar Yield Focus Index
153	Morning Star - Indexes Product Operations (Product Management) , Mumbai	
	640.	Index Operations
154	MSCI - Applied Data Intelligence , Mumbai	
	641.	MSCI Fixed Income Vendor Evaluation
	642.	FI Vendor Evaluation

155	MSCI - Equity Core Research - Data Science , Mumbai
643.	MSCI Equity Core Research
644.	Factor Research – MSCI QER
156	MSCI - Performance IT - Index , Mumbai
645.	Non Regression Testing Automation
157	MSCI (IMR) , Mumbai
646.	INDEX RESEARCH- MSCI QIM
158	MSCI (NPD – Index Research) , Mumbai
647.	INDEX RESEARCH - MSCI QER
159	myHQ & (JustWork Technologies Pvt. Ltd.) Tech , New Delhi
648.	Exploring Sales, Operations and Marketing at myHQ (a startup)
649.	Sales and Management at myHQ Workspaces
160	National Centre for Biological Sciences , Bangalore
650.	OVEREXPRESSION AND PURIFICATION OF MCPH1 tBRCT PROTEIN
651.	Histological Analysis of Spontaneous Pancreatic Tumours in KPC Mice
161	National Chemical Laboratory , Pune
652.	Development of deep learning based model-predictive control.
162	National Council for Cement and Building Materials , Ballabgarh
653.	RECOVERY AND UTILIZATION METHODS OF WASTE HEAT IN CEMENT PLANT
654.	Effect of alkali in mechanical and chemical properties of cement with fly ash
655.	Energy Management System
656.	Application of Carbon Nanotubes in development of high performance concrete.
657.	Life Cycle Assessment of RDF Gasification in Indian Cement Plants
658.	A Study on Portland Limestone Cement
163	National Council for Cement and Building Materials , Hyderabad
659.	Usage of Oil-Drilling waste in Fly ash bricks & Properties of Cement
660.	CONCRETE MIX DESIGN AND USAGE OF DRILLING WASTE IN FLY ASH BRICKS
164	National Council of Applied Economic Research , New delhi
661.	Land Policy Initiative
662.	First All India Citizen Survey of Police Services
165	National Institute of Science and Tech. Dev. Studies (NISTADS) , New delhi
663.	Biosensors and their applications in agriculture
166	National Instruments Systems (India) Pvt. Ltd. , Bangalore
664.	Reducing Cycle Time for Build Quality Feedback through enhancements in Hardware and Software Infrastructure
167	NIVEA , Mumbai
665.	DIGITIZATION OF VAS (PROMOTIONAL PACKS) USING MICROSOFT 365 TOOLS
168	Nomura - FinTech , Mumbai
666.	Client Wealth Report Representation through Augmented Reality
667.	Client Wealth Report Representation through Augmented Reality and Nomura Voyager FinTech Partnership
169	Nomura Global Finance , Mumbai
668.	Structured Deal Review
669.	Product Control - PnL Reporting
670.	FID Credit- PCPNL
671.	Independent Price Verification - Nomura, Global Finance
170	Nomura Global Markets , Mumbai
672.	Market study on Multi Issuer Platforms
673.	Equity and derivative linked strategies
674.	Analysis of parameters for loan financing
675.	Working for the CVA Trading desk at Nomura Global Markets

	676.	Global Markets - Index Structuring
171	Nomura Global Risk , Mumbai	
	677.	Global Risk Nomura
	678.	Counterparty Credit risk analysis
	679.	Nomura Work Summary
	680.	Credit Data Quality Scorecard
172	Novartis Healthcare Pvt. Ltd. , Hyderabad	
	681.	Maintenance and Development of Crawlers and Fuzzy modules for DESIRE project.
	682.	Understanding Market Access, Commercial, and Medical domains; through Competitive Insights Reporting, Brand Performance Reporting, Endpoint Trackers, and Knowledge books
	683.	Finding color, shape and size of pills using an image of the pill
	684.	Global level integration of forecast data into a data visualization Global web application platform
	685.	Text Data Analytics using Natural Language Processing Tool, Quid
	686.	Patient Assistance Now Oncology
	687.	Development and Implementation of An Excel VBA Based Dashboard To Track, Analyze And Display Key Performance Indicators (KPI) and Report Generation through Alteryx
	688.	Data analysis using alteryx
173	Nreach Online Services Pvt. Ltd. , Bangalore	
	689.	An Exploratory Study Transformation of Corporate Benefits
	690.	Automation and Analysis of Pre-Sales Process
	691.	Company On Boarding, Automation and Product Management
174	Nucleus Software Export Ltd , Noida	
	692.	Introduction to REST API
	693.	Development of Seed Creation and Forward Call Hierarchy
	694.	Cognitive Document Reader
	695.	Face Liveness Detection and Face Verification
	696.	Speaker identification using speech recognition
	697.	Automation of Deployment
	698.	Vehicle Monitoring System
	699.	Rest API
	700.	Implementing mini Postman on portal
	701.	Message Modifier and Change Impact Analysis
	702.	Fast and Multilingual PDF Generation
	703.	Angular based product development
175	Nutanix Technologies India Pvt. Ltd. , Bangalore	
	704.	STREAM-BASED PROCESSING OF USAGE DATA AND PUBLISHING THEM TO ZUORA
	705.	Management Cluster Bootstrapping
	706.	Improvements in Logbay
	707.	Disaster Recovery Workflows
	708.	Search Performance and Analysis
	709.	Web development work on Xcelerate (Price quoting product)
	710.	remote APIs for ChakrDb
	711.	Panacea-a debugging tool for reducing the time to handle on calls
	712.	Development work on Policies in Nutanix Calm
	713.	PYTHON-3 MIGRATION AND ERA INTERNATIONALISATION
	714.	Flag based filtering for RIM and Automation of SSD Breakfix
	715.	DEVELOPMENT WORK ON INSIGHTS DATA FABRIC TASKS
	716.	Lcm Upgrade History and Automation for Satadom Breakfix
	717.	Back-end web development in Beam Cost Governance
176	Nvidia Graphics - Hardware , Bangalore	

	718.	Xavier IST PLC and Development
	719.	Post Silicon Test Automation and Database Management for MAX-Q Boards
	720.	GPU Performance Verification & Latency Spec
	721.	Implementation and Design of Transport Layer of a Serial Data Interface on SoC using HLS Methodology
	722.	Design of a GUI-Based Tool for Configuring PCIe Internal Logic Analyser
	723.	UVM Based Testbench and Testbench performance improvements
	724.	Visualise CSL log metric
	725.	MSS NVLINK VERIFICATION
	726.	CPU Architecture Validation
177		Nvidia Graphics -Software , Bangalore
	727.	Profiling of Tools meant for Performance Testing of Tegra
	728.	Unit Verification Of Automotive Software
	729.	Safety Verification of Automotive Software
	730.	Boot KPI Optimization, CPU Performance/Utilization Analysis and Clock Verification Tool
178		OfBusiness , Gurgaon
	731.	Software Development for Website Crawling
	732.	Bidassist Platform - Tender Crawler
179		Oyo Rooms (Tech) , Bangalore
	733.	Oyo Life Features
	734.	Device DashBoard
	735.	Software Development
	736.	OYO Mesh IoT(Smart Lock)
	737.	Features on OYO Life and Vacation Homes
	738.	Oyo Life Projects
	739.	Search AutoComplete Feature Development
	740.	OyoLife Features
180		OYO Tech , Gurgaon
	741.	Automating ERP System
	742.	Working on Shifting Of a Hotel
	743.	Internship at OYO Rooms
	744.	Oreo_Refunds
	745.	Admin Platform - Scheme (Create, Edit, View)
	746.	Data-Portal, a django based web application
	747.	BACK END DEVELOPMENT USING MVC ARCHITECTURE
	748.	Working in OYO
	749.	Overview of project in Consumer Experience Engine
	750.	My PS II Internship at OYO
	751.	Consumer Android App development at OYO Rooms
	752.	OYO - Business corporate wallet
	753.	Working in OYO's Operations Technology
	754.	Payments Automation and Mark Resolve Rooms
	755.	UI and Server Development
	756.	STABILITY OF SAP SYNC
	757.	Web Development in OYO.
181		OYO Tech , Hyderabad
	758.	Building Microservices for OYO's b2b mobile application
	759.	Supply Chain Operations at OYO Rooms
	760.	Integration of GDPR Service in OYO
	761.	Software Development

	762.	FULL STACK APPLICATION DEVELOPMENT
	763.	Supply Chain Operations
	764.	Object Detection using RCNN algorithm
	765.	Enhancement of OYO Total Holidays
182	PAYPAL , Chennai	
	766.	1. Analyzing seller responses using Automated Keyword Extraction 2. Analyzing the causes for PayPal's risk by evaluating the chargeback volumes and accuracies of Seller Protection flags.
	767.	behavioral analysis of buyers post dispute
	768.	Marketplace Identification and Dashboarding
183	Petasense - Services & App Development , Bangalore	
	769.	Full Stack Development at Petasense Inc.
	770.	Full Stack Development at Petasense Inc
	771.	Full stack development at Petasense
184	Piramal Group , Mumbai	
	772.	E-Commerce Automation
	773.	Bank Statement Analysis and Fraud Detection
	774.	Automation in Business
	775.	Fraud Detection Using Machine Learning
	776.	Incentive Analytics Engine & Online Reviews Analysis
	777.	Report On Automation and Analysis
	778.	Credit Risk Management
	779.	Data Analysis on Piramal Swasthya's Health Corpus
185	PricewaterhouseCoopers (PWC) , Bangalore	
	780.	Champion Service Sector Scheme - Healthcare and Wellness
186	PricewaterhouseCoopers (PWC) , Gurgaon	
	781.	Internship experience at PwC India
	782.	DATA BANK ON METRO PROJECTS OF INDIA AND COMPREHENSIVE MOBILITY PLAN
	783.	Predictive Maintenance in Oil & Gas Industry
187	PricewaterhouseCoopers (PWC) , Hyderabad	
	784.	Development of Tourism Industry using corridor approach
188	PricewaterhouseCoopers (PWC) , Mumbai	
	785.	Aryan Sharma End Sem Report
	786.	Project Lakshya (Sales and Operations Management)
	787.	Title of the Projects: 1. Due diligence of CGD Network 2. Proposal to undertake a Digital Maturity Assessment for the client 3. Due diligence of Gas demand in a green field city 4. Acquisition of West African Trading firm
189	Publicis Sapient , Bangalore	
	788.	Payment settlement using R3 Corda blockchain platform
	789.	HOW QUALITY OF DATA / INTELLIGENCE CAN BE VERIFIED FOR RELIABILITY ON ALEXA and FEATURE DEVELOPMENT FOR SPEEDY 2.0
	790.	Comparative Study of Onboarding Solutions and FinTech Radar Visualization
	791.	Open Banking Platforms Comparison and Analysis
	792.	RoboTester
	793.	Chatbot for anonymization of personal data, Resume Recommender System according to job postings
	794.	PS2 Report - DIGITAL PM SOLUTION (A CONVERSATIONAL CHATBOT)
	795.	Digital PM Solution (A Conversational Chatbot)
	796.	E2E Hiring Initiate Projects(Interactive voice response and Power BI Dashboard)
	797.	RoboTester(Autonomous Execution Utility)
	798.	Transformer- A innovation Platform
	799.	Interactive Voice Response
	800.	Comparative research on client onboarding products and kony app developer

	801.	Transformer - A Platform for Innovation
	802.	Market Intelligence
	803.	Payment settlement system using R3 Corda blockchain platform
	804.	Market Intelligence using AI
	805.	E2E hiring initiative projects
	806.	1) HOW QUALITY OF DATA / INTELLIGENCE CAN BE VERIFIED FOR RELIABILITY ON ALEXA / GOOGLE HOME / SELF DRIVING CARS? 2) FEATURE DEVELOPMENT FOR SPEEDY 2.0
	807.	Comparison And Analysis of Open Banking Platforms
190	QUANTIPHI , Mumbai	
	808.	cyber security over web and network
	809.	Techniques to reduce the size, time and computations of Machine Learning Models
	810.	Effecient Way of Data Retrieval from Servers
	811.	Multimodal Fusion
	812.	Media Assets Restoration
	813.	Faster Web Navigation
191	Qubole , Bangalore	
	814.	Create a feature to integrate hive-tables, google bigquery and datastores into a single feature called datasets.
	815.	The learnings and work done at Qubole Software India PVT. LTD.
	816.	The learning and work layout at Qubole Software India Pvt. Ltd
	817.	Infrastructure and Tools at Qubole
	818.	Centaur, A Regression Management Portal
	819.	Development and automation in integrating jupyterlab in qubole environment
	820.	Zeppelin Notebook
	821.	Backend development of Qubole interface
192	RACEnergy , Hyderabad	
	822.	(i) Reverse Current Protection System (ii) Embedded Firmware Development
	Reflexis Systems India Pvt Ltd. , Pune	
	823.	A REPORT ON RWS TRANSLATION TOOL, UTILITY PROGRAMS
	824.	Employee Performance Platform
	825.	Interval-level forecasting of time series sales data
	826.	Automation of Deployment Process
	827.	Automation of Deployment process
	828.	RWS Application Utilities and NLP Chatbot
	829.	Machine Learning Techniques
	830.	Product Implementation of RWS
	831.	Software Developer in EPP
	832.	Docker and containerization
	833.	Comment Analysis for Detecting Project Delays and Development of Deep Neural Networks for Time Series Forecasting
193	ReportGarden Technologies Pvt. LTd. , Hyderabad	
	834.	Migration and Integration of Customers from RG1.0 to RG 2.0
	835.	Automation and regression Testing
	836.	Live Integration
	837.	LEAD GENERATION
	838.	Market Research and Product Analysis
	839.	Consumer Operations for ReportGarden Technologies, Pvt. Ltd
	840.	Consumer Operations
	841.	Volumetric Causality Analysis

	842.	Software Testing
	843.	Software Development & Quality Assurance
194	Resonance Data , Gurgaon	
	844.	EXTRACTION OF REQUIRED DATA AND CATEGORIZATION OF SPEND DATA
195	Robert Bosch Center for Cyber Physical Systems , Bangalore	
	845.	Development of Text Search Module for IUDX Catalogue
	846.	Traffic Analytics Model
196	Samsung Semiconductor India R&D Center-Hardware , Bangalore	
	847.	Automisation of PEX Flow
	848.	Bad pixel detection and correction
	849.	Statistical Modelling and DL for NAND memory access patterns and I/O workloads
	850.	Crossfire and DAC Design
	851.	Using NNAPI for inferencing on Android Devices
	852.	Camera Image Sensor
	853.	Firmware Development for a new communication protocol and getting hands on experience with basics of RTL Design
	854.	AES Encryption and Decryption IP development
	855.	Verification of Rhino SSD through HSS using System Verilog and UVM in SV/Unit Firmware
	856.	Memory Design Verification
	857.	Analysis, Simulations and Characterization of Error Amplifier and Power Stage in Buck Convertor.
	858.	Enabling training of neural network on edge
	859.	Formal Verification of Debug Structures
	860.	DV and PnR Automation
197	Sattva Media & Consulting Pvt Ltd , Bangalore	
	861.	Design: Impact Movement
	862.	Impact of Technology on Product Management for CSR Initiatives
	863.	Use of tools to improve resource allocation and organisation in impact consulting
198	Sattva Media and Consulting Pvt Ltd , New delhi	
	864.	PRI-Social Impact Women Incubator Program and UNICEF Fund Raising Program
199	Servicenow Software Development India , Hyderabad	
	865.	PS-II Report Hiring feedback application
	866.	Service Portal (CSM)
	867.	New On-Boarding Portal
	868.	Request Automation
	869.	Handling the @developers.service-now.com
	870.	Practice School 2 at Servicenow
	871.	Third Party Integrations Management
	872.	OCR Applications
	873.	Integration of Different Application with Service Now Platform
	874.	ServiceNow Surf
	875.	Sentiment Analysis
	876.	AIOps
	877.	Form Recognizer
	878.	NLU Model Builder
	879.	WEB INTEGRATION
	880.	Named Entity Recognition in Servicenow
	881.	Enterprise Search
	882.	iOS App Development
	883.	Machine Learning Use cases
200	Shell Technology Center , Bangalore	

	884.	Methods to quantify Catalyst attrition in Fluidized Beds
	885.	optimization of catalyst in smpo process
	886.	Methanol Handling in AGRU
201	shipsy , Gurgaon	
	887.	Backend Development with Node Js
	888.	Logistics Backend Development: Online Booking Backend
	889.	API development for Container tracking
	890.	Backend Node.js development for EXIM
202	ShortHills Tech Pvt. Ltd , Gurgaon	
	891.	BestViewsReviews
203	Siemens PLM Software , Pune	
	892.	Constructing a Lightweight Standalone Configurator using Mendix
	893.	Active Workspace Development
	894.	MENDIX & AVIONICS TEMPLATE DEVELOPMENT IN POLARION
	895.	Work done at Siemens PLM, Pune
	896.	END TO END SOLUTION TESTING AND MI STUDIO UTILITY DEVELOPMENT
	897.	Refactoring of MindSphere's Developer Cockpit
	898.	App Development on Mendix and Polarion Template Development
	899.	Assembly Visualization of as-built Structure
	900.	Adding features and Profiling for code optimization in Active Workspace
	901.	Requirement Specification revisioning for better traceability
	902.	QGATE AUTOMATION
	903.	Automated Explosion
	904.	Solid Edge software testing and data migration
204	Skoda Auto India Pvt. Ltd. (Chakan) , Pune	
	905.	1. Product Skoda Rapid 2. India and its automobile market
205	Skoda Auto India Pvt. Ltd. , Aurangabad	
	906.	Repetitive defects analysis and proposing corrective measures and improving defect feedback mechanism and coordinating kaizen activities.
	907.	Store improvement work and other maintenance activities in the assembly line.
206	Skoda Auto India Pvt. Ltd. , Mumbai	
	908.	MARKET REVIEW AND ANALYSIS, COMPETITION ANALYSIS, ACCESSORIES MAPPING AND STUDY, COMPETITION PRICING ANALYSIS
	909.	Sales Planning at SAIPL/SAVWIPL
	910.	CUSTOMER XPERIENCE
	911.	Data Analysis by Monitoring Trends in Customer Concerns at Skoda Auto Volkswagen India Private Ltd.
	912.	A Project rept on Dealer Network Development
	913.	Monitoring Different KPIs of After sales in Skoda West region
	914.	IACS Monitoring, Q-check Implementation and VBA macros
	915.	1.) Competition Analysis 2.) Competition Pricing and Analysis 3.) Accessory Supplier Search of Competition 4.) BBC Football Connect 5.) Specification Sheets and Press Flyers
	916.	Coordinating for various activities and initiatives of India 2.0 and ensure process implementation in the department.
207	Society for Health Information Systems Programme , Noida	
	917.	Dhis2 tracker capture updating. interactive dashboard vue.js heatmap and charts changes. API modifications in openimis fhir module
208	Solar Energy Corporation of India , Delhi	
	918.	SECI Final Report/Field Quality Assurance Plans
209	Spicer India Ltd. , Pune	
	919.	Quality Management
	920.	Linear Performance Pricing and OES pricing

	921.	IT INTEGRATION OF MAJOR HR PROCESSES
	922.	Spares Consolidation
	923.	BENCHMARKING OF COMPETITOR PRODUCT
	924.	ROLE OF APPLICATION ENGINEERING & A CASE STUDY ON BEAM MODIFICATION
	925.	Quality and Operations Management
210	Splash Math , Gurgaon	
	926.	Android App Development
	927.	Push Notification Service using AWS SNS & Subscription Micro-service using Stripe
	928.	Game development using javascript and cocos 2d js
	929.	LifeCycle Emails Server,Subscription MicroService
211	SRF Ltd. , Gurgaon	
	930.	Basic Engineering Package Equipment Design and Basics of Piping and Instrument Design
	931.	Process Development and Scale up Studies of new products
	932.	Methods of Separation Of Tertiary Butyl Alcohol from Water
	933.	Batch Distillation
	934.	Basic Engineering Package
	935.	Storage tank venting and scrubbing of HCl fumes in packed bed column.
212	ST Microelectronics(I) Pvt.Ltd. , Greater noida	
	936.	Enhancement of Yield Analysis Methodology in Analog Flow
213	Sun Mobility , Bangalore	
	937.	End Of Line and Health of system
	938.	TEST PROCESS AUTOMATION OF MQIS
	939.	FRACAS APPLICATION, KAFKA INTRODUCTION, MEMORY LEAKS & FAULT CODES
	940.	Reduction of wheeler pack assembly line takt-time
214	Symantec Software Solutions Pvt. Ltd. , Bangalore	
	941.	1. FIDO2 Authentication using the BLE feature . 2. A key generation portal for embedding the app key details into the zip download file and avoiding the activation codes
	942.	HTTP Web Services and Big Data Study: Implications of data storage and layouts on query performance
215	Symphony Fintech Solutions Pvt. Ltd. , Pune	
	943.	Financial chart windows application - XFinChart
	944.	XFinchart
	945.	XFinChart - Financial Charting Software for Windows & XTS .NET Core Migration
216	Synopsys India Pvt. Ltd. , Hyderabad	
	946.	Testing the Frontend components of PDK
	947.	DEVELOPMENT OF PDK LIBRARIES.
217	TapChief , Bangalore	
	948.	TapChief: B2B Sales & Marketing
	949.	Project Management Tool Development - Customer Success Team
	950.	Network Development & Supply Acquisition
	951.	Supply Acquisition
218	Tata Chemical Innovation Center , Pune	
	952.	Synthesis of Silica Anisotropic Nanoparticles
	953.	Fructo-oligosaccharide (FOS) Interaction with Bakery Product Matrix
219	Tata Consultancy Services , Bangalore	
	954.	DEVELOPMENT OF SMART CONNECTED CARE SOLUTION
220	Tata Motors Ltd. , Pune	
	955.	A REPORT ON PROJECT LIFE CYCLE MANAGEMENT, TATA NEXON 2.0 & BS-VI Vehicle Integration
	956.	Nexon (2.0 & BS6) MCE BIW: From Beta to P0 and PP
221	Tata Motors Ltd. , Sanand	
	957.	MID CYCLE ENHANCEMENT
	958.	Mid Cycle Enhancement (MCE) Project

	959.	Productionalization (Mid Cycle Enhancement) of Tata Tiago and Tigor.
222	Techure Structures (IT) , Nagpur	
	960.	Autdesk Revit plugin - planBIM
	961.	Web application development
223	Techure Structures , Indore	
	962.	Building Information Modeling
224	Techure Structures Pvt Ltd. , Nagpur	
	963.	BIM for Architectural and Structural Modelling of Buildings
225	Tega Industries , Kolkata	
	964.	Optimisation of blank making process in Cold Feed Extruder(CFE) shopfloor
	965.	Loading and Unloading Process in IPD so as to remove non-valued activities and reduce manpower
226	Tega Industries SEZ Ltd , Dahej	
	966.	Design of First Time Right and Pallet Rack System
	967.	FIRST TIME RIGHT & PALLET RACK
227	TESCO Hindustan Service Centre , Bangalore	
	968.	Text Mining and Automation
	969.	A Report on Automation Projects at Tesco PLC
	970.	Automation of periodic reports and Data Analytics
	971.	Store Reports & Colleague Spend Analysis
	972.	AUTOMATION & DATA CLEANSING
228	Texas Instruments (I) Pvt. Ltd - Systems , Bangalore	
	973.	C2000 Based Digital Solution for Battery Test Equipment
	974.	CURRENT SENSING IN BMS FOR EV/HEV
229	Texas Instruments (I) Pvt. Ltd. -Analog , Bangalore	
	975.	Generic Computational Library for ADC and Evaluation Module
	976.	Finding Jitter in digital circuits and oscillators.
	977.	Study and Simulation on Electromagnetic Interference Reduction Techniques
	978.	Automated Visual Test
230	Texmaco Rail & Engineering Ltd. , Kolkata	
	979.	Riser Cracks in Mako Corner Shrouds
231	Think and learn , Bangalore	
	980.	Game Storyboard development and data analysis
	981.	Development of Employee Utility portal and Recruitment website.
	982.	Multi class Text classification by applying neural net
	983.	Web Development
232	Thinkerbell Labs - Developer , Bangalore	
	984.	Design and Development of spam classifier , emulator for Annie and Automation testing for Annie code
	985.	Internal Tools and Process Enhancement
233	Thinkerbell Labs - Electronics , Bangalore	
	986.	Designing and Construction of Test Jigs for functional testing of PCBs
	987.	Design and Fabrication of Test Jigs for Functional Circuit Testing of components of Annie
234	Thinkerbell Labs - Mechanical Design , Bangalore	
	988.	Tasks Performed in Supply Chain and Production Batch in Pune
235	Thinkerbell Labs - Partnerships , Bangalore	
	989.	Business Development
	990.	Business Development Associate at Thinkerbell Labs
	991.	Business Development Intern
236	Thorogood , Bangalore	
	992.	BUILDING END-TO-END DATA ANALYTICS SYSTEMS USING BUSINESS INTELLIGENCE TOOLS
	993.	Project CUTLASS and Project MIPS2.0
237	UBER , Hyderabad	
	994.	OPTIMISATION PROCESSES IN SCALED OPS, UBER PLUS and INVENTORY MANAGEMENT
	995.	Policy Engine Development
	996.	New Eater Fraud Score Model
	997.	Delivery Partner churn prediction & analysis for setting dynamic credit limits
238	UBS Business Solutions (India) Private Limited - Finance Group , Pune	

998.	UBS Business Solutions_2015B3AB0577H-Mudit Gupta Final Report
999.	Daily PnL Reporting, UK Product Control(CCS)
1000.	Process and quality improvement of Data Lineage
1001.	High net worth Client management in financial accounting and controlling
1002.	Commercial Lending for Par Loans
1003.	Product Control and Analysis in Investment Banking, UBS Pune
239	UBS Business Solutions (India) Private Limited - Group Operations , Pune
1004.	Study of Fails Management Process in Securities Settlement.
1005.	Financial Accounting
1006.	Process and quality improvement of data lineage
1007.	A REPORT ON CREDIT RISK CONCEPTS, CALCULATION AND RATING BREAKS
1008.	ANNOUNCEMENT UTILITY process at group operations, GLOBAL WEALTH MANAGEMENT, UBS
1009.	Enhancing Operations Efficiency
1010.	Settlement process at UBS
1011.	UBS INTERNSHIP DESCRIPTION
240	UBS Business Solutions (India) Private Limited - RAS FINANCE , Mumbai
1012.	Foreign exchange rates
1013.	OTC Derivatives Pricing for Valuations Control Services Team
1014.	Transfer Pricing Balance? ?Sheet Posting and Balance Sheet Sign Off
1015.	Investment Bank Reporting and Transitioning of reports from Insight to EDS
1016.	Group Reporting, RAS Finance
1017.	Leverage Ratio Denominator
1018.	Strategic Financial Reporting
1019.	Group Reporting
1020.	Financial Reporting Strategy
241	UBS Business Solutions(India)PrivateLimited-Group Operations , Mumbai
1021.	Wealth Management
1022.	AUTOMATION OF FINANCIAL DATA HANDLING USING DATA MANAGEMENT INBOX (DMI PORTAL)
242	Udaan , Bangalore
1023.	Enterprise
1024.	Optimization of warehouse process
1025.	Buyer Behavior Analysis
1026.	Delhi Fresh Fruits and Veg. Market Sizing
1027.	Electronics Demand Team Management and FOS Productivity
1028.	Managed Fulfilment of Toys and Baby-Care division at Udaan
1029.	Brand Development, Sales and Inventory Planning Analysis for Consumer Electronics
1030.	Improving productivity of BDE's for Electronics Category
1031.	Maximizing buyer acquisition
1032.	Food-FMCG Buy-sell margin and pricing
1033.	Improving the FOS Productivity for the Home & Kitchen Category
1034.	Buyer behaviour
1035.	Business Development (Clothing Team)
1036.	Market Size Estimation of F&V Market in Bangalore
1037.	Last Mile Logistics Optimization
1038.	POSM Deployment streamlining to reduce cost and TAT
1039.	Money Laundering Detection (Credit) and Future planning of newly formed running accounts (Fresh)
1040.	ANALYSIS OF BUYER BEHAVIOR AND METHODS TO INCREASE REPEAT BUYER PERCENTAGE
1041.	Financial Planning and Analysis
1042.	Merchandising (Menswear Clothing)
1043.	To assist the expansion of Food-FMCG category by the following
1044.	DOA Tracking and Inventory Management
1045.	Business Development - Smartphone DTR Supply
1046.	BDE productivity optimization
1047.	UdaanPay - A UPI Payment Solution for Retailers
1048.	Credit ops management for pharma department
1049.	Growth of E-Commerce as a channel in FMCG

	1050.	Financial Planning & Analysis(Returns, Buyer repeat rate and selection improvement)-Jomal Jochan
243	Udaan , Delhi	
	1051.	Developing insights into Food-FMCG market and reactivation of Dormant buyers
	1052.	MARKET SIZING AND ESTIMATION OF THE F&V INDUSTRY IN DELHI
244	Udaan , Hyderabad	
	1053.	Market size estimation for the F&V industry in Hyderabad and optimization of supply-side activities
245	Udhyam Learning Foundatation , Bangalore	
	1054.	Development of Django-based loan-data analysis Dashboard
246	UPGRAD , Mumbai	
	1055.	CONTENT AND ACADEMIC COURSE DEVELOPMENT : FULL STACK DEVELOPMENT (COLLEGE PROGRAMS)
	1056.	Infosys Sales Scenarios Program and Project Management Course
	1057.	Content Delivery and Analysis
	1058.	Content Design and Development
	1059.	Blockchain: Content and Academic Course Development
247	UST Global - Cochin , Cochin	
	1060.	Object Spy
	1061.	1) Dynamic X- path generation. 2) Botium Analysis 3) Vanguard Charitable(main project)
248	UST Global- Chennai , Chennai	
	1062.	Machine Learning Vendor Prediction and the User Interface• and IOT use-case for Assembly line and maintenance of clean room conditions using Node-RED .
	1063.	User behavior Analysis & Object Detection
	1064.	A report on Serverless Computing, Machine Learning, Feature Extraction and Internet of Things
	1065.	Machine Learning Vendor Prediction and Serverless Computing
	1066.	Machine Learning, Data Mining(PDF Automation), Serverless Computing
249	UST Global Infinity Labs-Robotics , Thiruvananthapuram	
	1067.	SERVERLESS APP DEPLOYMENT USING KNATIVE AND WEB DEVELOPMENT USING REACT
	1068.	1. Product design and management of fincuro. 2. Potential customer capability for Experian. 3. Mitigating product deliver gap
	1069.	Energy Monitoring System
	1070.	Minimal Private Ethereum Network on Kubernetes & Distributed Micro Grid on Hyperledger Fabric
	1071.	Retail Data Analyzer
	1072.	Energy Monitoring and Tariff Calculation System
	1073.	Research on Blockchain and cryptography protocols as an additional privacy layer to tackle the internet's digital identity problem
	1074.	Myml flow
	1075.	1. Serverless App Deployment using Knative 2. Web Development using React 3. Desktop App using Electron
	1076.	Minimal Private Ethereum Network on Kubernetes & Distributed MicroGrid on Hyperledger Fabric
	1077.	Zero-Knowledge proofs
	1078.	Smart Car parking
	1079.	Zero knowledge proofs
	1080.	Private Ethereum Network into Kubernetes and Distributed Micro Grid in Hyperledger Fabric
	1081.	MYMLFlow: An end to end platform for Machine Learning
250	UST Global- Trivandrum , Trivandrum	
	1082.	AI Powered Qualitative Testing
	1083.	Employees information management system
	1084.	Smart Parking Systems
	1085.	Critical Path Frequency analysis and ETA Prediction
	1086.	Critical Path Analysis and ETA Prediction of ETL Jobs
	1087.	Qualitative Test Run Prediction
251	Viacom18 Media Pvt. Ltd - Corporate Strategy , Mumbai	
	1088.	Business Intelligence in Viacom18
252	Viacom18 Media Pvt. Ltd - Digital Ventures , Mumbai	
	1089.	Competitor Tracking- Sales Planning
	1090.	Shivam Chawla-Viacom18 PS2-Sem1 Report

	1091.	Campaign Management and Search Engine Optimization at Viacom18, Digital Ventures.
	1092.	Partnerships and Licensing for an OTT Platform
	1093.	Ad Tech Understanding
253	Vitor Healthsciences Pvt. Ltd. , Bangalore	
	1094.	Dashboard to find Inferences in data
	1095.	Dashboard to find Inferences
254	VMware Software India Pvt. Ltd. , Bangalore	
	1096.	Reliability of Distributed Remote Memory using RAID 6 Erasure Coding
	1097.	SELF REPLICATING PAGE TABLES IN LARGE SCALE NUMA MACHINES
	1098.	Testing MicroServices
	1099.	MockingJay: UI tool for mocking
	1100.	HIGH AVAILABILITY FOR PERSISTENT MEMORY
255	William O Neil India Pvt Ltd , Bangalore	
	1101.	Application of AI/ML on trading algorithms
256	Worley Parsons India , Hyderabad	
	1102.	Automation and Machine learning
257	Worley Parsons India , Mumbai	
	1103.	USING ALEXA TO CONNECT TO AN ENGINEERING DATABASE VIA ELASTICSEARCH
	1104.	Converting scanned engineering drawings to CAD drawings using machine learning
258	Xilinx India Technology Services Pvt. Ltd. , Hyderabad	
	1105.	Automatic Result Updation in Testlink From Result Viewer
	1106.	CAN tester IP
	1107.	1 Automation of mail sender using webscraping in pythonâ€ 2. Designing a full stack website using Djangoâ€ 3. Installing and customizing LAVA server with Docker & Docker-composeâ€
259	Yale University , Norway	
	1108.	Auto Scoring Football Drills
	1109.	Mobile Sports Analysis Using Computer Vision
260	Zendrive India Pvt Ltd , Bangalore	
	1110.	Automating tasks in AWS for security compliance
	1111.	DATA GENERATION AT SCALE AND WEB SCRAPING OF GEO-SPATIAL DATA
	1112.	Quantifying Sensor Data Quality
	1113.	Deploying tasks on Airflow and Automation using Jenkins
	1114.	Projects in Backend
261	Zeotap India Pvt. Ltd. , Bangalore	
	1115.	Lookalike pipeline development
	1116.	Zeotap Audience Targeting Platform
	1117.	ZeoCore Operational Excellence
	1118.	Building big data pipelined for Business Intelligence Reporting and Raw Data export processor
	1119.	Telco engineering and match tests
	1120.	Raw Data Export Pipeline and Data Preprocess Module
262	ZiMetrics Technologies Pvt. Ltd. , Pune	
	1121.	DevOps and its Applications
	1122.	DevOps & its application
263	Zinnov Management Consulting Pvt. Ltd (IT Project) , Bangalore	
	1123.	Extraction, Transformation and Loading of Data
	1124.	Curriculum Tagging Model at Draup
	1125.	Certification Validation using PU Learning and CNNs
264	Zinnov Management Consulting Pvt. Ltd., , Bangalore	
	1126.	NASSCOM start up landscape report
	1127.	Global In-house center setup model
	1128.	ENABLING THE GIC TO UNDERSTAND THE GOOD PRACTICES BEING FOLLOWED BY PEERS IN THE INDUSTRY TO MOVE AHEAD IN THE VALUE CHAIN & WALMART TECH TALENT BENCHMARKING.
	1129.	Indian Startup Landscape Report 2019
	1130.	Market-sizing of European service provider space, Essel innovation program, Private equity due diligence
	1131.	Global In-house Center

	1132.	Strategic Consulting
	1133.	HR Recruitment Consultancy (Talent Analysis) & Digital Initiatives Analysis (Sales Enablement)
	1134.	ER&D Report, ER&D Automotive report, Z1000 report
	1135.	DRAUP Talent And Sales Analysis
	1136.	TALENT AND SALES ANALYSIS â€” DRAUP BRAINDESK
	1137.	University Landscape in India
	1138.	Global In-house center setup and its growth through accelerator model.
	1139.	Talent Analysis and sales enablement
	1140.	Portfolio Management
	1141.	Employee Benefit in the organization
	1142.	Global in house center set up
265	Zinnov Management Consulting Pvt. Ltd., , Gurgaon	
	1143.	The aim behind this project was to understand Developer Program ecosystem in India.
	1144.	Artificial Intelligence- Point of View, Hitachi AI Indian Peer Analysis
	1145.	Connecting client with potential business for child safety solutions â€” Cloud POV, Forbes 200 Companies â€” Zinnov Zones, Cloud IIoT Platform Assessment and ranking â€” Primary Engagements for a project on Cloud Storage Solutions â€” Client Compete Study: Collaboration Software â€” Market Assessment, Account Deep Dive HCI and cloud storage
	1146.	Hitachi AI/ML compete analysis
	1147.	Private Equity Deal Sourcing, Evaluation and Due Diligence
266	Zomato Media Private Limited , Gurgaon	
	1148.	Data Warehousing and Inventory Optimisation

BITS PRACTICE SCHOOL STATIONS

2019 - 2020



Alumni Relations Division

In 2017, BITS Pilani formed a new university-wide Alumni Relations Division led by Prof Arya Kumar, Dean, Alumni Relations. The Division aims to connect the BITS Pilani global alumni network and involve them in the Institute's development plans in association with BITSAA International. The Alumni Division has a strong student-alumni team led by the Dean with the cross-campus support provided by Associate Deans, Alumni Relations in each campus of BITS Pilani. The main purpose is to constantly connect with alumni and conceptualize, develop and organize various alumni-led initiatives related to campus development, student life and academic processes. The institute Alumni Relations Division and BITSAA would have seamless functioning across all processes.

Alumni Donations

- Alumni couple, Prashanth and Anuradha Palakurthi have transferred \$250 K as the first instalment (out of at least US 1 million dollars pledge) towards setting up an Anuradha and Prashanth Palakurthi Centre for Artificial Intelligence Research (APPCAIR) with an objective to promote research in the area of Artificial Intelligence.
- 1993 Batch alumni which celebrated their meet in Pilani Campus during December 2018 has crossed a pledge amount of \$425000 and has already transferred an amount of Rs. 2.29 Crores to their beloved Alma Mater. This includes the donation of Rs.1.45 Crores by Mr. M. Shreenivasa Reddy for tinkering lab.
- 1989-93 Batch alumni which celebrated their Silver Jubilee Reunion in November 2018 have crossed a pledge amount of \$97000 and transferred amount of Rs. 26.40 Lakhs towards promoting active alumni engagement and contribute back to their alma mater.
- An amount of US \$5000 has been donated by Mrs. Manjula & Mr. Prem Talreja towards the Alumni Convention Center project.
- On the occasion of BITSIAN Day, BITSAA Delhi Chapter donated an amount of Rs 11 Lakhs towards the Alumni Convention Centre project.
- An amount of Rs 5.08 Lakhs has been received from CMS computers Limited towards the two scholarships (two semesters) created for the first-year students in honor of Late Shri R. D. Grover, a 1968 batch alumnus from BITS Pilani, Pilani Campus.
- Graduation class campaign was launched for 2019 and 2020 graduates in Pilani Campus and there has been a reasonable response.
- Century Textiles has pledged Rs 1 Crore towards setting up Shri BK Birla Incubation and Innovation Centre at Pilani Campus under CSR Funding.
- The 1964-69—the pioneer batch of BITS Pilani contributed/pledged Rs 117 Lakhs towards a scholarship fund to the needy students under MCN category.
- 1994-98/99 Batch alumni celebrated their 25th year of joining BITS Reunion in December 2019 has set a target of \$201.99 K towards contributing back to their Alma Mater.
- 1990-94/95 Batch alumni celebrated their Silver Jubilee Reunion in November 2019 has set a target of \$250 K towards contributing back to their Alma Mater.
- The Batch 1979-83/84 has decided to contribute for the Convention Centre in Pilani Campus. A core team of the batch is actively working to raise funds.
- The Pharmacy batch 1969-73 has decided to contribute Rs 10 Lakhs for the Animal Housing Project of the Pharmacy Department.
- In a major breakthrough, an amount of Rs 21 Lakhs has been received from Mitutoyo South Asia under CSR Fund towards Research Equipment in Industry 4.0 Lab and fellowship for Ph.D. Scholar.
- Axis Bank has committed Rs 25 Lakhs towards Social Project (3D Printed Prosthetic Legs) under CSR Funding.
- Dr. Satish Goel, an alumnus of BITS Pilani has created an endowment (with a corpus of INR 21 lakhs) for funding fellowship to a research scholar pursuing Ph. D programme at BITS Pilani, Pilani Campus. This endowment has been created in recognition and honour of Dr. Satish Goel's parents, Shri Omprakash Goel & Smt. Kamla Goel and grandfather, Shri Ramkishan Goel. The intent of this endowment is to provide 50% fellowship to a PhD candidate pursuing research work in the area of Chemical Engineering or Chemistry or Computer Science. The fellowship has been awarded to a research Scholar from Chemical Engineering Department from August 2019 onwards.
- An amount of Rs 13.84 Lakhs was dispersed on the name of BITS Alumni Fund for Children's Education (BAFCE), a charitable fund instituted by the 1987 batch on behalf of all alumni coinciding with their Silver

Jubilee Reunion have been dispersed to college studying children of eligible employees of the BITS ecosystem in Pilani Campus during 2019.

- Vasu Sharma, Sidhartha Namburi, along with other BITSians and alumni set up a crowdfunding campaign in order to raise the funds for the treatment of the wife of beloved "Chowki bhaiya", Shri. Vikram Singh, who got diagnosed with advanced stages of blood cancer in January 2019. In less than a week, Rs 30 lakhs were obtained through donations made by alumni from all over the world, showcasing the incredible strength and unity we possess. Thanks to the efforts from everyone, the bone marrow transplant was arranged for.
- An amount of Rs 54K has been donated by Prof. B. R. Natarajan on behalf of 1974-79 batch for procuring a drum for the Music Club. He further donated an amount of 20K for supporting the registration and travel expenses for BITSian startup AR based Elixir Systems for attending a product startup conclave at NPC Bangalore.
- Scholarships amounting for Rs 38.09 Lakhs were dispersed to the needy first degree students across the three Indian campuses either through existing endowments or fresh donations by alumni. This also includes a variety of awards also.

Donations by Alumni

BITS Pilani, Hyderabad campus has taken an initiative to strengthen the relationship with BITSAA Hyderabad Chapter. As a result, Rs. 1 Lakh was awarded from BITSAA Hyderabad Chapter to support one student for travel and accommodation for a summer internship abroad from BITS Pilani, Hyderabad campus.

Contributions Received from Alumni

S.No	Name	Batch	Towards	Amount	INR/USD
1	Srikanth Gonuguntla		Bring the Peacocks back	1,752.00	INR
2	Upendra Chandra Goyal	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	50,000.00	INR
3	Ganganath Jayanthi	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	10,000.00	INR
4	Ashok Kumar Sureka	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	100,000.00	INR
5	Kamla Sureka	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	100,000.00	INR
6	M/S Dee Tee Industries Pvt. Ltd.	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	250,000.00	INR
7	Rashmin B Shah	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	500,000.00	INR
8	Harjeet Singh Kochhar	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	100,000.00	INR
9	ZL Software Systems Pvt Ltd	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	710,000.00	INR
10	ZL Software Systems Pvt. Ltd.	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	99,400.00	INR
11	Guljit Singh Kochhar	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	500,000.00	INR
12	Kittur S Shankar	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	710,000.00	INR
13	Somrita Chandra	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	20,000.00	INR
14	Shuban Krishan Kaul	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	15,000.00	INR
15	Budh Prakash Arora	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	100,000.00	INR
16	Govind Singh Mehta	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	25,000.00	INR
17	Shashi Mehta	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	25,000.00	INR
18	Shashi Rajvanshy	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	710,000.00	INR
19	Dewas Metal Sections Ltd.	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	250,000.00	INR
20	Ashiana Foundation	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	300,000.00	INR
21	Rakhi Kothari	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	300,000.00	INR
22	Pebble Trading And Finance Pvt. Ltd	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	410,000.00	INR
23	Paras Nath Jain	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	25,000.00	INR
24	Sudhir Chand	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	100,000.00	INR
25	Vimalchand Sawansukha	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	25,000.00	INR
26	Ajit Kumar	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	500,000.00	INR
27	Pradeep Kashyap	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	100,000.00	INR
28	Vaibhav Sethi	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	500,000.00	INR
29	Sunil Kumar Agrawal	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	100,000.00	INR
30	Surinder Kumar Khurana	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	10,000.00	INR
31	Tilak Raj Chaudhry	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	250,000.00	INR
32	Darshan Singh Chawla	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	100,000.00	INR
33	Om Sitaram Saraf	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	25,000.00	INR
34	Santosh Behari Mathur	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	50,000.00	INR
35	Shreenath Enterprises	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	10,000.00	INR
36	Kishu Teckchandani	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	100,000.00	INR
37	Dr. Manish Jain	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	200,000.00	INR
38	Pramod Kumar Bhargava	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	50,000.00	INR

S.No	Name	Batch	Towards	Amount	INR/USD
39	Ravi Bhargava	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	15,000.00	INR
40	Arun Kumar Kochar	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	10,000.00	INR
41	Chandresh Kumar Jain	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	200,000.00	INR
42	K. B. Kesava Rao	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	30,000.00	INR
43	Kailash Nath Agarwal	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	10,000.00	INR
44	Gujarat Colourlam Pvt. Ltd	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	500,000.00	INR
45	Rajvir Singh Jurel	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	10,000.00	INR
46	Ramesh Chandra Dass	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	25,000.00	INR
47	Pankaj Seth	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	11,000.00	INR
48	Surendra Singh Maru	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	25,000.00	INR
49	Virendra Kumar Navlakha	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	25,000.00	INR
50	Gunbala Nalakha	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	75,000.00	INR
51	Shyam Sunder Agrawal	1964-69 Batch	1964-69 Batch Alumni Scholarship Fund	250,000.00	INR
52	B.R. Natarajan	1974-79 Batch	Music Club	54,000.00	INR
53	Anupam Adeeb	1990 Batch	1990 Batch Fund	25,000.00	INR
54	Harshwardhan Honmode	1990 Batch	1990 Batch Fund	24,982.30	INR
55	V Anil Kumar	1990 Batch	1990 Batch Fund	99,982.30	INR
56	Bharat S. Krishna	1990 Batch	1990 Batch Fund	25,000.00	INR
57	Krishnan Viswanath	1990 Batch	1990 Batch Fund	75,000.00	INR
58	Kingshuk Chakravarty	1990 Batch	1990 Batch Fund	24,675.50	INR
59	Anupam Adeeb	1990 Batch	1990 Batch Fund	50,067.00	INR
60	Mayank Jain	1990 Batch	1990 Batch Fund	250,000.00	INR
61	Smita Sathe	1990 Batch	1990 Batch Fund	24,982.30	INR
62	K V P Kiran Kumar	1990 Batch	1990 Batch Fund	24,675.50	INR
63	Raju Krishnamurthi	1990 Batch	1990 Batch Fund	24,675.50	INR
64	Shankar Madhuswamy	1990 Batch	1990 Batch Fund	25,000.00	INR
65	Balaji Krishnamurthy	1990 Batch	1990 Batch Fund	49,351.00	INR
66	Arvind Purushothaman	1990 Batch	1990 Batch Fund	24,675.50	INR
67	Rajeshwari Balasubramanian Arora	1990 Batch	1990 Batch Fund	50,000.00	INR
68	Paul Sathya Chelladurai	1990 Batch	1990 Batch Fund	25,000.00	INR
69	Balaji Dakshi	1990 Batch	1990 Batch Fund	25,000.00	INR
70	Kartik Sriram	1990 Batch	1990 Batch Fund	100,000.00	INR
71	Abhisarika Das	1990 Batch	1990 Batch Fund	20,000.00	INR
72	Kalpana Nayak Dumavath	1990 Batch	1990 Batch Fund	49,995.28	INR
73	Sanjay Malhotra	1990 Batch	1990 Batch Fund	50,000.00	INR
74	Srikant Reddy Modugula	1990 Batch	1990 Batch Fund	75,000.00	INR
75	Munjal Chheda	1990 Batch	1990 Batch Fund	15,000.00	INR
76	Ashu Gupta	1990 Batch	1990 Batch Fund	10,982.30	INR
77	Satish Dubagunta	1990 Batch	1990 Batch Fund	50,000.00	INR
78	Sivaramakrishna Kuditipudi	1990 Batch	1990 Batch Fund	50,000.00	INR
79	Suresh Rajagopalan	1990 Batch	1990 Batch Fund	10,000.00	INR
80	Monica Bindra Bindra	1990 Batch	1990 Batch Fund	14,805.00	INR
81	Kalyanasundaram Muthukrishnan	1990 Batch	1990 Batch Fund	50,000.00	INR
82	Sanjay Dileep Nath	1990 Batch	1990 Batch Fund	199,982.30	INR
83	Gautam Garg	1993 Batch	1993 Batch Fund	35,000.00	INR
84	Praful Mattoo	1993 Batch	1993 Batch Fund	25,000.00	INR
85	Ravi Vora	1993 Batch	1993 Batch Fund	500,000.00	INR
86	P. Leeta Venkateswara Rao	1993 Batch	1993 Batch Fund	33,303.00	INR
87	Viswadarini Kumar	1993 Batch	1993 Batch Fund	700,000.00	INR
88	Muralidhar Nittala	1993 Batch	1993 Batch Fund	100,000.00	INR
89	Ramesh Thimmana	1993 Batch	1993 Batch Fund	100,001.00	INR
90	G. Gopi Krishna	1993 Batch	1993 Batch Fund	875,000.00	INR
91	Sathish Govindarajan	1993 Batch	1993 Batch Fund	100,000.00	INR
92	Srinivasarao Dasari	1993 Batch	1993 Batch Fund	100,000.00	INR
93	Shweta Gaur	1993 Batch	1993 Batch Fund	70,000.00	INR
94	M Sreenivasa Reddy	1993 Batch	1993 Batch Fund	14,500,000.00	INR
95	Victor Prasad Isaac Crowther	1993 Batch	1993 Batch Fund	99,909.00	INR
96	Saisatish Srinivas Vedam	1993 Batch	1993 Batch Fund	50,000.00	INR

S.No	Name	Batch	Towards	Amount	INR/USD
97	Saisatish Srinivas Vedam	1993 Batch	1993 Batch Fund	50,000.00	INR
98	Venkata Ramana Chowdary Boddu	1993 Batch	1993 Batch Fund	875,000.00	INR
99	Kaarthik S.	1993 Batch	1993 Batch Fund	10,000.00	INR
100	Rohit Pathak	1993 Batch	1993 Batch Fund	300,000.00	INR
101	Bhaskar Viswanathan	1993 Batch	1993 Batch Fund	50,000.00	INR
102	Karthik Ramani	1993 Batch	1993 Batch Fund	70,000.00	INR
103	Aravind Sridharan	1993 Batch	1993 Batch Fund	50,000.00	INR
104	Anupama V. Sarma	1993 Batch	1993 Batch Fund	50,000.00	INR
105	Rishikesh Nandikesan	1993 Batch	1993 Batch Fund	100,000.00	INR
106	Dexter Cutinha	1993 Batch	1993 Batch Fund	2,000.00	INR
107	Karthik Krishna	1993 Batch	1993 Batch Fund	1,000,000.00	INR
108	Karthik Krishna	1993 Batch	1993 Batch Fund	350,000.00	INR
109	Vivek Pandita	1993 Batch	1993 Batch Fund	700,000.00	INR
110	Harish Shivram	1993 Batch	1993 Batch Fund	100,000.00	INR
111	Ashwin Umathay	1993 Batch	1993 Batch Fund	33,303.10	INR
112	Gopal Ramasubramaniam	1993 Batch	1993 Batch Fund	36,000.00	INR
113	Prakash Rajagopalan	1993 Batch	1993 Batch Fund	10,000.00	INR
114	Indrajit Anne	1993 Batch	1993 Batch Fund	75,000.00	INR
115	Kumaraguru Jagannathan	1993 Batch	1993 Batch Fund	100,000.00	INR
116	Ashish Mehta	1993 Batch	1993 Batch Fund	100,000.00	INR
117	Sangeetha	1994 batch	1994 Batch	25,000.00	INR
118	Swaraj Thampi	1994 batch	1994 Batch Fund	143,000.00	INR
119	Rajesh Butta	1986 Batch	86 Batch	10,000.00	INR
120	89 Batch Group Fund	1989 Batch	89 Batch	101,399.00	INR
121	89 Batch Group Fund	1989 Batch	89 Batch	396,090.00	INR
122	93 Batch Lagacy Fund	1993 Batch	93 batch	1,922,784.00	INR
123	Mathew Cherian	1980 Batch	Alumni Guest House	500.00	INR
124	Suresh Kumar Khurna	1963-68 Batch	Alumni Guest House	200,000.00	INR
125	Kanak Mal Madrecha	1974-79 batch	Alumni Guest House	500,000.00	INR
126	T.V. Srinivasan	1963-68 Batch	Alumni Guest House	25,000.00	INR
127	BITSAA Delhi Chapter		Alumni Guest House	1,100,000.00	INR
128	Mrs Manjula Talreja And Mr Prem Talreja	1970-75 Batch	Alumni Guest House	336,856.00	INR
129	Sachin Arya	-	BDG '2019	100.00	INR
130	Arya Kumar	-	BDG '2019	501.00	INR
131	Praneeth	-	BDG '2019	10.00	INR
132	Apeksha Jain	-	BDG '2019	2,000.00	INR
133	Sachin Arya	-	BDG '2019	10.00	INR
134	Pandillapalli Bhargav	-	BDG '2019	2,019.00	INR
135	Praneeth	-	BDG '2019	3,500.00	INR
136	K Vijay Rama Pramod	-	BDG '2019	1,000.00	INR
137	Akshay Mishra	-	BDG '2019	2,500.00	INR
138	Arpit Kishore	-	BDG '2019	2,000.00	INR
139	Bhargav Janjam	-	BDG '2019	3,000.00	INR
140	Keshav Dhavile	-	BDG '2019	700.00	INR
141	Satyananda Sahu	-	BDG '2019	3,000.00	INR
142	Sai Krishna Ghantasala	-	BDG '2019	2,000.00	INR
143	Mohit	-	BDG '2019	2,000.00	INR
144	Harish	-	BDG '2019	100.00	INR
145	Ashok Agarwal	-	BDG '2019	25,000.00	INR
146	Pradeep Sethi	-	BDG '2019	10.00	INR
147	S Arun Goutham	-	BDG '2019	500.00	INR
148	Mayank Gupta	-	BDG '2019	5,100.00	INR
149	Mohit Tater	-	BDG '2019	2,100.00	INR
150	Azhagappan Sivaraman	-	BDG '2019	2,000.00	INR
151	Mukut Behari Lal Bhargava	-	BDG '2019	25,000.00	INR
152	Roehit Reddy Kamana	-	BDG '2019	1,000.00	INR
153	Sameer Kumar Reddy Gurijala	-	BDG '2019	5,000.00	INR

S.No	Name	Batch	Towards	Amount	INR/USD
154	Rohit Goyal	-	BDG '2019	5,000.00	INR
155	Vijayakumar R Tawker	-	BDG '2019	2,500.00	INR
156	Aditya Mukherjee	-	BDG '2019	5,000.00	INR
157	Pradeep Sethi	-	BDG '2019	5,000.00	INR
158	Amit Mutreja	-	BDG '2019	1,000.00	INR
159	Mridula Sankhyayan	-	BDG '2019	5,000.00	INR
160	Suresh Kabra	-	BDG '2019	10,000.00	INR
161	Veena Deshpande	-	BDG '2019	5,000.00	INR
162	Siddharth Gupta	-	BDG '2019	2,000.00	INR
163	Kodam Saketh	-	BDG '2019	1,000.00	INR
164	Jagdish Kumar Saraogi	-	BDG '2019	10,800.00	INR
165	Suyash Patel	-	BDG '2019	500.00	INR
166	Anand Ramachandran	-	BDG '2019	5,000.00	INR
167	S G Narayanamurthy	-	BDG '2019	10,000.00	INR
168	Ujwala Kovvuri	-	BDG '2019	500.00	INR
169	Harinath	-	BDG '2019	500.00	INR
170	Gaurav Sharma	-	BDG '2019	200.00	INR
171	Ganesh Raj Rathinavel	-	BDG '2019	2,500.00	INR
172	Srikant Reddy Modugula	-	BDG '2019	1,116.00	INR
173	Sreenivasan Seshasayee	-	BDG '2019	5,000.00	INR
174	Aditi Pany	-	BDG '2019	25,000.00	INR
175	Sathiyaseelan Karuppsamy	-	BDG '2019	1,000.00	INR
176	Jagdish Kumar Saraogi	-	BDG '2019	10,800.00	INR
177	Vishal Sharma	-	BDG '2019	10,000.00	INR
178	Kamal Kant	-	BDG '2019	5,000.00	INR
179	Vineeth Maramreddy	-	BDG '2019	1,000.00	INR
180	Ashok Kumar Agarwal	-	BDG '2019	10,000.00	INR
181	Ramakrishna Chilaka	-	BDG '2019	2,000.00	INR
182	Ajay Rungta	-	BDG '2019	1,000.00	INR
183	Sashi Krishnan	-	BDG '2019	5,000.00	INR
184	Chinmay Deshpande	-	BDG '2019	1,000.00	INR
185	Abhilash Saksena	-	BDG '2019	2,100.00	INR
186	Chandrashekhar Narayan Bhawe	-	BDG '2019	10,000.00	INR
187	Sivanaga Prasad Savarala	-	BDG '2019	5,000.00	INR
188	Kavya Shilpa Madireddi	-	BDG '2019	5,000.00	INR
189	Sukhnandan Vohra	-	BDG '2019	10,000.00	INR
190	Shanker Raman Nagesh	-	BDG '2019	10,000.00	INR
191	Yatendra Raj Mehta	-	BDG '2019	1,001.00	INR
192	Vineet Agarwal	-	BDG '2019	2,000.00	INR
193	Sreenivasan Seshasayee	-	BDG '2019	5,000.00	INR
194	Amey Agrawal	-	BDG '2019	7,140.00	INR
195	Anil Kumar Y V	-	BDG '2019	1,000.00	INR
196	Srinivasa Raghavan	-	BDG '2019	1,000.00	INR
197	Nagaraja Srivatsan	-	BDG '2019	100,000.00	INR
198	Rajat Jain	-	BDG '2019	21,000.00	INR
199	Neha Vij	-	BDG '2019	1,000.00	INR
200	Narayanan Rajkumar	-	BDG '2019	10,000.00	INR
201	Prannoy Sarkar	-	BDG '2019	1,000.00	INR
202	Abhinay Peddisetty	-	BDG '2019	5,000.00	INR
203	Pradyumna Kodali	-	BDG '2019	500.00	INR
204	Nitin Khandelwal	-	BDG '2019	1,000.00	INR
205	Kartik Gupta	-	BDG '2019	200.00	INR
206	T Easwar Sai Rohit	-	BDG '2019	1,000.00	INR
207	Ramabhadran S Thirumalai	-	BDG '2019	5,000.00	INR
208	Sandeep Joshi	-	BDG '2019	1,100.00	INR
209	Arjun Kuswhaha	-	BDG '2019	3,500.00	INR
210	Chiluka Vinay Kumar	-	BDG '2019	1,001.00	INR
211	Ankur Arvind	-	BDG '2019	5,000.00	INR

S.No	Name	Batch	Towards	Amount	INR/USD
212	Vartika Sharma	-	BDG '2019	2,000.00	INR
213	Rajan Bhuyan	-	BDG '2019	500.00	INR
214	Ravishankar Srinivasan	-	BDG '2019	5,000.00	INR
215	Ganesh Chandar Ramamoorthy	-	BDG '2019	10,000.00	INR
216	T V Kamalakkannan	-	BDG '2019	20,000.00	INR
217	Desugari Devanand	-	BDG '2019	10,000.00	INR
218	Viswanatha Krishnan G S	-	BDG '2019	5,000.00	INR
219	Dolly Sapra	-	BDG '2019	5,000.00	INR
220	Murugavel	-	BDG '2019	100.00	INR
221	Padma Kumar	-	BDG '2019	1,001.00	INR
222	Manisha Reddy	-	BDG '2019	2,000.00	INR
223	Prem Khurana	-	BDG '2019	2,000.00	INR
224	Arun Panigrahi	-	BDG '2019	10,000.00	INR
225	BITSAA International	-	BITSAA Scholarship	233,337.00	INR
226	BITSAA International	-	BITSAA Scholarship (S K Agarwal Scholarship, S S Seshadri Memorial, Pendyala Vamsi Krishna Memorial, Mahendra Ram Dalmia Memorial, Divya Dalipan Scholarship, Bhushan Bhatia scholarship & BITSian Day scholarships)	531,351.00	INR
227	BITSAA International	-	BITSAA Scholarship (Bhushan Bhatia, Vamsi Krishna and S.S. Seshadari)	227,747.00	INR
228	BITSAA International	-	BITSAA Scholarship (BITS'86 Batch Scholarship, BITSIAN Day, Vamsi Krishna, Mahendra Ram Dalmia Memorial, S K Agarwal Scholarship, S S Seshadari, Divya Dalipan sholarships, Mantra Awards for 4 Campuses each \$400 & Graduation Application Scholarships 1500\$.	916,600.00	INR
229	BITSAA International	-	BITSAA Scholarship (S.K. Agarwal, M R Dalmia Memorial, PENDYALA VAMSI KRISHNA Scholarship, S.S. Seshadari and Divya dileepan)	396,600.00	INR
230	B.R. Natarajan	1974-79 batch	BITSian startup AR based Elixir Systems	20,000.00	INR
231	Savaram Lakshmi Sita	2010 Batch	Bloomberg Finance Lab	1,974.04	INR
232	Anurag Gumber	2007 Batch	Bloomberg Finance Lab	19,740.40	INR
233	Sanjay Rajvanshi		Bloomberg Finance Lab	50,000.00	INR
234	Sampada Mahajan	2017 Batch	Bring Hemanand home	2,000.00	INR
235	Gopi Krishna	2017 Batch	Bring Hemanand home	500.00	INR
236	Abhay Shrangraj	2017 Batch	Bring Hemanand home	500.00	INR
237	Subir Kumar Padhee	2017 Batch	Bring Hemanand home	1,000.00	INR
238	an*	2017 Batch	Bring Hemanand home	1,000.00	INR
239	Veeturi Uma Varun	2017 Batch	Bring Hemanand home	2,000.00	INR
240	Anu Gupta	2017 Batch	Bring Hemanand home	4,000.00	INR
241	Dinesh Gelda	1975 Batch	Bring Hemanand home	5,000.00	INR
242	Vikash Ramesh Patil	-	Bring Hemanand home	6,300.00	INR
243	Amit Garg	-	C.B. Das Award	10,000.00	INR
244	Prashant Palakurthi	1978 Batch	Centre for Artificial Intelligence Research	17,021,370.00	INR
245	CMS Computer Ltd.	-	CMS Computer Scholarship	254,000.00	INR
246	Chinmay Bhattar	2009 batch	General Fund	40,000.00	INR
247	Vijay Mehra	1978-82 batch	General Fund	50,000.00	INR
248	Vijay Mehra	1978-82 batch	General Fund	50,000.00	INR
249	Aditya	-	General Fund	100.00	INR
250	Xyz	2003 Batch	General Fund	5,000.00	INR
251	K.E. Ayyar	-	K.E. Ayyar Scholarship	200,000.00	INR
252	BITSAA International	-	Oasis Leuna Herkawat Award	5,210.00	INR
253	Mitutoyo South Asia Private Ltd.	CSR Fund	PhD Scholar and Equipment	2,100,000.00	INR
254	Rakesh Chandra	-	Rakesh Chandra Sholarship	76,250.00	INR
255	Cms Computers Ltd.	-	Ramesh D Grover Memorial Computers Scholarships	254,400.00	INR

S.No	Name	Batch	Towards	Amount	INR/USD
256	Karthik Krishna	1993 Batch	S. Venkateswaran Excellence Award	100,000.00	INR
257	Satish Kumar Goel	1980 Batch	Scholarship	1,000,000.00	INR
258	Bits Pilani Alumni Association India Trust	-	Srikant Visweswariah Analog Design Contest	40,000.00	INR
259	Tenmiles Technology	-	Student Enrichment Fund	23,760.00	INR
260	BITSAA International	-	Travel grant	69,847.46	INR
261	panand2908@gmail.com	-	BITS '93 Fund	140.00	USD
262	pvattiyam@apple.com	-	BITS '93 Fund	2,890.00	USD
263	vsampath@gmail.com	-	BITS '93 Fund	1,000.00	USD
264	msundaram.98@gmail.com	-	BITS '93 Fund	5,000.00	USD
265	vsampath@gmail.com	-	BITS '93 Fund	1,000.00	USD
266	meena.r@rocketmail.com	-	BITS '93 Fund	5,000.00	USD
267	sarat@icloud.com	-	BITS '93 Fund	250.00	USD
268	psr188@gmail.com	-	BITS '93 Fund	1,000.00	USD
269	ravi.subramanian@gmail.com	-	BITS '93 Fund	1,000.00	USD
270	vsampath@gmail.com	-	BITS '93 Fund	1,000.00	USD
271	vsampath@gmail.com	-	BITS '93 Fund	1,000.00	USD
272	psr188@gmail.com	-	BITS '93 Fund	930.00	USD
273	pram310@yahoo.com	-	BITS '93 Fund	250.00	USD
274	amanshaikh75@gmail.com	-	BITS '93 Fund	100.00	USD
275	ramesh.allurireddy@gmail.com	-	BITS '93 Fund	100.00	USD
276	rajivbalachandran@gmail.com	-	BITS '93 Fund	500.00	USD
277	Anand PRASANAMOORTHY	-	BITS '93 Fund	140.00	USD
278	BHARATH KUMAR PERAMUR SAMPATH	-	BITS '93 Fund	100.00	USD
279	Priya Vattiyam	-	BITS '93 Fund	2,890.00	USD
280	Srividya Ramkumar	-	BITS '93 Fund	1,000.00	USD
281	Vijay Sampath	-	BITS '93 Fund	1,000.00	USD
282	Bhaskar Viswanathan	-	BITS '93 Fund	707.00	USD
283	Mani Sundaram	-	BITS '93 Fund	5,000.00	USD
284	Vijay Sampath	-	BITS '93 Fund	1,000.00	USD
285	Swati Bhatia	-	BITS '93 Fund	5,000.00	USD
286	Vijay Rentala	-	BITS '93 Fund	5,000.00	USD
287	Govind Dharwada	-	BITS '93 Fund	4,700.00	USD
288	Bala Natarajan	-	BITS '93 Fund	200.00	USD
289	Srinivasan Ramasubramanian	-	BITS '93 Fund	5,000.00	USD
290	Nipun Nair	-	BITS '93 Fund	1,500.00	USD
291	RAMNARAYAN VISWANATHAN	-	BITS '93 Fund	500.00	USD
292	Meena Ramakrishnan	-	BITS '93 Fund	5,000.00	USD
293	Srinivasa Raju Jampana	-	BITS '93 Fund	5,000.00	USD
294	Krishna Kumar	-	BITS '93 Fund	930.00	USD
295	Vinod Narayanan	-	BITS '93 Fund	250.00	USD
296	Srinivas Nukala	-	BITS '93 Fund	1,000.00	USD
297	Sarat Chandra Prasad Kongara	-	BITS '93 Fund	250.00	USD
298	Subramanian Sethuraman	-	BITS '93 Fund	500.00	USD
299	Sridhar Kodali	-	BITS '93 Fund	333.03	USD
300	Gayathri Ganesh	-	BITS '93 Fund	1,000.00	USD
301	Ramasubramanian Sundararajan	-	BITS '93 Fund	150.00	USD
302	Ranjith Melarkode	-	BITS '93 Fund	3,300.00	USD
303	Prashanth Rao	-	BITS '93 Fund	1,000.00	USD
304	divya gopalan	-	BITS '93 Fund	500.00	USD
305	Dexter Cutinha	-	BITS '93 Fund	100.00	USD
306	Anshuman Kapoor	-	BITS '93 Fund	100.00	USD
307	Siva Natarajan	-	BITS '93 Fund	333.00	USD
308	Nigamanth Sridhar	-	BITS '93 Fund	5,000.00	USD
309	Gomathy Sundaresan	-	BITS '93 Fund	2,000.00	USD
310	Mahesh A Kulkarni	-	BITS '93 Fund	100.00	USD
311	Subhash Pochareddy	-	BITS '93 Fund	1,000.00	USD
312	Ravi Subramanian	-	BITS '93 Fund	1,000.00	USD

S.No	Name	Batch	Towards	Amount	INR/ USD
313	Abdul kader Nazimudeen	-	BITS '93 Fund	500.00	USD
314	Sumit Mohanty	-	BITS '93 Fund	2,000.00	USD
315	Neel Broker	-	BITS '93 Fund	1,000.00	USD
316	Srivatsan Parthasarathy	-	BITS '93 Fund	125.00	USD
317	Kripa Venkatachalam	-	BITS '93 Fund	1,500.00	USD
318	Vijay Sampath	-	BITS '93 Fund	1,000.00	USD
319	Radha Thothadri	-	BITS '93 Fund	1,001.00	USD
320	Mukul Chawla	-	BITS '93 Fund	20,000.00	USD
321	Vijay Sampath	-	BITS '93 Fund	1,000.00	USD
322	Madhusudhan Munagala	-	BITS '93 Fund	5,000.00	USD
323	Subhash Pochareddy	-	BITS '93 Fund	930.00	USD
324	Abirami Mahadevan	-	BITS '93 Fund	500.00	USD
325	Priya Ramachandran	-	BITS '93 Fund	250.00	USD
326	Srivatsa Desikamani	-	BITS '93 Fund	2,500.00	USD
327	Aman Shaikh	-	BITS '93 Fund	100.00	USD
328	Rajiv Gupta	-	BITS '93 Fund	500.00	USD
329	Sharmila Ravula	-	BITS '93 Fund	1,000.00	USD
330	Sayee Anakk	-	BITS '93 Fund	1,000.00	USD
331	Deepanjan Mitra	-	BITS '93 Fund	50.00	USD
332	Seema Sushil Kumar	-	BITS '93 Fund	500.00	USD
333	Harish Srivatsa Venkatesan	-	BITS '93 Fund	1,000.00	USD
334	Sunil Bakhru	-	BITS '93 Fund	100.00	USD
335	Mukund Ramachandran	-	BITS '93 Fund	250.00	USD
336	Shalika Pargal	-	BITS '93 Fund	1,000.00	USD
337	Alluri Reddy Ramesh	-	BITS '93 Fund	100.00	USD
338	Srikanth Govindaswamy	-	BITS '93 Fund	1,000.00	USD
339	Viji Ramachandran	-	BITS '93 Fund	500.00	USD
340	Goutham Kurra	-	BITS '93 Fund	10,000.00	USD
341	Ramu Kandula Mckinney	-	BITS '93 Fund	3,000.00	USD
342	Haripriya Kankanala	-	BITS '93 Fund	300.00	USD
343	Deepak Tyagi	-	BITS '93 Fund	2,000.00	USD
344	Gayathri Ganesh	-	BITS '93 Fund	2,000.00	USD
345	Mayur Deshpande	-	BITS '93 Fund	5,910.00	USD
346	Balaji Dhamotharan	-	BITS '93 Fund	1,500.00	USD
347	Karthik Sivaprakasam	-	BITS '93 Fund	1,001.00	USD
348	Srividya Ramkumar	-	BITS '93 Fund	750.00	USD
349	Gomathy Sundaresan	-	BITS '93 Fund	500.00	USD

*Alumni Contributions in dollar were received by BITSAA International and net amount after taking care of there administrative expenses was received by BITS Pilani

RESEARCH PROJECT GRANTS

Pilani Campus

Ongoing Project:

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR)
1	Synthesis of novel N-fused polycyclic compounds through transition metal catalyzed cascade/C–H functionalization reactions	Chemistry	Dr. Anil kumar	-	SERB	32,46,000
2	Synthesis and tubulin inhibition activity studies of novel indolyl heterocycles	Chemistry	Dr. Dalip Kumar	-	CSIR	22,36,000
3	Screening Decoration of Co-catalyst on the Ultrathin 2D Sheets of Metal Chalcogenides and their application in Photo electrochemical Water Splitting	Chemistry	Dr. Mrinmoyee Basu	-	DST-INSPIRE	35,00,000
4	"Probing the Nature of Intermolecular X–H...Se (X = O and N) Hydrogen Bonding Interactions using Matrix Isolation Infrared Spectroscopy"	Chemistry	Dr. Shamik Chakraborty	--	SERB	73,55,000
5	Asymmetric synthesis of [2.2.2] azabicyclo-isoquinuclidine derivatives: Towards the synthesis of related alkaloids	Chemistry	Dr. Indresh Kumar	-	SERB	43,30,000
6	Studying Catalytic carbonylation of polyols-Sustainable Route to Carboxylic Acids from Renewable Platforms	Chemistry	Dr. Bibhas Ranjan Sarkar	-	SERB	32,30,000
7	Synthetic Probes for Staudinger Ligation: Synthesis and Application of Phosphane Based templates	Chemistry	Dr. Kiran Bajaj	-	DST-WOS	29,70,000
8	Synthesis of D-glucose derived glycoconjugates and their application in molecular recognition and catalysis	Chemistry	Dr. Ajay Kumar Sah	-	SERB	30,10,000
9	Financial Inclusion	Economics & Finance	Dr. Arun Kumar Vaish	-	HCL	1,80,00,000
10	Nanotechnology based pharmaceutical, nutraceuticals and cosmetics-development of platform technology	Pharmacy	Dr. Deepak Chitkara	-	Incisive Elements, USA	21,38,000
11	Peptide-decorated pH-sensitive nano-conjugate hybrid micelles for co-delivery of temozolamide and an autophagy inducer, rapamycin, for treatment of glioblastoma multiforme	Pharmacy	Dr. Deepak Chitkara	Dr. Gaikwad Anil Bhanudas	DBT	41,94,000
12	Development of nutraceutical nanoemulsion based health drink of food bioactives	Pharmacy	Dr. Anil Jindal	-	Ananta Medicare Limited	5,10,000
13	In Vivo-In Vitro study design: cardio-reno protective effect of herbal extract (Red spinach extract) in hypertensive rats: Role of NO/cGMP Pathway	Pharmacy	Dr. Rajeev Taliyan and Dr. Sunil Dubey	-	Etical Clinpharm Pvt Ltd	9,91,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
14	Exploring the synergism of PPAR-Y agonist and HDAC inhibitor for reversal of Alzheimers type of dementia and developing their brain targeted nano-carrier system for effective treatment	Pharmacy	Dr. Rajeev Taliyan	Dr. Sunil Kumar Dubey	DST-Nanomission	32,14,000
15	Evaluation of Antitumor efficacy and pharmacokinetics of polymeric nanoparticle formulation targeted to cancer stem cells	Pharmacy	Dr. Aniruddha Roy	-	SERB	32,20,000
16	Costs and remediatin of Groundwater contamination in India	Civil	Dr. Rajiv Gupta	-	University of Virginia, USA	1,00,00,000
17	Joint Indo-German Experience Lab	Mechanical	Dr. K S Sangwan	-	DAAD	3,41,00,000
18	Mathematics aided Architectural Design layouts	Mathematics	Dr. Krishnendra Shekhawat	-	SERB	15,45,000
19	Soft Computing framework based Integrated Multi Sensor Array for Water Quality Assessment: Targeting fluoride as major parameter	EEE	Dr. K.K.Gupta	Dr. R.K.Gupta	DST	38,70,000
20	Study on Electronic Transport Behaviour of Carbon nanotube based field effect transistors (CNTFETs)	EEE	Dr. Navneet Gupta	Dr. Niladri Sarkar	DRDO	20,49,000
21	Removal of Heavy metals from industrial wastewater using metallic nanoparticlaes as absorbents	Chemical	Dr. Banasri Roy	-	SERB	19,00,000
22	Development of bioinoculant based formulation for enhanced phytoremediation of poly chorinated biphenyl (PCB) contaminated soil	Biological Sciences	Dr. Monika Sandhu	-	DST-WOS	20,80,000
23	Production and use of indigenous local strains of microbial pesticides through trainings, demonstrations and installation of cost effective production units for the farmers of Rajasthan	Biological Sciences	Dr. Jola Dubey	-	DST-WOS	26,33,000
24	Studies on Quarkonium suppression in Asymmetric Nuclear Collision at LHC	Physics	Dr. Madhukar Mishra	-	SERB	15,85,000
25	"Investigating Dynamical and Topological Properties of Fioquet Systems: A Comparative study of perturbative Schemes	Physics	Dr. Jayendra Bandyopadhyay	Dr. Tapomoy Guha Sarkar	SERB	16,22,000
26	"Generation and Characterization of Attosecond Pulses with Specific Polarization and its Applications"	Physics	Dr. Amol Holkundkar	Dr. Jayendra Bandyopadhyay	SERB	16,54,000
27	Electro-optical response of Nematic Liquid Crystals doped with nanorods	Physics	Dr. ManjulaDevi V.	-	SERB	39,20,000
28	"Theoretical Study of Electron impact double ionization of atoms and molecules"	Physics	Dr. Rakesh Choubisa	-	SERB	20,44,000
29	Quality by design (QbD) based suspension product development and process optimization	Pharmacy	Dr. Sunil Kumar Dubey and Dr. Gautam Singhvi	-	SLYBACK Pharma	4,00,000
30	Activity targeted nano-formulations for co-delivery of a	Pharmacy	Dr. Deepak Chitkara	-	DST-Rajasthan	11,14,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
	taxane and antioxidant molecule, alpha acid, for treating breast cancer					
31	Development of e-waste management strategies for selected e-products in Rajasthan	Mechanical	Dr. M S Dasgupta	Dr. Srikanta Routroy	DST-Rajasthan	7,54,000
32	A Benchmarking analysis public transport sector of Rajasthan	Mathematics	Dr. Shivi Agarwal	Dr. Trilok Mathur	DST-Rajasthan	5,29,000
33	cRGD decorated lipo-polymeric nanoplexes of CRISPR/Cas9 ribonucleoprotein (RNP) for the management of retinal dystrophic conditions.	Pharmacy	Dr. Deepak Chitkara	Dr. Anupama Mittal	DBT-Ophthalmic	50,04,000
34	Develop of novel anti-leishmanial analogues loaded with novel nano-formulations	Pharmacy	Dr. S Murugesan	Dr. KVG Chandrashekhar	DBT-Indo Spain	60,00,000
35	Development and evaluation of lipid based nanoparticles of Quinapyramine and Isometamidium salt for treatment of trypanosomiasis in camels	Pharmacy	Dr. Anil Jindal	Dr. Paul Atish Tulshiram	DBT	29,04,000
36	Gel-based composite formulation containing asiaticoside and neurotensin for rapid healin of diabetic wounds	Pharmacy	Dr. Anupama Mittal	-	ICMR	14,83,000
37	Re-value: Innovative technologies for improving resource utilization in the Indo-European fish value chains	Mechanical	Dr. Souvik Bhattacharya - PI	Dr. Srikanta Routroy and Dr. M. S. Dasgupta	DBT- INNO INDIGO	62,00,000
38	Umbilical cord mesenchymal stem cells derived exosomes as biogenic nanocarriers of miRNA and chemotherapeutic drug for reversal of chemoresistance in breast cancer	Pharmacy	Dr. Anupama Mittal	-	DST-Nanomission	40,57,000
39	Preliminary investigation, characterization and stability analysis of micelles formulation	Pharmacy	Dr. Sunil Kumar Dubey and Dr. Gautam Singhvi	-	Enaltec Labs Pvt. Ltd	1,46,000
40	Design and Characterization of Nanoparticle based drug delivery systems of Anticancer drug	Pharmacy	Dr. M M Pandey	-	Crenza Pharmaceutical Pvt Ltd Hyderabad	8,00,000
41	Epistemology Revisited: Postmodern Discourse alternative forms of cognition and interdisciplinary of knowledge	Humanities & Social Sciences	Dr. Anupam Yadav	-	ICPR	2,00,000
42	Novel ophthalmic formulation	Pharmacy	Dr. R N Saha and Dr. Gautam Singhvi	-	SlyBack Pharma Hyderabad	14,00,000
43	Synthesis of metal complexes using D-glucose derived ligands and application of produced molecules in catalysis	Chemistry	Dr. Ajay Kumar Sah	-	CSIR	11,32,000
44	Photo degradation of toxic organic dyes using dye-sensitized semiconductor photocatalyst	Chemistry	Dr. Shamik Chakraborty	-	CSIR	8,07,000
45	Role of Endocrine Disrupting chemicals (ECDs) in Maternal and Child Health	Pharmacy	Dr. Sunil Kumar Dubey	Dr. Rajee Taliyan	ICMR-Ad-Hoc Scheme	9,00,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR)
46	Understanding hyperglycemia induced alterations in non-coding RNA expression pattern and post-translation histone protein modifications contributing to drug resistance and progression of pancreatic cancer	Biological Sciences	Dr. Rajdeep Chowdhury	Dr. Gaikwad Anil Bhanudas	DST-SERB	40,32,000
47	Influence of English Teacher's Efficacy, competence and Motivation on their Instructional Strategy: A Study of Secondary Schools Teachers in Jhunjhunu, Rajasthan	HSS	Dr. Devika	Dr. Rajni Singh	NCERT	6,80,000
48	Development and preclinical evaluation of nanostructured lipid particles of bleomycin sulphate for targeting Brain cancer	Pharmacy	Dr. Sunil Kumar Dubey and Dr. Gautam Singhvi	-	Oniosome Healthcare Private Ltd.	12,75,000
49	Efficacy & Effectiveness of Information, Education and Communication (IEC) Activities for Health Awareness and Promotion among Women in Rajasthan: Towards a HOPE Approach	HSS	Dr. Gajendra Chauhan	Dr. Rajnessh Choubisa - Co-PI, Dr. Tanu Shukla- Co-PI Dr. Sailaja Nandigama - Co-PI, Dr. R.P.Pareek- Co-PI	ICMR-ICSSR	26,62,000
50	Development & Validation of a Prototype of a Web/Mobile App Based Positive Psychological Intervention for Adolescents	HSS	Dr. Rajneesh Choubisa	Dr. Gajendra Singh Chouhan- Co-PI Dr. Tanu Shukla- Co-PI	ICMR-ICSSR	17,89,000
51	Measuring the Impact of Socially Responsible Supply Chains and Development of Framework for Implementing Socially Responsible Supply Chains	Management	Dr. Satyendra Kumar Sharma	Dr. Saurabh Chaddha-	ICSSR	5,50,000
52	Development of Fault diagnosis scheme for Aero-bearing with multiple localized defects using non-linear mathematical modeling and experimental analysis	Mechanical	Dr. Arun Kumar Jalan	Dr. Sachin Belgamwar	DRDO	9,98,000
53	Design and development of a power assistive hybrid e-trike (PAH e-Trike) for differently abled person in rural and urban regions of India	Mechanical	Dr. Sachin Belgamwar In collaboration with CSIR CEERI Pilani	Dr. Jitendra Rathore	DST-SEED	Total Project Cost 67.76 (BITS Share 30.63)
54	Development of a Dielectric Resonator based displacement sensor	EEE	Dr. Praveen Kumar AV	-	SERB	20,75,000
55	Substrate supported transition metal doped alkaline earth clusters as hydrogen storage materials and their applications in hydrogen fuel cell	Physics	Dr. Debashish Bandyopadhyay	-	DST-SERB	20,57,000
56	Heteroaromatic-Annulated Porphyrins: Design, Synthesis and Study of optoelectronic properties towards the development of photosensitizers	Chemistry	Dr. Dalip Kumar	-	SERB	24,82,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
57	Analysis of mitochondrial dynamicity post drug exposure in human glioblastoma cells and understanding its correlation with drug resistance	Biological Sciences	Dr. Sudeshna Mukherjee	-	SERB	27,89,000
58	Enhancement of oral bioavailability of selected drugs	Pharmacy	Dr. Aniruddha Roy & Dr. Gautam Singhvi	-	INTAS Pharmaceuticals LTD., Ahmedabad	45,00,000
59	Statistical Mechanics of biopolymers in confined geometry	Physics	Dr. Navin Singh	-	SERB	28,42,000
60	Waste Management of Generated Sludge from Indian Steel and Steel related plants: A sustainable Business Model	Mechanical	Dr. Srikanta Routroy	Dr. Anupam Singhal and Dr. Dipendu Bhunia	Ministry of Steel	30,49,000
61	To investigate the mechanism of CRISPR-Cas regulated biofilm formation in salmonella enterica serovar Typhimurium	Biological Sciences	Dr. Sandhya Amol Marathe	-	SERB	43,71,000
62	Cyclic RGD modified lipopolymeric micelles for targeted delivery of tamoxifen in ER+Breast cancer	Pharmacy	Dr. Anupama Mittal	-	DST Rajasthan	12,54,000
63	Investigating the Role of Aryl Hydrocarbon Receptors in medicating the Anti-Cancer Properties associated to camel milk	Biological Sciences	Dr Uma Dubey	-	DST-Rajasthan	7,43,000
64	Design of Health care supply chain for enhancing availability and reducing wastage of generic medicines for rural areas in Rajasthan	Mechanical	Dr. Srikanta Routroy	Dr. Sunil Kumar Dubey	DST Rajasthan	5,88,000
65	Development of a standardized formulation of Trigonella foenum-graecum seeds for preventing of delaying the development of Type-2 diabetes in subjects with Pre-diabetes	Pharmacy	Dr. Sunil Kumar Dubey	-	ICMR	31,00,000
66	Pharmacokinetic and toxicity study of designed formulation	Pharmacy	Dr. Gautam singhvi and Dr. Sunil kumar Dubey	-	Crenza Pharmaceutical Ltd	3,50,000
67	Design and Implementation of content based Recommender System for answering web based user queries	CSIS	Dr. Yashvardhan Sharma	-	DST-ICPS	16.57
68	EXAFS Investigations on ion conducting polymer nanocomposites for conductivity structure correlation	Physics	Dr. Anshuman Dalvi	-	UGC-DAE	4,38,000
69	Design exploration and performance analysis of RF-MEMS SPST and SPDT switches	EEE	Dr. Mahesh Angira	-	BITS-ACRG	8,70,000
70	Investigate role of CRISPR-cas system in pathogenesis of salmonella enterica serovar typhimurium	Biological Sciences	Dr. Sandhya Amol Marathe	-	BITS-ACRG	7,50,000
71	Understanding the role of long non coding RNA in glomerular endothelial cell dysfunction during diabetic nephropathy	Biological Sciences	Dr. Syamantak Majumder	-	BITS-ACRG	8,50,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
72	Exploiting background information for efficient coordination of multi-robot systems dispatched for service delivery in an indoor environment	CSIS	Dr. Avinash Gautam	-	BITS-ACRG	8,00,000
73	Experimental studies on mechanics of micromechanical structures and cells	Mechanical Engg	Venkatesh Kadbur Prabhakar Rao	-	BITS-ACRG	8,20,000

Sanctioned Projects:

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
1	Mobile app for assisting Indian farmers in improving yield by automatic identification of plant diseases (Rice and tomato)	CSIS	Dr. Sunderasan Raman		DST--SEED	17,73,000
2	The impact of formulation variables and processing methods for solubility enhancement of poorly soluble model drug using Affinisol HPMCAS	Pharmacy	Dr. R. N. Saha and Dr. Sunil Kumar Dubey	-	Colorcon Asia Pvt. Ltd	15,00,000
3	Design and Evaluation of Stable Oral Suspension	Pharmacy	Dr. R. N. Saha and Dr. Sunil Kumar Dubey	-	Morningside Healthcare Ltd	32,00,000
4	Development of real-time multi objective route recommender system using AI	CSIS	Dr. Kamlesh Tiwari-	Dr. Ashutosh Bhatia	MapmyIndia	7,42,000
5	Concurrent evaluation of Implementation of Nation Food Security Act in Madhya Pradesh, Rajasthan and Goa	Economics & Finance	Dr. Arun Kumar Vaish	Dr. Srikanta Routroy	Ministry of Consumer Affairs	7,92,000
6	Design & Synthesis of Mycobacterium UDG Inhibitors	Pharmacy	Dr. Sandeep Sundriyal	-	The office of principal scientific advisor, Govt. of India	10,00,000
7	Management of Distributed energy resources in smart cities: Challenges and Advanced control strategies	EEE	Dr. Hitesh Datt Mathur	Dr. Bijoy Mukherjee and Dr. Alivelu Parimi	MHRD (SPARC)	42,56,000
8	Prevention of Hazardous Field-Firing of Bagasse and Its Sustainable Utilization as a Raw Material in An Innovative Industrial Process	Chemical Engg	Dr. Srinivas Appari	Dr. Bahurudden A and Dr. Prasant K Sahu	MHRD (SPARC)	28,79,000
9	Epigenetics of Endothelial Dysfunction during cardiovascular disease	Biological Sciences	Dr. Syamantak Majumder	-	SERB (ECR)	44,98,000
10	Empirical Investigation and Analysis of Factors for Sustainable Growth of Electric Vehicles Manufacturing in India	Mechanical Engg	Dr. Abhijeet Digalwar	-	ICSSR (IMRESS)	14,70,000
11	Designing a Futuristic Learning Framework for Post Millennial Generation Students of Higher Education Institutions in India	Management	Dr. Jayashree Mahesh-	Dr. Anil Bhat	ICSSR (IMRESS)	9,34,000
12	Use of Social Media as a Driver for Innovation in Higher Education in India	Management	Dr. Nirankush Dutta	Dr. Anil Bhat	ICSSR (IMRESS)	10,50,000
13	Crime Analysis and study for safe cities with emphasis on	EEE	Dr. Anu Gutpa-	Dr. Rajiv Gupta and	ICSSR (IMRESS)	5,25,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
	women safety using technology and societal participation			Dr. Meetha V Shenoy		
14	Development of 1-D Nanomaterials based Selective Sensor System for Non-Invasive Detection of Diabetes Mellitus and Asthma by Breath Analysis Technique	EEE	Dr. Arnab Hazra-PI	Dr. Syamantak Majumder	DBT	46,57,000
15	Carbon nanomaterials for chemical sensing applications	EEE	Dr. Arnab Hazra	Dr. Navneet Gupta and Dr. Rupam Goswami	MHRD (SPARC)	46,12,000
16	A Study of Graphs on Semigroups	Mathematics	Dr. Jitendra Kumar		SERB (MATRIX)	6,60,000
17	A study of nonlinear polyharmonic boundary value problems with dependence on gradient	Mathematics	Dr. Gaurav Dwivedi	-	SERB (MATRIX)	6,60,000
18	A Parameter-uniform approximation for singularly perturbed parabolic reaction-diffusion boundary value problems	Mathematics	Dr. Devendra Kumar	-	SERB (MATRIX)	6,60,000
19	An Empirical Study on Accountability and Learning Outcomes in Public School Systems in Rajasthan	Humanities & Social Sciences	Dr. Tanu Shukla	Dr. Virendra Singh Nirban	ICSSR(IMPRESS)	10,50,000
20	Development of Improved Design and Control Techniques for Unified Power Quality Conditioner with Distributed Generation (UPQC-DG)	EEE	Dr. Hitesh Datt Mathur	-	CPRI	21,09,000
21	Resource dimensioning and management of smart and sustainable 5G small cells for rural broadband	EEE	Dr. Vinay Chamola	-	SERB (ECR)	28,34,000
22	Development of a cyber physical system based smart water grid for community usage	EEE	Dr. K K Gupta – PI Dr. Kota Soloman Raju - CSIR CEERI Pilani- PI	-	DST-ICPS	27,54,000
23	Structural Health Assessment and Rehabilitation Framework based on Cyber physical System	EEE	Dr. K K Gupta - PI Dr. Kota Soloman Raju -CSIR CEERI Pilani- PI	-	DST-ICPS	11,73,000
24	Investigation on Langmuir-Blodgett films of pristine and functionalized single walled carbon nanotubes and application	Physics	Dr. R. K. Gupta	-	SERB(CRG)	45,70,000
25	Investigation of Elastic and Inelastic Dephasing in Carbon Nanotube FET	Physics	Dr. Niladri Sarkar	Dr. Navneet Gupta	SERB (CRG)	18,24,000
26	Rod-shaped polymeric nanoparticles for targeted delivery of artemisinin-derivatives to plasmodium-infected erythrocytes for improved intravenous therapy of cerebral malaria	Pharmacy	Dr. Anil Jindal	-	SERB (ECR)	44,30,000
27	Design, Synthesis, Biological Evaluation and Molecular modelling studies of Indolyl Oxoacetamide-Quinazoline based hybrid analogs as	Pharmacy	Dr. Paul Atish Tulshiram	-	SERB (CRG)	35,05,000

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	potential pancreatic lipase inhibitors for Obesity treatment					
28	UV-Guided study of Blue straggler stars in open clusters and galactic fields	Physics	Dr. Kaushar Vaidya	-	ISRO	6,28,000
29	Development of sensors for blast and blight diseases and stomatal activity measurement in rice	Biological Sciences	Dr. P N Jha and Shiv Nadar University- LEAD Centre, Institute of Agricultural Sciences, BHU, IIT Roorkee and AU-KBC Research Centre- MIT Campus of Anna University , Chennai	-	NASF (ICAR)	Total Project Cost 2.36 Cr. (BITS Share 23.95 Lakhs)
30	Sensitive explosive detection in vapor phase with cyclometalated iridium (III), Platinum (II) and Conjugated Hyperbranched polymer based aggregation induced emission active nanoprobes	Chemistry	Dr. Inamur Rahaman Laskar	Dr. Rahul Singhal	DRDO	32,72,000
31	Computational design, synthesis and screening of non-hydroxamate lipophilic DXR inhibitors as potential antibacterial/antimalarial/anti-TB agents	Pharmacy	Dr. Sandeep Sundriyal	-	SERB (CRG)	30,46,000
32	Assessment of Indoor plants for improving air quality in buildings	Mechanical Engg	Dr. Aakash Chand Rai	-	SERB (CRG)	39,71,000
33	Analyzing the crosstalk between autophagy, cytoskeletal and mitochondrial dynamicity regulating epithelial to mesenchymal transition (EMT) in human glioblastoma cells	Biological Sciences	Dr. Sudeshna Mukherjee	-	CSIR	18,40,000
34	Synthesis of heterocycle fused cpomenones and quinolinone through transitional metal catalyzed cascade reactions	Chemistry	Dr. Anil Kumar	-	CSIR	24,14,000
35	Process Development for Bio-Mitigation of Flue Gases (CO ₂ , SO _x And NO _x) using Chemolithotrophs and Production of value-added Products	Chemical Engg	Dr. Smita Raghuvashi	-	SERB (CRG)	31,61,000
36	Modelling of Drivers and Barriers of electric vehicle penetration in emerging economy : A study of Indian Market	EEE	Dr. Hari Om Bansal	Dr. Praveen Goyal	ICSSR (IMPRESS)	5,25,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
37	Linking Energy Poverty with Human Development: A Case Study of Two Districts of Rajasthan	Economics & Finance	Dr. A K Giri	Dr. Geetilaxmi Mohapatra	ICSSR (IMPRESS)	7,87,000
38	Measuring the Vulnerability of Agricultural Households to Climate Change in Arid and Semi-Arid Regions of Rajasthan - A Capacity to Adapt Perspective	Economics & Finance	Dr. Geetilaxmi Mohapatra	-	ICSSR (IMPRESS)	8,40,000
39	Study of Postbuckling response, failure and strength of functionally graded composite plates with and without cutouts	Civil Engg	Dr. S. B. Singh	-	CSIR	21,60,000
40	-	Chemical Engg	Dr. Priya Sande	-	The Association of Commonwealth Universities, UK	85,000
41	Sequential Comprehensive and holistic (SeqComHol) drug metabolism predication methodology to reduce drug failures	Pharmacy	Dr. Vaibhav Dixit	-	Royal Society of Chemistry, UK	3,23,000
42	Design and development of synthetic industrial methods to access chiral drugs	Chemistry	Dr. Indresh Kumar	-	Praveen Laboratories Pvt Ltd, Surat	20,80,000
43	Design and Analysis of Metamaterial Based Antenna for Wearable Application	EEE	Dr. Navneet Gupta	-	DST (Indo-Bulgaria Joint Bilateral Research)	11,82,000
44	Studying the efficacy of ADAM inhibitors in treating diabetic nephropathy	Biological Sciences	Dr. Syamantak Majumder	Dr. Rajdeep Chowdhury	ICMR	14,26,000
45	Repurposing of CNS accumulating drugs as autophagy modulators for potential treatment against glioblastoma: as in-silico, in-vitro and in-vivo study	Biological Sciences	Dr. Shibashis Chowdhury	Dr. Syamantak Majumder and Dr. Rajdeep Chowdhury	ICMR	12,62,000
46	Understanding emulsion kinetics of surfactants	Chemical Engg	Dr. Pradipta Chattopadhyay	-	Total Oil India Pvt. Ltd	7,90,000
47	Development of microporous PVC films for synthetic leather applications	Chemical Engg	Dr. Etica Krishna Chaitnya	-	M/s Mayur Uniquoters Pvt. Ltd	7,67,000
48	Self assembling pH-sensitive temozolomide-lipoic acid conjugate nanomedicine for treatment of glioblastoma multiforme	Pharmacy	Dr. Deepak Chitkara	-	ICMR	8,24,000
49	Design and development of fixed and floating solar PV installation for water management infrastructures	Civil Engg	Dr. Ravi Kant Mittal	Dr. Manjo Kumar Soni	First Green Consulting Pvt. Ltd	11,36,000
50	High altitude-hypoxia mediates thrombosis in soldiers; modulation of autophagy as a strategy to combat high altitude-hypoxia induced thrombosis	Biological Sciences	Dr. Rajdeep Chowdhury	Dr. Syamantak Majumder Dr. Shibashis Chowdhury	DRDO	42,24,000
51	Understanding the genetic interactions of parkin and α -synuclein affecting pathogenesis of Parkinson's disease	Biological Sciences	Dr. Meghana Tare	-	SERB	22,25,000
52	Developing active social learning interventions and assessing their impact on	Management	Dr. Leela Rani	-	NCERT	5,14,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
	environmentally sustainable consumption behavior of primary children					
53	Developing active social learning interventions and assessing their impact on environmentally sustainable consumption behavior of primary children	Biological Sciences	Dr. Ashis Kumar Das-PI Dr. Dinesh Gupta, International Centre for Genetic Engineering, New Delhi and Dr. Sanjay Kumar Kochar, SPMC, Bikaner	-	ICMR	Total Project Cost 62.77 Lakh (1 st Year Only) out of which 42.3 Lakh BITS Share
54	Assessment of mixed-matrix membrane system for CO ₂ separation for upgradation of Biogas to Bio-compressed Natural Gas (Bio-CNG)	Chemical Engg	Dr. Bhanuwardhan Reddy Kuncharam	-	SERB (SRG)	24,47,000
55	Nanocavity-in-body tunnel field effect transistor architectures for low power sensing applications	EEE	Dr. Rupam Goswami	-	SERB (SRG)	10,49,000
56	Klotho regulation as a novel therapeutic strategy against acute kidney injury-induced comorbidity: Impact of epigenetic driven and epigenetic independent reactivation of endogenous Klotho expression	Pharmacy	Dr. Giakwad Anil Bhanudas	-	SERB (EEQ)	50,33,000
57	Structured Dialogues for sustainable urban water management (SDSUWM)	Civil Engg	Dr. Rajiv Gupta - PI PI- Aligarh Muslim university, Amrita School of Engineering, Coimbatore (Tamil Nadu) and BITS Pilani, Hyderabad Campus	-	DST-TMD	Total project Cost - 5.09 Cr. BITS Pilani Share 3.4 Cr.
58	Numerical methods and Error Analysis for Solving coagulation and non-linear fragmentation equations	Mathematics	Dr. Rajesh Kumar	-	SERB (CRG)	9,62,000
59	GaN Gratings-on-Diaphragm based Optical Pressure Sensing in Harsh Environments	EEE	Dr. Rahul Singhal	-	CARS-DRRO	9,66,000
60	Li ⁺ NASICON-Polymer hybrid composites for solid state supercapacitor applications	Physics	Dr. Anshuman Dalvi	-	SERB(CRG)	43,79,000
61	Effective anti-icing strategies for power transmission cables and pipelines using macro structured superhydrophobicity	Mechanical Engg	Dr. A R Harikrishnan	-	SERB(SRG)	30,17,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
62	Exploring Known and novel HSPs and HSFs in a thermotolerant plant <i>Prosopis cineraria</i> by genome-wide studies and application of genome editing for enhanced heat stress tolerance in rice	Biological Sciences	Dr. Mukul Joshi	-	DBT-Ramlingaswami F/s	42,50,000
63	Machine learning techniques for resource allocation in cell-free massive MIMO communications	EEE	Dr. Syed Zafaruddin	-	SERB (SRG)	18,48,000
64	Insights into genetic interactions manifesting to onset and progression of parkinson's disease	Biological Sciences	Dr. Meghna Tare	-	BITS- ACRG	6,10,000
65	Analysis of mitochondrial regulation (fission and fusion) in parental and drug resistant human cancer cells and understanding its functional implications	Biological Sciences	Dr. Sudeshna Mukherjee	-	BITS- ACRG	4,00,000
66	Hybrid polymer nanocomposite materials for electromagnetic interference (EMI) shielding applications	Chemical Engg	Dr. Krishna Chaitanya Etika	-	BITS- ACRG	7,50,000
67	Failure analysis of MWCNTs-Reinforced laminated composite plate subjected to different types of mechanical loads	Civil Engg	Dr. Rajesh Kumar	-	BITS- ACRG	8,80,000
68	Disaster monitoring from aerial imagery using deep learning	CSIS	Dr. Pratik Narang	-	BITS- ACRG	7,90,000
69	Brain computer interface controlled humanoid	EEE	Dr. Vinay Chamola	-	BITS- ACRG	9,00,000
70	Design and development of MEMS based resonant glucose sensor	EEE	Dr. Sujan Yenuganti	-	BITS- ACRG	2,25,000
71	Study of Interfacial, Evaporation and ignition characteristic of micro-emulsion for printing, combustion, oil recovery and machining industrial applications	Mechanical Engg	Dr. A R Harikrishnan	-	BITS- ACRG	7,90,000
72	To decipher the role of Oxidative stress-induced inhibition of PKM2 in regulating autophagic induction of Nrf2: Understanding the mechanism of ROS adaptation in Breast Cancer Cells	Pharmacy	Dr. Richa Shrivastava	-	BITS- ACRG	1,50,000
73	Design and synthesis of conformationally constrained cationic peptidomimetics (CPMs) as antimicrobial agents	Pharmacy	Dr. Sandeep Sundriyal	-	BITS- ACRG	9,50,000

Projects completed

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
1	Widening & Strengthening of existing Bikaner-Phalodi section to Four Lane from Km4+200 to Km 55+250 and two lane with PS from Km 55+250 to Km 163 +500 of NH-15 on BOT basis in the state of Rajasthan	Civil Engg	Dr. A K Sarkar	-	NHAI	53,50,000
2	Insight into dissolution mechanism of amorphous solid dispersions of macitentan	Pharmacy	Dr. M M Pandey	-	DBT	8,00,000
3	Experimental investigations on catalytic treatment of producer gas	Chemical Engg	Dr. Pratik N Sheth	-	Ankur Scientific Energy Technologies Pvt. Ltd	6,72,000
4	Integrated approach for the efficient removal and recovery of Zinc from the viscose fiber process	Biological Sciences	Dr. S. K. Verma	Dr. Ajit Pratap Singh Dr. Jitendra Panwar and Dr. Suresh Gupta	BITS Pilani-ABSTCPL Joint project	49,42,000
5	Information gathering from encrypted mobile phone applications	CSIS	Dr. Ashutosh Bhatia	Dr. Kamlesh Tiwari	CAIR-DRDO	9,29,000
6	GCRF-HEFCW-Small Projects	Civil Engg	Dr. A K Sarkar, Dr. Prasanta Sahu , Dr. Bandhan Majumder	-	CARDIFF University, UK	12,10,000
7	Investigation of Unfolding and refolding of protiens by Gemini surfactants with varying spacer groups using fluorescence spectroscopy and small angle neutron scattering technique	Chemistry	Dr. Subit Saha	-	UGC-DAE	3,45,000
8	Effect of Chemical nature of spacer group, headgroups and counterions of gemini surgactants on solvation dynamics and totational relaxation of coumatins in aqueous micelles	Chemistry	Dr. Subit Saha	-	CSIR	9,28,000
9	Development and application of density functional reactivity theory based modeling techniques to understand the energetics of reactive and non-reactive interactions	Chemistry	Dr. Ram Kinkar Roy	-	DST	31,55,000
10	Decoration of Plasmic nanoparticles on Ultrathin 2D Nanostructure of Metal Chalcogenides and their application in photoelectrochemical water splitting and photocatalysis	Chemistry	Dr. Mrinmoyee Basu	-	DST-FT	19,82,000
11	Conjunctive use of Rainwater and Ground water to provide safe drinking water with intervention of advanced technology	Civil Engg	Dr. Rajiv Gupta	-	DST-WTI	1,26,43,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
12	Modeling Immune Response to Salmonella during Typhoid	Mechanical Engg	Dr. Amol Marathe	-	SERB	34,06,000
13	Mathematical modeling and analysis of the dynamics of diabetes mellitus in indian population and control measures	Mathematics	Dr. Padma Murali	-	CSIR	8,78,000
14	Study of Observational Constraints on dark energy models of universe using COSMOMC in HPC systems	Mathematics	Dr. Suresh Kumar	-	SERB	26,29,000
15	Mutant-p53 gain-of-function: its role in regulating long non-coding RNA (lncRNA) Expression and associated chemo-resistance in human cancer cells	Biological Sciences	Dr. Rajdeep Chowdhury	-	DBT	25,00,000
16	Removal of toxic metal ions from industrial discharges using microalgae	Biological Sciences	Dr. Prakash		SERB	38,90,000
17	Development of Surface Plasmon Resonance Instrument with a novel optical design	Physics	Dr. R.K.Gupta	Dr. ManjulaDevi V	DST	56,15,000
18	Investigations on Li+ ion conducting glass-ceramic containing NASICON structured nano crystallites	Physics	Dr. Anshuman Dalvi	-	SERB	37,65,000
19	Participatory Exclusion of women and the poor in community Forestry: A Comparative Study of Implementation of the ROFR Act across 3 states of India	Humanities & Social Science	Dr. Sailaja Nandigama -PI	Dr. Sanjeev Kr. Choudhary, Dr. Kumar sankar Bhattacharya	ICSSR	7,00,000
20	Development of Tio2 nanotube based highly selective capacitive type sensor device for the detection of methanol poisoning in alcoholic beverage	EEE	Dr. Arnab Hazra	-	SERB	27,76,000
21	An investigation of energy consumption of machine tools	Mechanical Engg	Dr. Girish Kant	-	BITS-ACRG	9,65,000
22	Design of Non asynchronous SRAM cell for hybrid cache architecture using CMOS-FDSOR/FinFET technology	EEE	Dr. Nitin Chaturvedi	-	BITS-ACRG	5,25,000
23	Investigation of ductile characteristics of high strength concrete beams reinforced with high strength steel and basalt fibre under elevated temperature conditions	Civil Engg	Dr. G Muthukumar	-	BITS-ACRG	9,75,000
24	Particle Image Velocimetry studies on a bench scale cold flow fluidized catalytic cracking (FCC) riser unit	Chemical Engg	Dr. Priya C Sande	-	BITS-ACRG	10,00,000
25	Dual Catalytic monolith reactor for biogas reforming	Chemical Engg	Dr. Srinivas Appari	-	BITS-ACRG	8,25,000
26	Interseismic coupling and asperity distribution in Northwest Himalaya	Mathematics	Dr. Sumanta Pasari	-	BITS-ACRG	8,95,000

S.No	Project Title	Dept	Principal Investigator	Co-Investigator	Funding Agency	Amount Sanctioned (INR) Lakhs
27	Ultrasonic assisted grinding of difficult to cut material with cryo-minimum quantity lubrication	Mechanical Engg	Dr. Varun Sharma	-	BITS-ACRG	9,40,000

KK Birla Goa Campus:

1. SPONSORED RESEARCH AND CONSULTANCY

PROJECTS SANCTIONED

A. Government Sanctioned

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of Novel Biofilm Resistant Coat for Implant Devices from Moringa oleifera Leaf Extracts	Biological Sciences	Dr. Sumit Biswas	Dr. N N Ghosh	ICMR	-	3613000
2	Bioremediation and Digital Documentation towards the conservation of Cultural Heritage	Biological Sciences	Dr. M. Srikanth	Dr. Geetha B. Dr. Ramprasad Joshi	DST- SHRI	-	3280288
3	Restoration of windowpane oyster (placuna placenta linnaeus, 1758) population following sea ranching practices for their long term conservation	Biological Sciences	Dr. Sumit Biswas	NA	Wildlife Trust of India	-	170000
4	Fine Mapping of the Chromatin structure of key genes involved in reproductive maturation and egg production in dengue vector mosquito, Aedes aegypti	Biological Sciences	Dr. Tushar Tirtha Saha	NA	SERB-SRG	-	3159412
5	A Computational investigation on the reaction paths and spectroscopic properties of crown ethers	Chemistry	Dr. Anjan Chattopadhyay	NA	BRNS	-	2480750
6	A polydiacetylene-based fluorescent sensor for the detection of arsenic species and uranyl ion in water by conventional and nuclear analytical methods.	Chemistry	Dr. Amrita Chatterjee	NA	BRNS	-	3208355
7	A Theoretical and Numerical Study of the Control Problems Involving Differential Equations with Memory Terms,	Mathematics	Dr. Anil Kumar	NA	SERB MATRICS	-	660000
8	Magic and Antimagic Labeling of Graphs	Mathematics	Dr. Tarkeshwar Singh	Dr. A. Somoasundaram (BITS, Dubai Campus)	SERB	-	1954832
9	Partial Migration Phenomenon : A Game Theoretic Approach to Causes and Environmental Effects	Mathematics	Dr. Anushaya Mohapatra	NA	SERB-SRG	-	1205292
10	Towards a healthy consumption pattern for preventing chronic diseases in India: pattern and determinants in the consumption of substance, healthy and unhealthy diets over 1983-2012	Economics	Dr.Sukumar Vellakkal	NA	PHRI-DST	-	1850750
11	Impact of "Make in India" and new IPR policy on Innovation of	Economics	Dr. Rajorshi Sen Gupta	Prof. Aswini Kumar Mishra	ICSSR	-	600000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
	MNCs and Indian MSMEs in Medical Device Sector						
12	Innovation in Science pursuit for Inspired Research (INSPIRE)	Physics	Dr. Rudranil Basu	NA	DST-INSPIRE	-	1400000
13	A study on energy barrier to buckling in cylindrical shells	Mechanical Engineering	Dr. Sandeep Jose	NA	SERB-ECRA	-	3287900
14	Mechanical characterization of noncarbon nanomaterials and their reinforced polymer composite materials and structures	Mechanical Engineering	Dr. Sandeep Singh	NA	SERB-ECRA	-	1952460
15	Evaluation of Mechanical Performance of the 3-D Printed Peek polymer used in space applications	Mechanical Engineering	Dr. D. M. Kulkrani	Dr. Vikas Chaudhari	ISRO	-	3629000
16	Drag Reduction by suppressing the Bi-Stability character of the wake	Mechanical Engineering	Prof. Shibu Clement	Dr. Pritanshu Ranjan	ARDB/DR DO	-	2080500
17	Microfluidics sperm cell sorting device: addressing male infertility factor	Mechanical Engineering	Dr. Siddhartha Tripathi	NA	SERB-SRSG	-	2741440
18	Design and Development of Innovative Structural health Monitoring (SHM) system using embedded piezo based active sensing approach for Delamination Detection in Multi-layer composite Structures	Mechanical Engineering	Dr. Devandra Gokul Patil	NA	SERB-SRSG	-	2884060
19	Continuous flow oil-water separation system using smart separators capable of low-voltage wettability switching	Chemical Engineering	Dr. Pradeep Kumar Sow	NA	SERB-ECRA	-	4651900
20	Development of bimetallic catalyst for direct non-oxidative conversion of methane to higher hydrocarbons	Chemical Engineering	Dr. Sharad M Sontakke	NA	SERB-ECRA	-	4250120
21	Coping with Displacement due to River Erosion in the Indian Sundarban and Lower Assam	HSS	Dr. Mohan Kumar Bera	NA	ICSSR	-	450000
22	Flying Ad Hoc Network for disaster rescue operations	EEE	Dr. Sarang C Dhongdi	NA	SERB-SRSG	-	2156000
B. Industry Sanctioned Projects							
1	Biobleaching of limestone and clay to remove iron and other transition elements (Titanium, chromium, manganese, nickel and zinc)	Biological Sciences	Dr. M. Srikanth	NA	ABSTCPL	-	1000000
2	Nokia Localization and Nokia health	CS&IS	Dr. Vinayak Naik	NA	Nokia	-	1001000
3	Use of cell phones for detecting and controlling infectious diseases	CS&IS	Dr. Vinayak Naik	NA	National Geographic Society	-	623000
4	Tata Consultancy Services	CS&IS	Dr. Ashwin Srinivasan	NA	Tata Consultancy Services	-	720000
5	1981 Batch Chair Professorship	CS&IS	Dr. Ashwin Srinivasan	NA	1981 Batch BITS Alumni	-	180000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
6	Process Design and Development cost effective method for carbon-silica based hybrid fillers for application in rubber products	Chemical Engineering	Dr. S. D. Manjare	Dr. T Sushil Kumar Rajan, Mexichem Industries Mumbai	Apollo Tyres, Chennai	-	6000000
C. International Sanctioned Projects							
1	Novel micro and nano sensors for antibiotic resistance measurement	Chemistry	Prof. Sunil Bhand	Prof. Utpal Roy	SPARC	Dr. Bin Xie, Lund university, sweden and Dr. Eng. Nelida Leiva Eriksson Lund University Sweden	5105296
2	Developing Resource Recovery and use (RRR) business options in the sanitation Sector	Biological Sciences	Dr. M. Srikanth	NA	International Water Management Institute		375000
3	Offering Provocations, Surfacing evidence " A: The Archiving of Cine-Politics under the Indian National Emergency through Digital Humanities 2.0	HSS	Dr. Dibyakusum Ray, IIT Ropar	Dr. Parichay Patra	SPARC	Dr. Manishita Dass, Royal Holloway University of London	4.9 BITS Share (54 lakhs Total share
4	Mobile App for improving survival in fires through efficient egress: The role of impromptu indoor WiFi localization and georeferenced building maps	CS&IS	Dr. Ashwin Srinivasan	Dr. Vinayak Naik	DST and IC-IMPACT Canadian Project	Dr. Raja Sengupta (Canada) & Liliana perez (Canada)	3831512

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Isolation of white blood cells using a passive hydrodynamic microfluidic device	Mechanical Engg	Dr. Siddhartha Tripathi	-	ACRG	-	900000
2	A multi-layer neural network for dynamic visual scene learning, cognition, and decision implemented on GPU and SpiNNaker.	CS&IS	Dr. Basabhatta Bhattacharya	-	ACRG	-	1000000
3	RESCUER – RESidential Cooling Usage for Energy Reduction	CS&IS	Dr. Vinayak Naik	-	ACRG	-	556900
4	Versatile catalytic behavior of short peptide-based supramolecular assemblies	Chemistry	Dr. Subhasish Roy	-	ACRG	-	1000000
5	Single atom catalysts on two dimensional nanosheets for the generation of renewable fuels	Chemistry	Dr. Kiran Vankayala	-	ACRG	-	995000
6	Feasibility Study of Innovative Piezo-based System for Inhibition of Subsea Algal Growth and SHM of Marine Structures	Mechanical Engg	Dr. Devendra Patil	-	ACRG	-	927500
7	Investigating the role of juvenile hormone signaling pathway components in chromatin remodeling of target genes using reverse genetic approach	Biological Sciences	Dr. Tusar T. Saha	-	ACRG	-	1000000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
8	First principles study of new two dimensional electrode materials for metal ion batteries	Physics	Dr. Swastibrata Bhattacharyya	-	ACRG	-	3000000
9	Computational understanding of structural evolution and reaction kinetics during the lithiation and delithiation process of silicon anode in lithium ion battery	Chemical Engg	Dr. Paramita Haldar	-	ACRG	-	
10	Numerical Investigation of fluid flow and heat transfer around a rotating circular cylinder	Mechanical Engg	Dr. Pritanshu Ranjan	-	ACRG	-	
11	Assessment of Attitudes & Approaches of Individuals towards Segregation & Recycling of Everyday generated Household and Other Solid Wastes: A Study of Residents of BITS Pilani, K.K. Birla Goa Campus	HSS	Dr. Sayantani Sarkar	-	RIG	-	200000
12	AES: Automated Evaluation Systems for Computer Programming Course in Any University	CS&IS	Dr. Soumyadip Bandyopadhyay	-	RIG	-	200000
13	Flat Holography: Integrable Field Theories as Dual to Asymptotically Flat Quantum Gravity	Physics	Dr. Rudranil Basu	-	RIG	-	200000
14	The Role of Juvenile Hormone in Chromatin Remodeling of Target Genes in mosquito <i>Aedes Aegypti</i>	Bio. Sci.	Dr. Tusar Tirtha Saha	-	RIG	-	200000
15	Coping with Crisis of Livelihood and Disasters: A Study of Migration in Sundarban Islands	HSS	Dr. Mohan Kumar Bera	-	RIG	-	200000
16	Investigation of Electronic and Structural Properties of Low Dimensional Hybrid Materials using First Principles Calculations	Physics	Dr. Swastibrata Bhattacharyya	-	RIG	-	200000
17	Materials for Nitrogen Fixation and Water Splitting	Chemistry	Dr. Vankayala Kiran	-	RIG	-	200000
18	The Effects of Environmental Fluctuations on the Evolution of Partial Migration Phenomenon	Mathematics	Dr. Anushaya Mohapatra	-	RIG	-	200000
19	Mobile App for Improving Survival in Fires through Efficient Egress: The Role of Impromptu Indoor Vifi Localization and Georeferenced Building Maps	CS&IS	Prof. Vinayak Naik	-	RIG	-	200000
20	Emergent Catalytic Behavior of Low Molecular Weight Peptide-based Supramolecular Fibrils	Chemistry	Dr. Subhasish Roy	-	RIG	-	200000
21	Modeling of Switches for beyond-CMOS Applications	EEE	Prof. Abhijit Jayant Pethe	-	RIG	-	200000
22	Link and Content based Analysis of Online Recruitment in Terrorist Communities	CS&IS	Dr. Swati Agarwal	-	RIG	-	200000

ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Demonstration of river Sal cleaning by vertical wetland and river bank filtration	Biological Sciences	Dr. M. Srikanth		DBT (river cleaning)	Dr. Fraddy D'souza Dr. Kavita Vithal Patil	Total 6885000. BITS share 5015000
2	Small Scale and sustainable household wastewater recycling	Biological Sciences	Dr. M. Srikanth	-	DST/MHR D under IMPRINT scheme	Dr. Hoysall N Chanakya CISTUP Prof. Ghangrekar IIT Kharagpur Arun Kumar NITK Surathkal	3192000
3	Exploration of Antifungal lead molecules from the wild type Bacillus subtilis RLID 12.1 purification and molecular characterization along with optimizing production	Biological Sciences	Dr. Utpal Roy	-	DBT	Prof. ArunalochechaKra barti	Total 4869600. BITS share 3804600
4	Evaluation of Antifungal activity of lipopeptides from a wild type Bacillus sp. RLID 12.1 in mouse models of invasive candidiasis, cryptococcosis, and Aspergillosis	Biological Sciences	Dr. Utpal Roy	-	SERB	Prof. Arunalokechakra barti PGIMER Chandigarh	2459000
5	Study on the role of Tonoplast Intrinsic Protein Family members in arsenite accumulation and their transport in rice	Biological Sciences	Dr. Kundan Kumar	-	Board of Research In Nuclear Sciences	Dr. Sudhakar Srivastava, Banaras Hindu University	2939900
6	Developing Bioactive Compound -Enriched Functional Food Ingredients from Dillenia indica and valorization of its pomace	Biological Sciences	Dr. M. Srikanth	Dr. Anasuya Ganguly	DBT, Twinning Projects for the NE-2015	Dr. Manashi Das Purkayastha (PI) Dr. Abhijit Borah Assam Agricultural University	Total 4215000. BITS share 1686000
7	Studies on the gene regulation involved in the lytic-lysogenic switch in staphylococcus aureus temperate bacteriophage phi11	Biological Sciences	Dr. Malabika Biswas	-	SERB	-	2046453
8	Response of Copepods to crude oil pollution and warming	Biological Sciences	Dr. Lalita V. Baragi	Dr. M. Srikanth (Mentor)	SERB	-	1920000
9	Exploring the effects of polyamine and associated metabolic regulation of hypothalamic GnRH-GnIH synthesis and release during ageing in BALB/cJ mice	Biological Sciences	Dr. Arnab Banerjee	Dr. Rajiv Taliyan, Pilani Campus	SERB	-	3435200
10	Introducing cyanobacterial bicarbonate transporters into C ₃ plants for enhanced photosynthetic performance	Biological Sciences	Dr. Sandhya Mehrotra	Dr. Rajesh Mehrotra	EMR-CORE	-	3773000
11	Studies on the effect of Russells Viper Venom on regulation of cell morphology, apoptosis and further characterization of the active compound(s).	Biological Sciences	Dr. Dibakar Chakrabarty	Dr. Anshuman Sarkar	ICMR	-	2477000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
12	TNF Alpha Mediated Alternative Splicing in Type 2 Diabetes; A genome Wide Approach	Biological Sciences	Ms. Jiss Maria Louis	Mentor :Dr. Indrani Talukdar	DST (WOS)	-	2068000
13	Screening isolation and identification of Novel Antimicrobial compounds from potential Mangroves of Goa	Biological Sciences	Kundan Kumar	Dr. Utpal Roy	CSIR	-	2000000
14	Mesoporous nanocomposites for controlling microbially induced corrosion caused by sulfate reducing bacteria	Chemical Engineering	Dr.Sutapa Roy Ramanan	Dr. Meenal Kowshik	SERB-CORE	-	3260400
15	Catalytic HI decomposition studies in membrane reactor for hydrogen production (transferred project)	Chemical Engineering	Dr. Sharad Sontakke	NA	Board of Research in Nuclear Sciences	-	1933000
16	Development of suitable material for visible light induced photocatalytic hydrogen production from industrial wastewater	Chemical Engineering	Dr. S. S. Baral	Dr. Saibal Ganguly	SERB	Dr. Priyabrat Mohapatra C V College of Engineering	Total 5332000. BITS share 3583000
17	Synthesis of mononuclear as well as homo and hetero dinuclear complexes of Cu(II) and Zn(II) with hard-soft donor ligands and evaluation of their anticancer activities	Chemical Engineering	Dr. Manjuri Kumar	Dr. Sumit Biswas	SERB	-	2305578
18	Formulation of bio-functionalized cosmetic emulsions using biosurfactant and essential oil as green ingredients	Chemical Engineering	Dr.Vivek R.	NA	SERB – ECR	-	3027670
19	Mechanistic approach to design composite metal-carbon nanofiber oxygen electrodes for high-performance metal-air batteries	Chemical Engineering	Dr. Richa Singhbal	NA	SERB - ECR	-	4559920
20	Computational Study of the Catalytic Mechanism Some Diaryldiselenide-based Glutathione peroxidase Mimetics	Chemistry	Dr. Raghu Nath Behera		SERB	-	1642280
21	Design and synthesis of graphene oxide based AIE-sensor for selective detection of Hg(II) and Organic mercury in aqueous medium	Chemistry	Dr. Amrita Chatterjee	Dr. N. N. Ghosh	UGC- DAE Consortium for Scientific Research Proposal	-	703000
22	Steric and conformational influences on the performance of nonplanar and highly functionalized phenyl- and heteroaryl-porphyrins in the sensing of anions and heavy metal ions	Chemistry	Dr. P. Bhavana	NA	SERB	-	2822820
23	A Comprehensive study on mechanochemical sp ² C-H bond activation in five-membered heteroaromatics in a Ball-Mill: Can 1st row transition elements be a potential replacement of late transitional elements a question to investigate	Chemistry	Dr. Mainak Banerjee	NA	SERB	-	3057560

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
24	Nano-based detection of organophosphate pesticides using metal organic framework conjugates	Chemistry	CCPIs Dr. Sunil Bhand		NASF, ICAR	Lalit M Bharadwaj, Amity University Dr. Irani Mukherjee, IARI, New Delhi	Total 17740210. BITS share 4308110.
25	Experimental and Computational study of Boron Doped TiO ₂ and ZnO Nanocrystals	Chemistry	Dr. Jayadevan K. P.	Dr. R. N. Behera	SERB	-	2332515
26	Development of PCDA-liposome based detection kit for Alzheimer's disease biomarker	Chemistry	Dr. Amrita Chatterjee	Dr. Malabika Biswas Dr. Ramesha C. K.	SERB	-	2663200
27	Design and synthesis of smart supramolecular dyes based on TPE modified PDI- cucurbituril conjugates: their binding and photophysical studies and application in the detection of biogenic polyamines	Chemistry	Dr. Mainak Banerjee	Dr. Amrita Chatterjee	Board of Research in Nuclear Sciences	-	2792500
28	Development of mesoporous silica (for alumina)-SiC- metal nanoparticles based nanocomposites for rader absorption application at high temperature	Chemistry	Dr. N. N. Ghosh	Dr. Amrita chatterjee	DRDO	-	1513000
29	Cyclic Peptide-based nanotubes for Efficient proton conducting material	Chemistry	Dr. Subhasish Roy	NA	DST-INSPIRE	-	3500000
30	Knowledge- Rich Deep Models for Optimisation	CS&IS	Dr Ashwin Srinivasan	NA	SERB		2250290
31	Predictive Mathematical Modeling and Analysis for Effective Diagnosis and Control of Diabetes mellitus with associated Co-infections Diseases among Indian	Mathematics	Dr. P. Dhanumjaya		SERB	Prof. V. Sree Hari Rao International centre for interdisciplinary Research & Innovation, Hyderabad	1568490
32	A Study on the inequalities involving complex polynomials	Mathematics	Dr. Prasanna Kumar N.	NA	NBHM-DAE	-	1304100
33	Theoretical and numerical study of elliptic and parabolic partial differential equations with interfaces	Mathematics	Dr. P. Dhanumjaya	NA	NBHM-DAE	-	1348100
34	A Study on the Bernstein-type inequalities for the polar Derivative of a Complex Polynomial	Mathematics	Dr. Prasanna Kumar	NA	CSIR	-	1646000
35	Study on dark energy, dark matter and cosmic acceleration of the Universe in modified gravity	Mathematics	Dr. Gauranga Charan Samanta	Dr. Prasanta Kumar Das	CSIR	-	1696000
36	A study of Homotopy Invariants of a model category	Mathematics	Dr. Shilpa Gondhali	NA	SERB MATRICS	-	6000000
37	An Acoustic Study characterization and standardization of the Sarasvati Veena	Mechanical Engineering	Dr. Pravin M Singru	Dr. Radhika Vathsan	SERB	-	3695560
38	Ecofriendly flexible CZTS solar cells	Physics	Dr. Teny Theresa John		SERB	Dr. M. K. Jayaraj, CUSAT, Kochi	2925560
39	Studies on biomolecular transport through nuclear	Physics	Dr. P. Nandakumar	Dr. Meenal Kowshik	SERB	-	4404104

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
	pore complexes using a dual fluorescence channel confocal microscope						
40	Signature of Space-time noncommutativity in high energy colliders	Physics	Dr. Prasanta Kumar Das	-	SERB	-	1885515
41	Room temperature Hydrogen Storage and sensing using Reduced Graphene Oxide-MoS2 Nanocomposites	Physics	Dr. E. S. Kannan	-	SERB	-	3061520
42	Spin seebeck Effect in novel heterostructures	Physics	Dr. Ram Shanker Patel	-	SERB	Dr. Kartik Senapati Dr. Pratap Kumar Sahoo NISER Bhubaneswar	5083821
43	Noninvasive investigation of stem cell differentiation using an in house	Physics	Dr. Geetha Varier	Dr. P. Nandakumar (Mentor)	DST-WOS-A	-	3201000
44	Bioincubator in Health and environmental engineering		Development Grant		BIRAC-Bio-NEST	-	29664000

B. Ongoing Industry Projects

1	Process Improvements in Urrakh and Feni Production in Goa" (Pilot Scale Process and thermal Efficiency improvement measures)	Chemical Engineering	Dr. S. D. Manjare	-	Goa Energy Development Agency (GEDA)	Prof. Pramod V. Pathak , Environmental Impact Assessment Agency, Goa	1000000
2	Unmixed reforming (UMR) of Methane for Hydrogen Production	Chemical Engineering	Dr. Srinivas Krishnaswamy	-	SERB (BPCL)	Prof. Aniruddha B. Pandit, Institute of Chemical Technology, Mumbai	BPCL - 4600000 SERB- 1000000
3	Study of lubricant and application method for enhanced surface finish and reduced draw load on cold drawn steel tubes	Mechanical Engineering	Dr. Varinder Singh	Prof. Amit Kumar Gupta Prof. Srinivas P Regalia Dr. Tufan Chandra Bera	Tube Investments of India Ltd. Chennai	-	2743000
4	Bioremediation of Red mud using acidogenic fermentation byproducts and by biopiling	Biological Sciences	Dr. M Srikanth	Dr. Neeru Sood (Dubai Campus)	ABSTCPL	-	3575000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
C. Ongoing International Sanctioned Projects							
1	Sanitation, water and solid waste for development	Biological Sciences	Dr. M. Srikanth		EAWAG, Switzerland	-	726000
2	Literacy and Cognition project (MPI)	Biological Sciences	Dr. Veeky Baths		Max Planck Institute	Dr. Falk Huettig	444493.14
3	Photo-irradiation and Adsorption based Novel Innovations for Water-treatment" (PANI).	Chemistry	Dr. Halan Prakash	-	Horizon H2020 (EU) – DST India	Consortium partners comprise of 5 European countries, Ireland, UK, Spain, Italy, Cyprus and 5 Indian partners, NEERI, Nagpur; Kwaliti Photonic, Hyderabad; Affordable water	20931000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
						solutions, Hyderabad; Society for Alternative Developments, New Delhi; and Society for Technology & Action for Rural Advancement, New Delhi	

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	High power compact UWB TEM antenna and mode converter design	EEE	Ashish Chittora	-	ACRG	-	950000
2	Design, Development and field trials of a prototype for point of source treatment of domestic waste water (DWW)	Chemical Engineering	Anirban Roy	-	ACRG	-	800000
3	Revival of Long-term forest monitoring in the Western Ghats, for assessing changes in ecosystem services under changing climate	HSS	Rajiv Kumar Chaturvedi	-	ACRG	-	462500
4	Design and Simulation of Micro devices for Development of Reliable Biosensor	EEE	Gautam G. Bacher	-	ACRG	-	1000000
5	Development of transition metal oxide based nanostructured surfaces for low- voltage tuning of wettability	Chemical Engineering	Pradeep Kumar Sow	-	ACRG	-	917000
6	Aqueous rechargeable metal-air batteries for large scale energy storage	Chemical Engineering	Richa Singhal	-	ACRG	-	877000
7	Biopolymers from thermophilic bacteria for fly- ash disposal and soil erosion prevention applications.	Chemical Engineering	Vivek R	-	ACRG	-	670000
8	Experimental investigation of unmixed combustion process with copper and nickel based material at high temperature.	Chemical Engineering	Amol Deshpande	-	ACRG	-	1000000
9	Experimental and Numerical Study on Crashworthiness of Aluminium-Composite Collapsible Energy Absorber under Quasi-static Loading	Mechanical Engineering	Kiran Dinkar Mali	-	ACRG	-	525000
10	MOF's and its composites for direct solar light driven photocatalytic degradation of dye effluents	Chemical Engineering	Sharad Sontakke	-	ACRG	-	1000000
11	Design and Development of Underwater Acoustic Modem	EEE	Sarang Dhongdi	-	ACRG	-	888750
12	Thermal Characterization of Loop Heat Pipe with nanofluids using Infrared Thermography	Mechanical Engineering	Vadiraj Hemadri	-	ACRG	-	900000
13	A study on energy barrier to buckling in cylindrical shells	Mechanical Engineering	Sandeep Jose	-	ACRG	-	1000000
14	Atomistic continuum coupled methods for the large deformation simulation of two dimensional nanomaterials	Mechanical Engineering	Sandeep Singh	-	ACRG	-	690000
15	Design of Compact High Power Antenna with Mode Conversion Capability for	EEE	Dr. Ashish Chittora	-	RIG	-	200000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
	High Power Microwave Applications						
16	Experimental Investigation on the Role of Oxygen Storage and Release Materials (OSRMs) in Unmixed Combustion (UMC) for Heat Transfer Applications	Chemical Engg.	Dr. Amol Deshpande	-	RIG	-	200000
17	Development of IoT System for Monitoring Gases	EEE	Dr. Sarang Dhongdi	-	RIG	-	200000
18	Arithmetic circuit implementation on Nanocrossbar and its performance evaluation	EEE	Dr. Pravin Sakharam Mane	-	RIG	-	200000
19	Microfluidic Sperm Cell Sorting Device: Addressing Male Infertility Factor	Mechanical Engg.	Dr. Siddhartha Tripathi	-	RIG	-	200000
20	Thermal Performance Characterization of Loop Heat Pipes with Nanofluids by Infrared Thermography	Mechanical Engg.	Dr. Vadiraj Hemadri	-	RIG	-	200000
21	Large Eddy Simulation of Fluid Flow and Heat Transfer from Rectangular Cylinder kept in Turbulent Stream	Mechanical Engg.	Dr. Pritanshu Ranjan	-	RIG	-	200000
22	Computationally Efficient 3D Ray Tracing Program for Analysis of Radome Enclosed Antennas	EEE	Dr. Hrishikesh Sonalikar	-	RIG	-	200000
23	Molecular and Ab-initio Modeling of Novel materials for energy applications	Chemical Engg.	Dr. Paramita Haldar	-	RIG	-	200000
24	A Visuo-Motor Tool on Neuromorphic Hardware to perform Pattern Recognition, Decision Making and Action Selection in Real Time	Computer Science and Information Systems	Prof. Basabdatta Bhattacharya	-	RIG	-	200000
25	Development of a Mental Health Profile and Identifying Mental Health Issues among Student Community in BITS Pilani K K Birla Goa Campus: An Explanatory Sequential Mixed Method Study	Hum. & Soc. Sci.	Dr. Bidisha Banerjee	-	RIG	-	200000

E. Grants Under DST-FIST Ongoing

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR) 50:50 basis
1	DST-FIST	Mathematics	-	-	DST	-	3750000
2	DST-FIST	Chemical Engg.	-	-	DST	-	6200000
3	DST-FIST	Biological Sciences	-	-	DST	-	16000000
4	DST-FIST	Physics	-	-	DST	-	29000000

3. COMPLETED PROJECTS

A. Completed Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Synthesis of hydroxyapatite based biocompatible functional magnetic nanoparticles and Investigation of its interaction with biomolecules	-	Dr. Sutapa Roy Ramanan	Dr. Meenal Kowshik	UGC-DAE Consortium for scientific research, BARC	-	270484
2	Development of anodic material for DSSC (transferred project)	-	Dr. Sharad Sontakke	-	DST INSPIRE	-	700000
3	Rheological dynamics of polymer- layered silicate/graphene nanocomposites	-	Dr. Asima Shaukat	-	DST INSPIRE	-	3500000
4	Visco-Elastic, Visco-Plastic and thixotropic behavior of bio-greases and its influence on lubrication (tribiological) performance	-	Dr. Asima Shaukat	-	DST-SERB	-	5467300
5	Chlorine resistant Nano Enhanced Polymer Blend Membranes	-	Dr. Jegatha Nambi Krishnan	-	DST-SERB	-	3174281
6	Development of Software Defined Radio (SDR) based GNSS receiver	EEE	Dr. Nitin Sharma	-	ISRO	-	3300000
7	Nonadiabatic molecular processes on threefold electronic degeneracies	Chemistry	Dr. Tanmoy Mondal	-	DST INSPIRE	-	3500000
8	Development of field portable devices	Chemistry	Prof. Sunil Bhand	-	Board of Research in Nuclear Sciences	-	2413800
9	Agenda 2020: India's Maritime Infrastructure, Governance & Naval Diplomacy	HSS	Dr. R. P. Pradhan	-	ICSSR	Prof. Geetha Reddy Anant. Osmania University, Hyderabad Prof. W. Lawrence S. Prabhakar, Madras Christian College, Chennai Mr. Dilip Mehrotra, Secretary, IOMOU, Goa	1500000
10	Novel sustained release biodegradable polymer coated urea and zinc nanofertilizers for synchronizing fertilizer uptake, improving productivity and prevention of bacterial wilt disease in chilli (<i>Capsicum annum</i> L)	Biological Sciences	Dr. Gauri Anil Achari	Mentor: Dr. Meenal Kowshik	SERB	-	1920000
11	<i>Studies of the effects of quinacrine (QC) on regulation of Rho like small- GTPase and apoptosis in human lung and breast cancer cell lines cultured in vitro</i>	Biological Sciences	Dr. Angshuman Sarkar	Dr. Indrani Talukdar	DBT	-	2355000
12	Lanthanide doped hydroxyapatite based nano-materials for theranostics applications: Sensing, Imaging, and Therapeutics (Sanction letter shows a different title)	Biological Sciences	Dr. Meenal Kowshik	Dr. Sutapa Roy Ramanan Dr. Geeta Varier	DST	-	3964771

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
13	Academia Engagement on Decentralized Sanitation under Sanitation Capacity Building Platform	Biological Sciences	Dr. Srikanth Mutnuri	NA	NIUA New Delhi	-	1280000
14	Demonstration of a waste to energy project by anaerobic Codigestion of food and septage	Biological Sciences	Dr. Srikanth Mutnuri	-	DBT	-	16160000
15	Home automation and smart wheel chair based on electroencephalography (EEG) signals produced in the brain	Biological Sciences	Dr. Veeky Baths	Dr. Bharat Deshpande	CSRI (DST)	-	3895600
16	Development of Remotely configurable Arbitrary Ramp Generator for Frequency modulated continuous Wave Reflectometry	Computer Science & Information Systems	Dr. Neena Goveas	Dr. A. Amalin Prince	DAE-BRNS	-	2802500
17	Secure vehicular communication and routing in future intelligent transportation systems (ITS)	Computer Science & Information Systems	Dr. Debasis Das	NA	SERB-ECR	-	1981100
18	Observational signals of quantum gravity in CMB	Physics	Dr. Kinjal Banerjee		SERB-SRG	-	318528
19	Study and analysis of fluid dynamics and heat transfer characteristics in circulating fluidized bed heat exchanger with novel designs of distributor plates	Mechanical Engineering	Dr. Ranjit S Patil	-	SERB	-	2766000

E. Grants Under DST-FIST Completed

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR) 50:50 basis
1	DST -FIST	Chemistry	-	-	DST	-	7700000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	VegfruitSens: Development of sensing system for residual pesticide and harmful chemical detection in fruits and vegetables	Chemistry	Prof. Sunil Bhand	-	R D Tata Trust (to CDAC, Kolkata)	Dr N Bhattacharyya (CDAC Kolkata) Prof Rajib Bandyopadhyay Jadavpur University	Total 21200000BIT S share 5320000
2	Material property guides for Rotational moulding	Mechanical Engineering	Dr. Sachin Waigaonkar	-	Society of Asian Rotomoulders (STAR)	-	75000
3	HoD Mechanical (Ranjit Patil)	Mech. Engineering	HoD Mechanical(Ranjit Patil)	-	BMW	-	2500000

C. Completed International Projects- NA

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Formulation and Characterization of Biosurfactant based Green Emulsion System for Cosmetic and Enhanced Oil Recovery (EOR) Applications	Chemical Engg.	Dr. Vivek Rangarajan	-	-	-	200000
2	Development of Broadband Antenna for High Efficiency Applications	EEE	Dr. Sudeep Baudha	-	-	-	200000
3	Nano Composite Materials for Low Voltage Alteration of the Surface Wettability	Chemical Engg.	Dr. Pradeep Kumar Sow	-	-	-	200000
4	Experimental and Computational Study of the Free Transverse Vibration Behaviour of Perforated Cantilever Steel Beam	Mechanical Engg.	Dr. Kiran D. Mali	-	-	-	200000
5	Study on Buckle Wave Propagation in Axially Compressed Cylindrical Shells considering the Effect of Geometric Imperfections	Mechanical Engg.	Dr. Sandeep Jose	-	-	-	200000
6	Electrospun Metal-carbon Nanofiber Composites for High Performance Supercapacitors	Chemical Engg.	Dr. Richa Singhal	-	-	-	200000
7	Engineering Porous Materials for Applications in Water, Energy and Health Sectors	Chemical Engg.	Dr. Anirban Roy	-	-	-	200000
8	Multiscale Modelling for the Dynamic Characteristics of Initially Strained Graphene Sheets and Carbon Nanotubes	Mechanical Engg.	Dr. Sandeep Singh	-	-	-	200000
9	Photocatalytic Degradation of Agrochemicals using Combustion Synthesized Catalysts	Chemical Engg.	Dr. Sharad Sontakke	-	-	-	200000

Other Projects: A : New Approved Projects

1	Integrated Track in Brain and Cognitive Science (iBRAIN)	Biological Sciences	Dr. Veeky Baths	-	Erasmus Programme	-	Total 9,67,160 Euro. BITS share 12000000
2	Studies on CO fuelled self-sustaining Unmixed Combustion (UMC) reactor for integrated CO2 capture and power/steam generation	Chemical Engineering	Dr. Srinivas Krishnaswamy	Dr. Amol Deshpande	DST	-	7700000
3	Studies on hybrid Pressure Retarded Osmosis (PRO) – Reverse Osmosis (RO) system for energy generation utilizing hypersaline RO reject stream	Chemical Engineering	Dr. Anirban Roy	-	SERB-CORE	-	3449600
4	Impact Assessment of Indigenous ST Innovations developed by start-ups incubated in Academic Institutions in India	Economics	Dr. Rajorshi Sen Gupta	Dr. Aswini Kumar Mishra	DST	-	1200000
5	A Low Power Deep Spiking neural network for forest surveillance	Computer Science & Information Systems	Dr. Basabdatta Bhattacharya	-	SERB-CRG	-	3100000
6	Numerical Approximation of Optimal Control problems using virtual Element Method	Mathematics	Dr. Anil Kumar	NA	SERB-CRG	-	-

S.No	Project Title	Principal	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
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1	Feacal Sludge Lab at Goa (1966 Batch)	-	-	1966 -1971 BITS Alumni Batch	5059000	-
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CONSULTANCY PROJECT

A. Sanctioned

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Recovery and Purification of enzymes from spent Mushroom Substrate	Biological Sciences	Dr. M. Srikanth	-	Zuari foods & Farms Pvt. Ltd/ Tropical Mushrooms Goa	-	715000
2	Proposal for Appointment as Consultant for Implementation of Artificial Intelligence use-cases in Yard Operations and Onboard Ship Operations.	CS&IS	Dr. Ramprasad Joshi	Dr. Ashwin Srinivasan	Goa Shipyard Limited	-	2600000
3	Risk & Uncertainty Assessment for Railway Infrastructure due to Impacts of Climate Change	HSS	Dr. Rajiv Chaturvedi	-	Indian Institute of Management, Ahmedabad	-	224000
4	From NDCs to pathways and Policies: Transformative climate Action After Paris	HSS	Dr. Rajiv Kumar Chaturvedi	-	IDDRI	-	1200000
5	preparation of Goa state Action plan on climate change, concept note and DPR	HSS	Dr. Rajiv Kumar Chaturvedi	-	NABARD Consultancy Services Pvt Ltd	-	365800
6	Assessing Rotomoldability of Materials for Roots Muticlean Ltd, Tamil Nadu.	Mechanical Engineering	Dr. Sachin Waigaonkar	-	Roots Muticlean Ltd, Tamil Nadu.	-	125840
7	To carry out study on issue of volatile Organic Emission	Chemical Engineering	Dr. Sharad M Sontakke	-	Aegis Logistics Limited	-	216000
8	Life Cycle Assessment of Lote plot	Chemical Engineering	Dr. S D Manjare	-	Laxmi Organic Industries Ltd	-	672600

B. Consultancy projects Ongoing

1	Cloning of spot blotch disease resistance gene in wheat	Biological Sciences	Dr. Rajesh Mehrotra	-	CIMMYT	-	*1500000 (In kind contribution)
2	English Translation of Two Literary works in Malayalam, Haritha Niroopanam Malayalathil (Green - Criticism in Malayalam) and Aa Aa Aanakkathakal (those	HSS	Dr. Rayson K Alex	-	Association for the study of Literature and Environment(USA)	-	70000
3	Environmental Audit (EA) for Ammonia, Urea, & Phosphate Fertilizers Units and Storage Sections.	Chemical Engineering	Dr. S. D. Manjare	-	M/s.Zuari Agro Chemicals Ltd	-	851000
4	Water Audit (WA) for Ammonia, Urea, & Phosphate Fertilizers Units and Storage Sections.	Chemical Engineering	Dr. S. D. Manjare	-	M/s.Zuari Agro Chemicals Ltd	-	851000

MDP Projects

A. Sanctioned

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	MDP on Urban Insurance for we for PNB Metlife official	Econimics	Dr. Debasis Patnaik	-	PNB MetLife	-	678972

MDP Projects

A. Completed

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	MDP workshop for PNB-MetLife	Economics	Dr. Debasis Patnaik	-	MDP for PNB-MetLife	-	199000

Hyderabad Campus

SPONSORED RESEARCH AND CONSULTANCY

1. PROJECTS SANCTIONED

Government Sanctioned							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
Department of Biological Sciences							
1	Deciphering the role of host-microbiota derived bile acids in programing immune cell function during intestinal inflammation	Biology	Dr. Trinath Jamma	-	CSIR	-	19,65,000
2	Probing the functional and regulatory role of m6A reversible RNA methylation in skeletal myogenesis and muscle wasting	Biology	Dr Piyush Khandelia	-	DST-SERB	-	55,58,360
3	Elucidating the role of long non coding RNAs (lncRNAs) in neuronal cell death during Japanese Encephalitis (JE)	Biology	Vivek Sharma	-	DBT	-	68,76,000
Department of Chemical Engineering							
4	Waste minimization and carbon capture with coal flyash doped sorbents-a two edged sword	Chem. Engg	Dr. I. Sreedhar	-	CSIR	-	18,80,000
5	Modeling the capacity loss in lithium ion batteries during cycling	Chem. Engg	Dr. Balaji K.	Dr. Vikranth K.Surasani	CSIR	-	23,50,000
6	Designing of potential adsorbent via molecular modelling and simulation for the high temperature CO	Chem. Engg	Dr. Angan Sengupta	-	DST	-	22,00,000
Department of Chemistry							
1	Beta-Glucan-Cholesterol interaction-MD simulation	Chemistry	DURBA ROY	-	SERB	-	36,70,000
2	Mechanofluorochromic Materials	Chemistry	Manab Chakravarty	-	SERB	-	28,80,000
3	DST Inspire Fellowship	Chemistry	Chanchal Chakraborty	-	DST INSPIRE	-	35,00,000
4	DST Inspire Faculty award	Chemistry	Amit A. Vernekar	-	DST	-	35,00,000
5	Women Scientist (Dr. Atasi Mukherjee Under Prof. Manab Chakravarty	Chemistry	Manab Chakravarty	-	WOS	-	31,55,000

Government Sanctioned							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
Department of Civil Engineering							
1.	Examination of binder loss in bituminous mixture for In-Service pavements	Civil Engineering	Prof. Sridhar Raju	Dr. Prasanta Sahu	Telangana Roads & Buildings	-	9,90,000
2.	Rainfall-Runoff Modelling for Lower Godavari Basin in a Changing Climate	Civil Engineering	Prof. K.Srinivasa Raju & Prof D.Nagesh Kumar	-	CSIR	Indian Institute of Science, Bangalore	20,00,000
3.	"Experimental and Computational studies of Surface Water Quality Parameters from Morphometry and Spectral Characteristics"	Civil Engineering	Dr. Jagadeesh Anmala	Dr. Murari R. R. Varma's & Dr. K Rajitha	CSIR	-	41,98,000
4.	Development of a comprehensive methodology to improve road traffic safety in Indian urban roadways based on advanced statistical techniques	Civil Engineering	Dr. Bandhan Majumdar	-	DST-SERB	-	11,39,000
5.	Congestion Pricing: Planning for optimal strategies and commuters behavioral implications under different pricing schemes	Civil Engineering	Dr. Prasanta Sahu	Dr. Bandhan Majumdar	SPARC-MHRD & UKERI	Cardiff University & New Castle University UK	42,00,000
6.	Prevention of Hazardous Field-Firing of Bagasse and Its Sustainable Utilization as a Raw Material in an Innovative Industrial Process	Civil Engineering	Dr. Srinivas Appari (Chemical Engg., BITS Pilani -Pilani	Dr. Bahurudeen A & Dr. Prasanta Sahu	SPARC-MHRD	Kyushu university Japan	32,00,000
Department of Computer Science and Information Systems							
1	MUT-DROCO: Multipath networking test-bed for Drone Communications	CSIS	Dr. Paresh Saxena	-	DST-SERB	-	22,00,000
2	Interpretation of Tuberculin Reaction Using Medical Photography and Computer Aided Diagnosis.	CSIS	Dr. Jabez Christopher	-	DST-SERB	-	9,94,400
Department of Electrical and Electronics Engineering							
1	Micro-plasma transistor for high temperature application	EEE	Karumbaiah C Chappanda	-	SERB	-	22,00,000
2	Automated IoT based Microfluidic Electrochemiluminescence ECL Biosensing platform for various biomarker detection".	EEE	Prasant Kumar Pattnaik	Sanket Goel	SERB	-	47,00,000
3	Design of High Power CW Magnetrons and investigations on strategies for their phase control	EEE	Joseph John (IIT B)	Harish V. Dixit	DST	-	52,00,000
4	Microfluidic Enzymatic Biofuel Cell for Energy Harvesting and Blood Parameters monitoring	EEE	Sanket Goel		DSIR	-	15,00,000
5	Fully Integrated Smartphone and IoT enabled Microfluidic Sensor for Real-time Quantification of Soil Macronutrients, Conductivity and pH	EEE	Satish Dubey	Sanket Goel and Ponnalagu R N	DST	-	27,98,000
6	Studies and Multiphysics Simulation of Mode Converters for Application in	EEE	Harish Dixit	Runa Kumari	DRDO	-	4,18,000

Government Sanctioned							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
	Directed Energy Weapons (DEWs)						
7	Design and development of an autonomus flow caliberation System for Fuel and Oxidizer injectors in Reaction Control System	ME	SS Deshmukh	Rajesh K Tripathy, Supradeepan K	DRDO	-	10,00,000
8	Organ on a chip for drug screening	EEE	Sanket Goel	Satish Dubey, Arshad Javed and Anasuya Ganguli (Goa)	DST	-	43,00,000
9	Indo-Norwegian collaboration in Autonomous Cyber-Physical Systems	EEE	Soumya J & Lingareddi C		Norwegian Research Council	-	42,43,000
10	Management of Distributed Energy Resources in Smart Cities: Challenges and Advanced Control Strategies, Accepted	EEE	Hitesh Mathur	Bijoy Mukherjee, Aivelu M Parimi	MHRD SPARC	-	42,56,000
11	MRI based non-invasive quantitative biomarker for Early diagnosis and prognosis of Brain Tumor	EEE	Venkateswar an R	BVVSN Prabhakara Rao, Prof. Yogeeswari, Dr. C.Kesavadas	DBT	-	23,99,000
Department of Economics and Finance							
1	Financial Inclusion through Urban Cooperative Banks: An Exploratory Study of Telangana State	Economics & Finance	Dr. Mini Thomas	-	IMPRESS-ICSSR	-	5,60,000
2	Does Financial Awareness lead to Better Financial Inclusion Outcomes? An Investigatio	Economics & Finance	Dr. Durgesh Ch Pathak	Dr. Rishi Kumar	IMPRESS-ICSSR	-	4,50,000
3	Impact of the ex-gratia for farmers' suicide on the surviving family member of the deceased farmers in Telangana	Economics & Finance	Dr. Thota Nagaraju	-	IMPRESS-ICSSR	-	4,00,000
4	Sustainability of Cashless Banking in Unorganized Retail Sector: A Comparative Study of Two Districts of Telangana	Economics & Finance	Dr. Archana Srivastava and Dr. Rishi Kumar	-	IIBF, Mumbai	-	2,50,000
5	Impact of Modern Organized Multi Brand Retail Trade (MOMBRT) on Street Vendors: Case Study of Two Capital Cities (Hyderabad and Bhubaneswar)	Economics & Finance	Dr. Archana Srivastava	-	ICSSR	-	4,50,000
Department of Humanities and Social Sciences							
1	Mainstreaming DRR and CCA into Government Departments	HSS	Biswanath Dash	Md Shahid Akther	AP HRDI/ Govt. of AP	-	1,20,000
2	A Study of Last Mile Connectivity in AP	HSS	Biswanath Dash	-	-	-	1,00,000
Department of Mechanical Engineering							
1	3D printing of graphene nanocomposites for energy storage applications	Mechanical	Dr Pavan Kumar P	-	SERB-ECR	-	24,00,000
2	Experimental Investigation on an Energy Efficient Thermal Management Technique for Hybrid Electric Vehicles (HEV)	Mechanical	Dr Santanu Prasad Datta	-	SERB-ECR	-	27,94,000
3	A Solar Assisted Combined Cooling, Heating and Power	Mechanical	Dr Santanu Prasad Datta	-	DST	-	38,50,000

Government Sanctioned							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
	Plant: An Alternate Rural Energy Source						
4	Harvesting energy from underwater ocean currents through coupled vortex-induced vibration, flapping dynamics, electromagnetic induction and piezoelectric effects	Mechanical	Dr PardhaSaradhi G V	-	SERB-SRG	-	27,36,000
5	Fully Integrated Smartphone and IoT enabled Microfluidic Sensor for Real-time Quantification of Soil Macronutrients	Mechanical	Dr Satish K Dubey	Prof.Sanket Goel, Dr. Ponnalagu	DST	-	27,98,000
6	Cardiac-Organ-on-Chip: Integrated Microfluidic Cardiac Platform for Drug Screening and Toxicity Detection.	Mechanical	Prof.Sanket Goel	Dr Satish K Dubey	DST	-	47,36,000
7	Machinability assessment and material characterization of Tungsten Heavy Alloy used in defense applications as KE penetrators"	Mechanical	Dr. Amrita Priyadarshini	Dr. C. P.Kiran	ARMREB (DRDO)	-	17,40,000
Department of Mathematics							
1	Cosmic Acceleration with Observational Constraints of the Universe in Modified Gravity	Mathematics	P. K. Sahoo	-	CSIR	-	2040528
Department of Pharmacy							
1	MRI based non-invasive quantitative biomarker for early diagnosis and prognosis of brain tumor Lakhs	Pharmacy	Dr. Venkateswaran	Dr. P. Yogeewari	DBT	-	30,00,000
2	Agro-homeopathy: Potential of homeopathy as a tool to manage phytopathogen / nematode complex for a sustainable agriculture	Pharmacy	Dr. Vidya sagar	Dr. A.Sajeli Begum	CCRH-AYUSH	-	30,32,000
3	Near-Infrared Light Degradable Nanomicellar ChemoPhotodynamic therapy using Aerobic Chlorin e6 Conjugate for Oropharyngeal Carcinomas	Pharmacy	Dr. Swati Biswas	-	DST-SERB-CRG	-	30,72,000
4	Bifunctional Gene-Expression Modulating Chemotherapeutic Agents as Improved Treatment Strategy for Cancer	Pharmacy	Dr. Balaram Ghosh	Dr. Swati Biswas	CSIR	-	29,00,000
5	Role of HDAC6 in pathogenesis of oral squamous cell carcinoma: regulation of IL-1beta, EMT and autophagy	Pharmacy	Dr. Onkar Kulkarni	Dr. Balaram Ghosh	ICMR	-	27,00,000
Department of Physics							
1	"Exceptional polynomials and their applications to Wigner Function"	Physics	KVS Shiv Chaitanya		SERB-DST		6,60,000

Industry Sanctioned Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
Department of Chemistry							
1	Preparation and characterization of electrode material for Lithium ion Batteries	Chemistry	Sounak Roy	-	HBL Power Systems Limited	-	7,00,000
2	Zinc Air Battery	Chemistry	Sounak Roy	Chanchal Chakraborty	HBL	-	13,50,000
Department of Civil Engineering							
1.	Evaluation of the efficiency of bacterial inclusions in concrete	Civil Engineering	Dr. A. Kar,	Prof. Sridhar Raju, Dr. Chandu Parimi, Dr. Jayati Ray Dutta	ALIENS Developers Ltd.	-	11,40,000
2.	Pedestrian Safety Evaluation in Hyderabad	Civil Engineering	Dr. Bandhan Majumdar	Dr. Prasanta Sahu	AIA Hyderabad	-	1,00,000
Department of Computer Science and Information Systems							
1	Network Coding with Deterministic Coefficients for Unreliable Networks	CSIS	Dr. Paresh Saxena	-	AnsuR Tech, Oslo, Norway	-	5,50,000
Department of Humanities and Social Sciences							
1	Understanding the commercialization of Breast Milk from Sociological Perspective	HSS	Dr Suchismita Satpathy	-	Awareness in Action, Hyd	-	1,87,000
Department of Mechanical Engineering							
1	Solid state electrolytes for Lithium-ion batteries	Mechanical	Dr Sujith R	-	HBL Power Systems Ltd	-	12,00,000
2	Automation of Sample Preparation Process for Pharmaceutical Application	Mechanical	Prof YVD Rao	-	Pharma Industry, Hyderabad	-	15,48,000
Department of Pharmacy							
1	Pharmacokinetic and pharmacodynamic evaluation of new chemical entities for ocular diseases	Pharmacy	Nirmal J	-	Incilia Therapeutics Pvt Ltd	-	8,14,000
2	Development & characterization of emulsion based drug product for the management of emetogenic cancer chemotherapy	Pharmacy	Dr. Akash Chaurasiya	-	Slayback Pharma	-	7,02,000
International Sanctioned Projects							
Department of Chemistry							
1	Develop of novel anti-leishmanial analogues loaded with novel nano- formulations	Chemistry	-	K V G Chandra Sekhar	DBT	-	13,00,000
Department of Civil Engineering							
1	Transport policy interventions to curb particulate matter emissions in Chandigarh	Civil Engineering	Prasanta Sahu	Dr. Bandhan Majumdar	GCRF UK	Cardiff University	25,50,000
Department of Electrical and Electronics Engineering							
1	Indo-Norwegian collaboration in Autonomous Cyber-Physical Systems	EEE	Soumya J & Lingareddi C	-	Norwegian Research Council	-	42,43,000
Department of Humanities and Social Sciences							
1	Assistant Coordinator for AARMS (Aptis Action Research Mentoring Scheme)	HSS	Dr Santosh Mahapatra	-	British Council	-	10,000 per day; duration not fixed

2	Role of Environmental Entropy Dysfunction in explaining interstate variation calorie intake	HSS	Dr Zakaria Siddiqui	-	University of South Australia	-	2,40,000
Department of Mechanical Engineering							
1	Benchmark Studies On Tornado Induced Wind Loads Between Different Tornado Simulators Worldwide	Mechanical	Prof.Masahiro Matsui (Tokyo Polytechnic University, Japan)	Dr Sabareesh G R (BITS-Pilani),	TPU-JURC	Prof.Partha Sarkar (Iowa State University, USA), Prof. Shuyang Cao (Tongji University, China)	9,00,000

Institute Sanctioned Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
Department of Chemical Engineering							
1.	Underwater Superoleophobic Surfaces for Oil/Water Separation	Chem.Engg	Dr. Nandini Bhandaru	-	ACRG	-	9,50,000
2.	"Synthesis of core-shell nanoparticles (CSNs) for photocatalytic reforming"	Chem.Engg	Dr. Satyapaul A. Singh	-	ACRG	-	10,00,000
Department of Chemistry							
1	Design of highly stable fluorescent metal-organic frameworks for iodine capture. Department: Chemistry	Chemistry	Dr. Himanshu Agarwal	-	ACRG	-	10,00,000
2	Synthesis of Highly Functionalized and Medicinally Potential Bioactive Heterocycles through Trifluoromethylative Cyclization Strategy	Chemistry	Tanmay Chatterjee	NA	ACRG	Dr. Balaram Ghosh	8,00,000
Department of Civil Engineering							
1	Road Safety Evaluation	Civil Engineering	Dr. Bandhan Majumdar	-	ACRG	-	8,00,000
Department of Computer Science and Information Systems							
1	Blockchain Enabled Solutions for Integration of MHR with Access Control and Personally Identifiable Information	CSIS	Dr. Subhrakanta Panda	-	ACRG	-	8,00,000
2	Investigation of the Effectiveness of Meta-Heuristic Techniques in Software Testing	CSIS	Dr. Subhrakanta Panda	-	RIG	-	2,00,000
3	Privacy Preserving Authentication Framework for e-Health Applications	CSIS	Dr. Odelu Vanga	-	RIG	-	2,00,000
4	How Should I Detect and Fix Code Smell? - Investigating Source Code, and Text Analytic Based Approaches to Find Structural Design Problems in Software Systems	CSIS	Dr. Lov Kumar	-	RIG	-	2,00,000
Department of Electrical and Electronics Engineering							
1	Direct growth of 2D materials by Chemical Vapor Deposition (CVD) on flexible substrates and its application in wearable electronics	EEE	Parikshit Sahatiya	-	-	-	10,00,000

Institute Sanctioned Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
2	RISC-V based Approximate Processor and its FPGA Prototype for Image processing Applications	EEE	Chetan Kumar V	-	-	-	4,70,000
3	Design and development of an AI-based Remote Fault Signature Analyzer (ReFSA) for condition monitoring of rotor bar failures in an Industrial electrical machine	EEE	Sudha Radhika	-	-	-	9,80,000
4	Black TiO ₂ nanotubes for detection and degradation of pollutants in drinking water	EEE	Karumbaiah C N	-	-	-	10,00,000
5	Development of a New Vegetable-Oil-Based Dielectric Fluid for Liquid-Filled Transformers	EEE	Mithun Mondal	-	-	-	8,00,000
6	Cleanroom free solution processed fabrication of flexible nanoelectronic devices for sensing applications	EEE	Parikshit Sahatiya	-	-	-	2,00,000
7	Detection of sleep related disorders from various physiological signals using multiscale analysis and deep neural network	EEE	Rajesh Kumar Tripathy	-	-	-	2,00,000
8	Design and Synthesis methodologies for CNFET-based Multi-Valued Logic Circuits.	EEE	Chetan Kumar V	-	-	-	2,00,000
9	Design and development of an instrumentation system to measure dynamic signals	EEE	. N. Ponnalagu	-	-	-	2,00,000
10	Synthesis of nano-porous metal oxide composite material for water splitting application	EEE	Karumbaiah C N	-	-	-	2,00,000
11	Design and Development of an optimized Electrical Interface for Smart Hybrid Microgrid and Energy Storage for Peak Load Saving	EEE	Ankur Bhattacharjee	-	-	-	2,00,000
12	Miniaturization and Enhancement of port isolation of MIMO antennas	EEE	Sourav Nandi	-	-	-	2,00,000
Department of Humanities and Social Sciences							
1	Wilde and Manto: A Comparative Study of Writers on Trial	HSS	Dr. Anhiti Patnaik	-	RIG	-	2,00,000
2	Disability in South India: A Cultural History of the Political Discourse	HSS	Shilpaa Anand	-	RIG	-	2,00,000
3	Nagarjuna and the Concept of Time	HSS	AK Jayesh	-	RIG	-	2,00,000

Institute Sanctioned Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
Department of Mechanical Engineering							
1	Flow induced vibration/flapping dynamics of multi-layered flexible foil in a uniform flow	Mechanical	Dr PardhaSaradhi G V	-	RIG	-	2,00,000
2	Investigation of the weldability of the mild steel during A-TIG welding	Mechanical	Dr Ravi shankerVidarth	-	RIG	-	2,00,000
3	Effect of inherent nonlinearities on operational failure of damaged structural elements	Mechanical	Dr Brajesh Kumar Panigrahi	-	RIG	-	2,00,000
4	Friction and Wear Investigation of Ceramic Coated Commercial Rotor	Mechanical	Dr Piyush Chandra Verma	-	RIG	-	2,00,000
5	Sustainable High Speed Micromachining Process Development for Thin Beam Manufacturing	Mechanical	Dr Kundan Kumar Singh	-	RIG	-	2,00,000
6	Numerical and Experimental Investigation of Insect/Bird Flight Inspired Flexible Flapping Wing Propulsion	Mechanical	Dr PardhaSaradhi G V	-	CRG	-	9,50,000
7	Investigation of the mechanical properties of A-TIG welded mild steel and Ti6Al4V alloy	Mechanical	Dr Ravi shankerVidarth	-	CRG	-	9,50,000
Department of Mathematics							
1	Modeling the Hydrodynamics of porous breakwaters in ports and harbors under irregular and multi-directional incident waves	Mathematics	Santanu Koley	-	ACRG	-	700000
2	Efficient reconstruction of boundary data using the method of fundamental solutions for the two-phase inverse Stefan problem	Mathematics	Dr. Guji Murali Mohan Reddy	None	ACRG	-	700000
Department of Pharmacy							
1	Fate of Drug Encapsulated Ultradeformable Lipid Vesicles after Subconjunctival Delivery	Pharmacy	Nirmal J	-	ACRG	-	10,00,000
2	Surface Modified Nanoparticulate Carrier System for the Effective Delivery of Antileukemic Drug	Pharmacy	Dr. Akash Chaurasiya	-	ACRG	-	10,00,000

Travel/Research Visit Grants				
S.No	Faculty Name	Department	Funding Agency	Amount Sanctioned (INR)
Department of Civil Engineering				
1	Dr. Bandhan Majumdar	Civil Engineering	SERB-DST	2,00,000
2	Dr. Prasanta Sahu	Civil Engineering	Volvo Research and Educational Foundation	2,35,000

2. ONGOING PROJECTS

Ongoing Government Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
Department of Biological Sciences							
1	Mechanistic basis of abnormal neurogenesis due to HSN1E-associated DNA methyltransferase 1 (Dnmt1) mutation and pharmacological intervention for phenotypic correction	Biology	Dr. Kommu Naga Mohan	-	DBT	-	68,40,000
2	Harnessing mucosal immunity towards improved resistance against tuberculosis.	Biology	Dr. Ruchi Jain Dey	-	DBT-Ramalinga-swamy Fellowship	-	32,50,000
3	Protein structure and stability modulation due to In-Cell and In-Vitro Crowding: Molecular insights on the origin of the effects of crowding	Biology	Ramakrishna Vadrevu	-	DST	-	54,00,000
4	Sequence based design and characterization of peptide-amyloid nano material: Exploring functionality	Biology	Ramakrishna Vadrevu	-	BRNS	-	29,70,000
5	Identification of the regulatory mechanisms executed by bile acids during inflammation induced colon cancer	Biology	Dr. Trinath Jamma	-	DST-SERB ECRA	-	43,00,000
6	Conditional pathogenesis: understanding why potentially beneficial rhizobacteria turn pathogenic under certain environmental conditions.	Biology	Dr. Sridev Mohapatra	-	DBT	-	45,00,000
7	Epigenetics of megabase-scale rRNA gene regulation and genomic instability of rDNA and telomeres	Biology	Dr. Gireesha T.M.	-	DST-SERB	-	38,00,000
8	Understanding the role of long non-coding RNAs (lncRNAs) in transforming growth factor-beta (TGF- β) pathway in Glioblastoma	Biology	Dr. Vivek Sharma	-	DST-SERB	-	47,00,000
Department of Chemical Engineering							
1	Composition of phenolic resin from two sources for their properties	Chem.Engg	Dr. Karthik C. V	Dr. Rameshbabu A	ASL (DRDO)	-	9,79,000
2	Reactive transport modeling & simulation of CO ₂ sequestration in deccan volcanic province	Chem.Engg	Dr. Vikranth K. Surasani	Dr. Balaji K	DST	-	21,74,000
3	Cracking of hydrocarbon fuel for a possible heat sink application	Chem.Engg	Dr. Srikanta Dinda	-	DRDL (DRDO)	-	40,65,000
4	Development of superomniphobic surfaces for self cleaning and anti-microbial applications	Chem.Engg	Dr. Nandini Bhandaru	-	DST-Inspire	-	35,00,000
Department of Chemistry							
1	Synthesis, Study of optical properties and Anti-cancer activity of di-substituted tetracyanoquinodimethane	Chemistry	Jayanty Subbalakshmi	-	DST	-	25,75,000
2	Photocatalytic reduction of CO ₂ to biofuels	Chemistry	Sounak Roy	-	CSIR	-	4,00,000

Ongoing Government Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
3	Efficacy of appropriately tailored biopolymer and carbonaceous adsorbents for the separation and recovery of Europium	Chemistry	N. Rajesh	-	DST SERB	-	29,59,000
4	Investigations on naphthalene and anthracene based phosphates/phosphates: important sources for alkene based new algeers and polyaryalkanes	Chemistry	Manab Chakravarty	-	CSIR	-	18,00,000
5	Beta-Glucan-Cholesterol interaction-MD simulation	Chemistry	Durba Roy	-	SERB	-	36,70,000
6	Mechanofluorochromic Materials	Chemistry	Manab Chakravarty	-	SERB	-	28,80,000
7	DST Inspire Fellowship	Chemistry	Chanchal Chakraborty	-	DST INSPIRE	-	35,00,000
8	DST Inspire Faculty award	Chemistry	Amit A. Vernekar	-	DST	-	35,00,000
9	Women Scientist (Dr. Atasi Mukherjee Under Prof. Manab Chakravarty	Chemistry	Manab Chakravarty	-	WOS	-	31,55,000
Department of Civil Engineering							
1	Multiobjective Evolutionary Approach for Solving Water Distribution Network Design Optimization	Civil Engineering	Prof. Vasana A.	Dr. Murari R. R. Varma	CSIR	-	18,46,000
2	Improving the seismic performance of dynamically similar buildings using damper connected control technique	Civil Engineering	Dr. Mohan. S.C.	-	DST - SERB	-	43,20,000
3	Performance Evaluation of Backfill Soils partially replaced with Building Derived Materials	Civil Engineering	Dr. Anasua GuhaRay	Dr. A. Kar, and Dr. N. James (IIT Ropar)	DST - SERB	-	24,43,000
4	Economic Construction Practice Using Bacterial Inclusions in Concrete to Improve its Durability	Civil Engineering	Dr. A. Kar,	Prof. Jayati Ray Dutta (Biology)	CSIR	-	1,70,000
5	Development of Pedestrian Facility Assessment Tool for Improving Pedestrian Safety Condition in Hyderabad	Civil Engineering	Dr. Bandhan Majumdar	Dr. Prasanta Kumar Sahu	Awareness in Action, Hyderabad	-	1,00,000
6	Coastal wetland Characterization using L and S bands of Polarimetric SAR data	Civil Engineering	Dr. Rajitha K.	-	ISRO	-	13,58,000
7	Examination of binder loss in bituminous mixture for In-Service pavements	Civil Engineering	Dr. Sridhar Raju	Dr. Prasanta Sahu	Telangana Roads & Buildings	None	9,90,000
Department of Computer Science and Information Systems							
1	Lightweight Code Self-verification for Internet of Things (IoT) Devices	CSIS	Chittaranjan Hota	Nil	MeitY	Herbert Bos, VU, Netherlands	42,94,000
2	MUT-DROCO: Multipath networking test-bed for Drone Communications	CSIS	Dr. Paresh Saxena	-	DST-SERB	-	22,00,000
3	Interpretation of Tuberculin Reaction Using Medical Photography and Computer Aided Diagnosis.	CSIS	Dr. Jabez Christopher	-	DST-SERB	-	9,94,400
Department of Electrical and Electronics Engineering							

Ongoing Government Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Metal-Oxide and Nano-Composite Based Low-Power Non-volatile Switching Device: A Novel Approach.	EEE	Souvik Kundu	Souri Banerjee	BRNS, DAE		35,56,000
2	Investigations of the effects of photon up-conversion materials on the electrical performance of ferroelectric/semiconductor heterojunction photovoltaic devices	EEE	Souvik Kundu	Kannan Ramaswamy and B. Venkat. Hariharan	SERB (EMR), DST		35,63,000
3	Strategies for Fault-Tolerant Network-on-Chip Design	EEE	Soumya J	S. K. Sahoo	ECR-SERB		25,93,000
4	Underwater Characterization of Solar cells and its Optimization	EEE	Sanket Goel	Radhika Sudha	DMSRDE, DRDO		9,85,000
5	Digital 3D Printed Electronic Technology for Space Electronic Packaging Applications	EEE	Sanket Goel	-	ISRO		26,36,000
6	Microfluidic Enzymatic Biofuel Cell for Energy Harvesting and Blood Parameters monitoring	EEE	Sanket Goel	-	DSIR		15,00,000
7	MRI based non-invasive quantitative biomarker for Early diagnosis and prognosis of Brain Tumor	EEE	Venkateswaran R	BVVSN Prabhakara Rao, Yogeewari, C.Kesavadas	DBT		23,90,000
8	Design and development of an autonomus flow calibration System for Fuel and Oxidizer injectors in Reaction Control System	EEE	SS Deshmukh	Rajesh K Tripathy, Supradeepan K	DRDO		10,00,000
9	Organ on a chip for drug screening	EEE	Sanket Goel	Satish Dubey and Arshad Javed	DST		40,00,000
10	Management of Distributed Energy Resources in Smart Cities: Challenges and Advanced Control Strategies, Accepted	EEE	Hitesh Mathur	Bijoy Mukherjee, Alivelu M Parimi	MHRD SPARC		42,56,000
11	Fully Integrated Smartphone and IoT enabled Microfluidic Sensor for Real-time Quantification of Soil Macronutrients, Conductivity and pH	EEE	Satish Dubey	Sanket Goel and Ponnalagu R N	DST		27,98,000
12	Characterization of Gyroscope for Defense Application	EEE	Satish Dubey	Sanket Goel, Arshad Javed	DRDO		5,30,000
13	Automated IoT based Microfluidic Electrochemiluminescence ECL Biosensing platform for various biomarker detection".	EEE	Prasant Kumar Pattnaik	Sanket Goel	SERB		47,00,000
Department of Economics and Finance							
1	Women's Employment, Interstate Variations and Time-use: A Comparative	HSS and Eco. & Finance	Dr. Sunny Jose and Dr. Bheemeshwar	-	Azim Premji University	-	11,88,000

Ongoing Government Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
	Study of Bihar and Andhra Pradesh		Reddy A (Joint PIs)				
Department of Humanities and Social Sciences							
1	Resistance to the Western Ghats Conservation and Undercurrents: A study of the people's protest and the role of the local bodies in Idukki, Kerala	-	Dr. Lavanya Suresh	-	Centre for Development Studies (CDS), Kerala	-	3,15,000
2	Alternative ways of understanding ecological conservation practices to enable justice for all	-	Dr. Lavanya Suresh	-	NALSAR, Hyderabad	-	2,95,000
3	Mainstreaming DRR and CCA into Government Departments	HSS	Biswanath Dash	Md Shahid Akther	AP HRDI/ Govt. of AP	-	1,20,000
Department of Mechanical Engineering							
1	Formability Study of Inconel 625 alloy at Elevated Temperatures for Aerospace Applications	Mechanical	Dr. Nitin Kotkunde	-	DST	-	31,43,000
2	Application of topology optimization to enhance energy efficiency and performance of industrial manipulator	Mechanical	Dr. Arshad Javed	-	DST	-	29,00,000
3	Cryogenically-Conditioned Micro and Nanoencapsulated Phase Change Material Slurries for Cool Thermal Energy Storage Applications	Mechanical	Dr.Parameshwaran	-	DST	-	27,76,000
4	Novel casting approach to improve quality of aluminum alloy casting	Mechanical	Prof. N.S.K. Reddy	-	DRDL	-	9,85,000
5	Hydrogen Storage in Mesoporous Polymer Derived Ceramics for Automotive Application	Mechanical	Dr. Sujith R	-	DST	-	42,38,000
6	Enhancement of Mechanical Properties of Ti-6Al-4V using Constrained Groove Pressing and Heat Treatment	Mechanical	Prof. A. K. Gupta	-	DRDO (ARMREB)	-	48,75,000
7	Design and development of an automated flow calibration system for fuel and oxidizer injectors reaction control system	Mechanical	Prof SS Deshmukh	Dr Supradeepan K	DRDO, CAS	-	10,00,000
8	Studies on wind resistant design for proposed Ligo India Observatory	Mechanical	Dr. Sabareesh GR	Dr. KRC Murthy & Dr. Rahul Nigam	IUCAA	-	45,02,000
9	Development of image processing based portable device to measure surface strains in sheet metal forming	Mechanical	Dr Kurra Suresh	-	DST	-	17,24 ,000
10	Sustainable technological solutions for energy efficiency in jaggery industry (STEEJ)	Mechanical	Prof.M. Srinivas	-	RAE	-	42,81,000
Department of Mathematics							
1	Development of an accurate and robust unstructured grid-based adjoint approach for	Mathematics	Anil Nemili	-	SERB - DST	-	15,90,600

Ongoing Government Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
	compressible turbulent flows						
2	Comparison of phase velocities of Rayleigh waves, Love waves and Torsional waves in various anisotropic geo-media	Mathematics	Sumit Kumar Vishwakarma	-	SERB - DST	-	13,66,800
3	Characterizing the sets of periodic points of automorphisms on a solenoid	Mathematics	Sharan Gopal	-	SERB - DST	-	19,98,480
4	Modeling the hydrodynamics of various wave energy converter devices in real sea conditions	Mathematics	Santanu Koley	-	DST-INSPIRE	-	35,00,000
Department of Pharmacy							
1	Strategies against antibiotic resistance in Mycobacterium tuberculosis and ESKAPE pathogens; new drugs and new targets	Pharmacy	Prof. D.Sriram	-	DBT	-	67,00,000
2	Advancing host-directed therapy for tuberculosis/MDR-TB: Development of novel PKB/AKT1 and Protein Kinase R inhibitors as an adjunctive treatment for tuberculosis	Pharmacy	Prof. D.Sriram	-	DBT TATA INNOVATION FELLOWSHIP	-	45,00,000
3	MRI based non-invasive quantitative biomarker for early diagnosis and prognosis of brain tumor	Pharmacy	Dr. Venkateswaran	P. Yogeewari	-	-	30,00,000
4	Investigation on pro-inflammatory cytokine inhibitory low molecular weight metabolites of Pseudomonas sp. ABS-36 for the treatment of renal injury	Pharmacy	Prof.A.Sajeli Begum	Dr. Onkar P. Kulkarni	DST	-	24,39,000
5	Development of smart capsule to target colorectal cancer	Pharmacy	VVK.Venuganti	Dr. Onkar P. Kulkarni	DST-SERB	-	55,00,000
6	Development of ocular drug delivery system	Pharmacy	VVK.Venuganti	Prashant Garg (LVPEI)	ICMR	-	42,00,000
7	Near-Infrared Light Degradable Nanomicellar ChemoPhotodynamic	Pharmacy	Swati Biswas	-	DST-SERB-CRG	-	30,72,000
8	Understanding the role of antimicrobial peptide S100A12 (Cangranulin C) mediated host defense in Pseudomonas keratitis and developing nano-tools for efficient delivery of S100A12	Pharmacy	Sanhita Roy	Swati Biswas	DST-SERB-CRG	-	55,01,000
9	Design, Synthesis and Biological Evaluation of HDAC3 Selective Inhibitors as Long Term Memory Enhancers	Pharmacy	Balaram Ghosh	Prof. Swati Biswas	DST-SERB	-	29,87,000
10	Bifunctional Gene-Expression Modulating Chemotherapeutic Agents as Improved Treatment Strategy for Cancer	Pharmacy	Balaram Ghosh	Prof. Swati Biswas	CSIR	-	29,00,000

Ongoing Government Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
11	Functional role of HDAC5 in chronic renal diseases	Pharmacy	Onkar Kulkarni		DBT	-	46,00,000
12	Determination of wound healing (Pro-angiogenic) properties of peptide conjugate	Pharmacy	Onkar Kulkarni		DRDO-INMAS	-	8,00,000
13	Role of HDAC6 in pathogenesis of oral squamous cell carcinoma: regulation of IL-1beta, EMT and autophagy	Pharmacy	Onkar Kulkarni	Balaram Ghosh	ICMR	-	26,00,000
14	Agro-homeopathy: Potential of homeopathy as a tool to manage phytopathogen / nematode complex for a sustainable agriculture	Pharmacy	Dr. Vidya sagar	Dr. A.Sajeli Begum	CCRH-AYUSH	-	30,32,000
Department of Physics							
1	Fundamental Physics in strong gravitational field of neutron stars	Physics	Prof. Sarmistha Banik	Dr. Asrarul Haque	DAE-BRNS	-	24,39,650
2	Quantum Gravity in Rindler space	Physics	Dr. Prasant Samantray	-	CSIR	-	15,46,000
3	Wind Noise mitigation in LIGO India	Mech	Dr. Sabareesh Geeta Rajasekharan	Dr. Rahul Nigam	IUCAA	-	45,00,000
4	Investigations of the effects of photon up conversion materials on the electrical performance of ferroelectric/ semiconductor heterojunction photovoltaic devices	EEE	Dr. Souvik Kundu	Prof B. Harihara Venkataraman	DST – SERB	-	35,00,000
Ongoing Industry Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
Department of Chemistry							
1	Preparation and characterization of electrode material for Lithium ion Batteries	Chemistry	Sounak Roy	-	HBL Power Systems Limited	-	7,00,000
2	Zinc Air Battery	Chemistry	Sounak Roy	Chanchal Chakraborty	HBL	-	13,50,000
Department of Civil Engineering							
1	Evaluation of the efficiency of bacterial inclusions in concrete	Civil Engineering	Dr. A. Kar	Prof. Sridhar Raju, Dr. Chandu Parimi, Dr. Jayati Ray Dutta	ALIENS Developers Ltd.	-	11,40,000
Department of Mechanical Engineering							
1	Study of lubrication method for enhanced surface finish and reduced draw load on cold draw steel tubes	Mechanical	Dr Varinder Singh	Prof. A. K. Gupta & Prof. S. P. Regalla	Tubes Investment India Ltd.	-	27,50,000
Department of Pharmacy							
1	Pharmacokinetic and pharmacodynamic evaluation of new chemical entities for ocular diseases	Pharmacy	Nirmal J		Incilia Therapeutics Pvt Ltd		8,14,000
2	Development & characterization of emulsion based drug product for the management of emetogenic cancer chemotherapy	Pharmacy	Dr. Akash Chaurasiya		Slayback Pharma		7,02,000

3	Identification of UGT-isoform specific substrates and inhibitors and their contribution in drug metabolism and systemic levels of bile secretions	Pharmacy	Dr. Punna Rao	-	Acubiosys Private Limited	-	11,75,000
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Ongoing International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
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Department of Chemistry

1	Develop of novel anti-leishmanial analogues loaded with novel nano-formulations	Chemistry	-	K V G Chandra Sekhar	DBT	-	13,00,000
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Department of Civil Engineering

1.	Implementation of plants and treated natural fibers to enhance the strength properties of soft soil and to decrease the rate of surface erosion (Nat-Treat)	Civil Engineering	Dr. Anasua GuhaRay & Dr. Wei Wu (University of Vienna, Austria)	Dr. A. Kar, and Dr. M. Acharya (University of Vienna, Austria)	Indo-Austria Scientific and Technological Cooperation between WTZ (Austria) and DST (India)	BOKU, University of Vienna, Austria	6,40,000
2.	Transport policy interventions to curb particulate matter emissions in Chandigarh	Civil Engineering	Dr. Prasanta Kumar Sahu	Dr. Bandhan Bandhu Majumdar and Prof. Ashoke Kumar Sarkar (Pilani Campus)	Global Challenge Research Fund - United Kingdom	Cardiff University	25,50,000
3.	Congestion Pricing: Planning for optimal strategies & commuters behavioral implications under different pricing schemes	Civil Engineering	Dr. Prasanta Kumar Sahu	Dr. Bandhan Majumdar and Prof. Asoke Kumar Sarkar (Pilani Campus)	SPARC - MHRD, Govt. of India	Cardiff University, New Castle University	42,00,000

Department of Electrical and Electronics Engineering

1	Development of Methodologies for Self-Aware Network-on-Chip Design (India-Austria)	EEE	Soumya J	Axel Jantch	DST-Austria	Austria	8,89,000
2	Indo-Norwegian collaboration in Autonomous Cyber-Physical Systems	EEE	Soumya J & Lingareddi C	-	Norwegian Research Council	Norway	42,43,000

Department of Humanities and Social Sciences

1	Role of Environmental Entro Dysfunction in explaining intestate variation calorie intake	HSS	Dr Zakaria Siddiqui	-	University of South Australia	-	2,40,000
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Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
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Department of Chemistry

1	Design of highly stable fluorescent metal-organic frameworks for iodine capture.	Chemistry	Dr. Himanshu Agarwal	-	ACRG	-	10,00,000
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Department of Civil Engineering

1	Shrinkage Properties of Concrete with Alkali - Activated Binder. (OPERA)	Civil Engineering	Dr. A. Kar,	-	OPERA	-	18,20,000
2	Performance assessment of agrowaste as supplementary	Civil Engineering	Dr. Bahurudeen	-	OPERA	-	18,20,000

Ongoing Institute Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
	cementitious materials (OPERA)						
3	Bicycle and Pedestrian Modelling in Hyderabad	Civil Engineering	Dr. Bandhan Majumdar	-	RIG	-	2,00,000
Department of Computer Science and Information Systems							
1	Blockchain Enabled Solutions for Integration of MHR with Access Control and Personally Identifiable Information	CSIS	Dr. Subhrakanta Panda	-	ACRG	-	8,00,000
2	Privacy Preserving Authentication Framework for e-Health Applications	CSIS	Dr. Odelu Vanga	-	RIG	-	2,00,000
3	How Should I Detect and Fix Code Smell? - Investigating Source Code, and Text Analytic Based Approaches to Find Structural Design Problems in Software Systems	CSIS	Dr. Lov Kumar	-	RIG	-	2,00,000
4	ReSeThIoT: Building Research Framework for Investigating Security Threats for Internet of Things over WiFi.	CSIS	Dr. Rajib Ranjan Maiti	-	RIG	-	2,00,000
5	Performance Evaluation and Behavioral Study of Trajectory and Discontinuous Methods based Metaheuristics.	CSIS	Dr Jabez Christopher	-	RIG	-	2,00,000
Department of Electrical and Electronics Engineering							
1	OPERA	EEE	Sayan Kanungo	-	BITS OPERA	-	3,60,000 per year
2	Simulation Design and Modelling of Vertical Heterostructure Transition Metal Dichalcogenides for Label-free Electrochemical Gas-sensing Applications	EEE	Sayan Kanungo	-	BITS RIG	-	2,00,000
3	Studies on the design of High Power, low loss power driver and combiner	EEE	Harish V Dixit	-	BITS RIG	-	2,00,000
4	Design and Implementation of Hardware Architectures for Media Processing Applications	EEE	Syed E Ahmed	-	BITS RIG	-	2,00,000
5	Condition Monitoring and Diagnosis of High Voltage Transmission Line Insulators Under the Influence of Extreme Environmental Conditions	EEE	Mithun Mondal	-	BITS RIG	-	2,00,000
6	Nano-Scale Power Management Interface Circuits for IoT Node	EEE	Saroj Mondal	-	BITS RIG	-	2,00,000
7	Wavelet based pattern recognition and motor current signature analysis of stator winding faults due to insulation	EEE	Sudha Radhika	-	BITS RIG	-	2,00,000

Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
	failure in industrial machines						
8	Simulation Design and Modelling of Vertical Heterostructure Transition Metal Dichalcogenides for Label-free Electrochemical Gas Sensing Applications	EEE	Sayan Kanungo	-	BITS RIG	-	2,00,000
9	Cleanroom free solution processed fabrication of flexible nanoelectronic devices for sensing applications	EEE	Parikshit Sahatiya	-	BITS RIG	-	2,00,000
10	Detection of sleep related disorders from various physiological signals using multiscale analysis and deep neural network	EEE	Rajesh Kumar Tripathy	-	BITS RIG	-	2,00,000
11	Design and Synthesis methodologies for CNFET-based Multi-Valued Logic Circuits.	EEE	Chetan Kumar V	-	BITS RIG	-	2,00,000
12	Design and development of an instrumentation system to measure dynamic signals	EEE	R. N. Ponnalagu	-	BITS RIG	-	2,00,000
13	Development of a New Vegetable-Oil-Based Dielectric Fluid for Liquid-Filled Transformers	EEE	Mithun Mondal	-	BITS CRG	-	8,00,000
14	Condition Monitoring and Diagnosis of High Voltage Transmission Line Insulators Under the Influence of Extreme Environmental Conditions	EEE	Syed E Ahmed	-	BITS RIG	-	2,00,000
15	Nano-Scale Power Management Interface Circuits for IoT Node	EEE	Mithun Mondal	-	BITS CRG	-	8,00,000
16	Wavelet based pattern recognition and motor current signature analysis of stator winding faults due to insulation failure in industrial machines	EEE	Saroj Mondal	-	BITS RIG	-	2,00,000
17	Direct growth of 2D materials by Chemical Vapor Deposition (CVD) on flexible substrates and its application in wearable electronics	EEE	Parikshit Sahatiya	-	BITS-CRG	-	10,00,000
18	RISC-V based Approximate Processor and its FPGA Prototype for Image processing Applications	EEE	Chetan Kumar V	-	BITS-CRG	-	4,70,000
19	Design and development of an AI-based Remote Fault Signature Analyzer (ReFSA) for condition monitoring of rotor bar failures in an Industrial electrical machine	EEE	Sudha Radhika	-	BITS-CRG	-	9,80,000
20	Black TiO ₂ nanotubes for detection and	EEE	Karumbaiah C N	-	BITS-CRG	-	10,00,000

Ongoing Institute Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
	degradation of pollutants in drinking water						
21	Synthesis of nano-porous metal oxide composite material for water splitting application	EEE	Karumbaiah C N	-	RIG	-	2,00,000
22	Design and Development of an optimized Electrical Interface for Smart Hybrid Microgrid and Energy Storage for Peak Load Saving	EEE	Ankur Bhattacharjee	-	RIG	-	2,00,000
23	Miniaturization and Enhancement of port isolation of MIMO antennas	EEE	Sourav Nandi	-	RIG	-	2,00,000
Department of Humanities and Social Sciences							
1	Identification of accents	HSS	Dr. Pranesh Bhargava	-	OPERA	-	2,00,000 (per year)
2	Political Ecology	HSS	Dr. Lavanya Suresh	-	OPERA	-	3,60,000 (per year)
3	Measuring Segregation in Hyderabad: Introspecting Multiple Indexes and Multiple Patterns	HSS	Dr. Suchismita Satpathy	-	RIG	-	2,00,000
4	A study of contemporary epistemological and ethicopolitical challenges confronting genomics research in India	HSS	Dr Aswathy Raveendran	-	RIG	-	2,00,000
Department of Mechanical Engineering							
1	An Indigenous Energy Efficient Thermal Management Strategy of Buildings for all Climatic Conditions across India	Mechanical	Dr.Santanu Datta P	-	BITS-ACRG	-	10,00,000
2	Design and Indigenous Development of a Biaxial Tensile Test Setup on Uniaxial Machine for Sheet Metal Forming	Mechanical	Dr.Nitin Kotkunde	-	BITS-ACRG	-	10,00,000
3	OPERA Project	Mechanical	Dr PardhaSaradhi G V	-	OPERA-BITS	-	20,70,000
4	Design and Development of 3D Printer for Carbon Fiber Reinforced Composites	Mechanical	Dr Kurra Suresh	-	BITS-ACRG	-	10,00,000
Department of Pharmacy							
1	Fate of Drug Encapsulated Ultradeformable Lipid Vesicles after Subconjunctival Delivery	Pharmacy	Nirmal J	-	ACRG	-	10,00,000
2	Optimization and characterization of deformable vesicle nanocarriers for ocular therapeutics	Pharmacy	Nirmal J	-	AIG	-	2,00,000
3	Surface Modified Nanoparticulate Carrier System for the Effective Delivery of Antileukemic Drug	Pharmacy	Dr. Akash Chaurasiya	-	ACRG	-	10,00,000
4	Development, Optimization and Characterization of	Pharmacy	Dr. Akash Chaurasiya	-	AIG	-	2,00,000

Ongoing Institute Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
	nanostructured carrier system for effective delivery of anticancer therapeutics						
Department of Physics							
1	Quantum theory of Black holes and Quasinormal nodes	Physics	Dr. Swastik Bhattacharya	-	BITS Pilani (RIG)	-	1,48,000

3. COMPLETED PROJECTS

Completed Government Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
Department of Chemistry							
1	Synthesis and Biological Activity of Various Triazoles as Effective Antifungal Agents	Chemistry	KVG Chandra Sekar	-	DBT	-	19,60,000
2	Finding Aggregation-induced emission active materials : design, synthesis and photophysical studies of sterically hindered triarylethenes and Tetraarylethenes	Chemistry	Manab Chakravarty	-	DST	-	38,38,000
3	Laboratory investigation and field application towards the effective defluoridation of water using appropriately tailored sorbents	Chemistry	N.Rajesh	-	DST	-	26,67,000
4	Towards metalloneurochemistry inside a niosome : a fluorescence spectroscopy approach	Chemistry	Amit Nag	-	DST	-	24,98,000
5	Photocatalytic NO _x abatement: From Mechanism and Materials Properties to Catalytic Performance	Chemistry	Sounak Roy	-	DST	-	24,48,000
6	Investigation of magneto-optical effect in composite magneto-plasmonic nanostructures for sensing applications	Chemistry	-	Balaji Gopalan	DST	-	33,20,000
7	Investigation of magneto-optical effect in composite magneto-plasmonic nanostructures for sensing applications	Chemistry	-	Krishnan Rangan	DST	-	33,20,000
8	Investigation of the folding of Cysteine-rich Neurotoxins in Ionic Liquid by Molecular Dynamics Simulation and Quantum Mechanical Calculations	Chemistry	Durba Roy	-	DST	-	25,23,000
9	CO ₂ capture from flue gases using regenerable solid adsorbents	Chemistry	-	Sounak roy	CSIR	-	24,50,000
Department of Civil Engineering							
1.	Basic Geotechnical Tests of Soil, Palamuru RangaReddy Lift Irrigation Scheme (PRLIS) and Dindi	Civil Engineering	Dr. Anasua GuhaRay, Prof. Sridhar Raju, Dr. A.	-	Government of Telangana	-	81,96,000

Completed Government Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
	Lift Irrigation Scheme (DLIS), Government of Telangana		Kar Dr. Mohan. S.C. Dr. Vinayaka Ram, Dr. Murari R R Varma, Dr. Jagadeesh Anmala				
Department of Electrical and Electronics Engineering							
1	Studies and Multiphysics Simulation of Mode Converters for Application in Directed Energy Weapons (DEWs)	EEE	Dr. Harish Dixit	Dr. Runa Kumari	RCI-DRDO	-	4,17,000
Department of Economics and Finance							
1	Determinants of Women Empowerment and Trickle-Down Effect of the Same on Children's Overall Educational and Health Development: Challenges, Effects and Intervention through Training	Economics & Finance	Dr. Sudatta Banerjee	Dr. Swati Alok	ICSSR	-	4,00,000
2	Investigation of Knowledge on Dengue Fever Followed by Education and its Post Impact Behavioral Changes Among the Rural Communities of Shameerpet Mandal of Ranga Reddy District of Telangana State	Pharmacy and Economics & Finance	Prof. A. Sajeli Begum	Dr. Swati Alok	ICMR/ICSSR	-	10,89,792
Department of Humanities and Social Sciences							
1	A Study of Last Mile Connectivity in AP	HSS	Biswanath Dash	-	AP HRDI/ Govt. of AP	-	1,00,000
Department of Mechanical Engineering							
1	Development of "Metamaterial Base Support" for isolating vibrations	Mechanical	Dr. Sabareesh	Prof YVD Rao	DRDO	-	13,80,000
2	Studies on remaining useful life prediction considering multi-component failures in a wind turbine using prognostic health monitoring techniques	Mechanical	Dr. Sabareesh	-	DST	-	26,04,000
3	Automated Ultraviolet-C Sterilization Robot	Mechanical	Dr Arshad Javed	-	BIRAC	-	15,00,000
Department of Mathematics							
1	Development of an encryption algorithm for secure transmission of color images	Mathematics	Manish Kumar	-	SERB-DST	-	1508000
Department of Pharmacy							
1	Design and synthesis & biological evaluation of Mycobacterium tuberculosis serine/threonine protein kinase (BPknB) inhibitors	Pharmacy	Prof. D.Sriram	-	DST	-	27,61,000
2	Investigation of Knowledge on Dengue Fever Followed by Education and its Post Impact Behavioral Changes Among the Rural Communities of Shameerpet Mandal of Ranga Reddy District of Telangana State	Pharmacy	Prof.A.Sajeli Begum	Dr.Swati Alok	ICMR-ICSSR	-	10,89,000

Completed Government Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
3	UK-India Centre for Advanced Technology for Minimization of indiscriminate use of Antibiotics (UKICAT-MA)	Pharmacy	Dr. Prashant Garg	VVK Venuganti	DBT-MRC	-	45,00,000
4	Role and regulation of IL-1beta in diabetic wound healing and regeneration	Pharmacy	Onkar Kulkarni	-	DST-SERB	-	26,00,000

Completed Industry Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
Department of Chemistry							
1	Synthesis of Iron Oxide Nanoparticles for Propellant Applications	Chemistry	Balaji Gopalan	-	Premier Explosives	-	12,15,000
Department of Civil Engineering							
1.	Rehabilitation and Upgrading to 2-lanes/2-lane with paved shoulder configuration and strengtheninh of Birpur-Bihpur section of NH-106 in the state of Bihar under Phase 1 of NHIP on EPC basis	Civil Engineering	Dr. Mohan. S.C, Prof. Sridhar Raju Prof. P N Rao, Dr. Chandu. Parimi, Dr. Anasua GuhaRay	-	IL&FS Engineering and Construction Company Ltd	-	9,50,000
Department of Computer Science and Information Systems							
1	Network Coding with Deterministic Coefficients for Unreliable Networks	CSIS	Dr. Paresh Saxena	-	AnsuR Tech, Oslo, Norway	-	5,50,000
Department of Mechanical Engineering							
1	Simulation and Modelling to Minimize Porosity Level in Aluminium Castings by using Ultrasonic Stir Casting	Mechanical	Prof. N. S. K. Reddy	-	L & N Structural Engineers (P) LTD	-	8,03,000
2	Heat Transfer Enhancement Study of Li-ion Battery Pack (Phase-1)	Mechanical	Prof. Jeevan Jaidi	-	HBL Power Systems Ltd., Hyderabad	-	5,31,000

Completed International Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
Department of Civil Engineering							
1	Evaluating the market potential and policy context for battery electric buses in Indian cities	Civil Engineering	Dr. Bandhan Bandhu Majumdar	-	GCRF-HEFCW	-	12,54,000

Completed Institute Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
Department of Electrical and Electronics Engineering							
1	Development of Microfluidic Enzymatic Biofuel Cell	EEE	Sanket Goel	-	BITS RIG	-	2,00,000
Department of Humanities and Social Sciences							
1.	A Study of DM Plan in India	HSS	Biswanath Dash	-	BITS	-	2,00,000

Completed Institute Projects							
S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
2.	An Evaluative Study of ESP Programmes in India	HSS	Dr Santosh Mahapatra	-	BITS	-	1,70,000
Department of Mechanical Engineering2.							
1	Linear contraction measurement in aluminum alloys during solidification	Mechanical Engineering	Dr. Pavan Kumar P	-	BITS-RIG	-	2,00,000
2	An Energy Efficient Regenerative Evaporative Cooling (REC) System for Building Air-Conditioning with Cross and Counter-Flow Configuration	Mechanical Engineering	Dr.Santanu Datta P	-	BITS-RIG	-	2,00,000
3	Experimental and Numerical Studies on Part Quality in Incremental Forming at Elevated Temperatures	Mechanical Engineering	Dr.Kurra Suresh	-	BITS-RIG	-	2,00,000
Department of Computer Science and Information Systems							
1	Investigation of the Effectiveness of Meta-Heuristic Techniques in Software Testing	CSIS	Dr. Subhrakanta Panda	-	RIG	-	2,00,000
2.	Designing an Attribute Enhanced Spatially and Temporally Aware Role Based Access Control (AESTARBAC) Model for Electronic Healthcare Systems	CSIS	Dr. Barsha Mitra	-	RIG	-	2,00,000

MEMBERS OF VARIOUS BODIES AND COMMITTEES OF THE INSTITUTE

(A) GENERAL BODY

Chancellor:

Dr. Kumar Mangalam Birla

Pro-Chancellor:

Smt. Shobhana Bhartia

Founding Member:

Shri B.K. Birla[#]

Vice-Chancellor, BITS:

Prof. Souvik Bhattacharyya

Members admitted by General Body:

Shri Chandramauli Balan

Shri Sidharth Birla

Shri Tridib Kumar Das

Prof. Asis Datta

Smt. Manjushree Khaitan

Shri Hemant Kumar

Prof. L.K. Maheshwari

Alumni Term Members:

Prof. D. Balasubramanian

Shri Raju Reddy

Representative of MHRD, Govt. of India:

Shri Sukhbir Singh Sandhu

Representative of UGC:

Vacant

Representative of CSIR:

Vacant

Representative of AICTE:

Dr. S.K. Chopra

Representative of FICCI:

Shri Anand Sudarshan

Non-Member Secretary:

Shri Ernest Samuel Ratnakumar J, Registrar

(B) BOARD OF GOVERNORS

Chancellor:

Dr. Kumar Mangalam Birla

Pro-Chancellor:

Smt. Shobhana Bhartia

Honorary Treasurer:

Vacant

Vice-Chancellor of BITS:

Prof. Souvik Bhattacharyya

Director of Campuses by rotation:

Prof. Ashoke Kumar Sarkar^{*}

Nominee of AICTE:

Prof. Rajive Kumar

Nominees of the Government of India:

Shri R. Subrahmanyam

Nominees of the BET:

1. Shri Sidharth Birla

2. Shri Hemant Kumar

Members selected by the General Body:

Vacant

Members coopted by the Board of Governors:

1. Smt. Manjushree Khaitan

2. Shri D. Bhattacharya

Nominee of the Zuari Industries Limited:

Shri Akshay Poddar

Non-Member Secretary:

Shri Ernest Samuel Ratnakumar J, Registrar

[#] Expired 3rd July 2019

(C) FINANCE COMMITTEE

Chancellor:

Dr. Kumar Mangalam Birla

Honorary Treasurer:

Vacant

One Person nominated by the Board:

Vacant

One Person nominated by the BET:

Shri Hemant Kumar

Vice-Chancellor:

Prof. Souvik Bhattacharyya

Registrar:

Shri Ernest Samuel Ratnakumar J
Member-Secretary

(D) BUILDING AND WORKS COMMITTEE

Chairman (Vice-Chancellor):

Prof. Souvik Bhattacharyya

Members:

Director, Pilani Campus:

Prof. Ashoke Kumar Sarkar*

Director, Hyderabad Campus:

Prof. G. Sundar

Mr. Anand K Patil, K.K. Birla Goa Campus will be special invitee to the committee

Director, K.K. Birla Goa Campus:

Prof. G. Raghurama

Nominated members (2):

Vacant

Member-Secretary:

Shri Ernest Samuel Ratnakumar J, Registrar

(E) PURCHASE COMMITTEE

Convenor:

Unit Chief, CPU:

Prof. N.V. Muralidhar Rao

Members:

Director:

Prof. Ashoke Kumar Sarkar*

Dean, Administration:

Prof. Sanjay Kumar Verma

Head, Accounts & Finance:

Shri Satyen Sharma

(F) FACULTY SELECTION COMMITTEES

1. Institute Level Selection Committee:

- Vice-Chancellor (or his nominee) – Chairman
- At least two external experts in the concerned discipline
- Directors of the BITS campuses
- One of the Chairmen of the Department Level Shortlisting committees from one of the campuses in the concerned Department/Discipline
- Dean of Faculty Affairs – Convenor
- Associate Dean(s) of Faculty Affairs - Invitees

2. Institute Level Shortlisting Review Committee:

- Vice-Chancellor (or his nominee) - Chairman
- Directors of the BITS campuses
- Dean of Faculty Affairs - Convenor

3. Campus Level Shortlisting Review Committee (one for each of the campuses)

- Director of the campus - Chairman
- 2 or more Senior Professors or Professors – to be identified by the campus Director
- Associate Dean of Faculty Affairs of the campus – Convenor

4. Department Level Application Shortlisting Committee (at least 3 members) (one for each campus and for each discipline)

- Chairperson – to be nominated by the campus Director from amongst:
 - (a) The HODs, if he/she is a Senior Professor or Professor, ELSE
 - (b) Any Senior Professor or Professor from the Department, ELSE
 - (c) Any Senior Professor or Professor from a related discipline, ELSE
 - (d) Any Senior Professor or Professor from the campus
- All other Senior Professors, Professors and Associate Professors from the Department,
- Additionally up to two Senior Professors or Professors from the campus if the members above are fewer than 3- to be nominated by the campus Director.

Note: The shortlisting committee will seek the views of all faculty members in the department in its effort to shortlist or not shortlist a candidate by having them express their opinion at any time, but particularly during the audio-visual interaction with the candidate.

MEMBERS OF THE SENATE

Chairman (Vice-Chancellor):

Prof. Souvik Bhattacharyya (Sr. PROF)

Vice-Chairman (Director, Pilani Campus):

Prof. Ashoke Kumar Sarkar*

Secretary:

Mr. Ernest Samuel Ratnakumar J

Directors:

Prof. Ranendra N. Saha (Sr. PROF), Dubai Campus

Prof. G. Raghurama (Sr. PROF), K.K. Birla Goa Campus

Prof. G. Sundar (Sr. PROF.), Hyderabad Campus & Off-Campus Programmes & Industry Engagement

Deans:

Institute Wide Deans:

Prof. Arya Kumar, Pilani Campus

Prof. A.P. Singh, Pilani Campus

Prof. S. Gurunaryanan, Pilani Campus

Prof. S. Balasubramaniam[®], Pilani Campus

Prof. Sunil Bhand, K.K. Birla Goa Campus

Prof. Srinivas Krishnaswamy, K.K. Birla Goa Campus

Prof. Suman Kapur (Sr. PROF), Hyderabad Campus

Prof. Sourj Banerjee, Hyderabad Campus

Campus Specific Deans:

Pilani Campus

Prof. Sanjay Kumar Verma

K.K. Birla Goa Campus

Prof. Dhananjay M. Kulkarni

Hyderabad Campus

Prof. Niranjana Swain

Associate Deans:

Pilani Campus

1. Prof. Suresh Gupta (ASOP), Academic-Undergraduate Studies
2. Prof. Jitendra Panwar, Academic-Graduate Studies & Research
3. Prof. Anshuman Dalvi, Faculty Affairs
4. Prof. Navneet Gupta (ASOP), Sponsored Research and Consultancy Division
5. Prof. Dalip Kumar, International Programmes and Collaboration
6. Prof. P. Srinivasan (ASOP), Work Integrated Learning Programmes

7. Prof. Hitesh Datt Mathur (ASOP), Work Integrated Learning Programmes
8. Prof. Anil B. Gaikwad (ASOP), Practice School
9. Prof. Srikanta Routroy, Student Welfare
10. Prof. Rajeev Sakhuja (ASOP), Alumni Relations

Off-Campus Centre

1. Prof. Annapoorna Gopal (ASOP), Practice School, Bangalore
2. Prof. G. Venkiteswaran (ASOP), Work Integrated Learning Programmes, Chennai
3. Prof. P.B. Venkataraman (ASOP), Work Integrated Learning Programmes, Hyderabad

K.K. Birla Goa Campus

1. Prof. K.R. Anupama, Practice School
2. Prof. Neena Goveas, Academic-Undergraduate Studies
3. Prof. Bharat M. Deshpande, Academic-Graduate Studies & Research
4. Prof. C.K. Ramesha (ASOP), Student Welfare
5. Prof. Sutapa Roy Ramanan, Faculty Affairs

6. Prof. Raghunath A. Ratabole (ASOP), Work Integrated Learning Programmes
7. Prof. Narendra Nath Ghosh, Information Processing Centre
8. Prof. Veeky Baths (ASOP), Alumni Relations
9. Prof. Meenal Kowshik, Sponsored Research and Consultancy Division

Hyderabad Campus

1. Prof. Bivudutta Mishra (ASOP), Information Processing Centre
2. Prof. Sandip Shridharrao Deshmukh (ASOP), Student Welfare
3. Prof. P. Sankar Ganesh (ASOP), Practice School
4. Prof. Meenakshi Viswanathan (ASOP), Alumni Relations

5. Prof. Venkata Vamsi Krishna Venuganti, Academic-Graduate Studies & Research
6. Prof. Vidya Rajesh, Faculty Affairs
7. Prof. Punna Rao Ravi (ASOP), Work Integrated Learning Programmes
8. Prof. A. Vasana, Academic-Undergraduate Studies
9. Prof. Anupam Bhattacharya (ASOP), Sponsored Research and Consultancy Division

* Till December 20, 2019 ® Till September 10, 2019

Dubai Campus

1. Prof. Kumar Karuppusamy, Academic-Undergraduate Studies
2. Prof. Priti Bajpai, Student Welfare
3. Prof. Ramachandran Anand Kumar, Practice School
4. Prof. Ramanujam Karthikeyan, Academic-Graduate Studies & Research

Professors (PROF):**Pilani Campus**

1. Prof. Debashish Bandyopadhyay
2. Prof. Surekha Bhanot
3. Prof. Anil Kumar Bhat
4. Prof. Ashis Kumar Das
5. Prof. Navneet Goyal
6. Prof. Anu Gupta
7. Prof. Rajiv Gupta (Sr. PROF)
8. Prof. Rajiv Kumar
9. Prof. Rashmi Ranjan Mishra
10. Prof. Janardan Prasad Misra
11. Prof. Sudeept Mohan
12. Prof. Bandi Venkata Prasad
13. Prof. N.V. Muralidhar Rao
14. Prof. Ram Kinkar Roy
15. Prof. Kuldip Singh Sangwan
16. Prof. Chandra Shekhar (Sr. PROF)
17. Prof. Shamsher Bahadur Singh
18. Prof. R. Mahesh
19. Prof. Rahul Banerjee (EoL)
20. Prof. S C Sivasubramanian
21. Prof. Bijay Kumar Rout
22. Prof. Balram Dubey
23. Prof. H R Jadhav
24. Prof. P R Deepa
25. Prof. Debi Datt Pant
26. Prof. Anil Kumar
27. Prof. Sindhu S

K.K. Birla Goa Campus

1. Prof. Aditya Prasad Koley
2. Prof. Arun Venkatesh Kulkarni
3. Prof. Ashwin Srinivasan
4. Prof. Bhavana P.
5. Prof. Dibakar Chakrabarty
6. Prof. Dipankar Pal
7. Prof. Mukund Keshavrao Deshmukh
8. Prof. Patincharath Nandakumar
9. Prof. Pravin Madanrao Singru
10. Prof. Utpal Roy
11. Prof. Vijayashree Nayak

Hyderabad Campus

1. Prof. Addepalli Ramu
2. Prof. Aranya B. Bhattacharjee
3. Prof. Chittaranjan Hota
4. Prof. D. Sriram
5. Prof. Jaideep Chatterjee
6. Prof. K. Sumithra
7. Prof. Komaragiri Srinivasa Raju
8. Prof. M.B. Srinivas
9. Prof. N. Rajesh
10. Prof. N. Suresh Kumar Reddy
11. Prof. P. Yogeeswari
12. Prof. P.N.K. Rao
13. Prof. Ramakrishna Vadrevu
14. Prof. Srinivasa Prakash Regalla
15. Prof. Subit Kumar Saha

Dubai Campus

1. Prof. Karthiyayini Sridharan
2. Prof. Periasamy Chinnapalaniandi
3. Prof. Krishna Kumar Singh
4. Prof. Udayakumar Rajamanickam
5. Prof. Sangili Vadivel
6. Prof. Vijayakumar Balakrishnan
7. Prof. Adhir Baran Chattopadhyay
8. Prof. Ramadoss Roop Kumar
9. Prof. Thoppil George Thomas
10. Prof. Neeru Sood

Associate Professors (ASOP):**Pilani Campus**

1. Prof. A R Asati
2. Prof. Abhijeet Keshao Rao Digalwar
3. Prof. Ajay Kumar Sah (ASOP)
4. Prof. Ambatipudi Vamsidhar
5. Prof. Anita Ramachandran
6. Prof. Anupam Singhal
7. Prof. Arun Maity
8. Prof. Arvind Kumar Sharma
9. Prof. Banasri Roy
10. Prof. Benu Madhab Gedam
11. Prof. Bharti Khungar
12. Prof. Brajabandhu Mishra
13. Prof. Chandra Shekhar
14. Prof. Chetana Anoop Gavankar
15. Prof. Devendra Kumar
16. Prof. Devika
17. Prof. Dheerendra Singh
18. Prof. Dipendu Bhunia
19. Prof. G S Chauhan
20. Prof. Gopala Krishna Koneru
21. Prof. H. Viswanathan
22. Prof. Hari Om Bansal
23. Prof. Holkundkar Amol Ramdas Shilpa
24. Prof. I.R. Laskar
25. Prof. Indresh Kumar
26. Prof. J N Bandyopadhyay

- | | |
|---------------------------------------|-------------------------------------|
| 27. Prof. K Venkatasubramanian | 50. Prof. Sangeeta Sharma |
| 28. Prof. Karunesh Kumar Gupta | 51. Prof. Satya Sudhakar Yedlapalli |
| 29. Prof. Krishnamurthy Bindumadhavan | 52. Prof. Shamik Chakraborty |
| 30. Prof. Kumar Neeraj Sachdev | 53. Prof. Shekhar Rajagopalan |
| 31. Prof. Leela Rani | 54. Prof. Sheth Pratik N |
| 32. Prof. Lucy J. Gudino | 55. Prof. Shibasish Chowdhury |
| 33. Prof. Madhukar Mishra | 56. Prof. Shilpi Garg |
| 34. Prof. Madhushree Sarkar | 57. Prof. Sidharth Misra |
| 35. Prof. Manoj Kumar | 58. Prof. Smita Raghuvanshi |
| 36. Prof. Manoj Kumar Soni | 59. Prof. Sugata Ghosal |
| 37. Prof. Mukesh Kumar Rohil | 60. Prof. Suresh Kumar |
| 38. Prof. Niladri Sarkar | 61. Prof. Surojit Pande |
| 39. Prof. P K H Keskar | 62. Prof. Sushila Shekhawat |
| 40. Prof. Pushp Lata | 63. Prof. T Venkateswara Rao |
| 41. Prof. Rajdeep Chowdhury | 64. Prof. Tapomoy Guha Sarkar |
| 42. Prof. Rajeev Taliyan | 65. Prof. Udayan Chanda |
| 43. Prof. Rajesh Prasad Mishra | 66. Prof. Uma S Dubey |
| 44. Prof. Rakesh Choubisa | 67. Prof. V Manjuladevi |
| 45. Prof. Rakhee | 68. Prof. Virendra S Nirban |
| 46. Prof. Ravi Kant Mittal | 69. Prof. Vishal Saxena |
| 47. Prof. S Gangopadhyay | 70. Prof. Yashvardhan Sharma |
| 48. Prof. S Murugesan | 71. Prof. Y V K Ravi Kumar |
| 49. Prof. Sandeep Kayastha | |

K.K. Birla Goa Campus

- | | |
|---------------------------------------|---|
| 1. Prof. Alamelu Geetha Krishnamurthy | 20. Prof. Debasis Patnaik |
| 2. Prof. Amalin Prince A. | 21. Prof. Dhanumjaya Palla |
| 3. Prof. Amrita Chatterjee | 22. Prof. Gaurav Dar |
| 4. Prof. Anasuya Ganguly | 23. Prof. Geetha Bakilapadavu |
| 5. Prof. Anita Bhagirathi Agrawal | 24. Prof. Judith Maria Braganca |
| 6. Prof. Anjan Chattopadhyay | 25. Prof. Kundan Kumar |
| 7. Prof. Basabdatta Bhattacharya | 26. Prof. Mainak Banerjee |
| 8. Prof. Basavadatta Mitra | 27. Prof. Mridula Goel |
| 9. Prof. Biju K. Raveendran Nair | 28. Prof. Prasanna Kumar Nekkare |
| 10. Prof. Chandradew Sharma | 29. Prof. Prasanta Kumar Das |
| 11. Prof. Rabi Narayan Panda | 30. Prof. Senthamarai Kannan Ethirajulu |
| 12. Prof. Raghu Nath Behera | 31. Prof. Shalini Upadhyay |
| 13. Prof. Rajesh Mehrotra | 32. Prof. Shibu Clement |
| 14. Prof. Ram Shanker Patel | 33. Prof. Sumit Biswas |
| 15. Prof. Ranjan Dey | 34. Prof. Tarkeshwar Singh |
| 16. Prof. Rudra Prasad Pradhan | 35. Prof. Teny Theresa John |
| 17. Prof. Sampatrao Dagu Manjare | 36. Prof. Vijay Madhukar Patankar |
| 18. Prof. Sandhya Mehrotra | 37. Prof. Waigaonkar Sachin Damodharrao |
| 19. Prof. Sanjay Kumar Sahay | |

Hyderabad Campus

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| 2. Prof. A. Ramesh Babu | 20. Prof. Kumar Pranav Narayan |
| 3. Prof. Alivelu Manga Parimi | 21. Prof. M.G. Prasuna |
| 4. Prof. Amit Nag | 22. Prof. Morapakala Srinivas |
| 5. Prof. Aravinda N. Raghavan | 23. Prof. N L Bhanu Murthy |
| 6. Prof. Arti Dhar | 24. Prof. Onkar P. Kulkarni |
| 7. Prof. Aruna Malapati | 25. Prof. Pradyumn Kumar Sahoo |
| 8. Prof. B. Harihara Venkataraman | 26. Prof. R. Gururaj |
| 9. Prof. Balaji Krishnamurthy | 27. Prof. R. Krishnan |
| 10. Prof. BVVSN Prabhakar Rao | 28. Prof. Raghunathan Rajasekaran |
| 11. Prof. G. Geethakumari | 29. Prof. Ramakrishnan Ganesan |
| 12. Prof. I. Sreedhar | 30. Prof. S K Sahoo |
| 13. Prof. Jagadeesh Anmala | 31. Prof. Sarmistha Banik |
| 14. Prof. Jayanty Subbalakshmi | 32. Prof. Shilpa Anand |
| 15. Prof. Jayati Ray Dutta | 33. Prof. Sounak Roy |
| 16. Prof. Jeevan Jaidi | 34. Prof. Subhash Narayan Karbelkar |
| 17. Prof. K.V.G. Chandrasekhar | 35. Prof. Swati Biswas |
| 18. Prof. Kannan Ramaswamy | 36. Prof. V Vinayaka Ram |
| | 37. Prof. Y.V. Daseswara Rao |

Dubai Campus

1. Prof. Bharat Bhushan Gulyani
2. Prof. Kavita Sunil Jerath
3. Prof. Geetha Kannan
4. Prof. Maneesha
5. Prof. Jagadish Nayak
6. Prof. Mary Lourde Regeena
7. Prof. Trupti Swarup Gokhale
8. Prof. Tapan Kumar Datta
9. Prof. Mullapudi Venkata Nagasankaram
10. Prof. Ramachandran Subramanian
11. Prof. Kalaichelvi Venkatesan
12. Prof. Prakash Kumar Beri
13. Prof. Suhel Ahmad Khan
14. Prof. Somasundaram Arumugam

Heads of Departments:**Pilani Campus**

1. Prof. Prabhat Nath Jha (ASOP), Biological Sciences
2. Prof. Hare Krishna Mohanta (ASOP), Chemical Engineering
3. Prof. Saumi Ray (ASOP), Chemistry
4. Prof. Anshuman (ASOP), Civil Engineering
5. Prof. Poonam Goyal (ASOP), Computer Science & Information Systems
6. Prof. Arun Kumar Giri (ASOP), Economics & Finance
7. Prof. V.K. Chaubey , Electrical & Electronics Engineering
8. Prof. S.K. Choudhary (ASOP), Humanities & Social Sciences
9. Prof. Jyoti (ASOP), Management
10. Prof. B.K. Sharma (ASOP), Mathematics
11. Prof. Mani Sankar Dasgupta , Mechanical Engineering
12. Dr. Paul Atish Tulshiram (ASTP), Pharmacy
13. Prof. Raj Kumar Gupta (ASOP), Physics

K.K. Birla Goa Campus

1. Prof. Saroj S. Baral (ASOP), Chemical Engineering
2. Prof. Halan Prakash (ASOP), Chemistry
3. Prof. Aswini Kumar Mishra (ASOP), Economics
4. Dr. Jajati Keshari Sahoo (ASTP), Mathematics
5. Prof. Srikanth Mutnuri , Biological Sciences
6. Prof. Vinayak Shashikant Naik, Computer Science & Information Systems
7. Prof. Reena Cheruvalath (ASOP), Humanities & Social Sciences
8. Dr. Ranjit Shankarrao Patil (ASTP), Mechanical Engineering
9. Prof. Radhika Vathsan (ASOP), Physics
10. Prof. Abhijit Jayant Pethe (ASOP), Electrical & Electronics Engineering

Hyderabad Campus

1. Prof. Naga Mohan Kommu (ASOP), Biological Sciences
2. Prof. Srikanta Dinda (ASOP), Chemical Engineering
3. Prof. Manab Chakravarty (ASOP), Chemistry
4. Prof. Sridhar Raju (ASOP), Civil Engineering
5. Prof. Tathagata Ray (ASOP), Computer Science & Information Systems
6. Dr. Sudatta Banerjee (ASTP), Economics & Finance
7. Prof. Sanket Goel (ASOP), Electrical & Electronics Engineering
8. Dr. Biswanath Das (ASTP), Humanities & Social Sciences
9. Prof. Dipak Kumar Satpathi (ASOP), Mathematics
10. Prof. Amit Kumar Gupta, Mechanical Engineering
11. Prof. A. Sajeli Begum (ASOP), Pharmacy
12. Prof. P.K. Thiruvikraman, Physics

Dubai Campus

1. Prof. Vijaya Ilango (ASOP), General Sciences
2. Dr. Tewfik Mahdi, Civil Engineering
3. Prof. Shazi Shah Jabeen, Humanities & Social Sciences
4. Dr. Nishant Harishbhai Pandya (ASTP), Chemical Engineering
5. Dr.Vilas Haridas Gaidhane (ASTP), Electrical & Electronics Engineering
6. Prof. D.J. Shariff, Biotechnology
7. Dr. Sujala D. Shetty (ASTP), Computer Science

Co-opted Members:

- Dr. Paritosh Shukla (ASTP), Pilani Campus
Dr. Shivi Agarwal (ASTP), Pilani Campus
Dr. Gautam Bacher (ASTP), K.K. Birla Goa Campus
Dr. Hemant Rathore (ASTP), K.K. Birla Goa Campus
Dr. Kota Venkata Ratnam (ASTP), Hyderabad Campus
- Dr. Sabareesh Geetha Rajasekharan(ASTP),
Hyderabad Campus
Dr. Gomathi Bhavani Rajagopalan (ASTP), Dubai Campus
Dr. Vincent Shantha Kumar (ASTP), Dubai Campus

Librarian:

Shri Giridhar M. Kunkur, Pilani Campus

Dr. Sivakumar Raja Rathinam, Dubai Campus

Workshop Superintendent:

Shri Rajiv Annarao Shinde, K. K. Birla Goa Campus

Chief Warden:

Prof. Navin Singh (ASOP), Pilani Campus

Dr. Phaneendra Kiran C (ASTP), Hyderabad Campus

Prof. Angshuman Sarkar (ASOP), K.K. Birla Goa
Campus

Dr. Santhosh Kumar Vasudevan (ASTP), Dubai Campus

Student Members:

Mr. Siddhant Jain 2016A7PS0113P

Mr. Siddharth Prasad Ratnam 2017B3AA0928H

Mr. Lavanay Thakral 2016B5A70566G

Mr. Allan Barbosa 2016A1PS0166U

MEMBERS OF THE SENATE APPOINTED BODIES

(A) RESEARCH BOARD

Chairman (Vice-Chancellor):

Prof. Souvik Bhattacharyya

Vice Chairman (Dean, AGSR):

Prof. Srinivas Krishnaswamy

Secretary (Registrar):

Mr. Ernest Samuel Ratnakumar J

Directors of all BITS Campuses:

Prof. Ashoke Kumar Sarkar*

Prof. Ranendra N. Saha

Prof. G. Raghurama

Prof. Prof. G. Sundar

Deputy Directors:

Vacant

Dean, Sponsored Research & Consultancy:

Prof. Sunil Bhand

Faculty Members (8):

1. Prof. S.B. Singh, Pilani Campus

2. Prof. P.R. Deepa, Pilani Campus

3. Prof. P. M. Singru, K.K. Birla Goa Campus

4. Prof. Raghu Nath Behera, K.K. Birla Goa Campus

5. Prof. M.B. Srinivas, Hyderabad Campus

6. Prof. Sharmistha Banik, Hyderabad Campus

7. Dr. Eldhose Iype, Dubai Campus

8. Dr. M. Raja, Dubai Campus

(B) ACADEMIC COUNSELLING BOARD

I. Pilani Campus:

Chairman : Associate Dean , AUGS

Prof. Suresh Gupta

Associate Dean , AGSR:

Prof. Jitendra Panwar

Associate Dean, SWD:

Prof. Srikanta Routroy

Faculty Members (2):

1. Dr. Yashvardhan Sharma

2. Dr. Anupam Yadav

Student Members (2):

1. Mr. Mahesh Kaushik, 2016A2PS0869P

2. Ms. Apoorva, 2016A3PS0764P

II. K.K. Birla Goa Campus:

Chairman : Associate Dean , AUGS

Prof. Neena Goveas

Associate Dean , AGSR:

Prof. Bharat M. Deshpande

Associate Dean, SWD:

Prof. C.K. Ramesha

Faculty Members (2):

1. Dr. Nitin Sharma

2. Dr. Amol Anilrao Deshpande

Student Members (2):

1. Ms. Khyati Jain, 2016B5A70471G

2. Mr. Akul Gupta, 2016B3A70298G

III. Hyderabad Campus:

Chairman : Associate Dean , AUGS

Prof. A. Vasani

Associate Dean , AGSR:

Prof. Venkat Vamsi Krishna Venuganti

Associate Dean, SWD:

Prof. Sandip Shridharrao Deshmukh

Faculty Members (2):

1. Dr. Aruna Malapati

2. Dr. K. Sumithra

Student Members (2):

1. Mr. Kaustubh Welankar, 2016A7PS0095H

2. Ms. Shreeya Jain, 2016B3A70237H

IV. Dubai Campus:

Chairman : Associate Dean , AUGS

Prof. K. Kumar

Associate Dean , AGSR:

Prof. Ramanujam Karthikeyan

Associate Dean, SWD:

Prof. Priti Bajpai

Faculty Members (2):

1. Dr. Suhel Ahmad Khan

2. Dr. Raja Muthalagu

Student Members (2):

1. Ms. Smrithi Malavalli Nagesh, 2016AAPS0201U

2. Mr. Mohammed Adnan, 2016A4PS0117U

(C) ACADEMIC MONITORING BOARD

Chairman : Dean, WILPD:

Prof. S. Balasubramaniam®

Associate Deans, WILPD:

1. Prof. Hitesh Datt Mathur
2. Prof. Raghunath A. Ratabole
3. Prof. Punna Rao Ravi
4. Prof. P. Srinivasan
5. Prof. Gopalakrishnan Venkiteswaran
6. Prof. P.B. Venkataraman

Dean, AUGSD:

Prof. Ajit Pratap Singh

Dean, PSD:

Prof. S. Gurunarayanan

Dean, AGSRD

Prof. Srinivas Krishnaswamy

Associate Dean, AUGS:

Prof. Suresh Gupta (Pilani Campus)

(D) ACADEMIC GOVERNING COMMITTEE

Dean, AUGSD

Prof. Ajit Pratap Singh

Associate Dean, AUGSD from each campus

1. Prof. Suresh Gupta, Pilani Campus
2. Prof. Neena Goveas, K.K. Birla Goa Campus
3. Prof. A. Vasani, Hyderabad Campus
4. Prof. K. Kumar, Dubai Campus

Dean, Practice School Division

Prof. S. Gurunarayanan

Dean, AGSRD

Prof. Srinivas Krishnaswamy

Dean, Work Integrated Learning Programmes Division

Vacant

Professor-in-charge, BITS Entrance Examination

Prof. Chittaranjan Hota

Associate Dean, AGSRD from each campus

1. Prof. Jitendra Panwar, Pilani Campus
2. Prof. Bharat M. Deshpande, K.K. Birla Goa Campus
3. Prof. Venkat Vamsi Krishna Venuganti, Hyderabad Campus
4. Prof. Ramanujam Karthikeyan, Dubai Campus

Convenorship rotates amongst these members depending on the item to be discussed.

(E) DOCTORAL COUNSELLING COMMITTEE

Convenor

Prof. Srinivas Krishnaswamy, Dean, AGSRD

Dean, Sponsored Research & Consultancy Division

Prof. Sunil Bhand

Dean, AUGSD

Prof. Ajit Pratap Singh

Associate Dean, AGSRD of each Campus

1. Prof. Jitendra Panwar, Pilani Campus
2. Prof. Bharat M. Deshpande, K.K. Birla Goa Campus
3. Prof. Venkat Vamsi Krishna Venuganti, Hyderabad Campus
4. Prof. Ramanujam Karthikeyan, Dubai Campus

(F) STANDING COMMITTEE FOR STUDENTS' DISCIPLINE

I. Pilani Campus:

Chairman : Associate Dean , SWD
Prof. Srikanta Routray
Chief Warden:
Prof. Navin Singh

Faculty Members(2):
1. Prof. Bharti Khungar
2. Dr. Praveen Goyal
Student Member (2):
1. Ms. Adarsha Mani, 2016B1A30910P
2. Mr. Mayur Dhvaj Singh Khangarot, 2016B3A30543P

II. K.K. Birla Goa Campus:

Chairman : Associate Dean, SWD
Dr. C.K. Ramesha
Chief Warden:
Prof. Angshuman Sarkar

Faculty Members (2):
1. Prof. Chandradew Sharma
2. Prof. Judith Braganca
Student Member (2):
1. Mr. Daftray Neel Sunil, 2017A3PS022G
2. M. Abhyankar Saeed Amit, 2017AAPS0327G

III. Hyderabad Campus:

Chairman : Associate Dean, SWD:
Prof. Sandip Shridhar Rao Deshmukh
Chief Warden:
Prof. Phaneendra Kiran C

Two Faculty Members (2):
1. Prof. Swati Biswas
2. Dr. Kota Venkata Ratnam
Student Member (2):
1. Ms. Triyasha Ghosh Dastidar, 2017B2A70829H
2. Mr. Naitik Lapsiya, 2017B3A30913H

IV. Dubai Campus:

Chairman : Associate Dean , SWD
Prof. Priti Bajpai
Chief Warden:
Dr. Santosh Kumar Vasudevan

Two Faculty Members (2):
1. Dr. Priyank Upadhyay
2. Dr. Gomarthi Bhavani
Student Member (2):
1. Ms. Shruti Ravindaran, 2017A1PS0245U
2. Mr. Karan Gupta, 2017A3PS0249U

(G) NOMINATIONS COMMITTEE

Chairman (Vice-Chairman of the Senate):
Prof. Ashoke Kumar Sarkar*
Deputy Directors:
Vacant

Members of Senate (4):
1. Prof. Hitesh Dutt Mathur, Pilani Campus

2. Prof. Bharat M Deshpande, K.K. Birla Goa Campus
3. Prof. Vidya Rajesh, Hyderabad Campus
4. Prof. Krishna Kumar Singh, Dubai Campus
Secretary:
Shri Ernest Samuel Ratnakumar J, Registrar

(H) LIBRARY COMMITTEE

I Pilani Campus:

<u>S.N.</u>	<u>Department</u>	<u>Name of the member</u>
1.	Biological Sciences	Dr. Syamantak Majumder
2.	Civil Engineering	Dr. Nishant Roy
3.	Chemical Engineering	Dr. Priya C. Sande
4.	Chemistry	Prof. Inamur R. Laskar
5.	Computer Science & Information Systems	Dr. Shashank Gupta
6.	Economics & Finance	Dr. Rahul Arora
7.	Electrical & Electronics Engineering	Dr. Roopam Goswami
8.	Humanities and Social Sciences	Dr. Muhammed Afzal Puthusseri
9.	Mathematics	Dr. Trilok Mathur
10.	Mechanical Engineering	Dr. Venkatesh K P Rao
11.	Management	Dr. Mohammad Faraz Naim
12.	Pharmacy	Dr. Vaibhav Dixit
13.	Physics	Prof. Madhukar Mishra

Shri Giridhar M. Kunkur (Librarian) - Chairman of the Library Committee

II. K.K. Birla Goa Campus:

<u>S.N.</u>	<u>Department</u>	<u>Name of the member</u>
1.	Biological Sciences	Prof. Kundan Kumar
2.	Chemical Engineering	Dr. Pradeep Kumar Sow
3.	Chemistry	Dr. Jayadevan Kampurath Poduvattil
4.	Computer Science & Information Systems	Prof. Basbdatta Sen Bhattacharya
5.	Economics	Dr. Richa Shukla
6.	Electrical & Electronics Engineering	Dr. Ashish Chittora
7.	Humanities and Social Sciences	Dr. Mohan Kumar Bera
8.	Mathematics	Dr. Amit Setia
9.	Mechanical Engineering	Dr. Vadiraj Anant Hemadri
10.	Physics	Dr. Tarun Kumar Jha

Dr. Anuradha V (Deputy Librarian) - Chairman of the Library Committee

III. Hyderabad Campus:

<u>S.N.</u>	<u>Department</u>	<u>Name of the member</u>
1.	Biological Sciences	Dr. Trinath Jamma
2.	Civil Engineering	Prof. V Vinayaka Ram
3.	Chemical Engineering	Dr. Angan Sengupta
4.	Chemistry	Dr. Himanshu Aggarwal
5.	Computer Science & Information Systems	Dr. Rajib Ranjan Maiti
6.	Economics and Finance	Dr. Shreya Biswas
7.	Electrical & Electronics Engineering	Dr. Surya Shankar Dan
8.	Humanities and Social Sciences	Dr. Anhiti Patnaik
9.	Mathematics	Dr. P T V Praveen Kumar
10.	Mechanical Engineering	Dr. Pavan Kumar Penumakala
11.	Pharmacy	Dr. Akash Chaurasiya
12.	Physics	Dr. Prasant Kumar Samantray

Shri M.S. Uday Kumar (Deputy Librarian) - Chairman of the Library Committee

IV. Dubai Campus:

<u>S.N.</u>	<u>Department</u>	<u>Name of the member</u>
1.	Biotechnology	Dr. Mainak Dutta
2.	Chemical Engineering	Dr. Eldhose Iype
3.	Civil Engineering	Dr. Deepthi Mary Dilip
4.	Computer Science	Dr. Tamizharasan Periyasamy
5.	Electrical & Electronics Engineering, Electronics & Communication Engineering and Electronics & Instrumentation Engineering	Dr. V. Kalaichelvi
6.	General Sciences	Dr. Somasundaram. A.
7.	Humanities and Social Sciences	Dr. Nitin Simha Vihari Poluru
8.	Mechanical Engineering	Dr. Naveen Shrivastava

Dr. R. Sivakumar (Librarian) - Chairman of the Library Committee

(I) ADMISSION COMMITTEE

Vice-Chancellor (Chairman):

Prof. Souvik Bhattacharyya

Members:

Director, Pilani Campus:

Prof. Ashoke Kumar Sarkar**

Director, K.K. Birla Goa Campus:

Prof. G. Raghurama

Director, Hyderabad Campus:

Prof. G. Sundar

Director, Dubai Campus:

Prof. Ranendra N. Saha

Director (Off-campus Programmes and Industry Engagement):

Prof. G. Sundar

Professor-in-charge - BITS Entrance Examination (Convenor):

Prof. Chittaranjan Hota

MEMBERSHIP

The Institute continued to be a member of the following distinguished bodies:

1. Association of Commonwealth Universities, London.
2. Association of Indian Universities, New Delhi.
3. Current Science Association, Bangalore.
4. Federation of Indian Chambers of Commerce and Industry – Higher Education Network, New Delhi.
5. India International Centre, New Delhi.
6. Indian Association of Social Science Institutions, New Delhi.
7. Indian Distance Education Association, Hyderabad.
8. Indian Institute of Foreign Trade, New Delhi.
9. Indian Society for Technical Education, New Delhi.
10. Institution of Communication Engineers and Information Technologists, New Delhi.
11. International Association of Universities, Paris.
12. International Council for Open and Distance Education, Oslo, Norway.
13. National Council of Applied Economic Research, New Delhi.
14. Petrotech Society, New Delhi.
15. Pharmacy Council of India, New Delhi.
16. The Institution of Engineers (India), Kolkata.
17. World Association for Cooperative Education, Boston
18. Council for Advancement and Support of Education, Washington
19. Association for Institutional Research, Florida

STATISTICS OF Ph.D. QUALIFYING EXAMINATION

BITS, PILANI – PILANI CAMPUS

I. Statistical Information for Ph.D. Programme

Sem.	Permitted to Appear in Quali. Exam.	Appeared	Passed	Failed
II Sem. 2018-19	75	75	66	9
I Sem. 2019-20	51	51	47	4
Total	126	126	113	13

II. Statistical Information for Faculty Development Scheme

Sem.	Permitted to Appear in Quali. Exam.	Appeared	Passed	Failed
II Sem. 2018-19	-	-	-	-
I Sem. 2019-20	-	-	-	-
Total				

III. Analysis of candidates permitted to appear in Ph.D. qualifying examination

(i)	BITS Faculty (Total)	(ii)	Aspirants/Part time of High Standing and proven competence (Total)	(iii)	Full time Students (Total)
	--		20		106

Discipline wise Break-up	
Biosciences	7
Chemistry	13
Chemical	4
EEE	15
Mathematics	8
Mechanical	18
CSIS	11
H&SS	3
Econ. & Fin.	5
Pharmacy	18
Physics	6
Civil	12
Management	6
Total	126

STATISTICS OF Ph.D. QUALIFYING EXAMINATION

BITS, PILANI - KK BIRLA GOA CAMPUS

I. Statistical Information for Ph.D. Programme

Sem.	Permitted to Appear in Quali. Exam.	Appeared	Passed	Failed
II Sem. 2018-19	40	40	38	02
I Sem. 2019-20	37	37	33	04
Total	77	77	71	06

II. Statistical Information for Faculty Development Scheme

Sem.	Permitted to Appear in Quali. Exam.	Appeared	Passed	Failed
II Sem. 2018-19	02	02	02	0
I Sem. 2019-20	0	0	0	0
Total	02	02	02	0

III. Analysis of candidates permitted to appear in Ph.D. qualifying examination

(i)	BITS Faculty (Total)	(ii)	Aspirants of High Standing and proven competence (Total)	(iii)	Full time Students (Total)
	02		15		60

Discipline wise Break-up	
Biosciences	07
Chemistry	10
Chemical	12
EEE	12
Mathematics	08
Mechanical	03
CSIS	04
Lang. & Hum.	10
Management & Econ. & Fin.	03
Pharmacy	-
Physics	08
Civil	-
Total	77

STATISTICS OF Ph.D. QUALIFYING EXAMINATION

BITS, PILANI - HYDERABAD CAMPUS

I. Statistical Information for Ph.D. Programme

Sem.	Permitted to Appear in Quali. Exam.	Appeared	Passed	Failed
II Sem. 2018-19	47	47	44	3
I Sem. 2019-20	49	49	43	6
Total	96	96	87	9

II. Statistical Information for Faculty Development Scheme

Sem.	Permitted to Appear in Quali. Exam.	Appeared	Passed	Failed
II Sem. 2018-19	-	-	-	-
I Sem. 2019-20	-	-	-	-

Total

III. Analysis of candidates permitted to appear in Ph.D. qualifying examination

(i)	BITS Faculty (Total)	(ii)	Aspirants/Part time of High Standing and proven competence (Total)	(iii)	Full time Students (Total)
	-		16		80

Discipline wise Break-up	
Biosciences	09
Chemical	04
Chemistry	12
Civil	08
CSIS	03
Econ. & Fin.	10
EEE	13
H&SS	03
Mathematics	04
Mechanical	18
Pharmacy	10
Physics	02
Total	96

STATISTICS OF Ph.D. QUALIFYING EXAMINATION

BITS, PILANI - DUBAI CAMPUS

I. Statistical Information for Ph.D. Programme

Sem.	Permitted to Appear in Quali. Exam.	Appeared	Passed	Failed
II Sem. 2018-19	11	11	9	2
I Sem. 2019-20	11	11	11	0
Total	22	22	20	2

II. Statistical Information for Faculty Development Scheme

Sem.	Permitted to Appear in Quali. Exam.	Appeared	Passed	Failed
II Sem. 2018-19	-	-	-	-
I Sem. 2019-20	-	-	-	-
Total	-	-	-	-

III. Analysis of candidates permitted to appear in Ph.D. qualifying examination

(i)	BITS Faculty (Total)	(ii)	Aspirants of High Standing and proven competence (Total)	(iii)	Full time Students (Total)
	1		5		16

Discipline wise Break-up	
Biosciences	3
Chemistry	-
Chemical	-
EEE	4
Mathematics	-
Mechanical	4
CSIS	5
HSS - Lang. & Hum.	3
Management	-
Pharmacy	-
GS- Physics	1
Econ. & Fin.	2
Civil	-
Total	22

BITS Pilani

annual report 2019

Part B1: Pilani Campus

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BITS PILANI – PILANI CAMPUS**B1.1 SENIOR OFFICERS OF THE INSTITUTE****VICE CHANCELLOR**

Prof. Souvik Bhattacharyya

DIRECTOR

Prof. Ashoke Kumar Sarkar*

REGISTRAR

Ernest Samuel Ratnakumar J

New Administrative appointments**The following administrative appointments were made during the year:**

A. The following have been appointed as Directors as per details given below:

S.No.	Name	Administrative Function	Period
(a) Hyderabad Campus			
1.	Prof. G. Sundar	Director, BITS Pilani- Hyderabad Campus and Director, Off Campus Programmes and Industry Engagement	17-07-2019 to 16-07-2021
(b) Dubai Campus			
1.	Prof. R. N. Saha	Director, BITS Pilani- Dubai Campus	24-03-2019 to 17-07-2020

B. The following has been appointed as Dean (Institute-wide) as per details given below:

S.No.	Name	Administrative Function	Period
Hyderabad Campus			
1.	Prof. Suman Kapur	International Programmes and Collaborations	11-04-2019 to 31-07-2020

C. The following has been appointed as Professor-in-charge (Institute-wide) as per details given below:

S.No.	Name	Administrative Function	Period
1.	Prof. P. Yogeewari	Centre for Innovation, Incubation and Entrepreneurship (CIIE)	21-06-2019 to 20-06-2021

D. The following has been appointed as Associate Dean as per details given below:

S.No.	Name	Administrative Function	Period
(b) Dubai Campus			
1.	Prof. Ramachandran Anand Kumar	Practice School Division	16-06-2019 to 10-09-2021

E. The following has been appointed as Finance officer as per details given below:

S.No.	Name	Administrative Function	Period
(a) K.K. Birla Goa Campus			
1.	Mr. Ajay Kumar Agarwal	Finance Officer	w.e.f. 09-12-2019

F. The following have been appointed as Heads of Departments as per details given below:

S.No.	Name	Department	Period
(a) K.K. Birla Goa Campus			
1.	Prof. Srikanth Mutnuri	Biological Sciences	21-11-2019 to 20-11-2021

S.No.	Name	Department	Period
2.	Prof. Saroj Sundar Baral	Chemical Engineering	21-11-2019 to 20-11-2021
3.	Prof. Halan Prakash	Chemistry	21-11-2019 to 20-11-2021
4.	Prof. Vinayak Shashikant Naik	Computer Science & Information Systems	21-11-2019 to 20-11-2021
5.	Prof. Aswini Kumar Mishra	Economics	21-11-2019 to 20-11-2021
6.	Prof. Abhijit Jayant Pethe	Electrical & Electronics Engineering	21-11-2019 to 20-11-2021
7.	Prof. Reena Cheruvalath	Humanities & Social Sciences	21-11-2019 to 20-11-2021
8.	Dr. Jajati Keshari Sahoo	Mathematics	21-11-2019 to 20-11-2021
9.	Dr. Ranjit Shankarrao Patil	Mechanical Engineering	21-11-2019 to 20-11-2021
10.	Prof. Radhika Vathsan	Physics	21-11-2019 to 20-11-2021

(b) Hyderabad Campus

1.	Prof. A Sajeli Begum	Pharmacy	29-08-2019 to 30-09-2020
2.	Dr. Biswanath Dash	Humanities & Social Sciences	17-09-2019 to 30-09-2020

(c) Dubai Campus

1.	Prof. Tewfik Mahdi	Civil Engineering	20-08-2019 to 31-05-2020
2.	Prof. Vilas Haridas Gaidhane	Electrical and Electronics Engineering	20-08-2019 to 31-05-2020

G. The following have been appointed as Faculty-in-charges as per details given below:

S.No.	Name	Administrative Function	Period
(a) Pilani Campus			
1.	Prof. Sheth Pratik N.	Instrumentation and Reprography	03-09-2019 to 31-08-2020
(b) K.K. Birla Goa Campus			
1.	Dr. Rashmi Chauhan	Community Welfare	03-12-2019 to 02-12-2021
(c) Dubai Campus			
1.	Dr. Trupti Swarup Gokhale	Alumni Affairs	12-09-2018 till further orders

The names and designations of senior officers of different campuses are given in Annexure (Pilani Campus, 'Annexure B1-13'; K.K. Birla Goa Campus, 'Annexure B2-1'; Hyderabad Campus, 'Annexure B3-1' and Dubai Campus, 'Annexure B4-1').

B1.2 ADMISSIONS

The number of students admitted in each of the semester is given below.

	Integrated First Degree Programmes	Higher Degree Programmes	Doctoral Programmes (PhD)	Total
Second Semester 2018-2019	–	–	56(20)	56(20)
First Semester 2019-2020	1059(134)	382(111)	69(32)	1510(277)

The programme-wise details are given in 'Annexure B1-1'.

B1.3 DUAL DEGREES AND TRANSFERS**(a) Dual Degree**

During the Academic year 2019-2020, 355 students were permitted to work concurrently for two first degrees under Dual Degree scheme. See 'Annexure B1-2' for details.

(b) Transfers within same tier

During the Year 2019-20, a total no of 28 students were permitted to transfer from the initial allotment of First Degree programme to the other programmes of First Degree.

(c) Vertical Transfers

During the year 2019-20, 3 students were permitted to transfer from First Degree to Higher degree and 1 student was permitted to transfer from Higher Degree to Ph.D. Programme at Pilani Campus.

B1.3 (a) Minor Programme

During the Academic year 2019-20, 183 students were admitted in Minor Programme, out of them 110 in Finance, 61 in Data Science, 7 in Physics, 4 in Philosophy, Economics and Politics and 1 Film and Media.

B1.4 ACADEMIC CALENDAR

The Academic year of the Institute is divided into two semesters and a summer term.

	Starting Date	Ending Date	Number of instruction days(excluding the examination days)
Second Semester 2017-2018	07-1-2019	14-5-2019	84
First Semester 2018-2019	01-8-2018	14-12-2019	88
Summer Term 2017-2018	21-5-2019	14-7-2019	46

B1.5 COURSE OFFERED

The number of courses offered during the year 2019 is as follows:

	Number of Courses offered
II Semester 2018-2019	391
I Semester 2019-2020	426
Summer Term 2018-2019	36

The list of new courses introduced during 2019 are given in 'Annexure B1-7'.

Project-oriented Courses.

During this year a large number of students worked on time-bound projects of various types. The information about the projects done and the names of the students who worked on the projects and the names of the instructors are given in Annexure 'B1-6'.

B1.6 REGISTRATION OF STUDENTS

The registration processes for both the semesters was completed on the first day of each semester.

	Number of students registered
Second Semester 2018-2019	5189
First Semester 2019-2020	5438
Summer Term 2018-2019	1057

Details of Registration of students for the First Semester 2019-2020 are given in 'Annexure B1-3'.

B1.7 ACADEMIC COUNSELLING BOARD (ACB)

During the year, the Academic Counseling Board estimated the extent to which students under its purview fell short of the minimum academic performance, drew up a time-frame within which afflictions were to be removed, determined the package of courses for their registration in each semester and laid down the necessary stipulations for achieving intermediate targets. It further monitored their progress and applied necessary mid-course corrections, wherever required. The statistical summary of the number of On-campus students under its purview during the year is given below:

	II Semester 2018-2019	I Semester 2019-2020
1. Total number of students under the purview of ACB at the beginning of the semester	285	258
2. No. of students declared out of its purview at the end of the semester	182	161
3. No. of students who left the Institute during the semester	0	0
4. No. of new students who came under the purview of ACB at the end of the semester	155	204
5. Total No. of students under the purview of ACB during the next semester	258	301

B1.8 AWARD OF DEGREES AND MEDALS

a. Award of Degrees

On Campus Programmes

During the year 80 degrees were awarded in the Board of Governors meeting held on 22-3-2019 (84th Award) and 1436 degrees were awarded on 16-7-2019 (85th Award), through a Circulatory Resolution. Statistical details of these degrees are given in 'Annexure B1-4'.

b. Award of Medals

For Academic Year 2018-2019

The list of students who were awarded various medals, for the students graduated at the end of First Semester, Second Semester and Summer Term of the academic year 2018-2019 in the following table:

S.N.	ID.No.	NAME	SEX	CGPA OBTAINED	POSITION OBTAINED	TYPE OF MEDAL AWARDED
Integrated First Degree Programmes (No. of students: 888)						
1.	2015A7PS0549P	RAJAT JAIN	M	9.99	FIRST	GOLD
2.	2015A7PS0355P	VIGNESH NANDA KUMAR	M	9.98	SECOND	SILVER
3.	2014A1B10525P	HARSH KANODIA	M	9.96	THIRD	BRONZE

B1.9 CAMPUS INTERVIEWS AND PLACEMENT

Number of companies which conducted campus interviews	225
Number of offers made	1031

The statistics (discipline-wise) and the list of organizations which conducted campus interviews during the year are given in Annexure 'B1-5'.

Employment of Graduates during the Year 2019

Programme	Number graduated	Employed	Unemployed	Not Registered for Placements / Deregistered from Placements
On-Campus Programmes				
B.E.(Hons.)				
Chemical	69	57	5	7
Civil	73	55	5	13
Computer Science	121	107	3	11
EEE	97	80	4	13
Electronics & Instrumentation	66	62	0	4
Mechanical	86	70	3	13
Manufacturing	32	28	0	4
B.Pharm	48	29	1	18

Programme	Number graduated	Employed	Unemployed	Not Registered for Placements / Deregistered from Placements
M.Sc.(Hons.)				
Bio. Sciences	56	44	3	9
Chemistry	47	42	2	3
Economics	68	60	1	7
Mathematics	60	55	3	2
Physics	56	50	1	5
M.Sc.(Tech.)				
General Studies	9	4	2	3
M.E.				
Biotechnology	18	7	9	2
Chemical	22	12	8	2
Civil (Spl. in Structural Engg.)	17	11	5	1
Civil (Spl. in Transportation Engg.)	14	10	4	0
Civil (Spl. in Infrastructure Engg. and Management)	8	2	6	0
Communication Engg.	18	13	5	0
Computer Science	20	19	1	0
Design Engg.	12	9	2	1
Embedded System	19	15	4	0
Manufacturing Systems Engg.	16	12	3	1
Mechanical	11	9	2	0
Microelectronics	22	18	3	1
Software Systems	23	19	3	1
M.Pharm	10	6	2	2
M.Pharm. (Spl. In Pharmaceutics)	8	4	3	1
M.Pharm. (Spl. Pharmaceutical Chemistry)	10	5	2	3
MBA	80	74	4	2
Total	1216	988	99	129

B1.10. DEPARTMENT-WISE REPORT

In the following pages, a brief summary of the main activities and achievements of different departments of the campus are highlighted.

B1.10.1 Department: Biological Sciences

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	04
Associate Professors	06
Assistant Professors	07
Lecturers	00
Visiting Faculty	00
Visiting Assistant Professors	00

Head of the Department: Prof. Prabhat Nath Jha

Contact details: prabhatjha@pilani.bits-pilani.ac.in

Number of Ph.D. Scholars: 40

Full Time : 40

Part Time : 0

Aspirant Scheme : 0

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1.	E. Divya Niveditha	2012PHXF009P	An in-silico Investigation of Sequence Features in miRNAs and its Functional Association with Cancer	Shibasish Chowdhury	NA
2.	Monika M.	2012PHXP412P	Elucidation of Alkaline Tolerance Mechanism in Arthrospira platensis NIES-39	B. Vani	Shibasish Chowdhury

1. SPONSORED RESEARCH AND CONSULTANCY

PROJECTS SANCTIONED

A. Government Sanctioned: NIL

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects: NIL

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects: NIL

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects: NIL

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	"Evaluation of anti-tumor efficacy and pharmacokinetics of polymeric nanoparticle formulation targeted to cancer stem cells" (PI-Anirudh, Dept of Pharmacy), DST	Biological Sciences	-	Dr. Rajdeep Chowdhury	DST	-	33,86,000
2	"Activity targeted nano-formulations for co-delivery of a taxane and anti-oxidant molecule, alpha lipoic acid for treating breast cancer."DST-Rajasthan	Biological Sciences	-	Dr. Rajdeep Chowdhury	DST	-	11,13,600
3	Investigate role of CRISPR-Cas system in pathogenesis of <i>Salmonella enterica</i> serovar Typhimurium.	Biological Sciences	Dr. Sandhya Marathe	-	CRG - BITS Pilani	-	7,50,000
4	To investigate the mechanism of CRISPR-Cas regulated biofilm formation in <i>Salmonella enterica</i> serovar Typhimurium	Biological Sciences	Dr. Sandhya Marathe	-	DST	-	43,71,000
5	Analysis of mitochondrial dynamicity (fusion/fission and mitophagy) post drug exposure in human glioblastoma cells and understanding its correlation with drug resistance	Biological Sciences	Dr. Sudeshna Mukhejee	Rajdeep Chowdhury	DST	-	27,00,00
6	Understanding hyperglycemia induced alterations in non-coding RNA expression pattern and post-translational histone protein modifications contributing to drug resistance and progression of pancreatic cancer"	Biological Sciences	Prof. Rajdeep Chowdhury	Anil Gayekwad	DST	-	40,00,000
7	Epigenetics of Endothelial Dysfunction during Cardiovascular Disease". SERB-ECRA;	Biological Sciences	Dr. Syamantak Majumder	-	DST	-	45,00,000
8	Development of 1-D nanomaterials based selective sensor system for non-invasive detection of complications of diabetes mellitus and asthma by breath analysis technique	Biological Sciences	-	Dr. Syamantak Majumder	DBT	-	46,50,000
9	Development of sensors for blast and blight diseases and stomatal activity measurement in rice (<i>O. Sativa</i> L.)	Biological Sciences	Prof. Prabhat Nath Jha	-	ICAR-NASF	Saamarendra Pratap Singh, Shivnadar University, B. K. Sharma, BHU	23,98,000
10	Analyzing the cross-talk between Autophagy, Cytoskeletal and Mitochondrial Dynamicity regulating Epithelial to mesenchymal	Biological Sciences	Dr. Sudeshna Mukherjee	-	CSIR	-	17,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
	Transition(EMT) in Human Glioblastoma Cells.”(CSIR-Extra Mural)						
11	Repurposing of CNS accumulating drugs as autophagy modulators for potential treatment against glioblastoma: an in-silico, in-vitro and in-vivo study	Biological Sciences	Prof. Shibasish Chowdhury	Rajdeep Chowdhury, Syamantak Majumder	ICMR	-	33,00,000
12	Studying the Efficacy of ADAM Inhibitors in Treating Diabetic Nephropathy	Biological Sciences	Dr. Syamantak Majumder		ICMR	-	33,00,000
13	High altitude-hypoxia mediates thrombosis in soldiers; modulation of autophagy as a strategy to combat high altitude-hypoxia induced thrombosis	Biological Sciences	Dr. Rajdeep Chowdhury	Syamantak Majumder. Shibasish Chowdhury	DRDO	-	42,50,000
14	Production and use of indigenous local strains of microbial pesticides through trainings, demonstrations and installation of cost-effective production units for the farmers of Rajasthan.	Biological Sciences	Jola Dubey	-	DST-Wos B	-	26,33,000
15	Understanding the genetic interactions of parkin and α -Synuclein affecting pathogenesis of Parkinson's disease.,	Biological Sciences	Dr. Meghana Tare	-	DST, Start Up Research Grant	-	24,00,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	"Integrated Approach for the Efficient Removal and Recovery of Zinc from the Viscose Fiber Process	Biological Sciences	Dr S K Verma	Dr Jitendra Panwar Suresh Gupta Prof A P Singh	Aditya Birla Group	-	49,42,000

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Insights into genetic interactions manifesting to onset and progression of the Parkinson's Disease. ACRG, BITS Pilani	Biological Sciences	Dr. Meghana Tare	-	CRG - BITS Pilani	-	6,10,000
2	Understanding the role of long non coding RNA in glomerular endothelial cell dysfunction during diabetic nephropathy.	Biological Sciences	Dr. Syamantak Majumder	-	CRG, BITS	-	8,50,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
3	Analyses of mitochondrial regulation in parental and drug resistant human brain cancer cells and understanding its functional implications	Biological Sciences	Dr. Sudeshna Mukherjee	-	ACRG-BITS	-	4,00,000

3. COMPLETED PROJECTS

A. Completed Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Mutant-p53 gain-of-function: its role in regulating long non-coding RNA (lncRNA) expression and associated chemoresistance in human cancer cells"	Biological Sciences	Dr. Rajdeep Chowdhury	Sudeshna Mukherjee	DBT, New Delhi	Nil	25,00,000
2	Modeling immune response to Salmonella during typhoid	Biological Sciences	-	Sandhya Marathe	DST-New Delhi	Nil	37,73,000
3	Investigating the role of Aryl hydrocarbon receptors in mediating the anticancer properties associated to camel milk	Biological Sciences	Uma S.Dubey	-	DST-Rajasthan	Nil	7,43,200

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

- Pala, Z, Saxena, V, Saggi, GS, Mani, SK, Pareek, RP, Kochar, SK, Kochar, DK, Garg, S (2019) Functional analysis of iron-sulfur cluster biogenesis (SUF pathway) from Plasmodium vivax clinical isolates. Experimental Parasitology, 198 (2019): 53-62.
- Pallavi, B, Singh, RP, Jha, PN, Chander, S, Murugesan, S, Sharma, P, Shukla, P (2019) Green Synthesis, in-vitro Antimicrobial Evaluation, Docking, and SAR Studies of Potent Quinoline-4-Carboxylic Acids. Letters in Organic Chemistry, 16(11)874 10.2174/1570178616666190123121506
- Patel, OPS, Dhiman, S, Khan, S, Shinde, VN, Jaspal, S, Srivathsa, MR, Jha, PN, Kumar, A (2019) A straightforward TBHP-mediated synthesis of 2-amidobenzoic acids from 2-arylindoles and their antimicrobial activity. Organic and Biomolecular Chemistry, 17: 5962-5970

4. Saini, H, Hakeem, I, Mukherjee, S, Chowdhury, S, Chowdhury, R (2019) Autophagy regulated by gain of function mutant p53 enhances proteasomal inhibitor-mediated cell death through induction of ROS and ERK in lung cancer cells. *Journal of Oncology*. Vol 2019 (1) 1-17 Article ID 6164807
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6. Jha, PN, Gomaa, A-B, Yanni, YG, El-Saadany, A-EY, Stedtfeld, TM, Stedtfeld, RD, Gantner, S, Chai, B, Cole, J, Hashsham, SA, Dazzo, FB (2019) Alterations in the Endophyte-Enriched Root-Associated Microbiome of Rice Receiving Growth-Promoting Treatments of Urea Fertilizer and Rhizobium Biofertilizer. *Microbial Ecology*. <https://doi.org/10.1007/s00248-019-01406-7>
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8. Bhuvanasundar, R, Nareshkumar, Nagaraj, R, Singh, NK, Coral, K, Deepa, PR, Sulochana, KN (2019) Expression, purification and characterization of a biologically active and thermally stable human lysyl oxidase. *Indian Journal of Biochemistry & Biophysics*, 56: 105-116
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10. Niveditha, D, Mukherjee, S, Majumder, S, Chowdhury, R, Chowdhury S (2019) A global transcriptomic pipeline decoding core network of genes involved in stages leading to acquisition of drug-resistance to cisplatin in osteosarcoma cells. *Bioinformatics*, 35(10):1701-1711
11. Runthala, A, Chowdhury, S. 2019. Refined template selection and combination algorithm significantly improves template based modelling accuracy. *Journal of Bioinformatics and Computational Biology*, 17(02) 1950006
12. Singh, V, Rao, A, Tiwari, A, Yashwanth, P, Lal, M, Dubey, U, Aich, S, Roy, B (2019) Study on the effects of Cl and F doping in TiO₂ powder synthesized by a sol gel route for biomedical applications. *Journal of Physics and Chemistry of Solids*, 134 (2019) 262–272
13. Monika, M, Jangir, B, Vani, Chowdhury S. (2019) Analysis of seven putative Na⁺/H⁺ antiporters of *Arthrospira platensis* NIES-39 using transcription profiling and in silico studies: an indication towards alkaline pH acclimation. *Physiology and Molecular Biology of Plants*, 25 (5): 1175
14. Majumder, S, Hadden, MJ, Thieme, K, Batchu, SN, Niveditha, D, Chowdhury, S, Yerra, VG, Advani, SL, Bowskill, BB, Liu, Y, Vakili, H, Alghamdi, TA, White, KE, Geldenhuys, L, Siddiqi, FS, Advani, A (2019) Dysregulated expression but redundant function of the long non-coding RNA Hotair in diabetic kidney disease. *Diabetologia*, 62(11): 2129
15. Fageria, L, Bambroo, V, Mathew, A, Mukherjee, S, Chowdhury, R, Pande, S (2019) Functional autophagic flux regulates AgNP uptake and the internalized nanoparticles determine tumor cell fate by temporally regulating flux. *International Journal of Nanomedicine*, 2019(14): 9063—9076
16. Niveditha, D, Sharma, H, Sahu, A, Majumder, S, Chowdhury, R, Chowdhury, S (2019) Drug tolerant cells: An emerging target with unique transcriptomic features. *Cancer Informatics*, 18: 1-5
17. Niveditha, D, Sharma, H, Majumder, S, Mukherjee, S, Chowdhury, R, Chowdhury, S (2019) Transcriptomic analysis associated with reversal of cisplatin sensitivity in drug resistant osteosarcoma cells after a drug holiday. *BMC Cancer*, 19:1045 (2019) doi:10.1186/s12885-019-6300-2

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Sushil Kumar Yadav, R Mahesh, Vishal Saxena, Gautam Singhvi “Separation and Analysis of Beta Casein Variants from Cow Milk and their Application in Solubility Enhancement of Poorly Water Soluble Drug”. 8th Annual International Conference on Dissolution Science and Applications - Disso India 2019, organized at NIPER-SAS Nagar, Mohali, India, from September 11 - 13, 2019.
2. Sandhu M, Paul AT, Jha PN (2019). Evaluation of soil isolates from polychlorinated biphenyl contaminated soil for PCB degradation potential. In: 60th Annual Conference of Association of Microbiologist of India and International Symposium on Microbial Technologies in Sustainable Development of Energy, Environment, Agriculture and Health held in Central University of Haryana, Mahendergarh during 15-18th November, 2019. Abstract book: p196.
3. Misra T, Tare M, Jha PN (2018). characterization of biofilm formation of enterobacter cloacae sbp-8 under various physiological conditions. In: 59th Annual Conference of Association of Microbiologist of India and

International symposium on Host Pathogen Interactions held in University of Hyderabad, Hyderabad during 9-12th December, 2018. Abstract book: p624.

ii) International:

1. Boopathi, PA., Subudhi, AK., Kochar, SK., Kochar, DK. Das. A. 2019 'Severe *Plasmodium vivax* Malaria: Unravelling the Transcriptome'. 7th International Conference on *Plasmodium vivax* Research (ICPVR). 26th - 28th June,. Institut Pasteur, Paris, France.
2. Saxena V, Garg, S., Adapa, S.R., Roth, A., Adams J. 2019. "Deciphering functionality of apicoplast metabolic pathways in plasmodium vivax life stages". 7th International Conference on Plasmodium vivax Research (ICPVR). June 26th - 28th. Institut de Pasteur, Paris, France.
3. Chowdhury, S., Sharma PK. 2019. Evolutionary process of Glutamate Synthase Protein Family within the cyanobacteria: An In-silico Analysis. 2018 International Conference on Bioinformatics and Systems Biology (BSB) P_Page 3.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Agarwal, S., Kuchlan, M., Panwar, J. and Sharma, M. 2019. Bacterial synthesis of metallic nanoparticles - Current trends and potential applications as soil fertilizer and plant protectants. In: Nanoscale Engineering in Agricultural Management, Raliya, R. (Ed.), CRC Press Taylor & Francis Group, Boca Raton, FL, pp. 30-63.
2. Giri S., Thakar S., Majumder S., Chatterjee S. (2019) Regulation of Oxidative Stress by Nitric Oxide Defines Lung Development and Diseases. In: Chakraborti S., Parinandi N., Ghosh R., Ganguly N., Chakraborti T. (eds) Oxidative Stress in Lung Diseases. Springer, Singapore. pp 445-464.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Mini-colloquium on Emerging and Interdisciplinary Areas of Biological Science Research, organised by Department of Biological Sciences. Presented by 1) Dr. Amit Mishra, 2) Dr. Sarita ahlawat and 3) Prof. Chinmay K. Mukhopadhyay on 02nd March 2019.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Prof Ashis Das delivered an invited talk entitled "Severe *Plasmodium vivax* Malaria: Unravelling the transcriptome" in the 14th International Conference on Vectors and Vector Borne Diseases Bhubaneswar, INDIA on January 9-11, 2019.
2. Prof Ashis Das delivered an invited talk in the "Genomics Conference India 2019" at Bengaluru entitled "Network Hub Genes and Ribosomal RNA: Possible diagnostic targets? On January 24th -25th 2019
3. Dr. Shilpi Garg delivered an invited talk on "Biomimicry: Copying Mother Nature" at R.N.B. Global University Bikaner on the occasion of Science Day 28th Feb 2019
4. Dr. Shilpi Garg delivered an invited talk on "Our Battle Against Malaria: Past, Present and Future" at Indira Gandhi National Open University, New Delhi on the occasion of World Malaria Day 25th April 2019
5. Prof. Vishal Saxena delivered an invited talk on "Repurposing of drugs to target malaria" in the International Conference on Molecular Basis of Diseases & Therapeutics" (ICMBDT-2019) held from March 8 - 10, 2019 at Central University of Rajasthan, Kishangarh, Rajasthan
6. Prof. P.N. Jha was invited as a resource person in a Refresher Course in Environmental Studies & Disaster Management from 12/09/2019 to 25/09/2019 sponsored by UGC-Human Resource Development Centre, Ranchi University at Ranchi University. He delivered two talks entitled 'Environmental Genomics' and Green Mission: Wonders Of Bacteria.
7. Prof. Ashis Das delivered a special lecture on "Omics and Network Analysis in Malaria" at the MHRD-GIAN workshop on "Malaria Control Strategies: Drug Design and Vaccine Development" at the School of Life Sciences, University of Hyderabad held during 05-17 August 2019.
8. Prof. Ashis Das delivered a special lecture in the technical session on "Diagnostic Strategies for Human Malaria Parasites: Ribosomal RNA Gene or Ribosomal RNA Based Procedures" at the 30th National Congress of Parasitology and Global Symposium on Malaria Elimination held between 26-28 September, 2019 at Jawaharlal Nehru University, New Delhi.
9. Prof. Vishal Saxena delivered an invited talk on "Deciphering importance of apicoplast metabolic pathways in Plasmodium vivax life stages" at the International Conference "30th National Congress of Parasitology and Global Symposium on Malaria Elimination" held from 26-28 September, 2019 at Jawaharlal Nehru University, New Delhi, jointly organised by Indian Society of Parasitology and JNU, New Delhi.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

- 1 Dr. Debajyoti Dutta; a postdoctoral research fellow at Biochemistry, University of Alberta, Canada delivered a talk on A detergent free study of plant Na⁺/H⁺ antiporter SOS1 on 25th February 2019.
- 2 Mini-colloquium on Emerging and Interdisciplinary Areas of Biological Science Research, organised by Department of Biological Sciences. Presented by 1) Dr. Amit Mishra, 2) Dr. Sarita Ahlawat and 3) Prof. Chinmay K. Mukhopadhyay on 02nd March 2019.
- 3 Anurag Srivastava from University of Turin, Italy delivered a research talk on 'Understanding the role of enolase post-translational modification in Pancreatic Cancer' and 'Bust the myth of international application and fly to the study destination abroad' on 7th September 2019.
- 4 Prof. Nisith Gupta, Humboldt University, Germany delivered a talk on Intracellular Parasitism 101: Survival strategies of a eukaryotic cell inhabiting another eukaryotic cell, on 11th November 2019
- 5 Dr. Vidhi Pareek, Res. Asst. Prof., The Huck Institutes of Life Sciences, Pennsylvania State University, PA, USA delivered a research talk on 'Unveiling the unseen life of the purinosome metabolon by metabolomics and mass spectral imaging' on 16th November 2019
- 6 Prof. Suresh Arya, NIH, USA delivered a guest lecture to the students registered in course BIO G523 (Advance & Applied Microbiology) on synthetic Microbiology on 18th November 2019

10. AWARDS AND RECOGNITIONS**a. Faculty:**

1. **Prof. Ashis Das** chaired two sessions on 'Modern Biology' at the 14th International Conference on Vectors and Vector Borne Diseases. 9-11 January, 2019. Bhubaneswar, India
2. **Prof. Ashis Das** chaired a session on 'Cerebral Malaria' at the 30th National Congress of Parasitology and Global Symposium on Malaria Elimination held between 26-28 September, 2019 at Jawaharlal Nehru University, New Delhi.

b. Students:

1. Akshina Jindal, M.Sc. Biological science student has been awarded prestigious Khorana Fellowship jointly organized by Department of Biotechnology (DBT), Government of India, Indo-U.S. Science and Technology Forum (IUSSTF) and WINStep.
2. Tripti Mishra and Heena Saini have been awarded CSIR-SRF-2019

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION**12. PATENTS FILED/PUBLISHED AND GRANTED**

1. A method for determining A1/A2 genotype of milch animals, Patent Application No.: 201911018953, Inventors: Sushil K. Yadav, Radhakrishnan Mahesh, Vishal Saxena, Dated of filing : May 13, 2019

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES**Biological Society**

The Biological Society in its traditional way executed APOGEE-2015, showing the recent development in modern biology through excellent working and non-working models. Senior members of the Biological Society have also been involved in orientation for freshly joined students and discussions regarding the future scope of Biology and Biotechnology. Other traditional activities such as welcome for new members, B1 alfresco and farewell for graduating students were also organized.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	Apotome Microscope	1
2.	ICP-OES	1
3.	Benchtop UV-transilluminator	2
4.	Gradient PCR	1
5.	AC (1.5 ton)	1
6.	DELL Precision T5820 XEON W 2123,32 GB DRR4 RAM ECC, 250 GB SSD BOOT DVD RW, 2X2 TB RAID DRIVE, 4GB QUADRO GRAPHIC CARD and WINDOWS 10 PROF with 24 inch TFT display	1

7.	Shaker incubator ("stacking), temp (5-60 °C)	2
8.	CO ₂ incubator, water jacketed (160 liter)	1
9.	Thermo Multiscan Reader with incubator	1
10.	Compound microscopes for teaching purpose	6
11.	Magnetic Stirrer (Without heating)	1
12.	Trolley for Gas cylinders	2
13.	Plant tissue culture rack	2

B1.10.2 Department: Civil Engineering

Name of Department: Civil Engineering Department

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	04
Associate Professors	05
Assistant Professors	09
Lecturers	0
Visiting Faculty	01
Visiting Assistant Professors	0

Head of the Department : Prof. Anshuman

Contact details : anshu@pilani.bits-pilani.ac.in

Number of Ph.D. Scholars:

Full Time : 21

Part Time : 10

Aspirant Scheme : Nil

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1.	Tanmay Gupta	2007PH430271P	An Investigation on Influence of Skewness on Structural Response of Concrete Box-Girder bridges	Prof. Manoj Kumar	-
2.	Rahul Dandautiya	2013PHX0411P	Exploring Immobilization Potential of Heavy Metals in Fly Ash and Copper Tailings and their Sustainable Utilization using Life Cycle Assessment	Prof. Ajit Pratap Singh	-
3	Manpreet Singh	2014PHXF0429P	Assessment of Potential of marble Slurry As a mineral admixture in Concrete	Prof. Anshuman	Prof. Dipendu Bhunia
4.	Gaurav Kumar	2014PHXF0004P	Design and Implementation of a Generic Methodology for Scenario Development with Assessment over water Resources	Prof. Rajiv Gupta	-
5.	Puppala Harish	2013PH440046P	Field Conceptualization, Characterization and Pre-Drilling Power Estimate of a Geothermal Reservoir in India.	Dr. Shibani K Jha	-
6.	Makrand Wagale	2014PHXF0005P	Quantification of Impacts of Rural Road Construction: Evidence from Pradhan Mantri Gram Sadak Yojana in Jhunjhunu District, India	Prof. Ajit Pratap Singh	Prof. Ashoke Kumar Sarkar
7.	Gourav Deep Singh Gill	2015PHXF0005P	Behaviour of Shallow Footings Resting on Waste Tire Chips Reinforced Sand and Copper Mining Wastes	Prof. Ravi Kant Mittal	

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Structured Dialogues for Sustainable Urban Water Management (SDSUWM)	Civil Engineering	Rajiv Gupta	Abdul Malik Suchismita Satpathy Soundharajan Bankaru-Swamy	Department of Science and Technology, Delhi	AMU BITS, Hyderabad Amrita School of Engineering	5,09,04,188 (BITS, Pilani: 3,29,88,508)
2.	Crime Analysis and Study for Safe Cities with Emphasis on Women Safety using Technology and Societal Participation	EEE	Anu Gupta	Rajiv Gupta Meetha V Sinoy	Indian Council of Social Science Research	-	5,00,000
3	Structural Health Assessment and Rehabilitation Framework based on Cyber Physical System, sponsored by DST New Delhi, Ref. DST/ICPS/Cluster (Cyber Physical Systems/2018 (G), dated 13/3/2018 (Multi-institutional and multi-disciplinary project)	Civil Engineering	Prof. Shamsher Bahadur Singh	-	DST, new Delhi	Dr. Kota Solomon Raju, CEERI Pilani and Dr. K. K. Gupta, BITS Pilani (All PI Collaborators)	70,00,000
4	Development of a Cyber-Physical System based Smart Water Grid & Testbed for Community Usage	Civil Engineering	-	Prof. Ajit Pratap Singh	DST, new Delhi	Dr. S. A. Akbar (PI), CSIR-CEERI Pilani and Dr. K. K. Gupta (PI), Dr. Amit Dua (Co-PI), Dr. Kamlesh Tiwari (Co-PI), BITS Pilani	70,00,000
5	Waste Management of Generated Sludge from Indian Steel and Steel Related Plants: A Sustainable Business Model".	Civil Engineering	Srikanta Routroy	Anupam Singhal Dipendu Bhunia	Ministry of Steel, New Delhi	Rajasthan State Pollution Control Board, Jaipur	38,00,000
6	Study of Postbuckling Response, Failure and Strength of Functionally Graded Composite Plates with and without Cutouts, sponsored by Council of Scientific and Industrial Research (CSIR), New Delhi dated 24/7/2019 (Ref. no. 2(0781)/19/EMR-II.	Civil Engineering	Prof. Shamsher bahadur Singh	-	CSIR, New Delhi	-	18,50,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Design and development of Fixed and Floating Solar PV Installations for water management infrastructures	Civil Engineering	Dr. Ravi Kant Mittal	Dr. Manoj Kumar Soni	First Green Consulting Pvt. Ltd.	-	11,36,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ARCG	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Costs and remediation of groundwater contamination in India	Civil	Sheetal Shakeri Rajiv Gupta (India)	-	College of Arts and Sciences at University of Virginia, USA	University of Virginia, USA	1,75,00,000
2	Structural Health Assessment and Rehabilitation Framework based on Cyber Physical System	Civil Engineering Department	Prof. Shamsher Bahadur Singh	-	DST, New Delhi	Prof. Kota Solomon Raju and Dr. K. K. Gupta (All PI-Collaborators)	70,00,000
3	Study of Postbuckling Response, Failure and Strength of Functionally Graded Composite Plates with and without Cutouts	Civil Engineering Department	Prof. Shamsher Bahadur Singh	-	CSIR, New Delhi	-	18,50,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Safety Consultancy for widening & strengthening of existing Bikaner-Phalodi section to Four Lane from Km 4+200 to Km 55+250 and Two Lane with PS from Km 55+250 to km 163+500 of NH-15 on BOT (Toll) basis in the State of Rajasthan	Civil Engineering Department	Prof. A. K. Sarkar	Prof. Ajit Pratap Singh, Dr. Durgesh Vikram, Dr. Prashant Sahu	National Highway Authority of India		53,50,000

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	RIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	A feasibility study on utilizing locally available fly ash to produce geopolymers for structural fire resistance applications	Civil Engineering	Dr. Mukund Lahoti	-	Research Initiation Grant	-	2,00,000
2	Post buckling analysis of CNT-Reinforced composite plates under different types of in-plane mechanical loads	Civil Engineering	Dr. Rajesh Kumar	Dr. S. N. Patel	Research Initiation Grant	-	2,00,000
3	Failure Analysis of MWCNTs-Reinforced Laminated Composite Plate Subjected to Mechanical Loads	Civil Engineering	Dr. Rajesh Kumar	-	Additional Competitive Research Grant	-	8,80,000
4	Investigation of ductile characteristics of high strength concrete beams reinforced with high strength steel and basalt fibre under elevated temperature conditions	Civil Engineering	Dr. G. Muthukumar	-	Additional Competitive Research Grant	-	9,75,000

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Conjunctive use of Rainwater and Groundwater to provide safe drinking water with intervention of Advanced Technology	Civil	Rajiv Gupta	-	Department of Science and Technology, Delhi	Ambuja Cement Foundation	2,04,13,000 (DST share: 1,26,43,000)

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
2	Impact of PMGSY Roads on Accessibility in Rural Areas	Civil Engineering Department	Prof. A. K. Sarkar	Prof. Ajit Pratap Singh	National Rural Roads Development Agency (NRRDA), Ministry of Rural Development, Government of India	-	22,63,000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty in Journals

- Pankaj Munjal and S. B. Singh (2019), "Out-of-plane Response of ECC Strengthened Masonry Walls," Journal of Structural Integrity and Maintenance," Accepted for Publication, November 06; (ID: 1692165 DOI:10.1080/24705314.2019.1692165).
- Mansi Bansal and S. B. Singh (2019), "Analysis and Strengthening of Stone Masonry Structures," CE & CR, Vol. 32, No. 11, pp. 42-46.
- Sudhir Vummadiseti and S. B. Singh (2019), "Buckling and Postbuckling response of hybrid composite plates under uniaxial compressive loading," Journal of Building Engineering, <https://doi.org/10.1016/j.jobe.2019.101002>.
- S. B. Singh, Himanshu Chawla, and Aditya Narkhede (2019), "Flexural analysis of functionally graded thin walled beams," Proceedings of Indian National Science Academy, Accepted, July 29 (In Press), 2019.
- S. B. Singh, Shreyas Pranav, and Shubham Aggarwal (2019), "Evaluation of Vibration-based Damage Detection Techniques for Reinforced-concrete Beams," The Indian Concrete Journal, Accepted for Publication.
- Shaik Hussain, Dipendu Bhunia, S. B. Singh (2019), "Strength and Durability Parameters of Carbonated Mineral Admixture Concrete," The Indian Concrete Journal, MS#1876, Accepted for Publication.
- S. B. Singh, Sudhir Vummadiseti, and Himanshu Chawla (2019), "Assessment of Interlaminar Shear in Fiber Reinforced Composite Materials," Journal of Structural Engineering, Vol. 46, No.2, June-July, pp.146-153.
- Vinay Shimpi, Madappa V. R. Sivasubramanian, *, and S. B. Singh (2019), "System Identification of Heritage Structures through AVT and OMA: A Review," Structural Durability and Health Monitoring (SDHM), Vol. 13 (1):
- Devi Anuradha, Gupta Rajiv, Singhal Anupam and Verma Sanjay Kumar (2019), "Biosorption of Fe (II) by Scenedesmus sp. in batch and continuous systems", Research Journal of Chemistry and Environment, Vol. 23 (11).

10. Mittal, R.K., Mittal, S., Saran, S. Rawat, S.(2019) "Pressure–Settlement Characteristics of Strip Footing Resting on Randomly Distributed Fibre-Reinforced Sand Using Constitutive Law" International Journal of Geosynthetics and Ground Engineering, Volume 5 issue 2, June, 2019, 5: 13, Springer International Publishing, DOI <https://doi.org/10.1007/s40891-019-0165-y>, SCOPUS indexed. Print ISSN2199-9260, Online ISSN2199-9279.
11. Rawat, S., Mittal, R.K., Muthukumar, G. "Isolated Rectangular Footings under Biaxial bending: A Critical Appraisal and Simplified Analysis Methodology", Practice Periodical on Structural Design and Construction, ASCE, SCOPUS, Accepted on 15th October, 2019 (In press)
12. Gill, G. and Mittal, R. K. Rahul Dandautiya and Nilesh Purohit (2019), "Sustainable Utilization of Waste Tire Chips Reinforced Copper Tailings as Structural Fill", Environment, Development and Sustainability, (SCI, Impact Factor: 1.676), ISSN: 1387-585X (Print) 1573-2975 (Online), Springer Netherlands, accepted on 13th June, 2019. <https://doi.org/10.1007/s10668-019-00408-2>
13. Gill, G. and Mittal, R. K. (2019), "Use of waste tire-chips in shallow footings subjected to eccentric loading- An experimental study", Construction and Building Materials, 199, 335–348. Volume 199, Pages 335-348. (SCI, 5-year Impact Factor-4.039). <https://doi.org/10.1016/j.conbuildmat.2018.12.024>
14. Mittal, R.K., Rawat, S. and Bansal, P. (2019) "Multivariable Regression Model for Fox Depth Correction Factor. Frontiers of Structural and Civil Engineering, Springer. <https://doi.org/10.1007/s11709-018-0474-6>, SCI, Impact factor:1.58, Vol.13, Issue 1, Feb., 2019, Pages 103-109.
15. Lahoti, M., S.F. Wijaya, K. H. Tan, and E.-H. Yang (2019), "Tailoring sodium-based fly ash geopolymers with variegated thermal performance." Cement and Concrete Composites 107: 103507
16. Lahoti, M., K. H. Tan, and E.-H. Yang (2019), "A critical review of geopolymer properties for structural fire-resistance applications." Construction and Building Materials 221: 514-526
17. AS Krishnan, U., Lahoti, M., Yang, E.-H. (2019), "Investigating the potential reactivity of fly ash for geopolymerization," Construction and Building Materials 225: 283-291
18. Rajiv Gupta, Anupam Singhal, A N Singh (2019), "Subsurface 3D analysis, modeling, and presentation of pollutant nitrate in semi-arid region", Environ Monit Assess, 191: 271., <https://doi.org/10.1007/s10661-019-7433-0>
19. Rajiv Gupta, A N Singh, Anupam Singhal (2019), "Application of ANN for Water Quality Index", International Journal of Machine Learning and Computing, Vol. 9, No. 5, pp: 688-693
20. R Kumar, T Dey, SK Panda (2019), "Instability and vibration analyses of FG cylindrical panels under parabolic axial compressions. Steel and Composite Structures", 31(2), 187-199 (2019), SCI Indexed.
21. S Chakraborty, T Dey, R Kumar (2019), "Stability and vibration analysis of CNT-Reinforced functionally graded laminated composite cylindrical shell panels using semi-analytical approach". Composites Part B: Engineering 168, 1-14 (2019), SCI Indexed.
22. R Kumar, LS Ramachandra, B Banerjee (2019), "Dynamic instability characteristic of damped laminated composite conical shell panel under periodic axial compression", Mechanics of Advanced Materials and Structures (2019), DOI: 10.1080/15376494.2019.1572841, SCI Indexed.
23. Singh, M, Srivastava, A, and D. Bhunia (2019), 'Long term strength and durability parameters of concrete on partially replacing cement by dried waste marble powder slurry', Construction and Building Materials (Elsevier), Vol. 198, 553-569.
24. Singh, M, Srivastava, A, and D. Bhunia (2019), 'Analytical and experimental investigations on using dried waste marble powder in concrete', Journal of Materials in Civil Engineering (ASCE), 31(4), 1-13.
25. Roy, N, Sarkar, R, Bharti, S.D. (2019). "Relative influence of strength and geometric parameters on the behavior of jointed rock slopes", Arabian Journal of Geosciences, Springer, 12: 640.
26. Roy N, Bharti SD, Kumar A (2019). "Seismic Isolation of Tunnels in Blocky Rock Mass using Expanded Polystyrene (EPS) Geofoam", Innovative Infrastructure Solutions, Springer.
27. Wagale, M., Singh, A. P. (2019). The Application of Adaptive Neuro-Fuzzy Inference System and Fuzzy Delphi Technique to Assess Socio-Economic Impacts of Construction of Rural Roads, Transport and Telecommunication, volume 20, no. 4, 325–345. <https://doi.org/10.2478/tj-2019-0027>.
28. Srinivas, R., Singh, A.P., Dhadse, K., Garg, C., (2019). An evidence based integrated watershed modelling system to assess the impact of non-point source pollution in the riverine ecosystem, Journal of Cleaner Production. <https://doi.org/10.1016/j.jclepro.2019.118963>.
29. Dandautiya, R. and Singh, A. P. (2019). Utilization potential of fly ash and copper tailings in concrete as partial replacement of cement along with life cycle assessment, Waste Management, Vol. 99, pp. 90-101. <https://doi.org/10.1016/j.wasman.2019.08.036>.

30. Pranav, S., Aggarwal, S., Yang, En-Hua, Sarkar, A.K., Singh, A. P., Lahoti, M. (2019). Alternative Materials for Wearing Course of Concrete Pavements: A Critical Review. *Journal of Construction and building materials*. <https://doi.org/10.1016/j.conbuildmat.2019.117609>.
31. Vyas, V., Singh, A.P., Srivastava, A. (2019). Entropy-based fuzzy SWOT decision-making for condition assessment of airfield pavements, *International Journal of Pavement Engineering*, Taylor and Francis, <https://doi.org/10.1080/10298436.2019.1671590>.
32. Sharma, V.K., Sharma, S. K. and Singh, A. P. (2019). Risk Enablers Modeling for Infrastructure Projects Using Bayesian Belief Network, *International Journal of Construction Management (TJCM)*, <https://doi.org/10.1080/15623599.2019.1678218>.
33. Singh, A.P., Khakolia, A., Tavanshetti, S., Yadav, J. (2019). Groundwater Quality Assessment Using GIS and Fuzzy Logic- A Case Study of Jhunjhunu District, *Pollution Research*, 38 (3), 655-662.
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38. Bhakar, P. and Singh, A.P. (2019). Groundwater quality assessment in a hyper-arid region of Rajasthan, India, *Natural Resources Research*, Volume 28(2), pp. 505-522. <https://doi.org/10.1007/s11053-018-9405-4>
39. Vyas, V., Singh, A.P., Srivastava, A. (2019). A Decision Making Framework for Condition Evaluation of Airfield Pavements Using Non-Destructive Testing. In: Al-Qadi, I. L., Ozer, H., Loizos, A. and Murrell, S. (Eds.) *Airfield and Highway Pavements 2019: Innovation and Sustainability in Highway and Airfield Pavement Technology*, pp. 343 - 353. ASCE, Chicago, Illinois. <https://doi.org/10.1061/9780784482476.034>.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Rajiv Gupta and Soumya Kar, presented a paper titled "Disaster preparedness for standing crops and irrigation water during drought spells", at 4th World Congress on Disaster Management, Victor Menezes Convention Centre, Indian Institute of Technology (IIT) Bombay, Powai, Mumbai, India during January 29 to February 1, 2019.
2. Rajiv Gupta, Kanika, and Rajesh Singh, presented a paper titled "Crime trends in India: An Introduction to move from reactive to preventive strategy for a safe city using GIS", at International Conference on Interdisciplinary of Knowledge, Education and research, Department of Humanities and Social Science, BITS, Pilani, Pilani Campus during February 8-9, 2019.
3. Banuru Raghavendra, Ramanand Shukla, Roopak Sasikumar, and Dipendu Bhunia, presented a paper titled "Study of Seismic Response of 12 Storey RCC Building Considering Infill Panels as Per Indian Standards", at UKIERI conference, NIT Jalandhar during March 5-8, 2019.
4. Rahul Dandautiya, Ajit Pratap Singh, presented a paper titled "Life cycle assessment of production of concrete using copper tailings and fly ash as a partial replacement of cement", at Two Day National Conference on Advances in Sustainable Construction Materials (ASCM), NIT Warangal, India during March 15-16, 2019.
5. S.N. Patel, presented a paper titled "Free Vibration Study of Laminated Carbon Nanotube Reinforced Composite Shell Panels", at 5th International Conference on Nanotechnology for Better Living (ICNBL-2019) held at NIT Srinagar. during April 6-7, 2019.
6. Vidhi Vyas, Ajit Pratap Singh, Anshuman Srivastava, presented a paper titled "Debonding detection in asphalt pavements using infrared thermography", at 15th World Conference on Transport Research 2019, IIT Mumbai, India during May 26-31, 2019.
7. Farhan Mohammad Khan, Smriti Sridhar, Rajiv Gupta, presented a paper titled "Application of Adaptive Neuro-Fuzzy Inference System for detecting waterborne pathogens using carbon nanomaterial based biosensor", at Symposium on Carbon Nanomaterials Electronics-2019 organized by Department of

Electrical and Electronics Engineering, BITS Pilani, Pilani Campus (Best poster presentation award) during November 8-9, 2019.

8. Rajiv Gupta, presented a paper titled "Remote Monitoring of Water Quality using Wireless Communication", at Symposium on Carbon Nanomaterials Electronics-2019 organized by Department of Electrical and Electronics Engineering, BITS Pilani, Pilani Campus (Best poster presentation award) during November 8-9, 2019.
9. Vidhi Vyas, Ajit Pratap Singh, Anshuman Srivastava, presented a paper titled "Condition Assessment of Reinforced Concrete Bridge Deck using Infrared Thermography", at 5th Conference of the Transportation Research Group of India (CTRG-2019) during December 18-21, 2019.

ii) International:

1. Kabil Bhargava and Rajiv Gupta*, Anupam Singhal, Ajay Shrinivas, presented a paper titled "Genetic Algorithm to Optimize Solid Waste Collection", at 3rd International Conference of Recent Trends in Environmental Science and Engineering (RTESE'19), Ottawa, Canada during June 10-12, 2019
2. Anuradha Devi, Rajiv Gupta, Anupam Singhal and Sanjay Kumar Verma, presented a paper titled "Study on Application of Pickling Sludge in Pavements Tiles", at 3rd International Conference of Recent Trends in Environmental Science and Engineering (RTESE'19), Ottawa, Canada during June 10-12, 2019
3. Varun Jain, Rajesh Kumar and Sukanta Chakraborty, presented a paper titled "Non-linear dynamic response and dynamic buckling of isotropic imperfect thin plates", at International Conference on Nonlinear Solid Mechanics (ICoNSoM 2019) Roma, Italy during June 16-19, 2019
4. Vidhi Vyas, Ajit Pratap Singh and Anshuman Srivastava, presented a paper titled "A Decision Making Framework for Condition Evaluation of Airfield Pavements Using Non-Destructive Testing", at International Airfield and Highway Pavements Conference 2019, Chicago, Illinois during July 21-24, 2019
5. Rajiv Gupta, presented a paper titled "Water Purifying Bio-Concrete", at Asian Advanced Materials Congress, Singapore, Cruise from Singapore to Malaysia and back. during October 31 to November 4, 2019,
6. Imran Meghani, Anupam Singhal, Virender Singh Phogat and Srikanta Routroy , , presented a paper titled "A Study on Optimization of Requirements for Grass lawns of BITS-PILANI using the Penman Equation for Recycled Water from Sewage Treatment Plant", at 8th IWA Microbial Ecology and Water Engineering Specialist Conference, Hiroshima, Japan. during November 17-20, 2019
7. Ajit Pratap Singh, presented a paper titled "Global Sanitation", at GSGS workshop IWA WDCE 2019, Colombo, Sri Lanka during December 1-5, 2019
8. Farhan Mohammad Khan, Smriti Sridhar and Rajiv Gupta, presented a paper titled "Underground water quality degradation along Luni River in Thar desert due to industrial effluent discharge", at 6th International Conference on Environmental System Research, Melbourne, Australia during December 18-20, 2019
9. Suresh Kumar Singh, Jyoti Chaubey, Himanshu Arora, Sudheer Mathur, S., Ajit Pratap Singh and Banna Ram Panwar, presented a paper titled "Underground water quality degradation along Luni River in Thar desert due to industrial effluent discharge", at American Geophysical Union (AGU) Fall meeting, San Francisco, CA. during December 9-13, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Gupta V., Rawat S., Mittal R.K., Muthukumar G. , A Brief Review of Structural Aspects of IS 16700:2017., Adhikari S., Bhattacharjee B., Bhattacharjee J. (eds.) , Advances in Structural Engineering and Rehabilitation. Lecture Notes in Civil Engineering, Vol 38. Springer, Singapore, first online on 13 June 2019, https://doi.org/10.1007/978-981-13-7615-3_7, SCOPUS indexed, 2019.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT: NII

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Prof. Rajiv Gupta delivered a keynote address on "Connecting engineering with sports development" at NATIONAL SEMINAR ON SPORTS ENGINEERING, February 07th to 09th 2019 at School of Physical Education and Sports Sciences, Mangattuparamba Campus Kannur University.
2. Prof. Rajiv Gupta delivered a keynote address on "AI in Sustainable Infrastructure Planning; National Conference on "Sustainable Infrastructure Development and Management" at" VIT, Nagpur, on February 22 & 23, 2019.
3. Prof. Ajit Pratap Singh delivered a key note lecture titled "Different dimensions of Teaching Learning and Evaluation" in the National Conference on Exploring New Dimensions in Teaching Learning for Quality Education on 8th June 2019 at K.K. Wagh Institute of Engineering & Research, Nasik.

4. Prof. Ajit Pratap Singh delivered a key note lecture titled "Groundwater Management: Problems and Solutions" in the National Seminar on Best Groundwater Management Practices on 25th September 2019 at Department of Civil Engineering, Engineering College Bikaner, Rajasthan sponsored by TQIP-3.
5. Prof. S. B. Singh delivered Keynote Lecture on 18th November 2019 at NIT Surathkal, Karnataka at One Week Faculty Development Program organized under TEQIP.
6. Prof. S.B. Singh delivered Keynote Lecture at UKIERI Concrete Congress at NIT Jalandhar, March 5-8, 2019.
7. Prof. S. B. Singh delivered 2 Hours Invited lecture on Application of Composites for Structural Strengthening, NIRMA University, August 03, 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Mr. Dipanjan Mitra, Assistant General Manager (AGM) in Tata Consulting Engineers, delivered lecture on "Smart Cities" at the department of Civil Engineering on March 2, 2019.
2. Mr. Vetcha Ravikanth, Assistant Vice President, Reliance Industries Limited (Petrochemical Division), delivered lecture on "Use of Geo-synthetics in Infrastructure Development" at the department of Civil Engineering on April 2, 2019.
3. Mr. Lalit Kumar Jain, Project Management Consultant, Scan Technology L.L.C., Dubai, delivered lecture on "Use of MS Project Professional for effective planning and management of a construction project" at the department of Civil Engineering on April 9, 2019.
4. Dr. Murli Krishna, John F Welch Technology centre, GE Bangalore, delivered lecture on "Evolution of GE and Today's Research" at the department of Civil Engineering on August 6, 2019.
5. Mr. Viraj Voditel, CEO and Founder of Tecture Structures, Nagpur, delivered lecture on "Entrepreneurship in Core Industry" at the department of Civil Engineering on September 7, 2019.
6. Mr. Kabil Bhargava, (All India Rank: 6, ESE 2019), delivered lecture on "Importance of technical knowledge" at the department of Civil Engineering on 9th November 2019.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Prof. Ajit Pratap Singh was appointed as commissioner to assess the status of Common Effluent Treatment Plants (CETPs) at Pali, Rajasthan by the Hon'ble National Green Tribunal, New Delhi in October 2019.
2. Prof. S. B. Singh attended Army Technology Seminar on 23rd December 2019 at Monekshaw Centre, New Delhi and presented the Collaborative Technology Development Project on "Fiber-Reinforced Polymer Lightweight Shelters for High-Altitude Areas," (IIT Delhi is Collaborative Partner).
3. Prof. S.B. Singh has been invited by Provost, Trinity College Dublin, Ireland for Faculty Appraisal at the level of Professor during November 2019.
4. Prof. S.B. Singh has been appointed as committee member of Research Advisory Committee for PhD students of NIRMA University, Ahmedabad, Gujrat.
5. Prof. S.B. Singh has been appointed as Editorial Board Member of Enliven: International Journal of Advances in Civil Engineering 2019.
6. Prof. S.B. Singh has been invited to Conduct Interview on 21st July at UPSC, New Delhi for Lecturers.
7. Prof. S.B. Singh has been appointed as committee member for Campus Level Faculty Appraisal Committee, BITS Pilani, Feb, 2019.
8. Prof. S.B. Singh has chaired a session at UKIERI Concrete Congress at NIT Jalandhar, Mach 5-8, 2019
9. Dr. M. Lahoti received a GPU grant worth INR 1.40 lakhs from NVIDIA Corporation's Academic Programs team (February 2019). The GPU grant consists of a Titan V GPU.

b. Won by Students:

1. Abhishek Gaur (2017B2A21037P) was one of the 1000 students selected from more than 100 countries worldwide to work as a Student Developer at Google Summer of Code (GSoc) '19 for 13 weeks during summer 2019.
2. Harshoman Sinha (2016A2PS0830P) has been offered one of the 4 students to have been offered PPO from McKinsey and Company.
3. Harshoman Sinha (2016A2PS0830P) was the only undergraduate student in the country to be offered an internship at Oliver Wyman and was subsequently a PPO.

4. Sanidhya Kumar Pandey (2016B1A20755P) and Hardik Maheshwari (2016B1A20906P) received a funding of ₹17000 from the institute for the project on “Self-healing in Geopolymer Concrete”.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION: Nil

12. PATENTS FILED/PUBLISHED AND GRANTED

1. Self-Purifying Pervious Concrete Filter, Application Number: 201611017378, Inventors: Rajiv Gupta, Ayub Ahmed, and Gaurav Tyagi, Application Filing Date: 18th May 2016; **Granted: 21/08/2019**
2. Jute Fiber Water Tank: An Eco-Friendly Water Storage Method, India Provisional Patent Application No.: 201911045423 Inventors: Soumya Kar, Raya Raghavendra Kumar, Rajiv Gupta, Dated: November 4, 2019.
3. A formulation for reduction of fluoride and total dissolved solids in water and process for reduction thereof, Application Number: 201711011204, Inventors: Anupam Singhal, Rajiv Gupta, and Arun Nihal Singh, Application Filing Date: 29th March 2017, First examination report: 23/12/2019

13. DEPARTMENTAL ASSOCIATION/CLUB ACTIVITIES

Orientation

A Formal Orientation was held on 21st August, 2019 for the newly admitted students with the aim to cover various aspects regarding Civil Engineering Association. Further interactions were conducted later in August to address queries pertaining to the same.

Meetings

Monthly meetings were held to discuss the various ideas and issues pertaining to CEA related activities. Most of the meetings were held with regard to 3 major agendas: i) Student Academic/Career Needs and Requirements, ii) Establishment of ASCE Chapter and iii) Planning of Events during APOGEE.

Software Training Workshops

A workshop on Autodesk Revit was also conducted on 28th August, 2019 by CEA in which the modelling and levelling of structures were explained. MEP was also explained via detailed guides

Autodesk AutoCAD workshop was organized on September 21-22, especially for 1st year students. Student's problems and doubts were discussed.

ESE Talk

On 9th November 2019, a talk on Engineering Services Examination (ESE) was conducted by CEA with Mr. Kabil Bhargava (AIR 6, ESE 2019) as the Guest Speaker. A BITS alumnus, Kabil Bhargava has been selected in Central Engineering Services under CPWD. In his talk, he also shared his interview experience in the ESE and importance of technical knowledge. Throughout the talk he had focused more on difficulties generally faced by the students be it deciding on the future or regarding the branch or the mental stress for the exams and provided suggestions on how to deal with such situations.

Talk on Entrepreneurship in Core Industry

On 7th September 2019, a talk was conducted by CEA on Entrepreneurship in Core Industry with Mr. Viraj Voditel as the speaker. Mr. Viraj Voditel is a BITS Alumnus himself and is presently CEO of Tecture Structures, who started his venture from a hostel room of BITS Pilani and within a span of 6 years he has strengthened his roots in London, Dubai, Singapore and India with projects undertaken from more than 20 countries. This talk aimed in exploring the scope of working in a Building Information Modelling (BIM) background as well as the various challenges and benefits of start-ups in the core industry.

Newsletters

The Newsletters has been continued from last year under the name “The Caterpillar”. Two issues have been published this semester.

APOGEE Meets

Two APOGEE Paper/Project Meets were held. Intense brainstorming was done to discuss ideas as well as the project pitching rounds to follow. Several exciting events are planned for APOGEE 2020. Emphasis was given to make the APOGEE events better and more challenging. Project/ Paper ideas were encouraged and the student's doubts were cleared.

Farewell Ceremony

A farewell ceremony was organized for the passing out class of 2020, on 26th November 2018. This event was attended by faculty members of the Civil Engineering department. The CEA bid farewell to its graduating students.

Other Events

On 15th August 2019, an event-Jenga was organized and attracted more than 80 participants to build the tallest tower out of the small blocks with an intention to enhance their thinking ability about the stability of structures. It received a very good response from the students, especially from freshers.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No	Software/Equipment	Type	No. of Licenses or Qty.
1.	Rocscience Academic Bundle (Advanced)	Software	1
2.	Abaqus Teaching Suite	Software	20
3.	MicroSurvey Cad Premium	Software	1
4.	Universal Distinct Element Code	Software	1
5.	ArcGIS	Software	5
6.	LS-Dyna	Software	1
7.	Abaqus Software (TENL)	Software	1
8.	Software GDI 14 version (USB License) -02 Users (Academic)	Software	1
9.	Software COMSOL	Software	4
10.	Tilting Flume Apparatus	Equipment	1
11.	Digital Hot Air Oven, (Acid Resistance Chamber)	Equipment	1
12.	Hydraulic Trolley-5000Kg Capacity	Equipment	1
13.	Buoyancy Balance equipment	Equipment	1
14.	Primary Clarifier/ Setting Tank Apparatus	Equipment	1
15.	Rapid Sand Filtration Process Apparatus	Equipment	1
16.	Fume Hood With Special Blower	Equipment	1
17.	Vacuum System for Composites Equipment	Equipment	1
18.	AE win, waveform equipment	Equipment	1
19.	Probe Sonicater	Equipment	1
20.	4-Channel Digital Vibration Meter and Weight etc.	Equipment	1
21.	Humidity Environmental Chamber	Equipment	1
22.	Bitumen Recovery Rotary Evaporator Apparatus	Equipment	1
23.	Freeze Thaw Chamber	Equipment	1
24.	Colorimeter	Equipment	1
25.	Hot Air Oven	Equipment	1
26.	Motorized Sieve Shaker	Equipment	1
27.	Asphalt Mixture Density Meter	Equipment	1
28.	Fume Hood With Special Blower	Equipment	1

B1.10.3 Department: Chemical Engineering

Number of faculty members (as on 31 December 2019)

Professor	01*
Associate Professor	06
Assistant Professor	11+01*
Lecturers	00

* Off Campus.

Head of the Department : Prof. Hare Krishna Mohanta**Contact details** : harekrishna@pilani.bits-pilani.ac.in**Number of PhD Scholars** : 15 + 1* (* Part Time)**Ph.D. Thesis Submitted during the year** : 02**1. SPONSORED RESEARCH ACTIVITIES****PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR Lakhs)
1	Prevention of Hazardous Field-Firing of Bagasse and Its Sustainable Utilization as a Raw Material in An Innovative Industrial Process	Chemical Engineering	Dr. Srinivas Appari	Dr. Bahurudeen A Department of Civil Engineering BITS Pilani, Hyderabad Campus; Dr. Prasanta Kumar Sahu Department of Civil Engineering BITS Pilani, Hyderabad Campus	MHRD-SPARC	Prof. Shinji Kudo Department of Chemical Engineering Kyushu University, Japan; Prof. Koji Nakabayashi Department of Chemical Engineering Kyushu University, Japan	28,79,000
2	Process Development for Bio-Mitigation of Flue Gases (CO ₂ , SO _x And NO _x) using Chemolithotrophs and Production of value-added Products	Chemical Engineering	Prof. Smita Raghuvanshi	Prof Suresh Gupta	DST-SERB (CRG)	-	31,61,000
3	Assessment of Mixed-Matrix membrane system for CO ₂ separation for upgradation of Biogas to Bio-Compressed Natural Gas (Bio-CNG)	Chemical Engineering	Dr. Bhanu Vardhan Reddy Kuncharam	-	DST-SERB (SRG)	-	24,47,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR Lakhs)
1	Development of microporous PVC coatings for synthetic leather applications	Chemical Engineering	Dr. Krishna Chaitanya Etika	-	Mayur Uniquoters Pvt Ltd	-	7,57,000
2	Understanding emulsion kinetics of surfactants		Dr. Pradipta Chattopadhyay		Total Oil India Pvt. Ltd., Mumbai, India	-	7,90,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR Lakhs)
1	Project under Gender Grant Program	Chemical Engineering	Dr. Priya C Sande	-	Association of Commonwealth Universities (ACU), London, UK	-	85,000

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	RIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR Lakhs)
1	Hybrid Polymer Nanocomposites for EMI Shielding Applications	Chemical Engineering	Dr. Krishna Chaitanya Etika	-	ACRG	-	7,50,000
2	Judicious Engineering of microbiomes for Enhanced sanitation & Water resources, Agriculture and National health Upliftment (JEEWANU)	Chemical Engineering	Dr. Abhishek S. Dhoble	-	RIG	-	2,00,000
3	Removal of ionic contaminants from groundwater using polymer encapsulated metal organic frameworks (MOFs)	Chemical Engineering	Dr. Somak Chatterjee	-	RIG	-	2,00,000
4	Development of a novel catalyst for upgradation of pyrolysis derived bio-oil	Chemical Engineering	Dr. Arghya Banerjee	-	RIG	-	2,00,000
5	Development of bimetallic catalyst for the ring-opening of biomass-derived 2-pyrone molecules	Chemical Engineering	Dr. Shelaka Gupta	-	RIG	-	2,00,000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	RIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR Lakhs)
1	Synthesis and characterization of epoxy based thermal interface materials (TIMs) for electronics packaging applications	Chemical Engineering	Dr. Krishna Chaitanya Etika	-	RIG	-	2,00,000

3. COMPLETED PROJECTS

A. Completed Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR L)
1	Hydrogen production from ethanol by temperature reforming methods using modified Ni-Sn/Al ₂ O ₃ and Ni-Sn/CeO ₂ Catalysts	Chemical Engineering	Prof. Banasri Roy	-	DST-SERB	-	19,34,000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	RIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Particle Image Velocimetry studies on a bench-scale cold-flow Fluidized Catalytic Cracking (FCC) riser unit.	Chemical Engineering	Dr. Priya C Sande	-	ACRG	-	10,00,000
2	Dual Catalytic Monolith Reactor for Biogas Reforming	Chemical Engineering	Dr. Srinivas Appari	-	ACRG	-	8,25,000
3	Mixed-Matrix membranes for separation of CO ₂ /CH ₄ for biogas upgradation	Chemical Engineering	Dr. Bhanu Vardhan Reddy K	-	RIG	-	2,00,000
4	Synthesis and characterization of epoxy based thermal interface materials (TIMs) for electronics packaging applications	Chemical Engineering	Dr. Krishna Chaitanya Etika	-	RIG	-	2,00,000

2. PUBLICATIONS

(i) The faculty of the department published papers in international refereed journals during the year:

- Devendra Purbia, Akshya Khandelwal, Amit Kumar and Arvind Kumar Sharma (2019), Graphene-water nanofluid in heat exchanger: Mathematical modelling, simulation and economic evaluation, International Communications in Heat and Mass Transfer, Volume 108,104327.
- Arun Karthick, Manish Chauhan, Marcel Krzan, Pradipta Chattopadhyay, Potential of surfactant foam stabilized by Ethylene glycol and Allyl alcohol for the remediation of diesel contaminated soil, Environmental Technology & Innovation, Elsevier, (Impact Factor- 2.8, CiteScore- 3.16), 14, 1-10, 2019.
- Arun Karthick, Banasri Roy, Pradipta Chattopadhyay, Comparison of zero-valent iron and iron oxide nanoparticle stabilized alkyl polyglucoside phosphate foams for remediation of diesel-contaminated soils, Journal of Environmental Management, Elsevier, (Impact Factor- 4.865, CiteScore- 5.32), 240, 93-107, 2019.
- Arun Karthick, Banasri Roy, Pradipta Chattopadhyay, A review on the application of chemical surfactant and surfactant foam for remediation of petroleum oil contaminated soil, Journal of Environmental Management, Elsevier, (Impact Factor- 4.865, CiteScore- 5.32), 243, 187-205, 2019.
- Singh, H., Pani, A. K., Mohanta, H. K. (2019). Quality monitoring in petroleum refinery with regression neural network: Improving prediction accuracy with appropriate design of training set. Measurement, 134, 698-709.

6. Morey, A., Pradhan, S., Kumar, R. A., Pani, A. K., Vijayan, V. S., Jain, V., Gupta, A. (2019) Pollutant monitoring in tail gas of sulfur recovery unit with statistical and soft computing models. *Chemical Engineering Communications*, 206, 69-85.
 7. Siddharth, K., Pathak, A., Pani, A.K. (2019) Real-time quality monitoring in debutanizer column with regression tree and ANFIS. *Journal of Industrial Engineering International*, 15, 41-51.
 8. G Athira, A Bahurudeen, S Appari, Sustainable alternatives to carbon intensive paddy field burning in India: A framework for cleaner production in agriculture, energy, and construction industries, *Journal of cleaner productions (impact factor:6.395)* , 236 (2019), 117598
 9. UPM Ashik, S Asano, S Kudo, D Pham Minh, S Appari, The Distinctive Effects of Glucose-Derived Carbon on the Performance of Ni-Based Catalysts in Methane Dry Reforming, *Catalysts (impact factor: 3.444)*, 10, 21, 2019.
 10. Pandey, B., Prajapati, Y.K., and Sheth, P.N. "Recent progress in thermochemical techniques to produce hydrogen gas from biomass: A state of the art review", *International Journal of Hydrogen Energy*, 44, (2019), Pg 25384 - 25415.
 11. Patra, T. and Sheth, P.N. "Biomass gasification coupled with producer gas cleaning, bottling and HTS catalysis treatment for H₂-rich gas production", *International Journal of Hydrogen Energy*, Vol. 44, pp. 11602 - 11616, 2019.
 12. Patra, T., Mukherjee, S. and Sheth, P.N. "Process Simulation of hydrogen rich gas production from producer gas using HTS Catalysis", *Energy*, Vol. 173, pp. 1130-1140, 2019.
 13. Jain, Tanmay and Sheth, P.N. "Design of energy utilization test for a biomass cook stove: Formulation of an optimum air flow recipe", *Energy*, Vol. 166, pp.1097-1105, 2019.
 14. Priya C. Sande and S. Sharma. *Synectics Model Applied in Basic Theory of Computational Fluid Dynamics*. *International Journal of Mechanical Engineering Education*, (Scopus indexed journal, ISSN: 03064190, SAGE publications). Published online September 23rd, 2019 <https://doi.org/10.1177/0306419019876866>.
 15. Shreshta Dhankar, Hare K. Mohanta, Ajita Neogi, Priya C. Sande, Method to predict complete product fraction TBP distributions from that of the whole crude using regression techniques: applied to shale oil, *Petroleum and Coal (Scopus indexed journal, ISSN:1337-7027, VIRUP publication)* 61 (2019), 1089-1101. https://www.vurup.sk/wp-content/uploads/2019/09/PC-X-2019_Sande_93_rev1.pdf.
 16. Mohan, O., Trinh, Q. T., Banerjee, A., Mushrif, S. Predicting CO₂ adsorption and reactivity on transition metal surfaces using popular density functional theory methods *Molecular Simulation*, 2019 45:14-15, 1163-1172. <https://www.tandfonline.com/doi/full/10.1080/08927022.2019.1632448>.
 17. Sandupatla, S. A., Banerjee, A*, Deo, G. Optimizing CO₂ hydrogenation to methane over CoFe Bimetallic Catalyst: Experimental and Density Functional Theory Studies. *Applied Surface Science*, 2019, 485, 441. <https://www.sciencedirect.com/science/article/pii/S0169433219312334>
 18. Ban, X., Lahiri, P., Dhoble A. S., Gu, Z., Li, C., Cheng, L., Hong, Y., Li, Z., and Bhalerao, K.D. (2019). Evolutionary stability of salt bridges hints its contribution to stability of proteins. *Computational & Structural Biotechnology Journal*, 17, 895-903. <https://doi.org/10.1016/j.csbj.2019.06.022>.
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 22. Gupta S., Alam M.I., Khan T.S., and Haider, M.A. (2019). Mechanistic approaches towards rational design of a heterogeneous catalyst for ring-opening and deoxygenation of biomass-derived cyclic compounds, *ACS Sustainable Chemistry and Engineering*, 7, 101065-10181. <https://doi.org/10.1021/acssuschemeng.9b00734>.
 23. Gupta S., Khan T.S., Saha B., and Haider, M.A. (2019). Synergistic effect of zinc in a bimetallic PdZn catalyst: elucidating the role of under coordinated sites in the hydrodeoxygenation reactions of biorenewable platforms, *Ind. Eng. Chem. Res.* 58, 16153-16163. <https://doi.org/10.1021/acs.iecr.9b00577>.
- (ii) The faculty of the department published papers in international/national conferences during the year:

1. Arun Karthick, Xerxes Mehboob Momin, Pradipta Chattopadhyay, Banasri Roy, Production of Biosurfactant using substrate Mustard Oil, Proceedings of 8th Asian Conference on Colloid and Interface Science (ACCIS 2019), Kathmandu, Nepal, 24-27th September, 2019 (International Conference)
2. Neha J, Nirmal Kumar, Priya TS, B.V.R Kuncharam*, "Synthesis And Characterization Of Mixed-Matrix Material Of Zirconium Based Metal Organic Framework (MOF: UiO-66-NH₂) And Poly(Ether-Urethane-Urea)", at International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), Dubai. 20-22 November 2019.
3. Prateek Sharma, Pratik N Sheth and B.N. Mohapatra, "Waste to Energy: Issues, Challenges, and Opportunities for RDF Utilization in Indian Cement Industry", 7th International Conference on Advances in Energy Research (ICAER), 10 - 12 December 2019, IIT Bombay, Mumbai, India
4. V. Uma Varun, B. Rajesh Kumar, and Krishna. C. Etika, "Hybrid Nanocomposites as EMI Shielding Materials in the X-Band", at International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), Dubai. 20-22 November 2019.
5. Adwait Nagarkar, Shailee Gaur, Amit Jain, "Effect of secondary substrate on biosurfactant production from waste engine oil", Proceedings of Recent Advancements in Biochemical Engineering and Biotechnology [RABEB-2019], March 15-16, 2019, School of Biochemical Engineering, Indian Institute of Technology (BHU) Varanasi, India.
6. Venu Revanth, Shailee Gaur and Amit Jain, "Effect of aeration rates on rhamnolipid production by *Pseudomonas aeruginosa* in a batch bioreactor", Proceedings of Recent Advancements in Biochemical Engineering and Biotechnology [RABEB-2019], March 15-16, 2019, School of Biochemical Engineering, Indian Institute of Technology (BHU) Varanasi, India.

3. CONFERENCES/WORKSHOPS ATTENDED/PAPERS PRESENTED

i) National:

1. Dr. Somak Chatterjee participation in DAE-BRNS 5th National Workshop on Materials Chemistry, SMU, Jaipur, 2019.
2. Dr. Abhishek S. Dhoble participated in "2nd HR Conclave 2019 - Workforce in the Era of Industry 4.0: Skill Development and Upgrading", BITS Pilani, March 2019.

ii) International:

1. Pradipta Chattopadhyay, Participated and presented in 8th Asian Conference on Colloid and Interface Science (ACCIS 2019), Kathmandu, Nepal, 24-27th September, 2019.
2. Ajaya Kumar Pani attended and presented an article "Back pressure monitoring of power plant condenser using multiple adaptive regression spline" in 2nd International Conference on Computing, Communications and Data Engineering (CCODE-2019) at Sri Padmavati Mahila Viswa Vidyalay, Tirupati, India
3. Bhanu Vardhan Reddy Kuncharam presented a paper International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), Dubai. 20-22 November 2019.
4. Krishna Etika presented a paper "Epoxy nanocomposites for electromagnetic interference (EMI) shielding applications" at the International Conference on Nanoscience and Nanotechnology (ICONN-2019) at SRM University, Chennai during Jan 28-30 2019.
5. Krishna Etika presented a paper, "Enhanced thermal stability and mechanical properties in multi-walled carbon nanotube filled polypropylene nanocomposites synthesized using a masterbatch" at the 4th International Conference on Nanotechnology for Better Living, 06-08 April 2019, IIT Kanpur, Kanpur, India.
6. Krishna Etika attended and presented a paper "Hybrid Polymer Nanocomposites as an EMI Shielding Material in the X-Band" in International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), Dubai. 20-22 November 2019.
7. Smita Raghuvanshi, attended and presented a paper entitled "A Sustainable Approach towards Non-photosynthetic Conversion of Carbon Dioxide to Biodiesel utilizing Mixed Microbial Cultures- Steps towards Climate Change", in Engineering Sustainable Development Conference at Korea University from 12-13 December, 2019.
4. Dr. Priya C Sande presented a paper in the 3rd Indo-German Conference on Sustainability in Engineering: Enhancing Future Skills and Entrepreneurship held in BITS Pilani during September 16-17, 2019.

4. BOOKS/BOOK CHAPTERS PUBLISHED: NIL

5. CONFERENCES, SEMINARS & WORKSHOPS CONDUCTED:

1. Department of Chemical Engineering conducted the 4th Workshop on Analytical Instrument for Chemical and Environmental Engineers (WAICEE-2019) during March 25-26, 2019 (Conveners: Dr. Smita Raghuvanshi & Dr. Amit Jain).

2. Department of Chemical Engineering organized one 'Personal and Professional Development Workshop for Women Researchers' on 12th Nov. 2019, in VFAST Conference Hall. This was sponsored by the Association of Commonwealth Universities (ACU), London, to support women in Science and Research (Convener: Dr. Priya C Sande).

6. INVITED TALKS GIVEN BY BITS FACULTY:

1. Dr Pratik N Sheth was invited as a resource person in the national training program on 'Bioenergy: Technology, Demonstration, and its Implementation' to be held during February 27 - March 1, 2019, and delivered a talk on Modeling and Simulation of Thermochemical Conversion of Biomass.
2. Dr Pratik N Sheth delivered an invited talk on Production of Biofuels using Thermochemical Conversion of Biomass during the TEQIP-III supported 'Innovarious 2.0' - Technical Event organized by Department of Chemical Engineering, MBM Engineering College, Jai Narayan Vyas University Jodhpur (April 2019).
3. Dr Pratik N Sheth and Dr Amit Jain were invited as a resource person for the TEQIP III supported workshop on MATLAB and Simulink for Process Engineers at Department of Chemical Engineering, Sant Longowal Institute of Engineering and Technology (April 2019).
4. Dr Pratik N Sheth delivered an invited talk on "Thermochemical Techniques to Produce Hydrogen Gas from Biomass" during the TEQIP-III supported Two week faculty development programme on "Advances in Renewable Energy Systems" organized by Department of Chemistry, Engineering College Bikaner, (An Autonomous Institute of Govt. of Rajasthan) (Dec 2019)
5. Amit Jain, Chemical Engineering Department, delivered a talk on "Decentralized Multiloop
6. Control: Relative Gain Array Analysis", at Bundelkhand Institute of Engineering and Technology (BIET), Jhansi, India on July 28, 2019.
7. Amit Jain, Chemical Engineering Department, invited to conduct a tutorial session on "Hand on Experiments and Modelling Practices using MATLAB", at Bundelkhand Institute of Engineering and Technology (BIET), Jhansi, India on July 28, 2019.

7. INVITED TALKS ARRANGED IN THE DEPARTMENT:

1. "Biogeochemical processes in natural environment: Insights from aquatic ecosystems" by Dr. Rupesh K. Bhomia (Consultant with a Dutch Organization - CATALYZE GROUP, based in Hyderabad) on 11-Sept-2019 (arranged as a part of Biochemical and Environmental Engineering -BioEnvE - colloquium series coordinated by Dr. Abhishek S. Dhoble)
2. "Learnings in the journey of manufacturing entrepreneurship" by Mr. Sabyasachi Roy, Managing Director, ANTS Lab Mumbai, on 19th Oct 2019 as a Department Seminar. (Coordinated by Dr. Krishna C. Etika).

8. AWARDS AND RECOGNITIONS WON

i) Faculty:

1. Dr. Somak Chatterjee and Prof. Sirshendu De (IIT KGP), among top three shortlisted in SERB-IGCW Award for "Fluoride removal from groundwater using chemically amended naturally available materials", 2019.
2. Dr Pratik N Sheth was appointed as an external examiner for practical examination at Banasthali University and at Guru Gobind Singh Indraprastha University.
3. Dr. Krishna Etika was invited and served as an external expert for performing Academic Audit at Vignan's Deemed to be University, Guntur, Andhra Pradesh during July 15-17 2019.
4. Dr. Arvind Kumar Sharma, External Examiner, (B Tech) Final Year Project Viva (BCT-453), USCT, GGS Indraprastha University, Delhi, Nov 25, 2019.
5. Dr Shelaka Gupta, FITT Best Industry Relevant Thesis, IIT Delhi, Nov 2, 2019.
6. Dr Smita Raghuvanshi was appointed as an external examiner for practical examination at Banasthali University and conducted the same in December, 2019.
7. Dr. Hare Krishna Mohanta was invited as an external member in the meeting of the Board of Studies in B.Tech (Chemical Engineering) Programme of Banasthali University on 3rd January, 2019.
8. Dr Hare Krishna Mohanta was invited as an expert member in the Selection Committee of Banasthali Vidyapith for faculty recruitment in Chemical Engineering on June 6, 2019.

ii) Students:

NIL

9. ACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION AND INDUSTRY IMMERSION: NIL**10. SIGNIFICANT NEW EQUIPMENTS/EXPERIMENTAL FACILITY ADDED DURING THE YEAR:**

1. Fluoride ion selective electrode (Purchased from RIG Grant of Dr. Somak Chatterjee).
2. Planetary Ball Mill (Purchased from Department Annual Budget).
3. Thermophilic range (up to 70°C) 510 L Incubator for Anaerobic Experiments (Purchased from RIG Grant of Dr. Abhishek S. Dhoble).
4. Portable 3-D Clinostat / Random Positioning Machine (RPM) for studying microbiomes under microgravity (Built by a team led by Dr. Abhishek S. Dhoble).

11. DEPARTMENTAL ASSOCIATION/CLUB ACTIVITIES**Chemical Engineering Association:**

The first event conducted Chemical Engineering Association was the introductory informal meet-up with the 2019-A1 First Degree students who had just arrived at BITS. A discussion with them about the discipline and various aspects of it both from an academic as well as industrial perspective was shared. In addition, they were also told about the various unique characteristics of the education at BITS and how they can explore the next 4-5 years. A separate brochure for them was developed and shared with them in a digital format explaining them about the Chemical Engineering discipline.

Celebration of the Teachers' Day especially for our teachers at the department was conducted. The event included messages from each teacher for the students, and the students presented them with handwritten cards having personalized messages. The event also witnessed the cutting of a cake as a gesture of gratitude from the students.

An Open House Lab Visit was conducted for the 2018A1 and 2017A1 dual degree students to give them a practical demonstration of the concepts they were being taught in the course Fluid Mechanics. The lab visit was conducted under the guidance of Dr. Pratik Sheth, the IC for the Fluid Mechanics course and Dr. Krishna C. Etika. The experiments in the Lab were demonstrated by the M.E. students who also served as the Teaching Assistants for the Chemical Engineering Lab – 1 course at the same time. The visit saw a huge turnout from the students' side and was complemented with an evaluative component for them based on their visit.

The semester culminated with Farewell to the students of the 2020 batch. The event began with a speech by respected HoD, Prof. H.K. Mohanta who gave the opening address. Musical performances by the First Degree students and a surprise performance by Mr. Tathagat Saxena and Mr. Kartikeya Aditya of the passing out batch were given. A game with the students and the Faculty on the lines of Dumb-Charades was played and lastly, the teachers delivered their messages to the students as they took the next steps after Graduation. This was followed by a dinner that the students had together with their teachers.

The online presence of the Chemical department at the Campus was improved on Social Media with regular updates about the various events involving the students and the teachers. This was done in order to make the GBM at BITS aware about the activities done and also to build a connection with the ex-students of Chemical Engineering from BITS Pilani. A practice to wish all the teachers on any important occasion/festival was also initiated.

IChE Pilani Regional Center:

The IChE Pilani Regional Centre (approved during the 6th annual meeting of IChE held on 26.12.2011 at MSRIT, Bangalore) provides a platform for academicians, researchers, engineers & technologists associated with chemical processes to meet, exchange ideas and developments in the broad field of Chemical Engineering.

Department of Chemical Engineering in association with IChE Pilani Regional Center conducted two invited talks in the year 2019: "Biogeochemical processes in natural environment: Insights from aquatic ecosystems" by Dr. Rupesh K. Bhomia (currently a Consultant with a Dutch Organization - CATALYZE GROUP, based in Hyderabad) on 11-Sept-2019 and "Learnings in the journey of manufacturing entrepreneurship" by Mr. Sabyasachi Roy, Managing Director, ANTS Lab Mumbai, on 19th Oct 2019.

The annual 'Chemical Engineering Symposium' Extropy-2019 was held during 28-31st March 2019. The biennial workshop of the Department WAICEE 2019 was held during 25-26th March 2019.

B1.10.4 Department: Chemistry**Number of faculty members (as on 31st December 2019)**

Senior Professors, Professors	4
Associate Professors	9
Assistant Professors	3
Lecturers	0
Visiting Faculty	0
Visiting Assistant Professors	0

Head of the Department: Prof. Saumi Ray

Contact details: 01596 25-5279/5650

Number of Ph.D. Scholars:

Full Time : 46

Part Time : 1

Aspirant Scheme : 0

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Khima Pandey	2013PHXF0017P	Synthesis of Functionalized Imidazo[1,2-a]pyridines and Amides using Pyridinium Salts.	Prof. Anil Kumar	-
2	Roshan Nazir	2013PHXF0015P	Synthesis of Metal and Metal oxide Nanoparticles for Electrocatalytic Hydrogen and Oxygen Evolution Reaction.	Prof. Surojit Pande	-
3	Hitesh Kumar Saini	2012PHXF0428P	Synthesis of Azaheterocycles via Copper/Palladium-Catalyzed Intramolecular Arylation Reactions.	Prof. Anil Kumar	-
4	Sachin Choudhary	2012PHXF0427P	Organocatalytic Approach towards the Synthesis of Some Nitrogen-Containing Heterocycles	Prof. Indresh Kumar	-
5	Santosh Kumari	2012PHXF0411P	Coumarin-appended Amino Acids and Azaheterocycles: Design Synthesis, Photophysical Studies and Sensing Applications of Selected Compounds.	Prof. Rajeev Sakhuja	-
6	P O Vekataramana Reddy	2012PHXF0409P	Synthesis and Anticancer Activity Studies of Some Novel Indole Related Heterocycles.	Prof. Dalip Kumar	-
7	Sunita Kumari	2013PHXF0016P	Study of Solvation Dynamics in Micelles and Interactions of Gemini Surfactants with β Cyclodextrin and Biomolecules in Aqueous Media.	Prof. Subit Kumar Saha	Prof. G Sundar
8	Nitesh Kumar Nandwana	2013PHXF0425P	Design and Synthesis of Fused Quinazoline via Transition Metal-Catalyzed C-N Coupling Reactions.	Prof. Anil Kumar	Prof. Indresh Kumar
9	Fayaz Baig	2012PHXF0410P	Coordination Polymers of Ligands Based on Imine Functional Groups: Analysis of their Structure and Property Relationship	Prof. Madhushree Sarkar	-
10	Shiv Dhiman	2013PHXF0406P	Design and Synthesis of Quinoline and Quinazolinone Derivatives through Transition Metal-Catalyzed Cascade Protocols.	Prof. Anil Kumar	Prof. Dalip Kumar
11	B Pallavi	2012PHXF0420P	Synthesis, Biological Evaluation and Molecular Docking Studies of Selected N-Heterocyclic Scaffolds.	Dr. Paritosh Shukla	-
12	Devesh S Agarwal	2013PHXF0419P	Design and Synthesis of Bile Acid Conjugates as Anticancer and Smart Low Molecular Weight Gelators.	Prof. Rajeev Sakhuja	-

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
13	Manish Kumar Mehra	2013PHXF0401P	Formation of Carbon-Carbon and Carbon-Heteroatom Bonds using Diaryliodonium Salts: Synthesis of Selected Bioactive Heterocycles.	Prof. Dalip Kumar	Prof. Indresh Kumar
14	Khandagale Santosh Bhausaheb	2013PHXF0019P	Synthesis and Photophysical Studies and Heterocycle-Appended and Fused Porphyrins.	Prof. Dalip Kumar	-
15	Saroj	2013PHXF0020P	Selected Organic Transformation Employing Functionalized Imidazolium and Pyridinium Salts.	Prof. Anil Kumar	-
16	Rajinder Kaswan	2012PHXF0016P	-	Prof. S C Sivasubramanian	Prof. Anshuman Dalvi
17	Dinesh Kumar	2012PHXF0420P	-	Dr. Prashant U Manohar	-
18	Susheela Kumari	2013PHXF0408P	-	Prof. Saumi Ray	-

1. SPONSORED RESEARCH AND CONSULTANCY

PROJECTS SANCTIONED

A. Government Sanctioned

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Sensitive Explosive Detection in Vapor Phase with Cyclometalated Iridium(III), Platinum(II) and Conjugated Hyperbranched Polymer based 'Aggregation Induced Emission' Active Nanoprobes	Chemistry	Dr. Inamur Rahaman Laskar	Dr. Rahul Singhal	DRDO	TBRL, DRDO Laboratory	32,72,600

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Design and development of synthetic industrial methods to access chiral drug candidates	Chemistry	Indresh Kumar	-	Praveen Lab. Pvt. Ltd., Surat	-	20,80,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Transition metal-catalyzed synthesis of fused heterocycles via C-C/C-N bond forming strategies"	Chemistry	Dr. Rajeev Sakhuja	-	SERB	-	33.28 Lakhs

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
2	Synthesis of D-glucose derived glycoconjugates and their application in molecular recognition and catalysis	Chemistry	Dr. Ajay K. Sah	-	SERB	-	30.09 Lac
3	Synthesis of metal complexes using D-glucose derived ligands and application of produced molecules in catalysis	Chemistry	Dr. Ajay K. Sah	-	CSIR	-	11.56 Lac
4	Assesment of sulphur centred halogen bonding (C-X...S, X=Cl,Br,I) interaction using matrix isolation infrared spectroscopy.	Chemistry	Dr. Amrita Chakraborty		DST		29,40,500/-
5	Heteroaromatics-annulated porphyrins: Design, Synthesis and Study of Optoelectronic Properties	Chemistry	Dr. Dalip Kumar	-	DST	-	28.3
6	Design, synthesis and tubulin inhibition activity studies of novel indolyl heterocycles	Chemistry	Dr. Dalip Kumar	-	CSIR	-	20.85
7	Synthesis of heterocycle-fused chromenones and quinolinone through transition metal-catalyzed cascade reactions	Chemistry	Dr. Anil Kumar	-	CSIR	-	
8	Synthesis of novel N-fused polycyclic compounds through transition metal catalysed cascade/C-H functionalization reactions	Chemistry	Dr. Anil Kumar	-	SERB	-	3284600

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty in Journals:**

- Dineshkumar, S, Raj, A, Srivastava, A, Mukherjee, S, Pasha, S. S., Kachwal, V, Fageriab, L, Chowdhury, R, Laskar, IR (2019). Facile Incorporation of 'Aggregation Induced Emission' Active Conjugated Polymer into Mesoporous Silica Hollow Nanospheres: Synthesis, Characterization, Photophysical Studies and Application in Bioimaging. ACS Applied Materials & Interfaces, 11: 31270–31282.
- Alam P, Climent, C, Alemany P, Laskar IR (2019). Aggregation-Induced Emission" of Transition Metal Complexes: Design, Mechanistic Insights and Applications. J. Photochem. Photobiology C: Photochem. Rev., 41: 100317.
- Kachwal, V, Joshi, M, Mittal, V, Roy Choudhury, A, Laskar, IR (2019) Strategic design and synthesis of AIEE (Aggregation Induced Enhanced Emission) active push-pull type pyrene derivatives for the ultrasensitive detection of explosives Sensing and Bio-Sensing Research 23: 100267.
- D. Kumar and P. Manohar; Analytical dipole moments and dipole polarizabilities of doublet radicals using Cholesky representation of constrained variational linear response to Fock-space multi-reference coupled-cluster method with single and double substitutions; Chem. Phys. Lett. 730 (2019) 234-238
- Sharma, M. D.; Mahala, C.; Basu, M. (2019) Band Gap Tuning to Improve the Photoanodic Activity of ZnInxSy for Photoelectrochemical Water Oxidation. Catalysis Science & Technology, 9:6769-6781
- Mahala, C.; Sharma, M. D.; Basu, M. (2019) Hollow Core@Shell Structure of Co₃O₄@Co₃S₄ Function as an Efficient Oxygen Evolution Catalyst. New J. Chem., 43:15768-15776.
- Basu, M. (2019) Porous Cupric Oxide: Efficient Photocathode for Photoelectrochemical water splitting. ChemPhotoChem, 3:1254-1262.
- Mahala, C.; Sharma, M. D.; Basu, M. (2019) Fe Doped Nickel Hydroxide/Nickel Oxyhydroxide Function as an Efficient Catalyst for Oxygen Evolution Reaction. ChemElectroChem, 6:3488-3498.
- Sharma, M. D.; Mahala, C.; Basu, M. (2019) Shape-Controlled Hematite: An Efficient Photoanode for Photoelectrochemical water splitting. Ind. Eng. Chem. Res., 58:7200-7208.
- Mahala, C.; Sharma, M. D.; Basu, M. (2019) ZnO@CdS Heterostructure: An Efficient Photoanode for Photoelectrochemical Water Splitting. New J. Chem. 43:7001-7010.
- Sharma, M. D.; Mahala, C.; Basu, M. (2019) AgPd Alloy Nanoparticles Decorated MoS₂ 2D Nanosheets: Efficient Hydrogen Evolution Catalyst in Wide pH Condition. ChemistrySelect 4:378-386.
- Sharma, M. D.; Mahala, C.; Basu, M. (2019) Nanosheets of MoSe₂@M (M= Pd and Rh) Function as Widespread pH Tolerable Hydrogen Evolution Catalyst. J. Colloid Interface Sci., 534:131-141.
- Kumari, S, Shakoor, SMA, Markad, D, Mandal, SK, Sakhuja, R (2019). NH₄OAc-Promoted Cascade Approach towards Aberrant Synthesis of Chromene-Fused Quinolinones. European Journal of Organic Chemistry, 705-14.
- Karishma, P, Agarwal, DS, Laha, B, Mandal, SK, Sakhuja, R (2019). Ruthenium Catalyzed C-H Acylmethylation of N-Arylphthalazine-1,4-diones with α -Carbonyl Sulfoxonium Ylides: Highway to Diversely Functionalized Phthalazino-fused Cinnolines. Chemistry - An Asian Journal, 14(23):4274-4288.
- Seliem, IA, Panda, SS, Girgis, AS, Nagy, YI, George, RF, Fayad, W, Fawzy, NG, Ibrahim, TS, Al-Mahmoudy, AMM, Sakhuja, R. Design, synthesis, antimicrobial, and DNA gyrase inhibitory properties of fluoroquinolone-dichloroacetic acid hybrids. Chemical Biology & Drug Design (2019), Ahead of Print.

16. Rajinder Kaswan, M. Dinachandra Singh, Seshadri Chandrasekara Sivasubramanian, Anshuman Dalvi, "Preparation and characterization of novel solid electrolytes based on [EMIM] BF₄ and lithium nitrate confined silica gels", *Electrochimica Acta*, Vol. 323 (2019) 134841(13 pages), September 2019.
17. Rajinder Kaswan, S C Sivasubramanian, Yogesh Kumar and Anshuman Dalvi, "Conductivity and capacitance studies of silica glass composites containing [BMIM]Br and LiCl", *Materials Research Express*, Vol. 6, 2019, 105202 (15 pages), August 2019.
18. Kumari, S, Maddipoti, K, Das, B, and Ray, S (2019). Palladium Schiff-Base Complexes Encapsulated in Zeolite-Y Host: Functionality Controlled by the structure of guest complex. *Inorganic. Chemistry*. 58:1527-1540.
19. Kumari, S, Choudhary, A and Ray, S (2019). The Functionality of the Hybrid Systems Driven by Molecular Dimension of the Guest Copper Schiff-Base Complexes Entrapped in Zeolite-Y. *Applied. Organometallic. Chemistry*, 33:e4765.
20. Kumari, S, Das, B and Ray, S (2019). An insight into the catalytic activity of palladium Schiff-base complexes towards the Heck coupling reaction: routes via encapsulation in zeolite-Y. *Dalton Transactions*, 48: 15942-15954.
21. A simple entry to tetracyclic oxazepine-fused pyrroles via metal-free [3+2] annulation between dibenzo[b,f][1,4]oxazepines and aqueous succinaldehyde; S. Choudhary, A. Singh, J. Yadav, N. A. Mir, S. Anthal, R. Kant, and Indresh Kumar; *New J. Chem.*, 2019, 43, 953-962.
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27. "Green Synthesis, in-vitro Antimicrobial Evaluation, Docking, and SAR Studies of Potent Quinoline-4-Carboxylic Acids; Badvel Pallavi, Rajnish Prakash Singh, Prabhat Nath Jha, Subhash Chander, Sankaranarayanan Murugesan, Prachi Sharma, Paritosh Shukla"; *Letters in Organic Chemistry*, Accepted Jan 2019; DOI : 10.2174/1570178616666190123121506
28. "Novel Spiro/non-Spiro Pyranopyrazoles: eco-Friendly Synthesis, in-vitro Anticancer Activity, DNA binding, and in-silico Docking Studies"; Paritosh Shukla*, Ashok Sharma, Leena Fageria and Rajdeep Chowdhury; *Current Bioactive Compounds (CBC)*, 2019, 15(2); 257 - 267. DOI:10.2174/1573407213666170828165512
29. Karan Jaju, Dhritabrata Pal, Amrita Chakraborty, and Shamik Chakraborty, "Electronic substituent effect on Se-H...N hydrogen bond: A computational study of para-substituted pyridine-SeH₂ complexes". (Accepted in *Chemical Physics Letters*:X; *Chemical Physics Letters: X* 4 (2019) 100031.
30. L Fageria, V Bambroo, A Mathew, S Mukherjee, R Chowdhury, S Pande (2019) Functional Autophagic Flux Regulates AgNP Uptake And The Internalized Nanoparticles Determine Tumor Cell Fate By Temporally Regulating Flux, *International Journal of Nanomedicine* 14, 9063.
31. R Nazir, U Basak, S Pande, (2019) Synthesis of one-dimensional RuO₂ nanorod for hydrogen and oxygen evolution reaction: An efficient and stable electrocatalyst, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 560, 141-148.
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33. Amlan Das, Maruthi Kumar Narayanam, Santanu Paul, Pritha Mukherjee, Suvranil Ghosh, Debabrata Ghosh Dastidar, Subhendu Chakrabarty, Arnab Ganguli, Biswarup Basu, Mahadeb Pal, Urmi Chatterji, Sushanta K. Banerjee, Parimal Karmakar, Dalip Kumar, Gopal Chakrabarti, A novel triazole, NMK-T-057 (2019), induces autophagic cell death in breast cancer cells by inhibiting γ-secretase-mediated activation of Notch signalling *J. Biol. Chem.* 294, 6733.

34. P. O. Venkataramana Reddy, K. P. Chandra Shekar, Santosh B. Khandagale, Daiki Hara, Aoi Son, Takeo Ito, Kazuhito Tanabe, Dalip Kumar (2019), Easy Access to Water-Soluble Porphyrin- β -Carboline Conjugates as Potent Photocytotoxic and DNA Cleaving Agents, *Asian Journal of Organic Chemistry* 8, 269–274.
35. Prof Dalip Kumar delivered invited lecture in 25th International Conference of International Academy of Physical Sciences (CONIAPS XXV) on Chemical Design and Efficient Syntheses of Drug-like Heterocycles during December 29-31, 2019 organized by Guru Jambheshwar University of Science & Technology Hisar (Haryana)
36. Prof Dalip Kumar delivered invited lecture in "INTERNATIONAL CONFERENCE ON MODERN APPROACHES OF CHEMICAL SCIENCE AND NANOMATERIALS" on Regioselective Synthesis of Bioactive Heterocycles Using Diaryliodonium Salts during August 26-27, 2019 organized by MIT Lakshmanagarh, Sikar (Rajasthan).
37. Prof Dalip Kumar delivered invited lecture in 25th ISCB International Conference (ISCBC-2019), Trends in Chemical and Biological Sciences: Impact on Health and Environment on Efficient Syntheses of Drug-like Nitrogen Heterocycles, during January 12-14, 2019, Organized by ISCB, Lucknow, India.
38. Hamid, A. and Roy, R.K., (2019). Solvent effect on stabilization energy: An approach based on density functional reactivity theory. *International Journal of Quantum Chemistry*, 119(11), p.e25909.
39. Saroj, OPS Patel, K. Rangan, Anil Kumar (2019) Metal-free unprecedented synthesis of pyridin-2-yl ureas from 2-aminopyridinium salts, *Tetrahedron Lett.* 2019, 60, 150939
40. NK Nandwana, OPS Patel, MR Srivathsa, Anil Kumar, Dual role of glyoxal in metal-free dicarbonylation reaction: Synthesis of symmetrical and unsymmetrical dicarbonyl imidazoheterocycles, *ACS Omega*, 2019, 4, 10140-10150.
41. OPS Patel, S Dhiman, S Khan, VN Shinde, S Jaspal, MR Srivathsa, PN. Jha, Anil Kumar, A straightforward TBHP-mediated synthesis of 2-amidobenzoic acids from 2-arylindoles and their antimicrobial activity, *Org. Biomol. Chem.*, 2019, 17, 5962-5970.
42. HK Saini, S Dhiman, NK Nandwana, K Rangan, Anil Kumar, Copper and palladium-catalyzed sequential reactions: One-pot synthesis of isoindolo[2,1-b]isoquinolin-7(5H)-ones, *Org. Biomol. Chem.* 2019, 17, 4281-4290.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Dr. Inamur R. Laskar attended as an invited speaker at National Symposium on Convergence of Chemistry & Materials (CCM-2019) from December 17-18, 2019 at Department of Chemistry, BITS Pilani, Hyderabad Campus
2. Prashant Uday Manohar presented Invited talk entitled "Cholesky representation of constrained variational response to valence universal coupled-cluster method for analytical properties of doublet radicals" in the third "North-West meeting on Spectroscopy, Structure and Dynamics (SSD-2019)" at IIT Roorkee during April 5-7, 2019
3. Prashant Uday Manohar presented a talk entitled "Cholesky representation of CVA-FSMRCCSD for analytical dipole moments and dipole polarizabilities of doublet radicals" in the third National conference on "New Frontiers in Chemistry-From Fundamentals to Applications (NFCFA-2019)" at BITS Pilani, KK Birla Goa Campus during December 20-22, 2019
4. Dr. Rajeev Sakhuja delivered an invited talk on "Harvesting fused & functionalized azaheterocycles via metal-catalyzed and metal-free strategies: Promising pharmacophores for drug development during 25th ISCB International Conference (ISCBC-2019) from January 12-14, 2019 at Lucknow.
5. Gurpreet Kaur, Rajinder Kaswan, S. C. Sivasubramanian, Anshuman Dalvi, "Electrical Conductivity and Thermal Studies on [EMIM]BF₄, Li⁺ and Cu²⁺ Confined Silica Gel Composites" 64th DAE-Solid State Physics Symposium (64th DAE-SSPS) held at IIT Jodhpur from December 18-22, 2019 will be published in, *AIP Conference Proceedings* (2019) 10065.
6. Gurpreet Kaur, S. C. Sivasubramanian, Anshuman Dalvi, "Electrical Conductivity and Thermal Studies on [EMIM]BF₄, Li⁺ and Cu²⁺ Confined Silica Gel Composites" Oral presentation at 13th national conference on solid state ionics (NCSSI-13) held at IIT Roorkee from December 16-18, 2019.
7. Dr Ajay K Sah attended and delivered a short invited lecture during New Frontiers in Chemistry-from Fundamentals to Applications-III (NFCFA2019) from December 20 – 22, 2019 at Department of Chemistry, BITS Pilani, K K Birla Goa Campus.
8. Dr. Shamik Chakraborty has delivered a (Title: Let's have isolation) talk in North-West Meeting on Spectroscopy, structure, and Dynamics (SSD-2019) from 5th April to 7th April, 2019 at the Department of Chemistry, Indian Institute of Technology (IIT) Roorkee.

9. Dr. Shamik Chakraborty has delivered a talk (Title: Conformational analysis of molecules and clusters under isolation) in Let there be light from 10th to 13th November, 2019 at Ravla Khempur, Udaipur, organised by Tata Institute of Fundamental Research (TIFR) Mumbai, Indian Institute of Technology (IIT) Bombay, and National Chemical Laboratory.
10. Prof. Ram Kinkar Roy (as a convenor) conducted and attended the 16th Theoretical Chemistry Symposium (TCS-2019) at Birla Institute of Technology and Sciences Pilani, Pilani campus, from February 13 – 16, 2019.
11. Dr Anil Kumar attended and delivered an invited lecture at 107th Indian Science Congress held at University of Agricultural Sciences, GKVK Campus, Bangalore, Karnataka from 3-7th January, 2020.
12. Dr Anil Kumar attended and delivered an invited lecture at 25th ISCB International Conference (ISCBC-2019) organized by Indian Society of Chemists & Biologists at Hotel Golden Tulip, 6, Station Road, Lucknow - 226001 (U.P.) India

ii) International:

1. Dr. Inamur R. Laskar attended as an invited speaker at 4th International Conference on Aggregation Induced Emission: materials, Mechanism and Applications (AIE 4) from January, 20-26, 2019 at at Department Flinders University, Adelaide, Australia.
2. Dr. Indresh Kumar attended and deliver an Invited Lecture entitled " Linear dicarbonyls as suitable substrates for amine catalyzed transformations: Synthesis of medium-sized N-heterocyclic compound" during 25th ISCB International Conference (ISCBC-2019) at Lucknow during January 12-14, 2019.
3. Dr. Indresh Kumar attended and deliver an Invited Lecture entitled " Linear dicarbonyls as suitable substrates for amine catalyzed transformations: Synthesis of medium-sized N-heterocyclic compound" during 25th International Conference of International Academy of Physical Sciences (CONIAPS XXV) Guru Jambheshwar University of Science & Technology, Hisar- India during December 29-31, 2019.
4. Dr. Shamik Chakraborty has presented a poster (Title: Isolated ethanol revisited: Matrix isolation infrared study) in Spectroscopy and Dynamics of Molecules and Clusters (SDMC 2019) from February 21st to February 24th, 2019 at Koti Resort, Shimla organised by Indian Institute of Science Education and Research (IISER) Mohali and Indian Institute of Technology (IIT) Kanpur.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Kiran Bajaj, Natural Bioactive Cyclic peptides and Peptidomimetics, Study in Natural Products Chemistry, Vol 62, 2019, 343-376. ELSEVIER publishing House. USA.
2. K. Anebuselvy, D. B. Ramachary, Indresh Kumar; Diamine Catalysis for Organic Synthesis (Royal Society of Chemistry, RSC-London) Hardback 9781782620907.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

- Organised symposium in the Department called as "Theoretical Chemistry Symposium (TCS-2019) during February 13-16, 2019.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Prashant Uday Manohar presented Invited talk entitled "Cholesky representation of constrained variational response to valence universal coupled-cluster method for analytical properties of doublet radicals" in the third "North-West meeting on Spectroscopy, Structure and Dynamics (SSD-2019)" at IIT Roorkee during April 5-7, 2019.
2. Dr. Rajeev Sakhuja delivered an invited talk on "Harvesting fused & functionalized azaheterocycles via metal-catalyzed and metal-free strategies: Promising pharmacophores for drug development during 25th ISCB International Conference (ISCBC-2019) from January 12-14, 2019 at Lucknow.
3. Prof. Bharti Khungar delivered an invited talk on "Imidazolium and Pyridinium Ion-tagged Ligands: Key Moieties for Catalyst Generation and Chemosensory Applications" in the International conference on Recent Advances at the Interface of Physical and Life Sciences (RAIPLS-2019) organized by University of Rajasthan, Jaipur, January 28-30, 2019.
4. Dr. Indresh Kumar attended and deliver an Invited Lecture entitled " Linear dicarbonyls as suitable substrates for amine catalyzed transformations: Synthesis of medium-sized N-heterocyclic compound" during 25th ISCB International Conference (ISCBC-2019) at Lucknow during January 12-14, 2019.
5. Dr. Indresh Kumar attended and deliver an Invited Lecture entitled " Linear dicarbonyls as suitable substrates for amine catalyzed transformations: Synthesis of medium-sized N-heterocyclic compound" during 25th International Conference of International Academy of Physical Sciences (CONIAPS XXV) Guru Jambheshwar University of Science & Technology, Hisar- India during December 29-31, 2019.

6. Dr Ajay K Sah attended and delivered a short invited lecture during New Frontiers in Chemistry-from Fundamentals to Applications-III (NFCFA2019) from December 20 – 22, 2019 at Department of Chemistry, BITS Pilani, K K Birla Goa Campus.
7. Dr Anil Kumar attended and delivered an invited lecture at 107th Indian Science Congress held at University of Agricultural Sciences, GKVK Campus, Bangalore, Karnataka from 3-7th January, 2020.
8. Dr Anil Kumar attended and delivered an invited lecture at 25th ISCB International Conference (ISCBC-2019) organized by Indian Society of Chemists & Biologists at Hotel Golden Tulip, 6, Station Road, Lucknow - 226001 (U.P.) India

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

Following Faculties delivered invited lecture in the department they also interacted with Faculty and Students.

S.No.	Faculty Name	Univ.	Date
1.	Prof. Srinivasan Sampath	IISc., Bangaluru	26/02/2019
2.	Prof. Naresh Patwari	IIT, Bombay	09/03/2019
3.	Prof. Joydev K Laha	NIPER, Mohali	09/03/2019
4.	Prof. Sasanka Deka	Delhi Univ., Delhi	09/03/2019
5.	Prof. Ravindra Pandey	Roswell Park/Howard Univ..	25/03/2019
6.	Prof. D S Rawat	Univ. of Delhi, Delhi	18/04/2019
7.	Prof. Rodney A Fernades	IIT, Bombay	25/04/2019
8.	Prof. G Sekar	IIT, Madras	26/04/2019
	Prof. K N Singh	BHU, Varanasi	04/05/2019
9.	Dr. Noorullah Baig	Gulf Univ. Kuwait	06/08/2019
10.	Prof. A K Sinha	CDRI, Lucknow	08/11/2019
11.	Prof. Michael Gozin	Tel Aviv Univ.	13/12/2019
12.	Prof. T Punniyamurthy	IIT, Guwahati	16/12/2019

10. AWARDS AND RECOGNITIONS

Won by Faculty:

1. Prof. Anil Kumar is selected for CRSI Bronze Medal (2019-20) by Chemical Research Society of India, Bangalore
2. Prof. Anil Kumar received INSA-Visiting Scientist Fellowship to visit Germany under International Scientific Collaboration and Exchange of Scientists Programme, INSA New Delhi (2019).

Won by Students:

NIL

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION: NIL

12. PATENTS FILED/PUBLISHED AND GRANTED:

NIL

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES:

NIL

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED:

NIL

S.No.	Software/Equipment	No. of Licenses or Qty.
14.	Fluorescence Spectrophotometer	1
15.	HPLC System	1
16.	ChemDraw Professional 18 Windows (Software)	4 Users
17.	PDF 2 DVD Release 2019 (Software)	1

B1.10.5 Department: Computer Science & Information SystemsNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	03
Associate Professors	03
Assistant Professors	19
Lecturers	-
Visiting Faculty	-
Visiting Assistant Professors	-

Head of the Department : Prof. Poonam Goyal**Contact details : 01596-255409****Number of Ph.D. Scholars : 19****Full Time : 16****Part Time : 01****Aspirant Scheme : 02****Ph.D. Thesis Submitted during the year: 2019**

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Chandramani Chaudhary	2012PHXP0010P	Improving Image Retrieval for Complex Queries by Leveraging Internal and External Resources	Poonam Goyal	Yi-Ping Phoebe Chen La Trobe University, Melbourne
2	Saiyedul Islam	2011PH03062P	Design of a Parallelizing Compiler for a Domain Specific Language for Data Mining	Navneet Goyal	Prakash S Raghavendra
3	Jagat Sesh Challa	2006PH120559P	Design and Development of Data Indexing Techniques for Mining Large and Streaming Data	Poonam Goyal	Anil Maheshwari, Carleton University

1. SPONSORED RESEARCH AND CONSULTANCY**(i) PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Mobile App for Assisting Indian Farmers in Improving Yield by Automatic Identification of Plant Diseases (Rice and Tomato)	CSIS	Sundaresan Raman	-	DST	-	17,73,158
2	Design and Implementation of Content Based Recommender System for Effectively Answering Web based User Queries	CSIS	Yashvardhan Sharma	Lavika Goel	DST	-	16,57,560

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of Real Time Multi-objective Route Recommender System Using AI	CSIS	Kamlesh Tiwari	Ashutosh Bhatia	MapmyIndia	-	7.424

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Disaster Monitoring from Aerial Imagery using Deep Learning	CSIS	Pratik Narang	-	ACRG	-	7,90,000
2	Specification and Enforcement Verification of Dynamic Separation of Duty Constraints in Attribute Based Access Control Systems	CSIS	Sadhana Jha	-	RIG	-	2,00,000
3	MOR: An Integrated Model-Based Safety Framework for Complex Inter-Connected Systems	CSIS	Rajesh Kumar	-	RIG	-	2,00,000

(ii). ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Mobile App for Assisting Indian Farmers in Improving Yield by Automatic Identification of Plant Diseases (Rice and Tomato)	CSIS	Sundaresan Raman	-	DST	-	17,73,158
2	Design and Implementation of Content Based Recommender System for Effectively Answering Web based User Queries	CSIS	Yashvardhan Sharma	Lavika Goel	DST	-	16,57,560

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Development of Real Time Multi-objective Route Recommender System Using AI	CSIS	Kamlesh Tiwari	Ashutosh Bhatia	MapmyIndia	-	7,42,400

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Disaster Monitoring from Aerial Imagery using Deep Learning	CSIS	Pratik Narang	-	ACRG	-	7,90,000
2	Enhancing Cyber Security Approaches using Artificial Intelligence	CSIS	Pratik Narang	-	RIG	-	2,00,000
3	Specification and Enforcement Verification of Dynamic Separation of Duty Constraints in Attribute Based Access Control Systems	CSIS	Sadhana Jha	-	RIG	-	2,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
4	MOR: An Integrated Model-Based Safety Framework for Complex Inter-Connected Systems	CSIS	Rajesh Kumar	-	RIG	-	2,00,000

(iii). COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Information Gathering from Encrypted Mobile Phone Applications	CSIS	Ashutosh Bhatia	Kamlesh Tiwari	CARS	-	9,29,500

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	IoT based Data Integrity Verification System for Healthcare Applications	CSIS	Jennifer Ranjani J	-	RIG	-	20,00,00
2	A Web Browser-Based Extension for Defending HTML5 Web Applications against Script Injection Vulnerabilities on Cloud and Fog Computing Infrastructure	CSIS	Shashank Gupta	-	RIG	-	2,00,000

2. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty in Journals**

- Chandramani Chaudhary, Poonam Goyal, Dhanashree N Prasad, Y P Phoebe Chen, "Enhancing the quality of Image Tagging using a Visio-Textual Knowledge Base", In IEEE Transactions on Multimedia (TMM) (In Press) DOI: 10.1109/TMM.2019.2937181.
- L Goel, S Raman, SS Dora, A Bhutani, AS Aditya, A Mehta, Hybrid computational intelligence algorithms and their applications to detect food quality, Artificial Intelligence Review, pp 1-26, 2019
- Bhardwaj, R., Sinha, S., Sahu, N., Majumder, S., Narang, P. and Mukhiya, R., "Modeling and simulation of temperature drift for ISFET-based pH sensor and its compensation through machine learning techniques". International Journal of Circuit Theory and Applications, Wiley, 2019
- Jindal A., Dua A., Kumar N., Das A.K., Vasilakos A.V., Rodrigues J.J.P.C. "Providing Healthcare-as-a-Service Using Fuzzy Rule Based Big Data Analytics in Cloud Computing", IEEE Transactions on Biomedical Engineering, 22, 1605-1618, (2019)
- Dua A., Kumar N., Das A.K., Susilo W. "Secure message communication protocol among vehicles in smart city", Journal of Testing and Evaluation, 67, 4359-4373, (2019)

6. Chandramani Chaudhary, Poonam Goyal, SiddhantTuli, ShuchitaBanthia, Navneet Goyal, Yi-Ping Phoebe Chen, "A Novel Multimodal Clustering Framework for Images with Diverse Associated Text", In *Multimedia Tools & Applications*, vol. 78, no. 13, Springer, 2019. DoI: 10.1007/s11042-018-7131-x
7. Shashank Gupta, Monika Sharma and Dhruv Kumar, "SEC-H5: Secure and efficient integration of settings of enhanced HTML5 XSS vector defensive framework on edge network of fog nodes" *Concurrency and Computation Practice and Experience*, Wiley, pp. 1-26, 2019.
8. Sudharshan Chakravarthy, Madhav Anand Jagannathan, J. Jennifer Ranjani, Balumurugan Baluswamy, SeifedineKadry, "An Optimized Hierarchical Encryption Technique for Tamper Detection", *Multimedia Tools and Applications*, Springer, vol. 78, no. 13, pp. 18693–18712, 2019.
9. A. Mishra, P. Trivedi, "Benchmarking the contention aware nature inspired metaheuristic task scheduling algorithms", *Cluster Computing*, <https://doi.org/10.1007/s10586-019-02943-z> (2019).
10. Rupal Bhargava, Shivangi Arora, Yashvardhan Sharma, "Neural Network-Based Architecture for Sentiment Analysis in Indian Languages", *Journal of Intelligent Systems*, De Gruyter, Volume 28, Issue 3, pp. 361-376, Jul 2019.
11. Rupal Bhargava, Anushka Baoni, Yashvardhan Sharma, "Composite Sequential Modeling for Identifying Fake Reviews", *Journal of Intelligent Systems*, De Gruyter, Volume 28, Issue 3, pp. 409-422, Jul 2019.
12. Chandramani Chaudhary., Poonam Goyal., SiddhantTuli., ShuchitaBanthia., Navneet Goyal., Yi-Ping Phoebe Chen "A novel multimodal clustering framework for images with diverse associated text", *Multimedia Tools and Applications*, -, 1-30, (2019)
13. Rohil, M.K., Gupta, N., and Yadav, P., "An Improved Model for No-Reference Image Quality Assessment and a No-Reference Video Quality Assessment Model based on Frame Analysis". *Signal, Image and Video Processing*, Springer, 2019.
14. Poonam Goyal, Sonal Kumari, Sumit Sharma, Sundar Balasubramaniam, Navneet Goyal, "Parallel SLINK for Big Data", In *International Journal of Data Science and Analytics (JDASA)*, Springer. (In Press). DOI: 10.1007/s41060-019-001884
15. Poonam Goyal, Purna Kaushik, Pranjali Gupta, Dev Vashisth, Shavak Agarwal and Navneet Goyal, "Multilevel Event Detection, Storyline Generation and Summarization for Tweet Streams", *IEEE Transactions Computational Social Systems (TCSS)* (In Press) DoI: 10.1109/TCSS.2019.2954116
16. Chaudhary, Pooja, Brij B. Gupta, and Shashank Gupta. "A Framework for Preserving the Privacy of Online Users Against XSS Worms on Online Social Network." *International Journal of Information Technology and Web Engineering (IJITWE)*, IGI Global, 14, no. 1 (2019): 85-111.
17. Rajput, A.S. and Raman, B., "A privacy-preserving protocol for efficient nighttime haze removal using cloud based automatic reference image selection and color transfer as a service". *Computer Communications*, Elsevier, In-Press, 2019. (SCIE)
18. Siddharth Agarwal, Jennifer Ranjani, "Image Integrity Verification via Reversible Predictive Hiding and Elliptic Curve Diffie-Hellman", *International Journal of Innovative Computing and Applications*, vol. 10, no. 3-4, pp. 154 - 163, 2019.
19. Khandelwal I., Raman S. (2019) Analysis of Transfer and Residual Learning for Detecting Plant Diseases Using Images of Leaves. In: Verma N., Ghosh A. (eds) *Computational Intelligence: Theories, Applications and Future Directions - Volume II. Advances in Intelligent Systems and Computing*, vol 799. Springer, Singapore
20. Kumar S., Raman S. (2020) Lung Nodule Segmentation Using 3-Dimensional Convolutional Neural Networks. In: Das K., Bansal J., Deep K., Nagar A., Pathipooranam P., Naidu R. (eds) *Soft Computing for Problem Solving. Advances in Intelligent Systems and Computing*, vol 1048. Springer, Singapore
21. Sundaresan Raman, Shantanu Singh, Thierry Pecot, Enrico Caserta, Kun Huang, Jens, Rittscher, Gustavo Leone, Raghu, Machiraju, *Capturing Variations in Nuclear Phenotypes*, *Journal of Computational Sciences*, Volume 36 (2019)

3. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Kaliyar, R. K., Goswami, A., Narang, P., "Multiclass Fake News Detection using Ensemble Machine Learning", *IEEE IACC 2019, India*
2. Pravin Murkya, Jasmeet Singh, Ashutosh Bhatia: A Topology Independent TDMA-based MAC protocol for Vehicular Networks. *COMSNETS 2019: 407-409*
3. Ashutosh Bhatia, Rahul Nehete, Praveen Kaushik, Pravin Murkya, K. Haribabu: A Lightweight ARQ Scheme to Minimize Communication Overhead. *COMSNETS 2019: 507-509*

4. Sandhya Rathee, Rahul Sharma, Piyush Kumar Jain, K. Haribabu, Ashutosh Bhatia, Sundar Balasubramaniam: OpenSnap: Collection of Globally Consistent Statistics in Software Defined Networks. COMSNETS 2019: 149-156

ii) International:

1. Aditya Sarma A S, Poonam Goyal, Sonal Kumari, Anand Wani, Jagat Sesh Challa, Saiyedul Islam, Navneet Goyal, "MuDBSCAN: An Exact Scalable DBSCAN Algorithm for Big Data Exploiting Spatial Locality", In 2019 IEEE International Conference on Cluster Computing (IEEE Cluster 2019), Sep 22-26, Albuquerque, USA.
2. Rohil, M.K., and Srujana, N., 2019. "Towards reducing Bullwhip Effect in Supply Chain Management using Blockchain Technology". The 3rd International Research Conference on Emerging Information Technology and Engineering Solutions (EITES 2019), December 19-20, 2019. SCIT, Pune, India.
3. Rohil, M.K., and Gupta, N., 2019. "Visualization of Recursive Database-Query Output using a Declarative System: An Illustration through Parts-Assembly Tree Visualization". The 5th IEEE International Conference for Convergence in Technology, March 29-31, 2019. The Gateway Hotel (Taj), XION Complex, Wakad Road, Pune, India.
4. Gupta, N.K., and Rohil, M.K., 2019. "Big Data Security Challenges and Preventive Solutions". The 3rd International Conference on Data Management, Analytics and Innovation, January 18-20, 2019. Kuala Lumpur, Malaysia. Conference Proceedings by Springer.
5. Saharan, S., & Gupta, V. (2019, January). Prevention and Mitigation of DNS based DDoS attacks in SDN Environment. In 2019 11th International Conference on Communication Systems & Networks (COMSNETS) (pp. 571-573). IEEE.
6. Gupta, V., Kochar, A., Saharan, S., & Kulshrestha, R. (2019, February). DNS Amplification Based DDoS Attacks in SDN Environment: Detection and Mitigation. In 2019 IEEE 4th International Conference on Computer and Communication Systems (ICCCS) (pp. 473-478). IEEE.
7. Gupta, Vishal. "Deriving Priority Vector in Analytic Hierarchy Process: An Exhaustive Comparative Analysis on Different Metrics." 3rd International Conference on Evidence Based Management (ICEBM 2019)
8. V J. Aski, Shashank Gupta, and Bharat Sarkar. "An Authentication-Centric Multi-Layered Security Model for Data Security in IoT-Enabled Biomedical Applications." In IEEE 8th Global Conference on Consumer Electronics (GCCE 2019), IEEE Consumer Electronics Society, Osaka, Japan, Oct. 15-18th, 2019. (Accepted, in Press)
9. A. Mishra, K. S. Mishra, P. K. Mishra, "Performance Evaluation of Simulated Annealing Based Task Scheduling Algorithms", ICIMMI 2019, Jaipur.
10. R. Bhargava, A. Agarwal and Y. Sharma, "FAID: Feature Aftermath for Irony Discernment," 2019 9th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2019, IEEE, 9-11 January 2019, Amity University, INDIA. pp. 675-680. doi: 10.1109/CONFLUENCE.2019.8776609
11. Rupal Bhargava, Bapiraju Vamsi Tadikonda, Yashvardhan Sharma, "Named Entity Recognition for Code Mixed Sentences", In proceedings of International conference on Machine learning, Image processing, Network security and Data Sciences(MIND), 3 - 4 March, 2019 | To be published in Springer in their prestigious IETE Springer series, NIT Kurukshetra, INDIA.
12. Rupal Bhargava, Yashvardhan Sharma, "Deep Extractive Text Summarization", International Conference on Computational Intelligence and Data Science (ICCIDS 2019), (ICCIDS 2018), To be published in Procedia Computer Science 132(Elsevier) , 6th-07th September, 2019.
13. Rupal Bhargava, Gargi sharma, Yashvardhan Sharma, "Deep Text Summarization using Generative Adversarial Networks in Indian Languages", International Conference on Computational Intelligence and Data Science (ICCIDS 2019), (ICCIDS 2018), To be published in Procedia Computer Science 132(Elsevier) , 6th-07th September, 2019.
14. Virendra Singh Shekhawat, Ankur Vineet, Avinash Gautam, "Efficient Content Caching for Named Data Network Nodes", MobiQuitous 2019 - 16th EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services, November 12-14, 2019, Houston, United States
15. A. Gautam, V. S. Shekhawat and S. Mohan, "A Graph Partitioning Approach for Fast Exploration with Multi-Robot Coordination," 2019 IEEE International Conference on Systems, Man and Cybernetics (SMC), Bari, Italy, 2019, pp. 459-465. doi: 10.1109/SMC.2019.8914401
16. V. Agarwal, "Adaptive Radial Basis Functions Neural Network For Motor Imagery Task Classification," 2019 Twelfth International Conference on Contemporary Computing (IC3), Noida, India, 2019, pp. 1-6. doi: 10.1109/IC3.2019.8844882

17. Sandhya Rathee, T. Dinesh Ram Kumar, K. Haribabu, Ashutosh Bhatia: A Framework to Achieve Full Waypoint Enforcement in Hybrid SDN Networks. AINA 2019: 325-340
18. Varun Amrutiya, Siddhant Jhamb, Pranjal Priyadarshi, Ashutosh Bhatia: Trustless Two-Factor Authentication Using Smart Contracts in Blockchains. ICOIN 2019: 66-71
19. Denson George, Wani Anand, Ashutosh Bhatia "A Blockchain based Solution to Know Your Customer (KYC) Dilemma" IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS) 2019
20. Subham Kumar, Ashutosh Bhatia, "Detecting Domain Generation Algorithms to prevent DDoS attacks using Deep Learning" IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS) 2019
21. Aditya Goyal, Nikhil Kumar, Amit Dua, Neeraj Kumar, Joel J. P. C. Rodrigues, Dush Nalin K. Jayakody, "An Efficient Scheme for Path Planning in Internet of Drones," IEEE Global Communications Conference 9-13 December 2019, Hawaii, USA.
22. Amit Dua, Megha Shishodia, Nikhil Kumar, Gagangeet Singh Aujla, and Neeraj Kumar, "Bloom Filter based Efficient Caching Scheme for Content Distribution in Vehicular Networks," IEEE International Conference on Communications Workshops (ICC Workshops): 6th International Workshop on Research Advancements in Future Networking Technologies (RAFNET), May 2019, Shanghai, China.
23. Gaurang Bansal, Amit Dua, Gagangeet Singh Aujla, Maninderpal Singh, and Neeraj Kumar, "SmartChain: A Smart and Scalable Blockchain Consortium for Smart Grid Systems," IEEE International Conference on Communications Workshops (ICC Workshops.): SecSDN: Secure and Dependable Software Defined Networking for Sustainable Smart Communities, May 2019, Shanghai, China
24. Upendra Singh, Amit Dua, Neeraj Kumar, "SDN Based Dynamic Resource Scheduling for Large Scale Data Centers", IEEE International Conference on Advanced Networks and Telecommunications Systems 16-19 December 2019, Goa, India.
25. Amit Dua, Prateek Sharma, Kunal Kumar, Neeraj Kumar, Upendra Singh, "Fuzzy Rough Set based Social IoT Recommender System", IEEE International Conference on Advanced Networks and Telecommunications Systems 16-19 December 2019, Goa, India.

4. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. (Book Chapter) J. Jennifer Ranjani, "Quantum Image Processing and its Applications", Handbook of Multimedia Information Security: Techniques and Applications, Multimedia Tools and Applications, Springer, pp. 395 - 411, 2019.
2. Dinesh Ram Kumar T., Bhatia A., Hansdah R.C., Exploiting Multiple Paths in Multi-hop Co-operative Ad-Hoc Networks for Providing Security without Trusted Third Party. In: Barolli L., Takizawa M., Xhafa F., Enokido T. (eds) Advanced Information Networking and Applications.. Advances in Intelligent Systems and Computing, vol 926. Springer, Cham.
3. Vishvakarma D. K., Bhatia A., Riha Z., Detection of Algorithmically Generated Domain Names in Botnets. In: Barolli L., Takizawa M., Xhafa F., Enokido T. (eds) Advanced Information Networking and Applications. Advances in Intelligent Systems and Computing, vol 926. Springer, Cham.

5. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Department of Computer Science & Information Systems organized a one day workshop on "Blockchain technology and applications" on November 10, 2019.
2. Department of Computer Science & Information Systems organized a four day workshop on "Applied Deep Learning (IWADL-2019)", during Dec. 15-18, 2019.

6. INVITED TALKS GIVEN BY BITS FACULTY

1. Dr. Vishal Gupta, delivered a guest lecture on "Automata Theory" in Manipal University Jaipur on November 08, 2019.
2. Dr. Avinash Gautam delivered an Expert Talk in Two Week Short Term Course On "Emerging Trends and Innovation in Engineering & Science (ETIES)" Sponsored by TEQIP-III from 22nd July – 2nd August 2019. It was organized by Department of Computer Science, Government Engineering College, Ajmer (Rajasthan).
3. Dr. Virendra Singh Shekhawat delivered an Expert Talk in Two Week Short Term Course On "Emerging Trends and Innovation in Engineering & Science (ETIES)" Sponsored by TEQIP-III from 22nd July – 2nd August 2019. It was organized by Department of Computer Science, Government Engineering College, Ajmer (Rajasthan).
4. Dr. Vaibhav Soni delivered expert lectures on "Artificial Intelligence, Machine Learning and Deep Learning" on the date 17th, 18th, 19th, 20th and 21st September in one week lecture series on "Artificial Intelligence,,"

IoT, Cloud Computing, Machine Learning and Deep Learning” from 17th to 21st September organized by Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar and sponsored by TEQIP-III Rajkiya Engineering College Ambedkar Nagar.

5. Dr. Pratik Narang delivered an expert lecture on “Computer Vision using Deep Learning” at Manipal University, Jaipur, on 21 October 2019.
6. Dr. Vishal Gupta, was a guest speaker in the One Week Short Term Course On “Networking Tools & Technologies (NTAT)” from 04th Nov to 8th Nov 2019. It was organized by Department of Computer Science, Government Engineering College, Ajmer.
7. Dr. Virendra Singh Shekhawat delivered a talk on "Network Simulation and Modeling using ns-3 Simulator" in an International Workshop on Stochastic Simulation and its Applications (WSSA 2019) organized by Department of Mathematics at BITS, Pilani, Pilani campus on Dec 27, 2019.
8. Dr. Kamlesh Tiwari, delivered a talk on "Intuitions on NN and DL" for AI/ML campus immersion program at BITS Pilani, Hyderabad Campus during Nov 16-17, 2019
9. Dr. Kamlesh Tiwari, delivered a talk on "Deep Learning" at ICAR New Delhi on Oct 04, 2019 and at BKBIT, Pilani on February 12, 2019
10. Dr. Kamlesh Tiwari, delivered a talk on "Artificial Intelligence" at Birla Public School Pilani on May 17, 2019

7. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Dr. Sriram Rajamani, Distinguished Scientist and Managing Director, Microsoft Research India Lab, delivered a series of lectures on “Data types, Lambda Calculus and abstract interpretation (verification of imperative programs, following the operational semantic rules for partial correctness)” at the Department of Computer Science & Information Systems, BITS Pilani from October 12-15, 2019.
2. Prof. P. Krishna Reddy, IIT Hyderabad, Telangana State, India delivered a talk on “Experiences of Building IT-based Systems to Deliver Actionable Agricultural Information to Indian Farmers” at the Department of Computer Science & Information Systems, BITS Pilani from on December 6, 2019.

8. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Dr. Vishal Gupta received Best Paper Presentation Award in 2019 IEEE 4th International Conference on Computer and Communication Systems (ICCCS 2019) held in Singapore.
2. Dr. Avinash Gautam has been appointed as a member of project monitoring and review committee (PMRC) by Center for Artificial Intelligence and Robotics (CAIR), DRDO, Bangalore for its project titled “Visual SLAM Based Augmentation of GNSS (ViSAG)”. The project is of a duration of five years 2019-2024.
3. Akankshya Mishra, Yashvardhan Sharma, “Language Identification and Context-based Analysis of Code-switching Behaviors in Social Media Discussions” IEEE BigData Conference (To be published in IEEE), Los Angeles, CA, USA December 9-12, 2019.

b. Won by Students:

3. TANYA GARG (2018A7PS0215P) won first prize at Smart India Hackathon (SIH) 2019 held on 2nd and 3rd March 2019.
4. HEMANTH VARMA ALLURI (2017A7PS1170P) successfully completed GSoC (Google Summer of Code) under the Zulip Open Source Project in 2019.
5. MADHUR PANWAR (2016B4A70933P) awarded the 2019 MITACS Globalink Research Internship funded by a Canadian organization Mitacs from May-Aug, 2019.
6. SYED AHSAN ABBAS (2017B3A70507P) selected as one of the Future Research Talent (FRT) scholars for 2020 at the Australian National University. Scholarship awarded : \$6000AUD ~ ₹3,00,000
7. MRIGANKSHI KAPOOR (2015B3A70616P) awarded Yes Future Ready Scholar, 2019. The award seeks to identify 30 exemplary scholars from over 25 select business and engineering campuses in India including IITs and IIMs. She was also Runner Up, ML section- GS Quantify, 2019. The GS Quantify is a flagship coding contest organized by Goldman Sachs.
8. AMISH BHAT (2019A7PS0140P) qualified a contest conducted by Times of India Group the “TIMES SPARK” in January 2019 and received a sum of Rupees one lakh from the Group.
9. SANKHA DAS (2019A7PS0029P) was awarded Aditya Birla Group Scholarship.

10. SUBHAM KUMAR DASH (2017A7PS0004P) secured second position in the Michelin Mobility Innovation Challenge 2019, held at the Michelin R & D centre, Pune on 26th July, 2019.
11. A team of three students TUSSANK GUPTA (2016B3A70528P), SALMAAN SHAHID (2016B4A70580P) and PUNEET ANAND (2016B4A70487P) were selected for "*threeThreads*" ICPC Asia Amritapuri Regionals in 2019, and secured 92nd rank there (Rank 1 from BITS Pilani, Pilani Campus).
12. A team of three students ROHIT R (2018A7PS0224P), ASHRYA AGRAWAL (2018A7PS0210P) and UNMESH ROY (2018A7PS0175P) emerged as winners of the National IBM Hack Challenge held during the months of May to August 2019.
13. Dev Arora (2016A7PS0037P) received \$ 2000 from Western Digital Scholarship for STEM.
14. Pradyumna Bang (2018A7PS0290P) had been selected in prestigious Google Summer of Code 2019.
15. SHAGUFTA GURMUKHDAS (2019H1030012P) received full sponsorship for attending the Strangeloop Conference on 14-15 September in St Louis, Missouri, USA, as a speaker.
16. Rohit K Bharadwaj (2017B4A70633P) and his team won \$2000 (Singapore Dollars) as cash prize for participating in the Singapore India Hackathon 2019 held on September 28-30, September, 2019 at IIT Madras.
17. TUSHAR JAIN (2019A7PS0110P) received NTSE scholarship and got KVPY SX fellowship.
18. Rishabh Jain (2015B5A70550P) received NTU-India connect scholarship for the completion of a thesis.
19. A team of three students "Spam Redressal" YAJAT DAWAR (2015B4A70620P), GARV SACHDEVA (2015B4A70551P) and NIKHIL RANJAN (2015B1A70773P) won the challenge of "Protection Against Targeted and Personalized Email Attacks" presented by D-Fence at Aalto University in Helsinki, Finland from 15th to 17th November, 2019. They were also awarded with a prize money of 1000 €.

9. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION: NIL

10. PATENTS FILED/PUBLISHED AND GRANTED: NIL

11. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

List of events organized by the Computer Science Association:

Month	Name of the Event	Date	Venue
Jan-2019	Planning for the Semester	10th	Rotunda
Feb-2019	ART Discussion Meet	3rd	Rotunda
Mar-2019	Apogee Event Discussion	2nd	Rotunda
	Apogee Event Discussion	9th	Rotunda
	Alumni Research Talks Day 1	26th	5102
	Alumni Research Talks Day 2	27th	Nab Audi
	International Coding League	28th	Online
	Divide and Conquer	29th	6156
Apr-2019	Anticoding	31st	IPC 6118
	Executive Committee Interview	23rd	SAC
	Farewell Grub	27th	VKB Mess
Jul-2019	Executive Committee Declaration	31st	Online
Aug-2019	Meet for Recruitment and Planning	20th	Rotunda
	Recruitment Test	30th	6164
Sep-2019	Recruitment Interactions and ART Discussion	6th-10th	Rotunda
	MindTurner and ART Meet	12th	Rotunda
	Formal Dinner and MindTurner Planning	24th	Kamals(Cnot)

Month	Name of the Event	Date	Venue
Oct-2019	ART Discussion Meet	6th	Brainstorm Room
	MindTurner and ART Meet	11th	Brainstorm Room
	Internal WDSIG	12th	Online
	MindTurner and ART Meet	13th	Brainstorm Room
Nov-2019	Mindtuner Questions	12th	Library
	Mindturner Testing	15th	Library
	Mindturner Day1	17th	Online
	Mindturner Day2	18th	Online
	Memento Distribution Ceremony	26th	6109
	Farewell Grub	26th	VKB Mess
Dec-2019	Internal MLSIG	15th-28th	Online
	ART Speaker Final Meet	16th	Online
	ART Discussion Meet	24th	Online

12. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
18.	g.USBamp-Research Color Orange UR-2018.09.09, G. GAMMAbundle for g.USBamp GB-2018.04.47, g.USBamp Simulink High-Speed Online Processing (Software), g.NEEDaccess MATLAB API, Dongle	01
19.	Samsung LED	01
20.	HPE Proliant DL380 Gen 10 8SSF CTO SERVER, HPE 32 GB Memory, 600 GB HDD	01
21.	SO119121A Computer Workstion	01
22.	KIT-WXT-MX28, CE30-C (Benewake)	01
23.	GPU Server PNY 4U Pedestal/Rack Mount GPU Server, LG Monitor, Logitech KB & Mouse	01

B1.10.6 Department: Economics and FinanceNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	02
Associate Professors	01
Assistant Professors	06
Lecturers	00
Visiting Faculty	00
Visiting Assistant Professors	00

Head of the Department:

Contact details:

Number of Ph.D. Scholars:16

Full Time : 13

Part Time : 04

Aspirant Scheme : 00

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1.	ADITYA SHARMA	2013PHXF0409P	An Empirical Study of Indian Stock Price Movement – A Behavioral Finance Perspective	ARYA KUMAR	ARUN K VAISH

1. SPONSORED RESEARCH AND CONSULTANCY**(i) PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Measuring the Vulnerability of Agricultural Households to Climate Change in Arid and Semi-Arid Regions of Rajasthan - A Capacity to Adapt Perspective	Economics and Finance	Dr. Geetilaxmi Mohapatra	-	ICSSR	-	8,40,000
2	Linking Energy Poverty with Human Development: A Case Study of Two Districts of Rajasthan	Economics and Finance	Dr. A K Giri	-	ICSSR	-	7,87,000

B. Industry Sanctioned Projects : NIL

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects: NIL

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Determinants of Mispricing in Indian Initial Public Offerings (IPOs)	Economics and Finance	Rajan Pandey	-	RIG	-	100,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
2	India's Integration with Global Value Chains: Issues, Challenges and Prospects	Economics and Finance	Rahul Arora	-	RIG	-	2,00,000
3	Technological Development Financial Development and Economic Growth: Empirical Evidences from India	Economics and Finance	Dr. A K Giri	-	RIG	-	1,50,000

(ii). ONGOING PROJECTS**A. Ongoing Government Projects:**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Concurrent evaluation of Implementation of Nation Food Security Act in Madhya Pradesh, Rajasthan and Goa	Economics and Finance	Dr. A K Vaish	Dr. Srikanta Routray and Dr. Krishna M	MCA	-	7,92,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Financial Inclusion	Economics and Finance	Dr. A K Vaish	-	HCL	-	9,50,000

C. Ongoing International Sanctioned Projects: NIL

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects - NIL

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

(iii). COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Assessment of wheat procurement and storage operators in Madhya Pradesh during Rabi Marketing Season (RMS)	Economics and Finance	Dr. A K Vaish	--	MCA	--	4,60,000

B. Completed Industry Projects : NIL

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects: NIL

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Environmental and Economic Implications of British Columbia's Carbon Tax for India,	Economics and Finance	Dr. Monika Gupta	--	RIG	--	2,00,000

2. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty In Journals**

- Dave, M., Singh, K., Kumar, A. and Kumar, S. (2019), "Knowledge management measures: an empirical investigation of Indian cement industry", *Benchmarking: An International Journal*, Emerald Publications, Vol. 26 No. 3, pp. 734-752.
- Sharma, Aditya & Kumar, Arya. (2019). A review paper on behavioral finance: study of emerging trends. *Qualitative Research in Financial Markets*, Emerald Publications 10.1108/QRFM-06-2017-0050.
- Zeeshan, Mohapatra G. and Giri A K (2019), "Livelihood Diversification into NFEs and Poverty Alleviation Among Farm Households in Rural India", *SEDME (Small Enterprises Development, Management & Extension Journal)* Sage Publications, pp. 1-8.
- Zeeshan, Mohapatra G and Giri A K (2019), "The Effects of Non-Farm Enterprises on Farm Households' Income and Consumption Expenditure in Rural India", *Agriculture and Resource Economics*, Vol. 19, No.1, pp.195-222.
- Zeeshan, Mohapatra G and Giri A K (2019), "Does Accessibility to Water and Sanitation Improves Household Wellbeing in India?" *The Journal of Income and Wealth*, Vol.40, No.2, pp.146-166.
- Deven B and Giri A K (2019), "Establishing Finance-Growth linkage for India: A Financial Conditions Index (FCI) approach" *International Journal of Emerging Markets (IJEM)*, Emerald Publications, Vol.14, No.5, pp. 1032-1059.
- Sherawat M and Giri A K (2019), "Globalization, role of institutions and economic performance in Indian economy: Empirical evidence" *Journal of Economic and Financial Policy (JEFP)*, Vol. 11, No.1, pp.82-100.
- Gupta, M., Bandyopadhyay, K. R., & Singh, S. K. (2019), "Measuring Effectiveness of Carbon Tax on Indian Road Passenger Transport: A System Dynamics Approach", *Energy Economics*, 81, pp. 341-354.
- Sinha, A., Gupta, M., Shahbaz, M., Sengupta, T. (2019), "Impact of Corruption in Public Sector on Environmental Quality: Implications for Sustainability in BRICS and Next 11 Countries", *Journal of Cleaner Production*, 232, pp. 1379-1393.
- Gupta, M. (2019), "Decomposing the Role of Different Factors in CO₂ Emissions Increase in South Asia", *Studies in Business and Economics*, 14(1), 72-86.
- Gupta, M., & Minai, M. H. (2019), "An Evaluation of Forecast Performance of GDP Growth in India", *Global Business Review*, 20(2), 368-386.

3. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED**i) National:**

- Dr. Rahul Arora has contributed in a research paper entitled "Employment and Output Linkages of Agriculture, Industry and Services in India: A Computable General Equilibrium Analysis" in a National Seminar on Inter-Sectoral Linkages, Productivity and Competitiveness of Agro and Food Processing Industries in India at Jawahar Lal Nehru University, New Delhi, India from 20 -21 September 2019. This paper is co-authored and presented by Dr. Nitin Arora, Assistant Professor, Panjab University, Chandigarh, India.
- Dr. Krishna M participated in Summer School workshop on India's Women, Work, and development hosted by EPoD India at ISI, Delhi from 25th July to 26th July, 2019.

ii) International:

1. Prof. Arya Kumar participated and presented paper entitled "Factors affecting entrepreneurial intent among students- initial finding from India" in the 7th International Conference Innovation Management, Entrepreneurship and Sustainability (IMES 2019) organized by Department of Entrepreneurship of the University of Economics, Prague, Czech Republic during May 30-31, 2019.
2. Dr. Geetilaxmi Mohapatra participated in fully funded 15 days Summer School in Environmental and Resource Economics (SSERE 2019) held at Asian Institute of Technology (AIT), Pathumthani, Thailand during 5th May to 19th of May, 2019.
3. Dr. Geetilaxmi Mohapatra participated in fully funded 37th Biannual Research and Training Workshop (R & T) conducted by South Asia Network for Development and Environmental Economics (SANDEE) held at Kathmandu during 12th -15th June, 2019.
4. Dr. A K Vaish participated and presented paper in the International Conference on Management and Information Systems (ICMIS-19) at Bangkok during 29-30 September, 2019 organized by AIMS

4. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. A K Giri, G Mohapatra and Zeeshan (2019) Examining the inter-linkages of Energy Poverty, Income Poverty and Human Development for Indian States", in Social Policies in India: Contemporary Perspectives, Chapter 7, pp.114 – 141, ed. By S N Ambedkar and S Bahdra, ABD Publishers, Jaipur, 2019.

5. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT - NIL**6. INVITED TALKS GIVEN BY BITS FACULTY**

1. Prof. Arya Kumar given invited talk in the international Conference on High Tech Entrepreneurship & Innovation Forum organised by TU Braunschweig University on 21-11-2019.

7. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Mr. Kunal Rahar, Economist, Reserve Bank of India interacted with UG students of BITS and delivered lecture on "Monetary Policy framework in India -The historical underpinnings, contemporary evolution and the futuristic outlook" on 26th February, 2019.
2. Dr. Gautam Ray, Professor, Graduate School of Management, Kyoto University and Vice-President, Asian Institute of Public Policy and Development Studies, Kolkata visited BITS, interacted with faculties of the department and delivered a talk to student and faculties on the topic, "Inclusive Development and Growth Dynamics: Conceptual Framework for Cross-Disciplinary Academic Discourse" on 22nd February, 2019.

8. AWARDS AND RECOGNITIONS**a. Won by Faculty:**

1. Prof. N V M Rao acted as NAAC Assessor during 2019 and also participated as Expert in National Testing Agency (NTA); One among 25 Selected for MHRD's Academic Leadership Development Programme LEAP at Oxford University UK during 2019.
2. Prof. Arya Kumar is acting as the Expert Member of Integrated MBA programme at NIIT University for MBA Programme since 2018. He is also acting as Expert Member in the Board of Studies Meeting of BML University to revamp the curriculum from 2017 and continuing in 2019.
3. Dr. Geetilaxmi Mohapatra was selected to participate in fully funded 15 days Summer School in Environmental and Resource Economics (SSERE 2019) by South Asia Network for Development and Environmental Economics (SANDEE) and The International Centre for Integrated Mountain Development (ICIMOD) during 5th May to 19th May, 2019.
4. Prof. N V M Rao Participated as Expert in National Testing Agency (NTA).

b. Won by Students:

1. Miss Manisha Garg (2018B3A70916P) Winner in the Pari Adhyayan Case Competition held at MNIT for the year 2019.
2. Mr. Shrajal Jain (2016B3A30557P) One of the 15 students selected from India to attend the Sakura Science program at Hiroshima University, where he represented country and received a stipend of 45000yen he also was awarded 2000\$ Western Digital Scholarship for academic excellence in the year 2019.
3. Miss Nandita Mathur (2018B3A40374P) won Hult Prize for 2019, Semi Finalist in KPMG Innovation Challenge 2020 and won 2nd position in NSUT Consilium 2019.

4. Mr. Pratyush Pathak (2017B3A30661P), Was part of one of the 3 teams that got selected from all over India for the final round of Smart India Hackathon 2019 Hardware Edition.
5. Mr. Sarthak Upadhyay (2018B3A40784P) Secured first position in BITS Innovation challenge conducted by MEA.
6. Mr. Nikhil Vats (2017B3A70473P) and Sarthak Sehgal (2017B3A70452P) received a travel grant to attend the eLife Innovation Sprint 2019 held at Cambridge, UK on September 4 and 5.
7. Mr. Syed Ahsan Abbas (2017B3A70507P) received a travel grant and paid summer research internship offer from The Australian National University.
8. Mr. Aditya Dhingra 2017B3PS0642P was selected as the top 10 global finalists at the Global Banking School Valuation Olympiad, Won a funded trip to Montreal to compete at the Global Retail Challenge at McGill University and Shortlisted to attend the World Bank Youth Summit at Washington DC.

9. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION - NIL

10. PATENTS FILED/PUBLISHED AND GRANTED - NIL

11. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

Economics and Finance Association:

The Economics and Finance Association aims to provide a unique platform at BITS Pilani, Pilani campus where students of similar interests can come together and encourage each other's growth and development. EFA tries to cultivate a culture of Economics, Finance, and Business through organizing and participating in several campus and national level competitions.

The Economics and Finance Association started the academic year of 2019 by winning the Annual National Economics Symposium of Lady Shri Ram College, Delhi University: Econvista 19, which was held from 17th to 18th January. EFA has been winning this National Economics fest from past two years(2018, 2019). To spread awareness about the latest happenings in the world of Economics and Finance, EFA publishes a pan-campus newsletter every semester, which comprised articles on the latest topics written by our members in a simplified manner for all the students. EFA organizes regular sessions relevant to field of economics and finance for both its members and non members. EFA also organized Youth Money Olympiad 2019 on campus and also collaborated with Finance companies like Ernst and Young, Alphabeta , NSE Academy to run initiatives in BITS which are also run in some other Tier-1 Colleges/ Top B schools.

Throughout the year, EFA organized various interactive and informative sessions by several distinguished personalities from the fields of Economics, Finance and Business where individuals got an opportunity to learn from the life experiences of the experts be experts technical or otherwise: Professor Gautam Ray (Professor at Kyoto University, Japan ; Former Principal Chief Commissioner, Ministry of Finance), Mr. Siva Visveswaran (BITS alumni, Mr. Kunal Rahar (Economist RBI) Mr. Ashwani Monga (Vice Dean, Rutgers Business School,Australia).

During the Annual Academic festival of BITS Pilani, APOGEE 2019, EFA organized two Major Kernel Events [Stock Market Simulation and Entrepreneurship Conclave] and others like Tradiculous, Econigmatic (Economics based Case study competition) which were planned and designed to give students an exposure to the world of Economics and Finance.Futures First Academy organised an Informative workshop on International Derivatives in association with EFA. EFA also organised the Farewell for the 2015 Batch, an evening where the students are pursuing M.Sc. Economics got an opportunity to bond with their departmental professors while participating in fun events and short games in April.

12. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
24.	STATA Econometric Software	30 user Licences

B1.10.7 Department: Electrical and Electronics Engineering & Instrumentation

Number of faculty members (as on 31 December 2019)

Emeritus Professors, Professors	05
Associate Professors	06
Assistant Professors	17
Lecturers	7
Visiting Faculty	1

Head of the Department: Dr. V K Chaubey
Contact details: vkc@pilani.bits-pilani.ac.in
Number of PhD Scholars: Full time 32, Part time 13
Ph.D. Thesis Submitted during the year: 06

1. SPONSORED RESEARCH AND CONSULTANCY**(i) SANCTIONED PROJECTS****(a) Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Nanocavity-in-Body Tunnel Field Effect Transistor Architectures for Low Power Sensing Applications	EEE	Dr. Rupam Goswami		SERB, DST, Govt. of India		10,49,000
2	Resource dimensioning and management of smart and sustainable 5Gsmall cells for rural broadband	EEE	Dr. Vinay Chamola		DST-SERB		28,30,000
3	Management of distributed energy resources in smart cities	EEE		Dr. Bijoy Mukherjee	MHRD SPARC		42,50,000
4	Machine Learning Techniques for Resource Allocation in Cell-Free Massive MIMO Communications	EEE	Dr. S.M. Zafaruddin		SERB, DST, Govt. of India		18,40,000
5	Design and Development of Soft Robotic System for selective harvesting of Coffee cherries	EEE	Dr. Meetha. V Shenoy	Dr. Nitin Chadurvedi	DST (Scheme for Young Scientists & Technologist)		40,00,000
6	GaN Gratings-on-Diaphragm Based Optical Pressure Sensing in Harsh Environments	EEE	Dr. Rahul Singhal		SSPL, DRDO, New Delhi		9,66,000
7	Sensitive Explosive Detection in Vapor Phase with Cyclometalated Iridium (III), Platinum (II) and Conjugated Hyperbranched Polymer-based Aggregation Induced Emission Active Nanoprobes	EEE	Prof. I. R. Laskar	Dr. Rahul Singhal	ARMREB, DRDO		32,73,000
8	Development of Cyber-Physical System based Smart Water Grid for Community usage	EEE	Dr. K. K. Gupta		DST-ICPS		27,54,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
9	Structural Health Assessment and Rehabilitation Framework based on Cyber-Physical System	EEE	Dr. K. K. Gupta		DST-ICPS		11,73,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Design and Analysis of Metamaterial Based Antenna for Wearable Application	EEE	Prof. Navneet Gupta		DST-Int. Bilateral Cooperation Division, New Delhi under India-Bulgaria joint project scheme	Prof. Plamen Dankov	11,82,000

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

(ii). ONGOING PROJECTS**(a) Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	<i>Development of Dielectric Resonator based Displacement Sensor</i>	EEE	Dr. Praveen Kumar AV	-	DST-SERB	-	20,75,000
2	Study on Electronic Transport Behaviour of Carbon Nanotube-Based Field Effect Transistors (CNTFETs)	EEE	Prof. Navneet Gupta	-	DRDO	-	20,82,000
3	Crime analysis and study for safe cities with emphasis on women safety using technology and societal participation	EEE	Prof. Anu Gupta	Dr. Meetha V Shenoy & Dr. Rajiv Gupta	Indian Council of Social Science	-	5,00,000
4	Soft Computing Framework based Integrated Multi-Sensor array for Water Quality Assessment: Targeting Fluoride as major parameter	EEE	Dr. K. K. Gupta	-	DST	-	38,70,000
5	Modelling the Drivers and Barriers of Electric Vehicle Penetration in Emerging Economy: A Study of Indian Market	EEE	Dr. Hari Om Bansal	-	ICSSR-IMPRESS	-	5,25,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
6	Development of 1-D nanomaterials based selective sensor system for non-invasive detection of complications of diabetes mellitus and asthma by breath analysis technique	EEE	Dr. Arnab Hazra	-	Department of Biotechnology, Govt. of India	-	46,50,000
7	Carbon nanomaterials for chemical sensing applications	EEE	Dr. Arnab Hazra	-	SPARC, MHRD, Govt. of India	-	46,00,000
8	Management of Distributed Energy Resources in Smart Cities: Challenges and Advanced Control Strategies	EEE	Dr. H.D. Mathur	-	SPARC, MHRD, Govt. of India	-	42,50,000
9	IoT Based Energy Management System of a Microgrid with Vehicle to Grid (V2G) Feature	EEE	Dr. H.D. Mathur	-	DST-ICPS Scheme, Govt. of India	-	16,83,000
10	Development of Improved Design and Control Techniques for Unified Power Quality Conditioner with Distributed Generation (UPQC-DG)	EEE	Dr. H.D. Mathur	-	Ministry of Power, Govt. of India	-	21,09,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

(iii) COMPLETED PROJECTS**(a) Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of Nanostructured Graphene as a Transparent and Current Spreading Electrode in Solar Cells	EEE	Prof. Navneet Gupta	Dr. Pramila Mahala	SERB-DST	-	19,20,000
2	Development of TiO ₂ nanotube-based highly selective capacitive type sensor device for the detection of methanol poisoning in alcoholic beverages	EEE	Dr. Arnab Hazra	-	DST-SERB	-	28,00,000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. Publications:

The faculty of the department published 76 papers in international/national refereed journals during the year. (Scopus and SCI indexed)

1. Puja Ghosh, Rupam Goswami, and Brinda Bhowmick, "Optimization of Ferroelectric Tunnel Junction TFET in presence of temperature and its RF analysis", *Microelectronics Journal*, vol. 92, Oct. 2019. DOI: 10.1016/j.mejo.2019.104618.
2. Rupam Goswami, and Brinda Bhowmick, "Comparative Analyses of Circular Gate TFET and Heterojunction TFET for Dielectric-Modulated Label-Free Biosensing", *IEEE Sensors*, vol. 19, no. 21, pp. 9600-9609, July 2019 DOI: 10.1109/JSEN.2019.2928182.
3. Ayan Saikia, Ashish Raj and Rupam Goswami, "TCAD Calibration and Performance Investigation of an ISFET-based TNT (Explosive) Sensor", *Journal of Computational Electronics*, vol. 18, no. 4, pp. 1469-1477, 2019.
4. Sushree A. Sahu, Rupam Goswami, and Sushanta Mohapatra, "Characteristic Enhancement of Hetero Dielectric DG TFET using SiGe pocket at Source/Channel interface: proposal and investigation," *Silicon*, 2019. DOI: 10.1007/s12363-019-00159-9 [issue not assigned]29059-72, 2018, SCI
5. Vanya Gupta, Garima Singh, and Abhijit Asati, "BIST Architecture for Combinational Circuit," *International Journal of Electrical, Electronics and iData Communication*, ISSN(p): 2320-2084, ISSN(e): 2321-2950, Volume-7, Issue-5, 2019.
6. G.S.S Chalapathi, V. Chamola, B. Sikdar, and S. Gurunarayan, "E-SATS: An Efficient and Simple Time Synchronization Protocol for Cluster-based Wireless Sensor Networks", *IEEE Sensors Journal*, May 2019.
7. V. Hassija, V. Chamola, V. Saxena, D. Jain, P. Goyal, B. Sikdar, "A Survey on IoT Security: Application Areas, Security Threats, and Solution Architectures", *IEEE Access*, June 2019.
8. G.S.S Chalapathi, V. Chamola and S. Gurunarayan, "A Testbed Validated Simple Time Synchronization Protocol for Clustered Wireless Sensor Networks for IoT", *Journal of Intelligent & Fuzzy Systems*, Feb. 2019.
9. V. Chamola, V. Hassija, B. Sikdar, N. Kumar, N. Ansari, "Energy and Latency Aware Resource Management for Solar Powered Cellular Networks, *IEEE Network* (accepted for publication).
10. T. Alladi, V. Chamola, K. K. R Choo, "Consumer IoT: Security Vulnerability Case Studies and Solutions", *IEEE Consumer Electronics*, Sept. 2019.
11. G.S.S Chalapathi, V. Chamola, C. K Tham, S. Gurunarayan and N. Ansari, "An Optimal Delay Aware Task Assignment Scheme for Wireless SDN Networked Edge Cloudlets," *Future Generation Computing Systems*, Elsevier, Sept. 2019.
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13. V. Hassija, V. Saxena and V. Chamola, "Scheduling Drone Charging for Multi-Drone Network based on Consensus Time-stamp and Game Theory", *Computer Communications*, Elsevier, vol. 149, pp. 51-61, 2020.

14. T. Alladi, V. Chamola, J. J. Rodrigues, and S. A. Kozlov, "Blockchain in smart grids: A review on different use cases," *Sensors*, MDPI, vol. 19, no. 22, p. 4862, 2019.
15. V. Hassija, V. Chamola, S. Garg, N. Dara, G. Kaddoum, and N. Jayakody, "A blockchain-based framework for lightweight data sharing and energy trading in v2g network," *IEEE Trans. on Vehicular Technology*, Dec. 2019.
16. A. Miglani, N. Kumar, V. Chamola, and S. Zeadally, "Blockchain for the internet of energy management: A review, solutions and challenges," *Computer Communications*, Elsevier, Dec. 2019.
17. T. Alladi, V. Chamola, R. Parizi, and K. K. R. Choo, "Blockchain applications for industry 4.0 and industrial IoT: A review," *IEEE Access*, Nov. 2019, DOI: 10.1109/ACCESS.2019.2956748.
18. V. Hassija, V. Saxena and V. Chamola, "A Mobile Data Offloading Framework based on a combination of Blockchain and Virtual Voting", *Software: Practice and Experience*, Wiley, Dec. 2019.
19. S. Maheshwari, V. Kanhangad, R. B. Pachori, S. V. Bhandary, and U. R. Acharya, "Automated glaucoma diagnosis using bit-plane slicing and local binary pattern techniques," *Computers in Biology and Medicine*, vol. 105, pp. 72 – 80, 2019.
20. Bijoy K. Mukherjee, K. Goel, and M. Sinha, "Automatic Control of an Asymmetric Fighter Aircraft Performing Supermaneuvers" *Advances in Military Technology*, University of Defence, Brno, Czech Republic, Accepted, 2019. (Scopus Index).
21. Anuj Kumar Ojha and A.V. Praveen Kumar, "Magnetic Quadrupole Mode Excitation of a Cylindrical Dielectric Resonator Antenna using Planar Feed", *Microwave and Optical Tech. Lett. (Wiley)*, 1-7, 2019 (<https://doi.org/10.1002/mop.32042>) (SCIE).
22. A.V. Praveen Kumar and Anuj Kumar Ojha, "A Microstrip Coupled Cylindrical Dielectric Resonator as a Displacement Sensor", *IETE Journal of Research (Taylor&Francis)*, March 2019 (<https://doi.org/10.1080/03772063.2019.1592714>) (SCIE)
23. M. Jenkins, G. Burt, A.V. Praveen Kumar, et.al, "A Prototype 1 MeV X-band Linac for Aviation Cargo Inspection, *Physical Review Accelerators and Beams*", (American Physical Society), vol.22, Feb. 2019 (<https://doi.org/10.1103/PhysRevAccelBeams.22.020101>) (SCIE)
24. A.V. Praveen Kumar, Akshit Goel, Ritish Kumar et.al, "Dielectric Characterization of Common Edible Oils in the Higher Microwave Frequencies using Cavity Perturbation," *Journal of Microwave Power and Electromagnetic Energy (Taylor&Francis)*, Feb. 2019 (DOI: 10.1080/08327823.2019.1569899) (SCIE)
25. Vishal Goyal, Puneet Mishra, and V K Deolia, "A Robust Fractional Order Parallel Control Structure for Flow Control using a Pneumatic Control Valve with Nonlinear and Uncertain Dynamics," *Arabian Journal for Science and Engineering*, Springer, vol. 44(3), pp. 2597-2611, 2019.
26. Vishal Goyal, Puneet Mishra, Aasheesh Shukla, V.K. Deolia, and Aarti Varshney, "A fractional-order parallel control structure tuned with meta-heuristic optimization algorithms for increased robustness," *Journal of Electrical Engineering*, vol. 20(1), pp. 16-24, 2019.
27. Ankita Dixit and Navneet Gupta, "Investigation on gate dielectric material using different optimization techniques in carbon nanotube field-effect transistors (CNFETs)" *Journal of Micromechanics and Microengineering*, IOP Publishing Ltd., vol. 29, June 2019, 094002 (6pp) (SCI indexed); DOI 10.1088/1361-6439/ab2a61.
28. Prashant Gangidi and Navneet Gupta, "Optimal Selection of Dielectric Film in Piezoelectric MEMS Microphone" *Microsystem Technologies*, Springer-Nature, vol 25, 4227-4235, 2019. (SCI indexed) DOI 10.1007/s00542-019-04485-1.
29. Kavindra Kandpal and Navneet Gupta, "Adaptation of a compact SPICE level 3 model for oxide thin-film transistors" *Journal of Computational Electronics (JCEL)*, Springer-Nature, vol 18, 1037-1044, May 2019. (SCI and SCOPUS indexed) DOI 10.1007/s10825-019-01344-0.
30. K.Ravi Babu Teja and Navneet Gupta, "Low-k Polymer Gate Dielectric Selection for Organic Thin-Film Transistors (OTFTs) using Material Selection Methodologies", *Journal of Computational Electronics (JCEL)*, Springer-Nature, vol. 18, 872-881, May 2019. (SCI and SCOPUS indexed) DOI 10.1007/s10825-019-01343-1.
31. K.Ravi Babu Teja and Navneet Gupta, "Hybrid Bilayer Gate Dielectrics Based Organic Thin Film Transistors (O-TFTs)", *Bulletin of Material Science*, Springer-Nature, vol. 42, 2019 (SCI-E and SCOPUS indexed) DOI 10.1007/s12034-018-1689-9
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65. P. Joshna, A. Hazra, K.N Chappanda, P.K. Pattnaik, S. Kundu, Fast Response of UV photodetector based on Ag nanoparticles embedded uniform TiO₂ nanotubes array, *Semiconductor Science and Technology*, vol. 5, p.-015001 (11p), 2020.
66. P. Bindra, S. Gangopadhyay, A. Hazra, "1-D TiO₂ nanorods array-based parallel electrode sensor for selective and stable detection of organic vapors", *IEEE Sensors Journal*, vol. 20(2),pp.- 664-671, 2020.
67. T. Gakhar, A. Hazra, "Synthesis of GO loaded TiO₂ nanotubes array by anodic oxidation for efficient detection of organic vapor", *Journal of Electronic Materials*, vol. 48(8), pp-5342–5347, 2019.
68. P. Bindra, A. Hazra "Selective detection of organic vapors using TiO₂ nanotubes based single sensor at room temperature", *Sensors & Actuators B*, vol.290, pp-684-690, 2019.
69. P. Bindra, A. Hazra. "Multi-layered TiO₂ Nanotubes Array-based Highly Sensitive Room Temperature Vapor Sensors", *IEEE Transactions on Nanotechnology*, vol.18, pp-13-20, 2019.
70. Aditya R. Gautam, Rammohan R. Makeneni, Deepak Fulwani and Nupur Rathore "ISMC for Boost-derived DC-DC-AC Converter: Mitigation of 2 ω -Ripple and uncertainty, and Improvement in Dynamic Performance," in *IEEE Transactions of Power Electronics* 2019, DOI: [10.1109/TPEL.2019.2939134](https://doi.org/10.1109/TPEL.2019.2939134).
71. N. Rathore, D. Fulwani, A.K. Rathore and Aditya R. Gautam, "Adaptive Sliding Mode Based Loss-Free Resistor for Power-Factor Correction Application," in *IEEE Transactions on Industry Applications*, vol. 55, no 4, pp. 4332-4343, July-Aug, 2019.
72. Kanika, R. S. Prasad, N. Chaturvedi, and S. Gurunarayanan, "A low power high-speed MTJ based non-volatile SRAM cell for energy harvesting based IoT applications," *Integr. VLSI J. Elsevier*, vol. 65, pp. 43–50, 2019. (SCI)

73. Kanika, Nitin Chaturvedi, S. Gurunarayanan, "Design of a novel CMOS/MTJ based Multibit SRAM Cell with Low Store Energy for IoT Applications" International Journal of Electronics, Taylor, and Francis. DOI: 10.1080/00207217.2019.1692245 (SCI)
74. Ashish Patel, H.D.Mathur and Surekha Bhanot, "Enhancing VA Sharing between Shunt and Series APFs of UPQC with a Modified SRF-PAC Method", IET Power Electronics, 2019 [Available online] [SCI Indexed, Scopus Indexed]
75. Dhananjay Kumar, Hitesh Dutt Mathur, Surekha Bhanot, and Ramesh C. Bansal, "Frequency regulation in islanded microgrid considering a stochastic model of wind and PV" International Transactions on Electrical Energy Systems, 2019 [Available online] [SCI Indexed, Scopus Indexed]
76. Ashish Patel, H.D.Mathur and Surekha Bhanot, " A New SRF based Power Angle Control Method for UPQCDG to Integrate Solar PV into Grid", International Transactions on Electrical Energy Systems, Volume 29, Issue1, 2019, pp. 1-16 [SCI Indexed, Scopus Indexed]

3. CONFERENCES/WORKSHOP/SEMINAR ATTENDED/ PAPERS PRESENTED:

The faculty of the department presented 43 papers in international/national conferences during the year.

1. Anirudh Agarwal, Rupam Goswami, and Kavindra Kandpal, 'Empirical Model of Surface Potential and Simulation Analyses for ZnO TFTs', 3rd International Conference on Devices for Integrated Circuits, Kalyani, Mar 23-24, 2019. DOI: 10.1109/DEVIC.2019.8783775
2. Rupam Goswami and Kavindra Kandpal, "Bottom Gate ZnO TFT as a Dielectric Modulated Label-Free Biosensor," International Conference on Amorphous and Nanocrystalline Semiconductors, Palaiseau, Aug. 4-9, 2019
3. V. Hassija, G. Bansal, V. Chamola, V. Saxena, B. Sikdar, "BlockCom: A Blockchain-based Commerce Model for Smart Communities using Auction Mechanism", IEEE ICC, Shanghai, China, May 2019.
4. G. Bansal, V. Hassija, V. Chamola, N. Kumar and M. Guizani, "Smart Stock Exchange Market: A Secure Predictive Decentralised Model", IEEE Globecom, Waikoloa, USA, Dec. 2019.
5. G. Bansal, Naren, V. Chamola, "RAMA: Real-Time Automobile Mutual Authentication Protocol Using PUF", IEEE ICOIN (34th international conference), Barcelona, Spain, Jan. 7-10, 2020.
6. Salahuddin, D.K.Giri, S. Dey and Bijoy K. Mukherjee "Angular Rate Stabilization using Fixed-time Continuous Sliding Mode Control", 2019 IEEE Indian Control Conference (ICC), IIT Hyderabad (Accepted)
7. Anuj Kumar Ojha and A.V. Praveen Kumar, "The Role of Feed Perturbation in the Design of Microstrip-fed Cylindrical Dielectric Resonator Antennas", International Conference on Advances in Electronics: Electrical: Computational Intelligence(ICAEEC 2019), IIT Allahabad, 31 May to 1 June 2019.
8. Akhilesh K. Mishra, Puneet Mishra, "Analysis of a Nested Control Configuration for a Nonlinear Interconnected Power System," TENCON, 2019, organized by IEEE Region 10, Kochi, India, Oct 17-20, 2019.
9. Akhilesh K Mishra, Puneet Mishra, "Improved Fractional Order Control of a Nonlinear Interconnected Power System Using Salp Swarm Algorithm," IEEE 16th India Council International Conference (INDICON), Rajkot, India Dec. 13-15, 2019.
10. Puneet Mishra, Vishal Goyal and Aasheesh Shukla, "An Improved Grasshopper Optimization Algorithm for Solving Numerical Optimization Problems," 2nd International Conference on Intelligent Computing and Advance in Communication (ICAC – 2019), Bhubaneswar, India, 15-17 Nov. 2019.
11. Nishant Gupta, Navneet Gupta, and Ankita Dixit, " Performance Analysis of (13,0) and (17,0) Carbon Nanotube Field Effect Transistors (CNFETs)", 6th Int. Conf. on Microelectronics, Circuits and Systems" (Micro-2019), Kolkata, page 78-83, July 6-7, 2019. ISBN: 81-85824-46-4.
12. Ankita Dixit and Navneet Gupta, " Analysis of Carbon Nanotube Field-Effect Transistors (CNFETs) using different High-k Gate Dielectric Material", 6th Int. Conf. on Microelectronics, Circuits and Systems" (Micro-2019), Kolkata, page 30-32, July 6-7, 2019. ISBN: 81-85824-46-4.
13. P. Arora, "Plasmonic devices for optical sensing" (RTTA -2019) Workshop at CEERI Pilani (Rajasthan), 2019.
14. E. Talker, P. Arora, and U. Levy, " Observation of plasmonic-enhanced EIT and velocity-selective optical pumping measurements "," in SPP-9, Denmark, 2019.
15. P. Arora, E. Talker, N. Mazurski, and U. Levy, " Enhanced Surface plasmon resonance sensing," in SPP-9, Denmark, 2019.

16. E. Talker, P. Arora, R. Zektzer, Y. Barash, N. Mazurski, Y. Sebbag, and U. Levy, "Demonstration of dichroic atomic vapor laser lock-in microfabricated vapor cell using light-induced atomic desorption," CLEO: Applications and Technology. Optical Society of America, 2019.
17. E. Talker, P. Arora, Y. Barash, D. Wilkowski, and U. Levy, "Highly efficient optical pumping of Rb atoms for evanescent fields at dielectric-vapor interfaces," CLEO: QELS Fundamental Science. Optical Society of America, 2019.
18. E. Talker, P. Arora, M. Dikopoltsev, and U. Levy, "Efficient hyperfine optical pumping of Rb atoms in miniaturized vapor cells," CLEO: QELS Fundamental Science. Optical Society of America, 2019.
19. E. Talker, P. Arora, M. Dikopoltsev, and U. Levy, "Realization of optical isolator at room temperature in miniaturized vapor cell using light-induced atomic desorption," CLEO: Applications and Technology. Optical Society of America, 2019.
20. P. Arora, and H. V. Awasthi, "Aluminum-based engineered plasmonic nanostructures for the Enhanced refractive index and thickness sensing in Ultraviolet-Visible-Near Infrared spectral range," Progress in Electromagnetics Research Symposium, Rome (Italy), PIERS-2019.
21. P. Arora, and H. V. Awasthi, "Highly-sensitive plasmonic devices based on engineered periodic nanostructures for sensing applications," International Conference on optics and electro-optics (ICOL-2019), Dehradun, India.
22. S. Shukla, P. Arora, and R. Goswami, "Silicon Nanowire Tunneling Field-Effect Transistors based on p-n Junctions," Symposium on Carbon Nanomaterial Electronics, (SCNE-2019), India.
23. R. Sundareshwaran, S. Anand, P. Arora, "Development of low-cost Paper-based microfluidic devices for sensing," 4th International Conference on Emerging Technologies from Micro to Nano, ETMN-2019, Pune(India).
24. S. P. Koparakar, P. Agnihotri, and P. Arora, "Enhanced absorption in engineered ultrathin film solar cells using periodic plasmonic nanostructures," 4th International conference on Emerging Technologies from Micro to Nano, ETMN-2019, Pune(India).
25. P. Arora, and A. Shukla, "Self-referenced integrated plasmonic device based on engineered periodic nanostructures for sensing applications," SPIE Photonics West-2020, San Francisco, California (USA).
26. Settibhaktini, H., and Chintanpalli, A. "Modeling the Concurrent Vowel Scores for a Shorter Duration", PS 48, 42nd Meeting of Association for Research in Otolaryngology, Baltimore, 9-13 Feb 2019, USA.
27. Sainath Bitragunta "Deep Fade Event's Probability Performance Analysis of Non-Orthogonal Multiple Access Scheme Realization in Power Domain," IEEE TENCON, Cochin, Kerala, India, Oct. 2019.
28. S. M. Zafaruddin, I. Bistriz, A. Leshem and D. Niyato, "Multiagent Autonomous Learning for Distributed Channel Allocation in Wireless Networks," 2019 IEEE 20th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Cannes, France, 2019, pp. 1-5.
29. J. Plachy, Z. Becvar, S. M. Zafaruddin and A. Leshem, "Nash Bargaining Solution for Cooperative Relaying Exploiting Energy Consumption," 2019 IEEE 20th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), Cannes, France, 2019, pp. 1-5
30. Saini, Harjap, and Anu Gupta. "Differential Power Analysis Immune Design of FinFET Based on Novel Differential Logic Gate." 26-29 May 2019, 2019 IEEE International Symposium on Circuits and Systems (ISCAS), Sapporo, Japan, DOI: 10.1109/ISCAS.2019.8702598, Sapporo, Japan, DOI:10.1109/ISCAS.2019.8702598, IEEE.
31. Abhishek Joshi, Rahul Singhal, "Characteristics Analysis of a Square Loop-based Artificial Magnetic Conductor," Indian Conference on Antennas and Propagation 2019 (INCAP 2019), Gandhinagar, December 19-22, 2019.
32. Vima Gupta, Rahul Singhal, "Performance Analysis of a Visible Light Vehicle-To-Vehicle Wireless Communication System", International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW-2019), 22 - 24, May 2019, National Institute of Technology, Tiruchirappalli. (Best paper award)
33. Lokesh Kumar Verma, Abhishek Joshi, Rahul Singhal, "Design of Frequency Reconfigurable Hexagonal Antennas for WLAN Applications", International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW-2019), 22 - 24, May 2019, National Institute of Technology, Tiruchirappalli.
34. Abhishek Joshi, Rahul Singhal, "Excitation Amplitude/Phase Sensitivity in Circularly Polarized Hexagonal S-Band Antenna," 2019 URSI Asia Pacific Radio Science Conference (AP-RASC), 9 - 15 March 2019, IHC, Delhi, India.

35. Lakshaya Maheshwari and Hari Om Bansal, "Genetic Algorithm Tuned Sizing Scheme for Grid Integrated Hybrid Energy System", International Conference on Communication and Intelligent System (ICCIS-2019) Jaipur, Nov 9-10, 2019
36. Krishna Veer Singh, Susheem Koul, Hari Om Bansal and Dheerendra Singh "Design of an improved q-ZSI inverter with fault tolerance for EV applications. International Conference on Recent Developments in Control, Automation and Power Engineering", RDCAPE 2019, Noida, India.
37. Kanika Monga, Akul Malhotra, Nitin Chaturvedi, S. Gurunaryanan, "A Novel Low Power Non-Volatile SRAM Cell with Self Write Termination" presented at 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT-019), July 6-8, IIT Kanpur, 2019.
38. Kanika, Nitin Chaturvedi, and S. Gurunaryanan, "Design of a Robust Logic Gate Design using Magnetic Tunnel Junction" presented at 16th IEEE INDICON 2019, Dec 13-15, Marwadi University, Rajkot, 2019.
39. Kanika Monga and Nitin Chaturvedi, "A CMOS/MTJ based Novel Non-Volatile SRAM Cell with Asynchronous Write Termination for Normally OFF Applications" presented at 23rd International Symposium on VLSI Design and Test (VDAT-2019), July 4-6, Indore, 2019.
40. D. Kumar, H. D. Mathur, R. C. Bansal E. M. Mohlatlola T. Adefarati, "Impact of PV Systems and Battery Storage in Hybrid Power Systems with Grid Connection", In the proceedings of 2nd International Conference on Large-Scale Grid Integration of Renewable Energy in India, 4-6 Sep 2019 New Delhi, India.
41. D. Kumar, H. D. Mathur, R. C. Bansal E. M. Mohlatlola T. Adefarati, "Isolated Microgrid for Rural Electrification", In the proceedings of 2nd International Conference on Large-Scale Grid Integration of Renewable Energy in India, 4-6 Sep 2019, New Delhi, India.
42. Shraddha Maslekar, Rohit Venkatesh, Dhananjay Kumar, H.D. Mathur, and H. Siguerdidjane, "Electric Vehicle Impact Analysis in a Microgrid Using Optimized Bio-Inspired Non-Integer Controller", In the proceedings of The IEEE Region 10 Symposium, June 7-9, 2019, Kolkata, India.
43. Ayush Sawarni, Kiran Dhamane, Dhananjay Kumar, H.D. Mathur, "Decentralised frequency control for an isolated microgrid using nature-inspired algorithms", In the proceedings of Third IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2019), February 20-22, 2019, Coimbatore, India.

4. Books Published/Edited /Chapter written/ reviewed articles during the year:

1. Anu Gupta; Priya Gupta; Abhijit Asati, "Low-voltage, low-power SRAM circuits using subthreshold design technique" IET Book VLSI and Post-CMOS Electronics, Design, modeling and simulation (Editors: Rohit Dhiman; Rajeevan Chandel), Publication Year: 2019, (Book DOI: 10.1049/PBCS073F, Chapter DOI: 10.1049/PBCS073F_ch3 e-ISBN: 9781839530524)
2. Prof. Navneet Gupta authored the book "Electromagnetic Field and Waves" published by New Age International Publishers, New Delhi; 2019
3. Shenoy M.V. (2020) Sensor Information Processing for Wearable IoT Devices. In: Principles of Internet of Things (IoT) Ecosystem: Insight Paradigm. Intelligent Systems Reference Library, vol 174. Springer, Cham\
4. Dr. Arnab Hazra (Co-authors Mr. Nagesh Samane and Prof. Sukumar Basu) published a book chapter entitled as "Multilayer reduced graphene oxide - nanoscale metal oxide composites for gas /vapor sensing" in the book under the working title Multilayer Thin Films-Versatile Applications for Materials Engineering, ISBN 978-1-78985-438-1 of Intech Open.

5. Conferences, seminars & workshops conducted

1. Prof. Hari Om Bansal was the convener for National Workshop on Power Electronics Applications and Real-time Implementation during January 18-19, 2019 held at BITS Pilani.
2. Dr. Arnab Hazra organized a Symposium on Carbon Nanomaterial Electronics (SCNE) 2019 held at BITS Pilani Pilani Campus during November 8-9, 2019 under the sponsorship of SPARC-MHRD and CSIR, Govt. of India.

6. Invited Talks / chairing session by EEE faculty:

1. Dr. Vinay Chamola gave an Expert Lecture in Faculty Development Program on "Cloud Computing & Internet of Things (IoT)" at Jaipur Engineering College, Jaipur on 31st August 2019.
2. Dr. Praveen Kumar AV delivered an expert talk on Radiation and Public Health - Present Status at BKBIET, Pilani, Rajasthan, 28 January 2019
3. Prof. Navneet Gupta delivered an Invited talk on "Recent Trends in Antenna Design for Wireless Communication" at BKBIET, Pilani on 23 Jan 2019.
2. S. M. Zafaruddin delivered an invited talk on "Research in Communications: Key Points and Recent Trends", ICCS 2019, BKBIET, Pilani

3. Dr. K. K. Gupta attended the 3rd Cyber-Physical Systems Symposium (CyPhySS 2019), organized by Robert Bosch Centre for Cyber-Physical Systems, Indian Institute of Science, Bangalore, India during 15 July 2019 - 16 July 2019.
4. Dr. Arnab Hazra delivered an Invited Talk on 1-D metal oxide-based sandwich structured gas sensors in National Conference on Atomic, Molecular and Nano Sciences (NCAMNS-2019), Aliah University, Newtown, Kolkata, 3-4th April 2019
5. Dr. H.D. Mathur was invited as Resource Person for DST Sponsored Faculty Development Programme on "AI and machine learning applications in smart grid" at VNR Vignana Jyothi INSTITUTE OF Engineering and Technology, Hyderabad
6. Dr. H.D. Mathur was Keynote Speaker at 4th International Conference on Communication System 2019, BKBIET, Pilani on 18th October 2019.
7. Dr. H.D. Mathur was Invited Speaker at Aditya Birla Group Senior Manufacturing Leaders Technology Conference Series (Gurugram Edition), 29th July 2019, Gurugram, India.
8. Dr. H.D. Mathur was Invited Speaker at Aditya Birla Group Senior Manufacturing Leaders Technology Conference Series (Bhubaneshwar Edition), 15th July 2019, Bhubneshwar, India.
9. Dr. H.D. Mathur delivered an expert lecture delivered in National Workshop on Industrial Automation and Control, BKBIET, Pilani on 26th February 2019.

7. Invited talks / Visits / attended workshops of distinguished Guests arranged in the department:

1. Dr. Hari Om Bansal attended 5 days short term course on Power electronic converters in grid integration of renewable energy sources organized by Malviya National Institute of Technology, Jaipur during Dec 27-31 2019.
2. Dr. H.D. Mathur was invited as Visiting Researcher in Signals and System Laboratory, Centralesupelec, Paris, France in May-June 2019.

8. Awards and recognitions won by faculty and students

1. Dr. Pankaj Arora won Best Poster Award for "Nanoplasmonic devices for optical sensing ", at RTTA-2019 Workshop at CEERI Pilani (Rajasthan) 2019.
2. In 2019, a research paper by Aditya R. Gautam, Nupur Rathore and Deepak Fulwani won First Prize Paper Award in the IEEE Industry Applications Society Annual Meeting (IAS), Portland, OR, USA.

9. Faculty Development, International Collaboration & Industry/ University Immersion

1. Dr. Anantha Krishna Chintanpalli has international collaborations with Prof. Christian Sumner (MRC Institute of Hearing Research, University of Nottingham, UK) and Prof. Michael G. Heinz (Biomedical Engineering Department, Purdue University, USA)

10. Significant new equipment/experimental facility added during the year

Few equipments have been purchased by Dr. Arnab Hazra (Details can be obtained from EEE Dept. Ledger entry by Mr. Manoj)

S.No.	Date of Inclusion	New Equipment Added	Grant/Funding	Amount (in INR)
1	August. 25, 2019	Xilinx Zynq Ultrascale Zedboard + Vivado license	DST-SERB of Dr. Vinay Chamola	480000
2	August. 25, 2019	HOMER software	DST-SERB of Dr. Vinay Chamola	355000
3	March 16, 2019	USRP B200	OPERA by Dr. Bijoy Mukherjee	176016.50
4	July 29,2019	Grove GSR sensor	Dr. Meetha Shenoy (RIG)	35708
5	July 29,2019	CST studio research base pack	Dr. Praveen A. V. by DST	348650
6.	September 13, 2019	RF TX RX Module	Dr. Meetha Shenoy (RIG)	78798
7.	August 30, 2019	Spring clip sample Board	DBT project by Dr. Arnab Hazra	42775

11. Departmental association/club activities:**APOGEE 2019 Events**

- Robots At War (In association with EEE Association) – Robots At Wars is a major crowd pulling kernel event during APOGEE. Teams from various parts of the country participate in the event to prove their designs and strengths of their bots. The remote controlled bots compete in an arena to damage or render their opponents useless. This time there were 5 teams who had competed in the event. Prizes worth more than 25,000 were awarded to the winners.
- Track-O-Mania (In association with EEE Association) – Track-O-Mania is the event where participant design a bot to track complicated patterns on wooden board. The bot is judged based on their efficiency and speed. This event also saw a participation of 15-20 teams.
- Hackatronics - Hackatronics is a mind boggling electronics event where a problem statement is proposed and the participants have to solve a practical system designing problem with the given electronics component.
- Analog Design Challenge (ADC) - In ADC, a quizzing event, participants are judged in two rounds. First round checks the analog aptitude of a participant. Winners of the first round move on to solve a real life analog problem statement on Cadence.
- Circuit Design Challenge (CDC) – CDC, an event similar to ADC for the digital systems, participants are judged in two rounds. First round checks the digital aptitude of a participant. Winners of the first round move on to the next round and solve circuit design problem in the digital electronics lab
- Game of Drones - Game of Drones is a major event organized by Instrumentation Forum during Apogee. Teams design a wireless remote controlled flying platform to carry a package through an obstacle course in minimum time without crashing and drop it at the desired location.
- Analog Design Challenge (ADC) - In ADC, a quizzing event, participants are judged in two rounds. First-round checks the analog aptitude of a participant. Winners of the first round move on to solve a real-life analog problem statement on Cadence.
- Circuit Design Challenge (CDC) – CDC, an event similar to ADC for the digital systems, participants are judged in two rounds. First-round checks the digital aptitude of a participant. Winners of the first round move on to the next round and solve a circuit design problem in the digital electronics lab.

There was participation from all over India in all the events, making the events successful.

APOGEE 2019 Paper Presentation

This year's APOGEE saw around 24 papers submitted from students for paper presentations on various topics such as application of particle swarm optimization, neural networks in improving different systems, microcontroller-based systems, etc.

Other activities:

An alumni talk was organized by the Forum in the month of September. Ankit Mahajan, A BITSian Alumni who has worked at Qualcomm and Texas Instruments and is currently pursuing his MBA at IIM, Lucknow gave the talk on the electronics sector and his MBA journey.

B1.10.8 Department: Humanities and Social SciencesNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	-
Associate Professors	8
Assistant Professors	12
Lecturers	-
Visiting Faculty	-
Visiting Assistant Professors	-

Head of the Department: Sanjiv Kumar Choudhary**Contact details:** 6168 A, NAB, Vidya Vihar Campus, BITS Pilani, Raj-333031**Number of Ph.D. Scholars:****Full Time** : 15**Part Time** : 6**Aspirant Scheme** : NIL**Ph.D. Thesis Submitted during the year: 2019**

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Priyanka Kumari	2013PHXF0432	Intercultural Communication Competence at Workplace: An Investigation of Employers' Requirements and Employees' Perception in Indian Information Technology Sector	Dr. Virendra Singh Nirban	

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Nostalgia, Melancholy and Communist Desire: Left-wing Culture in Kerala in the 1970s	HSS	Muhammed Afzal P	-	Research Initiation Grant	-	2,00,000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	An Empirical Study on Accountability and Learning Outcomes in Public School Systems in Rajasthan.	HSS	Dr. Tanu Shukla	Dr. Virendra Singh Nirban	ICSSR IMPRESS	-	10,50,000
2	"Efficacy & Effectiveness of Information, Education and Communication (IEC) activities for Health Awareness and Promotion Among Women in Rajasthan: Towards a HOPE Approach"	HSS	Prof. Gajendra Singh Chauhan	Dr. Rajneesh Choubisa, Dr. Tanu Shukla, Dr. Sailaja Nandigama and Dr R P Pareek	ICMR-ICSSR	-	25,11,490
3	Epistemology Revisited: Postmodern Discourses, Alternative Forms of Cognition and Interdisciplinarity of Knowledge	HSS	Dr Anupam Yadav		ICPR, New Delhi	-	2,00,000
4	Influence of English Teachers' Efficacy, Competence, and Motivation on their Instructional Strategies: A study of Secondary School Teachers in Jhunjhunu, Rajasthan"	HSS	Devika (PI)	Dr. Rajni (Co PI)"	Funding Agency NCERT.	-	6,80,400
5	"Development & Validation of a Prototype of a Web/Mobile App Based Positive Psychological Intervention for Adolescents" [Sanction No.24/2016/ICMR-ICSSR-SBR]	HSS	Dr Rajneesh Choubisa (PI)	Dr Tanu Shukla & Dr G.S.Chauhan	ICMR, New Delhi	-	17,01,650

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Nostalgia, Melancholy and Communist Desire: Left-wing Culture in Kerala in the 1970s	HSS	Muhammed Afzal P	-	Research Initiation Grant	-	2,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
2.	Bring back peacocks to pilani	HSS	Prof. Sangeeta Sharma	Dr. Sandhya Marathe, Dr. Anmol Marathe, Dr. Manoj Sharma and Dr. Sushil Yadav	BITS Alumni	-	10,00,000

3. COMPLETED PROJECTS

A. Completed Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	"Participatory Exclusions of Women and the Poor in Community Forestry: A Comparative Study of Implementation of the ROFR Act Across 3 States of India".	HSS	Dr. Sailaja Nandigama	Prof. Sanjiv Kumar Choudhary & Dr. Kumar Sankar Bhattacharya	ICSSR	-	7,00,000
2	Development of Listening and Speaking Modules of English Language through Multimedia Lab for Rural Students of class XI – XII	HSS	Prof.Devika		UGC	-	4,09,500

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

- Priyanka Kumari and Nirban V S (2019). Intercultural Education in Engineering Curriculum: A Review of Communication Courses for Undergraduate Students in India. Journal of Engineering Education Transformations 32(3) (Scopus)
- Gajendra Singh Chauhan and Aakreti Tiwari (2019). "Unfair Promotion of Whitening Creams: Is Beauty No More Skin Deep?" Published in An International Journal of Communication. Media Watch, 10(2). (SCOPUS).
- Shekhawat, Sushila and Neerja Vyas. Contemporary Hindi Films: A Tool for Women Empowerment. European Journal of Social Sciences. (EJSS).2019.Vol 1,No:2.(Indexed in Crossref) <https://dx.doi.org/10.29198/ejss1904>.
- Shekhawat, Sushila and Virendra Singh Nirban. Developing communication Competence in the students through Face to Face Conversation. The IUP Journal of Soft Skills. IUP Publications. (A Division of the ICFAI Society). March 2019.Vol.XIII,No.1.pp-56-62. (indexed in Cabell's Directory, EBSCO and Proquest database.).

5. Shekhawat, Sushila. Shifting Images of Women in Contemporary Indian English Feminist Fiction and Indian Hindi Cinema. *Literary Voice*. A Peer reviewed Journal of English Studies. Number 10, Volume 1, March 2019. ISSN: 2277-4521. pp. 81 to 85. (Indexed with Web of Science, ESCI).
6. Shukla, T., Dosaya, D., Nirban V.S., Vavilala, M.P. (2019). Factors Extraction of Effective Teaching-Learning in Online and Conventional Classrooms. *International Journal of Information and Education Technology* [Scopus].
7. Dosaya, D., Shukla, T., Nirban V.S., Vavilala, M.P. (2019). Transformation of Academic Ecology through Information Communication Technology Adoption. *International Journal of Information and Education Technology* [Scopus].
8. Sangeeta Sharma and Sakshi Sharma. India Army: Rachna Bisht Rawat's Inspirational Writings. *Literary Voice*. Number 10, Volume 1, pp 119-123. March 2019. ISSN 2277-4521. Indexed with web of Science, ESCI, Cosmos, ESJL, 12OR.
9. Sangeeta Sharma and Madhusmita Das. Women Empowerment through Advertising. *European Journal of Social Sciences (EJSS)* ISSN 2516-8525, 2019. Indexed in Crossref. DOI: <https://dx.doi.org/10.29198/ejss1903>
10. Sangeeta Sharma and Sakshi Sharma. "Self-Assessment for Image Building" *The IUP Journal of Soft Skills*, Vol XIII No 2, June 2019.
11. P.C.Sande and Sangeeta Sharma. Synectics model Applied in Basic Theory of Computational Fluid Dynamics. *International Journal of Mechanical Engineering Education*. Sage Journals. <https://journals.sagepub.com/eprint/JRXXQJZ9URIIDWJJQCC/full> <https://doi.org/10.1177/0306419019876866>. (Scopus Indexed.)
12. Das, Madhurima and Dibyadyuti Roy. 2019. "Mediating Postcolonial Pregnancies in Neoliberal Times." *Feminist Media Studies* (Taylor and Francis). Volume 19, issue 6.
13. Nandigama, S., 2019. Performance of success and failure in grassroots conservation and development interventions: Gender dynamics in participatory forest management in India. *Land Use Policy*. (In press, corrected proof) DOI: <https://doi.org/10.1016/j.landusepol.2018.05.061> Available online 11 October 2019, 103445. (Scopus Indexed).
14. Ruparel, N., Dubey, S., & Choubisa, R. (2019). Does Organizational Virtuousness and Psychological Capital impact Employee Performance: Evidences from the Banking Sector. *Development and Learning in Organizations*. Doi: 10.1108/DLO-08-2019-0190 (ISSN: 1477-7282) SCOPUS & ABDC-C Category Journal)
15. Johnson, L., Antoniuk, A., Choubisa, R., Noureen, A., & Misbah, K.B. (2019). Mindful Contextualization: Exploring the Limits of Cross-Cultural Mindfulness Measurement. *Applied Psychology Around the World* (erstwhile IAAP Bulletin), 1(1) 33-44. Retrieved from: https://iaapsy.org/site/assets/files/1082/applied_psychology_around_the_world_v1i1_final.pdf. [ISSN: 2639-6521].
16. Hari Nair, Reviewer of manuscript ISQ-16-0021 for *International Studies*, SAGE journal.
17. Sharma, Ruchika and Sharma, Sangeeta, Study of Linguistic Deviations Used in Advertising Slogans of Confectionery and Beverages in India (July 23, 2019). *International Journal of Physical and Social Sciences* Volume 6, Issue 1. Available at SSRN: <https://ssrn.com/abstract=3424636> or <http://dx.doi.org/10.2139/ssrn.3424636>.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Sangeeta Sharma, "Role of online media in sustainability of brand" in the International Conference at Prestige Institute of Management, Gwalior on Digital Strategies for Organizational Success from 5th to 7th January 2019 .
2. Sangeeta Sharma, "Building Brands through IMC: A case study of Maggie in the 3rd National Marketing Seminar at Prestige Institute of Management, Gwalior on "Marketing in Digital India: Trends, opportunities and Challenges" on 16th March 2019.
3. Sangeeta Sharma, "Improving classroom delivery of Engineering Education through Design Thinking" in 3rd Indo-German conference on Sustainability in Engineering: Enhancing future Skills and Entrepreneurship, Jointly organized by BITS, Pilani and TU Braunschweig at BITS, Pilani from 16-17 September 2019.
4. Shekhawat, Sushila. Enhancing Employability Skills of Engineering Graduates at the 3rd Indo-German Conference on Sustainability in Engineering: Enhancing Future Skills and Entrepreneurship during September, 16-17, 2019 organized by the Indo-German Center for Sustainable Manufacturing, a joint venture of Birla Institute of Technology & Science Pilani, India and Technische Universität Braunschweig, Germany.
5. Chatterjee, I., & Choubisa, R. (2019). Reckoning Wise Linkages between Academic Achievement and Students' Well-Being: An Online Multi-Component Interventions' Perspective. Paper presented in the

International Conference on Multidisciplinary Approaches to Nurturing Children and Youth organized by Christ University, Bangalore during 12-14 December 2019.

6. Aayushi Malhotra, Sailaja Nandigama, and Kumar Sankar Bhattacharya, "Food, Field and Forage-Articulating a culture change among Gaddis of Himachal Pradesh" paper presented at the International seminar on the theme 'Ethnicity, livelihoods and cultural change among the Himalayan people-Anthropology and beyond' organised by the Rajiv Gandhi University, Arunachal Pradesh in collaboration with the Indira Gandhi Rashtriya Manav Sanghralaya, Bhopal at the Department of Anthropology, RGU during 23rd-24th September, 2019.
7. Aayushi Malhotra, Sailaja Nandigama, 'Gendered Communication in Development Discourse and Practice' paper presented at the International conference on Interdisciplinary of knowledge, Education and Research at BITS PILANI, Pilani, Rajasthan during 8th-9th February, 2019.
8. Sangeeta Sharma, "Impact of Social Messages through Advertising" in the International Conference on Interdisciplinarity of Knowledge Education and Research organized by BITS Pilani during February 8th- 9th, 2019.
9. Shekhawat, Sushila. Globalization and Cinema: Exploration of the Shifting Paradigms of Cinematic narration in Indian Films at the International Conference on Interdisciplinarity of Knowledge, Education and Research organized by the Department of Humanities and Social Sciences, BITS, Pilani, Pilani Campus during 8 to 9 February, 2019.
10. Srinivasan, Shrija and Sushila Shekhawat. Infinite Memory Loop: Trapped in the Cabinet of Dr Caligari at the International Conference on Interdisciplinarity of Knowledge, Education and Research organized by the Department of Humanities and Social Sciences, BITS, Pilani, Pilani Campus during 8 to 9 February, 2019.
11. Dr. Sailaja Nandigama has been invited to present an invited lecture at the International Symposium on "Inclusive Development and Growth Dynamics", organized by the HSS and ARP dept. of IIT Kharagpur and the Asian Institute of Public Policy and Development Studies. The symposium was held on 14-15 February 2019 in the IIT Kharagpur campus.
12. Prof Gajendra Singh Chauhan presented a paper "Product Placement in Bollywood Movies - How the Movies We Watch Affect What We Buy?" in the International Conference on Interdisciplinarity: Vignettes of Contemporary Education, Knowledge and Research (iKER) 8-9 February 2019 at BITS Pilani, Pilani.
13. Prof Gajendra Singh Chauhan presented a paper "Effectiveness of Advertising Viewability in Digital Ecosystem: How to Get the Best Out of the Money We Invest" in the International Conference on Interdisciplinarity: Vignettes of Contemporary Education, Knowledge and Research (iKER) 8-9 February 2019 at BITS Pilani, Pilani.
14. Dr Anupam Yadav, "'Re-describing' Cognitive Competencies: Some Pedagogical Interventions" at the 3rd Indo-German Conference on Sustainability in Engineering: Enhancing Future Skills and Entrepreneurship held at BITS Pilani, Pilani during 16-17 September, 2019.
15. Dr. Muhammed Afzal P presented a paper "Cinema and the (Re)construction of the Left Popular in Kerala" in the National Conference on Populism and Populist Politics in South Asia, organized by Calcutta Research Group in collaboration with the Rosa Luxemburg Stiftung on 31 August-1 September 2019 in Kolkata.
16. Punita Raj, and Devika, "Use of Metacognitive awareness for the optimal utilization of competencies in ill-defined situations: a study of Oskar Schindler (Schindler's List)" in 3rd Indo-German conference on Sustainability in Engineering: Enhancing future Skills and Entrepreneurship, jointly organized by BITS, Pilani and TU Braunschweig at BITS, Pilani from 16-17 September 2019.
17. Abhijith Venugopal, Rajni Singh, and Devika, "Role of Self-efficacy in the learning output of Engineering education", in 3rd Indo-German conference on Sustainability in Engineering: Enhancing future Skills and Entrepreneurship, jointly organized by BITS, Pilani and TU Braunschweig at BITS, Pilani from 16-17 September 2019.
18. Gaur, Manusmriti and Pushp Lata attended and presented a paper entitled *Critical Pedagogy Practices in Engineering Education in India: Insights from English Language Classroom* at ELT@1 Golden Jubilee International Conference in association with RELO and British Council at Amity University, Noida during 9-12 October 2019.
19. Lata, Pushp presented a paper entitled *Capacity Building through Cross Cultural Skills among Engineering Graduates of India: A Case Study of Cross Cultural Skills Course at BITS Pilani*. 3rd Indo-German Conference on Sustainability in Engineering *Enhancing Future Skills and Entrepreneurship during September 16-17, 2019*. A peer reviewed conference jointly organized by Technische Universität Braunschweig. scopus-listed proceedings book (publishing group: Springer Nature).
20. Lata, Pushp presented a paper entitled *Digital Training for Language Teachers: An Exploration into Online Writing Tutorials* at Oxford Education Research Symposium Spring Meeting: 20, 21 & 22 March, 2019, at Green Templeton College in the University of Oxford. A peer reviewed conference.

21. Aayushi Malhotra, Sailaja Nandigama and Pushp Lata presented a co- authored paper entitled *Gendered Communication in Development Discourse and Practice* in the International Conference on Interdisciplinarity of Knowledge, Education and Research organized by Dept of Humanities and Social Sciences, BITS, Pilani- Pilani Campus during 8th-9th, 2019.
22. Lata, Pushp and Shrija Majumdar presented a co- authored paper entitled *Transformation of Perception about Cross Cultural Communication under the Influence of Social Media: An Impact Study* in the International Conference on Interdisciplinarity of Knowledge, Education and Research organized by Dept of Humanities and Social Sciences, BITS, Pilani- Pilani Campus during 8th-9th, 2019.
23. Devika and Rajni Singh. "Influence of Metacognitive Awareness on Engineering Students' Performance: a Study of Listening Skills." *Procedia Manufacturing* 31 (2019) 136-141.
24. Singh Rajni, Devika, Christoph Herrmann, Sebastian Thiede, Kuldip Singh Sangwan. "Research-based Learning for Skill Development of Engineering Graduates: an Empirical Study." *Procedia Manufacturing* 31 (2019) 323-329.

ii) International:

1. Dr. Tanu Shukla presented a paper "Effects of Decentralization in School Management on Student Learning" at the International Conference on Sustainable Education, 14th-18th April, 2019, San Fransisco, USA
2. Dr V.S. Nirban & Dr. Tanu Shukla presented a paper "Non-Intrusive AI and Cloud based technology intervention for improving teacher efficiency and learning outcomes" at the International Conference on Sustainable Education, 14th-18th April, 2019, San Fransisco, USA
3. Dr. Tanu Shukla presented a paper "Difference between the Best in West and East: Comparative Analysis of School-Education systems in Scandinavian & East Asian Countries" at the International Conference on Sustainable Education, 14th-18th April, 2019, San Fransisco, USA
4. Dr. V. S. Nirban; Dr. Tanu Shukla, "Technology Acceptance and the Teaching-Learning Process: Bracketing ICT and Academics in the University" at the 9th International Conference on Education, Research and Innovation, Tsuru University, Japan, October 25-27, 2019.
5. Dr. Tanu Shukla & Dr. V. S. Nirban, "Education Technology for Effectiveness of Teaching Learning: An Exploration of Blended Courses" at the 9th International Conference on Education, Research and Innovation, Tsuru University, Japan, October 25-27, 2019.
6. Sangeeta Sharma, " Innovation in Advertising Campaigns: New Orientation" in 5th International Conference on Media and Mass communication organised by The International Institute of Knowledge Management during 5-7 April,2019 in Kualalumpur Malaysia.
7. Shekhawat, Sushila. Fictional Narratives and Question of Ethics at the 5th World conference on Media and Mass Communication. -MEDCOM 2019." Change in Media, Media for Change. Looking for New Paradigms" during 5 to 7April,2019 at Kualalumpur, Malaysia.
8. Dr. Sailaja Nandigama has presented an original research paper titled, "Forest rights as drivers of livelihood security of forest dependent communities: An ethnographic account of the implementation of Forest Rights Act across three states of India and its impact on the formal and the informal forest management practices." at the 5th Annual Flare Network Meeting hosted by the University of Michigan during 23-25 August, 2019 in Michigan, USA.
9. Hari Nair, 'El lenguaje del derecho canónico en el debate sobre la justicia de la conquista de América' 1519: Contactos y conexiones, Instituto de Investigaciones Históricas, Universidad Nacional Autónoma de México, 13-16 August 2019.
10. Dr Anupam Yadav, "Post-Philosophical Culture and Interdisciplinary Solidarity" at the 4th Avant Conference on Trends in Interdisciplinary Studies held at Faculty of Arts & Humanities, University of Porto, Portugal during 24-26 October, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Interdisciplinarity: Vignettes of Contemporary Education, Knowledge and Research(2019). Eds. V S Nirban, T.Shukla, A.Yadav and R.Choubisa, Bloomsbury Publishing India Ltd., New Delhi. ISBN: 978-93-88630-94-8.
2. Mounika, P. V. and Nirban, V.S. (2019). A Brief Review of Technology Indulgence and Student Well Being. Interdisciplinarity: Vignettes on Contemporary Knowledge, Education and Research Bloomsbury Publication: ISBN: 9789388630948, pp: 497-502
3. Shukla, T. & Dosaya, D. (2019) Globalization and Teachers: A Quality Issue, Interdisciplinarity: Vignettes on Contemporary Knowledge, Education and Research Bloomsbury Publication: ISBN: 9789388630948, pp: 93-97.

4. Bhandari, V., Gupta, M. & Shukla, T. (2019). Empirical Validation of Emotional Intelligence in Health Settings. Bloomsbury Publication: ISBN: 9789388630948, pp: 155-166.
5. Dosaya, D., Shukla, T. & Vavilala, M.P. (2019). Technology Indulgence in Education: Connecting Cognitive Abilities and Student Achievement. IRES International World Research Library (59-61).
6. Vavilala, M.P., Nirban, V.S., Shukla, T. & Dosaya, D. (2019). Envisioning Teacher Accountability Through Technology: A Road to Better Learning. IRES International World Research Library (62-65).
7. Srinivasan, Shrija and Sushila Shekhawat. Infinite Memory Loop: Trapped in The Cabinet of Dr Caligari. Interdisciplinarity: Vignettes on Contemporary Knowledge, Education and Research. New Delhi: Bloomsbury Publishing India Pvt. Ltd.pp.295-303.
8. Shukla, Tanu. (2018). Professional Ethics in Academia: A knowledge Gap. Cultural and Intellectual Traditions in India Kirandee Publishers: ISBN: 9788193516720, pp: 255-258.
9. Sharma, Sangeeta. (2018). Inculcating Values through Education in a Technical University. Cultural and Intellectual Traditions in India Kirandee Publishers: ISBN: 9788193516720, pp: 121-128.
10. Sharma, Sangeeta. (2018). Impact of Social Messages through Advertising. Cultural and Intellectual Traditions in India Kirandee Publishers: ISBN: 9788193516720, pp: 256-264.
11. Das, Madhurima. "Mommy Knows?: A Critical Study of "Mom-Schools" and Formal Education in Kolkata." Sociological Perspectives on Educating Children in Contemporary Society. IGI Global, 2020. 139-158. Web. 28 Nov. 2019. doi:10.4018/978-1-7998-1847-2.ch006.
12. Krishna Akhil Kumar Adavi, Hari Nair and Swaha Das, 'Gandhi and the 'race' question' in Sanjeev Kumar, ed., 2019, Gandhi and the contemporary world, Oxford and New York: Routledge, pp. 157-168.
13. Mansukhani, S. & Choubisa, R. (2019). 'Sociodrama' as Interdisciplinary Management Pedagogy: Relocating Convergence and Related Criticalities. In Nirban, V.S, Shukla, T., Yadav, A., & Choubisa, R. (Eds.). Interdisciplinarity: Vignettes on Contemporary Knowledge, Education & Research. (pp 11-23) Bloomsbury Prime, New Delhi. (ISBN978-93-88630-94-8).
14. Kumar, Deepak and Pushp Lata, Using Multimodal Tools for Teaching Multiliteracies in in Indian ELT Classrooms. *Interdisciplinary*, eds Virendra Singh Nirban et al. New Delhi: Bloomsbury.2019. pp 98-106 ISBN 978-93-88630-94-8.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Humanities and Social Sciences organized an International Conference on Interdisciplinarity of Knowledge, Education and Research, 08-9 February 2019, BITS Pilani, [Convenor: Prof. V S Nirban, Dr. Tanu Shukla, Dr. Anupam Yadav and Dr. Rajneesh Choubisa].

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Prof. Gajendra Singh Chauhan was invited to deliver a series of lectures on "Business Writing" and "Strategic Sport Communication" for the Executive Education Programme in IIM Rohtak during May-July 2019.
2. Prof. Gajendra Singh Chauhan was invited as a Resource Person to deliver a Workshop on Media Literacy in IIT Jammu during 29-30 July 2019.
3. Sangeeta Sharma, Conducted one day session on "Excellence in Managerial Communication", in the Management Development Programme on "Innovative Techniques for Corporate Excellence" for middle and first level managers of Rajasthan Electronics and Instrumentation Limited (REIL), Jaipur.on 19th February 2019.
4. Sangeeta Sharma, Delivered an invited talk "How to be a Better Communicator ' on 11 March 2019 at MNIT, Jaipur.
5. Sangeeta Sharma, Delivered a talk" Role of Paralanguage in Public Speeches" in SKIT, Jaipur on 11th March 2019.
6. Sangeeta Sharma, Delivered a talk " Building confidence in professional Presentation" at Prestige Institute of Management, Gwalior on 16th March 2019.
7. Sangeeta Sharma, Conducted a full day workshop on " How to communicate in an organization?" in the Management Development Programme on "Tools and Techniques for Enhancing Corporate Skills", for middle and first level managers of Rajasthan Electronics and Instrumentation Limited (REIL), Jaipur at MNIT Jaipur on 10th August 2019.
8. Sushila Shekhawat conducted a workshop on Communication Skills and Group Discussions for the Employees of REIL India, organized by MNIT, Jaipur on 19th February,2019.

9. Sushila Shekhawat conducted a One day workshop on Technical communication and Soft Skills organized by MNIT Jaipur on 4th June 2019.
10. Dr. Sailaja Nandigama has been invited to present an invited lecture at the International Symposium on "Inclusive Development and Growth Dynamics", organized by the HSS and ARP dept. of IIT Kharagpur and the Asian Institute of Public Policy and Development Studies. The symposium was held on 14-15 February 2019 in the IIT Kharagpur campus.
11. Dr. Sailaja Nandigama has been recognized as the subject expert in Tribal Development by the Jaipur National University, and was invited to deliver the keynote speech at the National Seminar on Tribal Development conducted on 11-01-2020.
12. Choubisa, R (2019). Delivered an Invited talk at School of Business (Mody University, Sikar) on the topic "Assertive Leadership: Questions, Answers & Interjections" in their Women Leadership Skill Development Seminar on September, 9, 2019.
13. Pushp Lata from HSS Department was invited to conducted workshops on *Essentials of Successful Communication* for two days on 16 and 17 August 2019 in a TEQIP-III sponsored Induction Programme from 2nd August to 17 August 2019 organized by Bharatpur Government Engineering College Dept. of Humanities and Social Sciences.
14. Pushp Lata from HSS Department was invited to conducted a workshop on *Essentials of Communication* in a TEQIP-III sponsored Short- Term Course on 'Empowering Engineers through Communication Skills: A Comprehensive Approach' from 29th July to 2nd August ,2019 jointly organized by the Department of Chemical Engineering and Dept. of Humanities and Social Sciences, Malaviya National Institute of Technology Jaipur.
15. Pushp Lata from HSS Department was invited to conduct a workshop on How to crack Job Interviews at BKBIET, Pilani on 22 July 2019 as part of seven- day long workshop for Final Year students.
16. Pushp Lata attended and participated in a workshop on Team Based Learning organized by the Teaching Learning Centre, Birla Institute of Technology and Science, Pilani- Pilani campus on March 09, 2019.

9. INVITED TALKS/DISTINGUISHEDLECTURES ARRANGED BY THE DEPARTMENT

1. Prof. Nivedita Kaul, Associate Professor, Depot. of Civil Engineering from MNIT Jaipur was invited to interact with the undergraduate students and deliver a guest lecture in the course "Environment, Development and Climate Change" course on 23-11-2019 (GSF 212- Dr. Sailaja Nandigama is the IC).
2. Dr. Neera Sharma, a former professor of Banasthali Vidyapeeth and a noted Hindustani Classical Vocalist conducted a Music Workshop during 15-20 February 2019.
3. Dr (Mrs.) Kullijet Uppaal , Image Scientist and woman pilot visited the department, interacted with faculty members and delivered an invited lecture to the students of Print and Audio-visual Advertisement course on 4 February 2019.
4. Dr. Vibha Arora from IIT Delhi delivered a talk on Fieldwork: Significance, Intricacies & Challenges in a 2-day workshop on Research Methodology during 23-24 February 2019.
5. Ms. Magdalene Jeyarathnam, Expressive Arts Therapist & Board certified Psychodramatist; Director - East-West Center For Counselling & Training; Director-Indian Institute of Psychodrama; Co-Founder- Expressive Arts therapy Association of India, visited the department and delivered a talk on the aspect of creativity - positive and expressive arts to the students of Creative Writing course.
6. Prof. Ravindra M Singh, Associate Professor of Philosophy, Department of Philosophy, University of Delhi visited the department, interacted with faculty members and delivered lectures to the students of Professional Ethics and Applied Philosophy courses during 25-26 March, 2019.
7. Dr Suchismita Sengupta Pandey, Additonal Commissioner, Food and Civil Supply and member, State Food Commission, Govt. of Uttarakhand, Dehradun, and expert on Swami Vivekanad visited the department during 15-16 April 2019 and delivered a talk on Swami Vivekanand. His call for the youth and his teachings on Nation building and Empowerment. She also interacted with students of Current Affairs course on contribution of Indian scientists in pre independence days.
8. Mr. Madhurjya Banerjee, Global Brand Leader, Unilever and a BITS Pilani Alumnus visited the department on 15 April 2019 and conducted a workshop for the students of Print and Audio-Visual Advertising course.
9. Brahma Kumar PIUS from Brahma Kumaris delivered a talk on "Meditation for Healthy and Happy Life" on 22nd June 2019.
10. Mrs. Vasanthi Hariprakash, Media Strategist, Journalist, TV and Radio Anchor and also a Media trainer visited the department during 4-5 Sept. 2019 and conducted workshops for students of Introduction to Mass Communication course. These workshops were open for other students and faculty members also.

11. Mr. Rafiq Iqbal, Co-Founder, Cybotics, GmbH and Head of the German Indian Round Table (GIRT) of North Bavaria, Germany visited the department on 21 October 2019 and discussed the possibilities of collaboration in teaching German and green Energy supply by Battery Power.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Dr. Sailaja Nandigama, was awarded USD 1000, by the FLARE network for presenting her original research paper in the 5th Annual International Conference held at the University of Michigan, USA from August 23-25, 2019.
2. Dr. Sailaja Nandigama has been recognized as the subject expert in Tribal Development by the Jaipur National University, and was invited to deliver the keynote speech at the National Seminar on Tribal Development conducted on 11-01-2020.
3. Dr. Tanu Shukla won the Outstanding Paper Award under Large Scale Cross National Studies in Education (LCSE) category with a team at the Comparative International Education Society Conference, San Francisco, USA, 2018.
4. Prof. Sangeeta Sharma selected in panel of expert for conducting workshops in the area of Gender Studies for the Police Officers by the National Commission for Women, Govt of India.

b. Won by Students:

1. Divya Dosaya (Doctoral Student, 2016PHXF0410P under Dr. Tanu Shukla) from the Department of Humanities and Social Sciences won Best Paper Presentation Award for two papers presented at the 9th International Conference on Education, Research and Innovation, Tsuru University, Japan, October 25-27, 2019.
2. Namita Ruparel (Doctoral Student under Dr Rajneesh Choubisa) have been nominated as the Brand Ambassador of the International Association of Applied Psychology (Division 15) from Asia region and have been inducted in the executive committee of Division 15.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Choubisa, R. (2019). Visiting Assistant Professor at University of British Columbia from May 25, 2019 to July 15, 2019 and started research and teaching collaboration with Dr Rob. P. Bedi from Department of Education & Counseling Psychology, Scarfe Building, UBC, Canada.

12. PATENTS FILED/PUBLISHED AND GRANTED

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED: NIL

B1.10.9 Department: MathematicsNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	02
Associate Professors	07
Assistant Professors	11
Lecturers	-
Visiting Faculty	-
Visiting Assistant Professors	-

Head of the Department: Prof. B. K. Sharma

Contact details:

Number of Ph.D. Scholars: 46

Full Time : 46

Part Time : -

Aspirant Scheme : -

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Swati Sharma	2014PHXF0418P	Numerical Investigation of Heat Transfer from a Heated Square Cylinder due to Nanofluids in the Presence of an Upstream Rectangular Cylinder	B K Sharma	Dilip Kumar Maiti
2	Amit Kumar	2014PHXF0419P	Stochastic Modelling of Repairable Machining System with Spare Provisioning	Chandra Shekhar	-
3	Shreekant Varshney	2014PHXF0417P	Optimal Control of Queueing Models in Service and Machining Systems: A Nature-Inspired Approach	Chandra Shekhar	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	A parameter-uniform approximation for singularly perturbed parabolic reaction-diffusion boundary value problems	Mathematics	Devendra Kumar	-	DST-SERB	-	6,60,000
2	A study of nonlinear polyharmonic boundary value problems with dependence on gradient	Mathematics	Gaurav Dwivedi	-	DST-SERB	-	6,60,000
3	A Study of Graphs on Semigroups	Mathematics	Jitender Kumar	-	DST-SERB	-	6,60,000
4	Numerical Methods and Error Analysis for Solving Coagulation and Non-linear Fragmentation Equations	Mathematics	Rajesh Kumar	-	DST-SERB	-	9,62,500

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Contemporary Earthquake Potential Analysis in the Central and Nepal Himalaya	Mathematics	Yogendra Sharma	Sumanta Pasari	IRDR, Taiwan	Kuo-En Ching	USD 15,000

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	RIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Evaporation of nanodroplets in quiescent environment	Mathematics	Anirudh S Rana	-	RIG	-	2,00,000
2	'Investigations in Diophantine Number Theory'	Mathematics	Divyum Sharma	-	RIG	-	2,00,000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	A parameter-uniform approximation for singularly perturbed parabolic reaction-diffusion boundary value problems	Mathematics	Devendra Kumar	-	DST-SERB	-	6,60,000
2	A study of nonlinear polyharmonic boundary value problems with dependence on gradient	Mathematics	Gaurav Dwivedi	-	DST-SERB	-	6,60,000
3	A Study of Graphs on Semigroups	Mathematics	Jitender Kumar	-	DST-SERB	-	6,60,000
4	Mathematics Aided Architectural Design Layouts	Mathematics	Krishnendra Shekhawat	-	DST-SERB	-	15,44,660
5	Numerical Methods and Error Analysis for Solving Coagulation and Non-linear Fragmentation Equations	Mathematics	Rajesh Kumar	-	DST-SERB	-	9,62,500

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	RIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Evaporation of nanodroplets in quiescent environment	Mathematics	Anirudh S Rana	-	RIG	-	2,00,000
2	'Investigations in Diophantine Number Theory'	Mathematics	Divyum Sharma	-	RIG	-	2,00,000

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Study of observational constraints on dark energy models of Universe using COSMOMC in a HPC system	Mathematics	Suresh Kumar	-	DST-SERB	-	27,29,027

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Interseismic Coupling and Strain Distribution in Northwest Himalaya	Mathematics	Sumanta Pasari	-	ACRG	-	8,90,000

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty in Journals**

18. Agarwal, S. and Mathur, T. DEA model for Exogenously Fixed variables under Fuzzy Environment. In Choudhury S., Mishra R., Mishra R., Kumar A. (eds) Intelligent Communication, Control and Devices. Advances in Intelligent Systems and Computing, 989, 895-901, 2019.
19. Akarsu, O., Kumar S., Sharma S., Tedesco, L. Constraints on a Bianchi Type I extension of the standard LCDM model. Physical Review D, 100, 023532, 2019
20. Chakravarthy, S.R. Shruti, Rakhee. A queueing model with server breakdowns, repairs, vacations, and backup server. Operations Research Perspectives (Accepted)

21. Dalal, S. and Kumar, J. Chromatic number of the cyclic graph of infinite semigroup, *Graphs and Combinatorics* (Accepted)
22. Dubey B., Kumar, A. and Maiti A. P. Global stability and Hopf-bifurcation of prey-predator system with two discrete delays including habitat complexity and prey refuge. *Communications in Nonlinear Science and Numerical Simulations*, 67: 528-554, 2019
23. Dubey B. and Kumar, A. Dynamics of prey-predator model with stage structure in prey including maturation and gestation delays. *Nonlinear Dynamics*, 96(4), 2653-2679, 2019
24. Dwivedi, G., Tyagi, J. and Verma, R.B. Stability of positive solution to fractional logistic equations. *Funkcialaj Ekvacioj*, 62, 61–73, 2019
25. Gupta, V., Kochar, A., Saharan, S. and Rakhee. DNS Amplification Based DDoS Attacks in SDN Environment: Detection and Mitigation, 2019 IEEE 4th International Conference on Computer and Communication Systems (ICCCS). IEEE, 2019.
26. Jain, M., Shekhar, C. and Meena, R.K. Performance analysis and control F-policy for fault-tolerant system with working vacation. *OPSEARCH*, 56: 2, 409-431
27. Keskar, P. H. and Kumari, P. Polynomial Criterion for Abelian Difference Sets. *Indian Journal of Pure and Applied Mathematics* (Accepted)
28. Khanukaeva, D.Y., Filippov, A.N., Yadav, P.K. and Tiwari, A. Creeping flow of micropolar fluid through a swarm of cylindrical cells with porous layer (membrane). *J. Molecular Liquids*, (2019) (Accepted)
29. Khanukaeva, D.Y., Filippov, A.N., Yadav, P.K. and Tiwari, A. Creeping flow of micropolar fluid parallel to the axis of cylindrical cells with porous layer. *European Journal of Mechanics - B/Fluids*, 76, 73-80, 2019
30. Kumar, D. A parameter-uniform method for singularly perturbed turning point problems exhibiting interior or twin boundary layers. *International Journal of Computer Mathematics*, 96:5, 865–882, 2019
31. Kumar, D. and Kumari, P. A parameter-uniform numerical scheme for the parabolic singularly perturbed initial boundary value problems with large time delay. *J. Appl. Math. Comput.* 59:179–206, 2019
32. Kumar, D. and Kumari, P. A parameter-uniform scheme for singularly perturbed partial differential equations with a time lag. *Numerical Methods for Partial Differential Equations* (Accepted)
33. Kumar, K., Jain, M. and Shekhar, C. Machine Repair System with F-policy, Two Unreliable Servers and Warm Standbys. *Journal of Testing and Evaluation*, 47:1, 361-383, 2019
34. Kumar A. and Dubey B. Modelling the effect of fear in a prey-predator system with prey refuge and gestation delay. *International Journal of Bifurcation and Chaos*, To appear in Vol 29, No 14.
35. Kumar S., Nunes R.C., Yadav S.K. Dark sector interaction: a remedy of the tensions between CMB and LSS data. *European Physical Journal C*, 79, 576, 2019
36. Kumar S., Nunes R.C., Yadav S.K. Testing the warmness of dark matter. *Monthly Notices of the Royal Astronomical Society*, 490, 1406, 2019
37. Maiti A.P., Dubey B. and Charaborty A. Global analysis of a delayed stage structure prey-predator model with Crowley-Martin type functional response. *Mathematics and Computers in Simulation*, 162: 58-84
38. P K Yadav, P. Singh, A. Tiwari and S. Deo. Stokes flow through a membrane built up by non-homogeneous porous cylindrical particles. *Journal of Applied Mechanics and Technical Physics*, (2019, Accepted)
39. P. Satya, Trilok Mathur and Shivi Agarwal. Hierarchy of Sectors in BSE Sensex for Optimal Equity Investments using Fuzzy AHP Choudhury S., Mishra R., Mishra R., Kumar A. (eds) *Intelligent Communication, Control and Devices. Advances in Intelligent Systems and Computing*, 989, 393-404, 2019.
40. P. Satya, Trilok Mathur and Shivi Agarwal. An Efficient Portfolio Management for Trading Under Uncertain Environment. *International Journal of Supply Chain Management*, 8:2, 277-283, 2019.
41. Pasari, S. Inverse Gaussian versus lognormal distribution in earthquake forecasting: keys and clues *Journal of Seismology* 23(3): 537–559, 2019.
42. Pasari, S., Shah, A. and Sirpurkar, U. Wind Energy Prediction Using Artificial Neural Networks, In 3rd Indo-German Conference on Sustainability in Engineering, BITS Pilani, 2019 (Accepted in the proceedings of Springer)
43. Pasari, S., and Koundinya, N.V.S.S. Statistical Modeling of Solar Energy , In 3rd Indo-German Conference on Sustainability in Engineering, BITS Pilani, 2019 (Accepted in the proceedings of Springer)
44. Pasari, S. and Shah, A. Time series ARIMA model for renewable energy forecasting, , In 3rd Indo-German Conference on Sustainability in Engineering, BITS Pilani, 2019 (Accepted in the proceedings of Springer)

45. Pasari, S. Stochastic Modeling of Earthquake Interevent Counts (Natural Times) in Northwest Himalaya and Adjoining Regions. In Applied and Computational Mathematics (Accepted in the proceedings of Springer)
46. Rakhee, Agarwal, A. and Shruti. An Adaptive Fractional Guard Channel Based CAC Scheme for Heterogeneous Traffic in Wireless Cellular Networks, 2019 6th International Conference on "Computing for Sustainable Global Development", 13th - 15th March, 2019 (Accepted for publication in IEEE xplore digital library)
47. Rakhee, Jain, M. and Shruti. Performance Analysis of Fractional Guard Channel Scheme with Buffer for Cellular Mobile Networks, Proceedings of the National Academy Science, India, Section A Physical Sciences, July 2019.
48. Rakhee Kulshrestha and Shruti, Performance Evaluation of Queue with Negative Arrivals, Second Optional Service and Unreliable Server in Communication Networks, Accepted in the proceedings of Springer LNNS (Lecture Notes in Networks and Systems) Series
49. Rana, A.S., Lockerby, D.A. and Sprittles, J.E. Lifetime of a Nanodroplet: Kinetic Effects and Regime Transitions. Physical Review Letters, 2019
50. Sharma, M., Gaur, R.K., Sharma, B.K. Radiation Effect on MHD Blood Flow Through a Tapered Porous Stenosed Artery with Thermal and Mass Diffusion. International Journal of Applied Mechanics and Engineering 24, 411-423, 2019
51. Sharma, M; Sharma, Bhupendra K, Gaur, R. K, Tripathi, B. Soret and Dufour Effects in Biomagnetic Fluid of Blood Flow Through a Tapered Porous Stenosed Artery. Journal of Nanofluids, 8, 327-336, 2019
52. Sharma S, Maiti D.K, Alam Md.M, Sharma B.K. Nanofluid flow and heat transfer from heated square cylinder in the presence of upstream rectangular cylinder under Couette-Poiseuille flow. Wind and Structures, An International Journal, 29, 65-74, 2019
53. Shekhar, C., Kumar, A. and Varshney, S. Load Sharing Redundant Repairable Systems with Switching and Reboot Delay. Reliability Engineering and System Safety, 193, 106656, 2019
54. Shekhar, C., Kumar, A. and Varshney, S. Fault-Tolerant Redundant Repairable System with different failures and delays. Engineering Computations (Accepted)
55. Shekhar, C., Kumar, A. Varshney, S. and Ammar, S.I. M/G/1 fault tolerant machining system with imperfection. Journal of Industrial and Management Optimization (in print), 2019
56. Shekhar, C., Kumar, A., and Varshney, S. Parametric nonlinear programming for fuzzified queueing systems with catastrophe. International Journal of Process Benchmarking and Management, 10:1, 69-98, 2019
57. Shekhar, C., Kumar, A., and Varshney, S. Modified Bessel series solution of the single server queueing model with feedback. International Journal of Computing Science and Mathematics. 10:3, 313-326, 2019
58. Shekhar, C., Kumar, N., Jain, M. and Gupta, A. Reliability prediction of computing network with software and hardware failures. International Journal of Reliability, Quality and Safety Engineering, 27: 2, 2040006, 2019
59. Shekhar, C., Malik, A.K., Thakkar, V.A. and Mishra, R.P. Optimal inventory cost for deteriorating items with partial backlogging using particle swarm optimization. Yugoslav Journal of Operations Research (Accepted).
60. Shekhar, C., Varshney, S. and Kumar, A. Optimal control of a service system with emergency vacation using bat algorithm. Journal of Computational and Applied Mathematics. 364, 112332, 2019
61. Shekhawat K., Pinki, Duarte J.P. A Graph Theoretical Approach for Creating Building Floor Plans. Communications in Computer and Information Science, vol 1028, 2019
62. Tiwari, A. and Chauhan, S.S. Effect of Varying Viscosity on Two-Layer Model of PulsatileFlow through Blood Vessels with Porous Region near Walls. Transport in Porous Media, 129(3) (2019), 721-741, 2019
63. Tiwari, A. and Chauhan, S.S. Effect of varying viscosity on a two-layer model of the blood flow through porous blood vessels. Eur. Phys. J. Plus 134: 41, 2019
64. Tiwari, A. and Chauhan, S.S. Effect of Varying Viscosity on Two-Fluid Model of Blood Flow through Constricted Blood Vessels: A Comparative Study. Cardiovascular Engineering and Technology, 10(1); 155-172, 2019
65. Tiwari, A. and Chauhan, S.S. Effect of varying viscosity on two-fluid model of pulsatile blood flow through porous blood vessels: A comparative study. Microvascular Research 123: 99–110, 2019
66. Tripathi, B., Sharma, B.K. and Sharma, M. Modeling and analysis of MHD two-phase blood flow through a stenosed artery having temperature-dependent viscosity. European Physical Journal Plus, 134, 2019

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED**i) National:**

1. Anirudh S Rana attended international workshop on Multiscale modelling approach in micro/nano-fluidics, 09-10 December, 2019 at IIT Kharagpur.
2. Chandra Shekhar presented paper entitled 'Emergency vacation: Queueing theoretic approach' in national conference on Applications of Technical Terminology in Modelling, Optimization and Computing in Science and Technology organized by Commission for Scientific and Technical Terminology, MHRD (Gol) at SRM Institute of Science and Technology, Modinagar, Ghaziabad on April 26-28'2019.
3. Chandra Shekhar presented paper entitled 'Optimal analysis of controllable queues using Particle swarm optimization: A metaheuristic approach' in 4th International Conference on Communication Systems (ICCS-2019) organized by B.K. Birla Institute of Engineering & Technology (BKBIET), Pilani, Rajasthan on October 18-19'2019.
4. Deepak presented a paper titled "An Extended Transportation Problem: a Fuzzy Data Envelopment Analysis Approach", International Conference on Measurement of Efficiency and Productivity in Emerging Economies, organized by the Faculty of Economics, South Asian University, New Delhi on December 18-19, 2019. (Co-Author Shivi Agarwal)
5. Deepak presented a paper titled "Analysis of Sensitivity and Stability of Fuzzy SBM DEA Model", in International Conference and 22nd Annual Convention of Vijnana Parishad of India on Advances in Operations Research, Statistics, and Mathematics on December 28-30, 2019 at BITS Pilani, Pilani Campus. (Co-Author Shivi Agarwal)
6. Deepak presented a paper titled "Performance Evaluation by SBM DEA Model under Fuzzy Environments using Expected Credits", International Conference on Business Analytics and Operations Research (ICBAOR) (June 14-16, 2019) at Manipal Academy of Higher Education (MAHE), Manipal, Karnataka. (Co-Author Shivi Agarwal)
7. Devendra Kumar visited University of Valencia, Spain to attend the "International Conference on Differential Equations and Control Problems – Modeling, Analysis and Computations" during July 15 to 19, 2019.
8. Jitender Kumar presented the paper 'Clique number of the cyclic graph of infinite Semigroup' at International Conference on Number Theory and Graph Theory held at Department of studies in Mathematics, University of Mysore, Mysuru during June 27-29, 2019 (Received Best Paper Presentation award for the same).
9. Jitender Kumar presented the paper 'On the Structure of Commuting Graph of Brandt Semigroups' at International Conference on Semigroups and Applications (ICSAA 2019) held at Department of Mathematics, Cochin University of Science and Technology, Kochi during December 09-12, 2019.
10. Neha presented a paper titled "Statistical Analysis of Natural Times in the Central-East Himalaya", in International Conference and 22nd Annual Convention of Vijnana Parishad of India on Advances in Operations Research, Statistics, and Mathematics on December 28-30, 2019 at BITS Pilani, Pilani Campus. (Co-Authors: Sumanta Pasari, Yogendra Sharma)
11. P. Satya presented a paper titled "Fractional bioheat based, soft computing model for healing the tumor", in International Conference on Special Functions & Applications (ICSFA-2019) held at Department of Mathematics, University College of Engineering and Technology (A Constituent College of Bikaner Technical University) Bikaner, during October 21-23, 2019. (Co-Authors Shivi Agarwal and Trilok Mathur)
12. P. Satya presented a paper titled "New Fractional PID-Controller to Mitigate Frequency Variations in Power Systems", 2nd International Conference on Mathematical Modeling, Applied Analysis and Computation (ICMMAAC-19) at JECRC, Jaipur during 08–10 August, 2019. (Co-Authors Shivi Agarwal, Trilok Mathur and H.D. Mathur)
13. P. Satya presented a paper titled "P-index: Fuzzy Fractional Indicator for the Management of Portfolio", International Conference on Business Analytics and Operations Research (ICBAOR) (June 14-16, 2019) at Manipal Academy of Higher Education (MAHE), Manipal, Karnataka. (Co-Authors Shivi Agarwal and Trilok Mathur)
14. Pasari, S attended an autumn school on "Physical Geodesy and Its Applications", during 14-24, October, 2019 at IIT Kanpur.
15. Pranjal Dave presented a paper titled "A Study of After-Effects of Kerala Flood Using VIIRS-OLS Night-Time Light Data", in International Conference and 22nd Annual Convention of Vijnana Parishad of India on Advances in Operations Research, Statistics, and Mathematics on December 28-30, 2019 at BITS Pilani, Pilani Campus. (Co-Author: Sumanta Pasari)

16. Rakhee Kulshrestha presented the work “DNS Amplification Based DDoS Attacks in SDN Environment: Detection and Mitigation” in International Conference on Computer and Communication Systems 2019 (ICCCS 2019), organized at NTU Singapore, during 23-25 Feb 2019.
17. Rakhee Kulshrestha presented the work “Performance Evaluation of Queue with Negative Arrivals, Second Optional Service and Unreliable Server in Communication Networks”, in International Conference on Communication and Intelligent System (ICIS-2019) organized by SKIT, Jaipur during 09-10 Nov 2019
18. Sangita Yadav visited Government Engineering College, Bharatpur to deliver a talk on “Application of Mathematics in Engineering” during Aug. 13-14, 2019.
19. Sangita Yadav visited IIST Trivandrum as a resource person to deliver lectures on Differential Equations in “NuMATS Five Day Residential Camp”, during June 14-18, 2019.
20. Shivi Agarwal presented paper entitled “Fuzzy Data Envelopment Analysis Model for Supplier Selection”, International Conference on Measurement of Efficiency and Productivity in Emerging Economies, organized by the Faculty of Economics, South Asian University, New Delhi on December 18-19, 2019. (Co-Authors Trilok Mathur and Srikanta Routroy)
21. Swati Goyal presented a paper titled “Measuring the efficiency of depots in Rajasthan using Data Envelopment Analysis”, in International Conference on Business Analytics and Operations Research (ICBAOR) (June 14-16, 2019) at Manipal Academy of Higher Education (MAHE), Manipal, Karnataka. (Received Best Paper Presentation award for the same) (Co-Authors Shivi Agarwal and Trilok Mathur)
22. Swati Goyal presented a paper titled “Total Factor Productivity by NSM DEA-Based MPI Approach”, in International Conference and 22nd Annual Convention of Vijnana Parishad of India on Advances in Operations Research, Statistics, and Mathematics on December 28-30, 2019 at BITS Pilani, Pilani Campus. (Co-Authors Shivi Agarwal and Trilok Mathur)
23. Tanay Agrawal presented a paper titled “Wind Speed Prediction with Spatio-Temporal Correlation Using Convolutional and Spiking Neural Networks”, in International Conference and 22nd Annual Convention of Vijnana Parishad of India on Advances in Operations Research, Statistics, and Mathematics on December 28-30, 2019 at BITS Pilani, Pilani Campus. (Co-Author: Sumanta Pasari)
24. Trilok Mathur presented paper entitled “Fractional order mathematical modeling of crime”, in International Conference on Special Functions & Applications (ICSFA-2019) held at Department of Mathematics, University College of Engineering and Technology (A Constituent College of Bikaner Technical University) Bikaner, during October 21-23, 2019. (Co-Authors P. Satya and Shivi Agarwal)
25. Trilok Mathur presented paper entitled “Portfolio Management through Fuzzy Data Envelopment Analysis”, International Conference on Measurement of Efficiency and Productivity in Emerging Economies, organized by the Faculty of Economics, South Asian University, New Delhi on December 18-19, 2019. (Co-Authors Deepak, P. Satya and Shivi Agarwal)
26. Yogendra Sharma presented a paper titled “Indian Plate Motion Using GPS Observations: Preliminary Results”, in International Conference and 22nd Annual Convention of Vijnana Parishad of India on Advances in Operations Research, Statistics, and Mathematics on December 28-30, 2019 at BITS Pilani, Pilani Campus. (Co-Authors: Sumanta Pasari, Neha)

ii. International:

1. K. Shekhawat presented the work A Graph Theoretical Approach for Creating Building Floor Plans at Computer-Aided Architectural Design "Hello, Culture" (CAAD Futures 2019). Daejeon, South Korea, 26 - 28 June 2019.
2. Kumar D. visited University of Valencia, Spain to participate in the International Congress on Industrial and Applied Mathematics during July 15 to 19, 2019.
3. Pasari, S. presented the work “Distribution of Tsunami Interevent Times in the Indian Ocean”, in the 16th Annual Meeting of Asia Oceania Geoscience Society (AOGS) held in Singapore during Jul 28 – Aug 02, 2019.
4. Pasari, S. presented the work “Statistical Distribution of Natural Times: A New View of Earthquake Hazard Assessment”, in the 16th Annual Meeting of Asia Oceania Geoscience Society (AOGS) held in Singapore during Jul 28 – Aug 02, 2019.
5. Sharma, B.K. visited University of Valencia, Spain to participate in the International Congress on Industrial and Applied Mathematics during July 15 to 19, 2019.
6. Sharma, Y. presented the work “Seismic Versus Geodetic Moments in the Garhwal-Kumaun Himalaya: a Tool for a Rapid Understanding of Earthquake Potential”, in the 16th Annual Meeting of Asia Oceania Geoscience Society (AOGS) held in Singapore during Jul 28 – Aug 02, 2019 (Co-authors: Pasari, S., Ching, K-E., Dikshit, O.)

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Shekhar C., Varshney S., Kumar A. (2020) Reliability and Vacation: The Critical Issue. In: Ram M., Pham H. (eds) Advances in Reliability Analysis and its Applications. Springer Series in Reliability Engineering. Springer, Cham.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. One day Symposium was conducted on National Mathematics Day on December 22, 2019
2. International Workshop on Stochastic Simulation and its Applications (WSSA 2019) during December 24-27, 2019.
3. International Conference and 22nd Annual Convention of Vijnana Parishad of India on Advances in Operations Research, Statistics and Mathematics (AOSM 2019) during December 28-30, 2019. (Department received funds of Rs. 50,000 (Rupees fifty thousand) from CSIR, and Rs. 75,000 from DST-SERB India)
4. Indo-French Research Workshop on "Theory and Simulation of Hyperbolic PDEs arising in Mathematical Biology and Fluid Flow" organized by Department of Mathematics during January 05th -11th, 2019. (Department, received fund of Rs. 9,60,000 (Rupees Nine Lakh Sixty Thousand) from IFCAM (Indo-French Centre for Applied Mathematics).

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Anirudh S Rana, delivered an invited talk on "How fast a nano-sized droplet evaporates?" at the Department of Mechanical Engineering, IIT Kharagpur, India on 10th December, 2019.
2. Ashish Tiwari delivered an invited talk entitled "Effect of varying viscosity on a two-layer model of the blood flow through porous blood vessels" in the "India-Japan Joint Seminar on Boundaries and Flows in Biological Systems" held at Hiroshima University during March 04 to March 09, 2019.
3. Chandra Shekhar delivered an invited talk entitled 'Fault-tolerant redundant repairable systems with random delays' in 21st Annual Conference of Vijnana Parishad of India on Modelling, Optimization and Computing for Technological and Sustainable Development (MOCTSD-2019) organized by Department of Mathematics, SRM Institute of Science and Technology, Modinagar, Ghaziabad on April 26-28'2019.
4. Chandra Shekhar delivered an invited talk entitled 'Optimal analysis of controllable queues: A metaheuristic approach' in International Conference and 22nd Annual Convention of Vijnana Parishad of India on Advances in Operations Research, Statistics and Mathematics (AOSM 2019) organized by Department of Mathematics, BITS Pilani, Pilani Campus, Pilani on December 28-30'2019.
5. Devendra Kumar delivered an invited talk entitled "Numerical methods for singularly perturbed boundary value problems" in the "India-Japan Joint Seminar on Boundaries and Flows in Biological Systems" held at Hiroshima University during March 04 to March 09, 2019.
6. Devendra Kumar delivered an invited talk entitled "A PARAMETER-UNIFORM IMPLICIT SCHEME FOR TWO-PARAMETERS SINGULARLY PERTURBED PARABOLIC PROBLEMS" in an "International Conference on Differential Equations and Control Problems – Modeling, Analysis and Computations" held at IIT Mandi during June 17 to June 19, 2019.
7. Dubey, B. delivered an invited talk on "Dynamics of a prey-predator system: Role of fear, refuge and delay" in the 7th China-India-Japan-Korea International conference on Mathematical Biology held at University of Science and Technology Beijing during August 23-27, 2019 in Beijing, China.
8. Dubey, B. delivered an invited talk on "Role of optimal harvesting in resource management: a mathematical modelling approach" in the School of Mathematics and Physics, China University of Geoscience, Wuhan, China during August 19-21, 2019.
9. Rajesh Kumar delivered an invited talk entitled "Tensor Train Approximation for High-dimensional PDEs with Gaussian Source Terms" in Colloquium on Micro-Macro-Interactions of Structured Media and Particle Systems held in Magdeburg, Germany during 20th June - 22nd June 2019. Colloquium was funded by DFG-828 (Deutsche Forschungsgemeinschaft), Germany.
10. Shivi Agarwal delivered invited lectures in a workshop on "Computational Techniques in Mathematics" held on 10-12 January 2019 at Vivekanand Institute of Technology, Jagatpura, Jaipur.
11. Trilok Mathur delivered invited lectures in a workshop on "Computational Techniques in Mathematics" held on 10-12 January 2019 at Vivekanand Institute of Technology, Jagatpura, Jaipur.
12. Trilok Mathur delivered invited lectures in TEQIP-III RTU(ATU) Sponsored Faculty Development Program on "Introduction to LaTeX and Multivariate Analysis using SPSS and MS-Excel", held on 1-5 June 2019 at Anand International College of Engineering, Jaipur.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Prof. Youcef Mammeri from Univ. of Picardie Jules Verne Amiens, France has given an invited talk on "Multiscale Modeling of Lithium Batteries" in the Department of Mathematics on 26th August 2019.
2. Prof. Nabil Bedjaoui from Univ. of Picardie Jules Verne Amiens, France has given an invited talk on "Diffusive-dispersive travelling waves and Non-classical shocks" in the Department of Mathematics on 27th August 2019.
3. Prof G.D.Veerappa Gowda from TIFR Centre for Applicable Mathematics, Bangalore has given invited talk on "Applications of Hamilton-Jacobi equations in shape from shading" in the Department of Mathematics on 7th September 2019.
4. Professor Dilip K. Maiti, from Vidyasagar University, W. B. has given invited talk on "Entropy Generation in a MHD Couette-Poiseuille Flow through a Microchannel with Slip, Suction-Injection and Radiation" in the Department of Mathematics on 7th September 2019.
5. Prof. Sushant G. Ghosh, Professor, Centre for Theoretical Physics, Jamia Millia Islamia University, New Delhi has been delivered an invited talk on "A quest for black hole's shadow", March 1, 2019.

10. AWARDS AND RECOGNITIONS**a. Won by Faculty:**

3. Rajesh Kumar, received fund of Rs. 9,60,000 (Rupees Nine Lakh Sixty Thousand) from IFCAM (Indo-French Centre for Applied Mathematics) for the Indo-French research workshop on "Theory and Simulation of Hyperbolic PDEs arising in Mathematical Biology and Fluid Flow" organized by Department of Mathematics, Birla Institute of Technology and Science Pilani, Pilani Campus, January 05th -11th, 2019.
4. Suresh Kumar is selected as an Individual Member of International Astronomical Union (IAU)
5. Devendra Kumar and B K Sharma both have individually received travel grant of Rs. 2.3 lakh each to participate in International Congress on Industrial and Applied Mathematics, Spain.

b. Won by Students:

20. Two PhD research scholars (Yogendra Sharma and Neha) were selected for the fully funded summer school "Geospatial Information and Disaster Management" organized by the Department of Geomatics, National Cheng Kung University, Taiwan during 01-10 July 2019
21. Yogendra Sharma (PhD research scholar) has been selected for the seed grant of 15000 USD by IRDR Taiwan for his project on "Contemporary Earthquake Potential Analysis in the Central and Nepal Himalaya"

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Rajesh Kumar visited Univ. of Picardie Jules Verne as a visiting researcher from 22nd June to 10th July 2019 for scientific collaboration.
2. Sumanta Pasari visited National Cheng Kung University (Taiwan) this summer (14 June to 14 July, 2019) under the University Exposure Abroad program.

12. PATENTS FILED/PUBLISHED AND GRANTED: NIL

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES: NIL

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED: NIL

B1.10.10 Department of Mechanical EngineeringNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	5
Associate Professors	4
Assistant Professors	20
Lecturers	1
Visiting Faculty	-
Visiting Assistant Professors	1

Head of the Department: Prof. Mani Sankar Dasgupta**Contact details:** dasgupta@pilani.bits-pilani.ac.in**Number of Ph.D. Scholars:****Full Time** : 27**Part Time** : 06**Aspirant Scheme** : -**Ph.D. Thesis Submitted during the year: 2019**

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Ms. Paridhi Puri	2012PHXF0422P	Study, design and fabrication of 3D carbon electrodes for cell separation using Dielectrophoresis	Dr. Sachin Belgamwar	Dr. N. N. Sharma
2	Mr. Nilesh Purohit	2014PHXF0010P	CO2 Refrigeration System in Warm Climate: Experimental Investigation, Parameter Optimization and Supermarket Application	Dr. Mani Sankar Dasgupta	Dr. Dileep Kumar Gupta, IITRAM, Ahmedabad
3	Mr. Gajanand Gupta	2013PHXF0201P	Development of a Framework and Criticality Analysis Model for the Implementation of Reliability Centered Maintenance	Prof. Rajesh Prasad Mishra	
4	Mr. Nikhil Gakkhar	2010PH060431P	Design and Development of a Novel Hybrid Concentrating Photovoltaic Thermal System with Parabolic Trough Collector	Prof. Manoj Kumar Soni	
5	Mr. Narpat Ram Sangwa	2013PHXF0414P	Development of an Integrated Performance Measurement Framework for Leanness Assessment of Manufacturing Organizations	Prof. Kuldip Singh Sangwan	
6	Ms. Neetu Malik	2013PHXF0004P	Development of Engineered Bio-nanocomposites and Correlation of Structure-Properties	Dr. Sharad Shrivastava	Prof. Subrata Bandhu Ghosh
7	Ms. Tamalika Bhakat	2010PHXF0402P	Behavioural Study of Stimuli Triggered Biopolymer for Non-invasive Drug Delivery	Dr. Sachin Ulhasrao Belgamwar	Prof. Niti Nipun Sharma

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Assessment of Indoor plants for Improving the Air Quality in Buildings	Mechanical Engineering	Dr. Aakash Chand Rai	-	SERB	-	37,71,000
2	Development of effective anti-icing strategies for various engineering applications	Mechanical Engineering	Dr. A R Harikrishnan	-	SERB	-	30,00,000
3	Development of conductive FDM based rapid tooling for EDM electrode fabrication: application in medical implant manufacturing.	Mechanical Engineering	Dr. Prateek Kala	-	DST-SERB CRG	-	23,50,000
4	Empirical Investigation and analysis of factors for sustainable growth of Electric Vehicles manufacturing in India	Mechanical Engineering	Dr. A K Digalwar	-	IMPRESS ICSSR	-	14,70,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Design and development of Fixed and Floating Solar PV Installations for water management infrastructures	Mechanical Engineering	Dr. Ravi Kant Mittal	Dr. Manoj Kumar Soni	First Green Consulting Pvt Ltd, Gurgaon	-	11,36,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	RIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Numerical investigation of thermal hydraulic performance of hexagonal fin based printed circuit heat exchanger	Mechanical Engineering	Dr. Aneesh A M	-	RIG	-	2,00,000
2	Stability analysis of shell panels using element free Galerkin (EFG) method.	Mechanical Engineering	Dr. Gaurav Watts	-	RIG	-	2,00,000
3	Processing of novel carbon nanomaterial embedded metallic thermal interface materials for next generation microelectronics packaging applications.	Mechanical Engineering	Dr. Deepak Sharma	-	RIG	-	2,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	RIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
4	Development of battery thermal management system (BTMS) for electric (EVs) and hybrid electric vehicles(HEVs) using heat pipes and phase change material (PCM)	Mechanical Engineering	Dr. Saket Verma	-	RIG	-	2,00,000
5	Heat transfer coefficients for transitions, quasi turbulent and turbulent flow in solar air-heater tubes: experimental study	Mechanical Engineering	Dr. Suvanjan Bhattacharyya	-	RIG	-	2,00,000
6	Numerical failure analysis of structures at different stress-state and subjected to different strain-rate using the Finite Element Methods.	Mechanical Engineering	Dr. Faizan Mohammad Rashid	-	RIG	-	2,00,000
7	Investigation of droplet evaporation characteristics for metal machining engineering applications	Mechanical Engineering	Dr. A R Harikrishnan	-	ACRG	-	7,90,000

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Development of e-waste management strategies for selected e-products in Rajasthan	Mechanical Engineering	Dr. M S Dasgupta	Dr. Srikanta Routroy	DST-Rajasthan	-	7,54,000
2	Re-value: Innovative technologies for improving resource utilization in the Indo-European fish value chains	Mechanical Engineering	Dr. Souvik Bhattacharya	Dr. Srikanta Routroy Dr. M. S. Dasgupta	DBT	-	62,00,000
3	Waste Management of Generated Sludge from Indian Steel and Steel related plants: A sustainable Business Model	Mechanical Engineering	Dr. Srikanta Routroy	Dr. Anupam Singhal Dr. Dipendu Bhunia	Ministry of Steel	-	23,72,000
4	Development of a fault diagnosis scheme for Aero-Bearing with multiple localized defect using non-linear mathematical modeling and experimental analysis	Mechanical Engineering	Dr. Arun Kumar Jalan	Dr. Sachin U. Belgamwar	ARDB	-	15,55,000
5	Design and Development of a Power Assistive Hybrid e- Trike for Differently Abled Person in Rural and Urban Regions of India	Mechanical Engineering	Dr. Sachin U. Belgamwar	Dr. J. S. Rathore	DST-TIDE	CEERI	92,00,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Study of Lubricant and application method for enhanced surface finish and reduced draw load on cold drawn steel tubes	Mechanical Engineering	Mechanical Department	-	TI India Ltd., Chennai.	BITS Goa and BITS Hyderabad	27,44,000

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	JINGEL – Joint indo-German Experience Lab	Mechanical Engineering	Dr. K. S. Sangwan	-	DAAD	-	346954 Euro (2,74,44,408 INR)

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	RIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Experimental studies on mechanics of micromechanical structures and cells	Mechanical Engineering	Dr.Venkatesh Kadbur Prabhakar Rao	-	BITS-ACRG	-	8,20,000
2	Green Infrastructural Interventions for Combating Air Pollution in the National Capital Region.	Mechanical Engineering	Dr. Aaksh Chand Rai	-	BITS-RIG	-	2,00,000
3	Analysis of the thermo hydraulic performance of flow through nanochannels	Mechanical Engineering	Dr. A R Harikrishnan	-	BITS-RIG	-	2,00,000
4	Numerical evaluation of influence of protein expression levels on the mechanical response of a cell.	Mechanical Engineering	Dr.Venkatesh Kadbur Prabhakar Rao	-	BITS-RIG	-	2,00,000
5	OPERA Award	Mechanical Engineering	Dr. Aaksh Chand Rai	-	BITS-OPERA	-	3,60,000 per year for 5 years

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Design of Health care supply chain for enhancing availability and reducing wastage of generic medicines for rural areas in Rajasthan	Mechanical Engineering	Dr. Srikanta Routroy	Dr. Suni Dubey	DST Rajasthan	-	5,88,000
2	Modeling Immune Response to Salmonella during Typhoid	Mechanical Engineering	Dr. Amol Marathe	-	DST	-	34,06,000
3	FIST Mechanical Engg Department	Mechanical Engineering	Mechanical Department	-	DST	-	8,50,000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	RIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Ultrasonic assisted grinding of difficult to cut material with cryo-minimum quantity lubrication	Mechanical Engineering	Dr. Varun Sharma	-	BITS-ACRG	-	9,40,000
2	An investigation of energy consumption of machine tools	Mechanical Engineering	Dr. Girish Kant	-	BITS-ACRG	-	9,65,000

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty in Journals****a. National Journals:**

- Vaswani A, Shrivastava S., CAD modeling and finite elemental design of indigenous knee brace, Sadhana-Academy Proceedings in Engineering Sciences Vol_No 44, SCS WOS GSC.
- Ajay D Pingale, Sachin Ulhas Belgamwar, Jitendra Singh Rathore, Effect of Graphene Nanoplatelets Addition on the Mechanical, Tribological and Corrosion Properties of Cu-Ni/Gr Nanocomposite Coatings by Electro-co-deposition Method, Transactions of the Indian Institute of Metals, P_Page 9, SCS GSC.

b. International Journals

- Rajni Singh, Devika, Christoph Herrmann, Sebastian Thiede, Kuldip Singh Sangwan., Research-based Learning for Skill Development of Engineering Graduates: An empirical study, Procedia Manufacturing Vol_No 31, P_Page 329., SCS GSC.
- Rahul Priyadarshi, Srikanta Routroy, Girish Kant., Analysis of enablers for vertical integration to enhance rural employability, JOURNAL OF BUSINESS & INDUSTRIAL MARKETING SCS WOS GSC
- Ravi Kant Mittal , Nilesh Purohit, Gourav Gill, Rahul Dandautiya., Sustainable Utilization of Waste Tire Chips Reinforced Copper Tailings as Structural Fill, Environment, Development and Sustainability, P_Page 21., SCS GSC.
- Nilamani Sahoo, Gargi Khurana, A R Harikrishnan, Devranjan Samanta, Purbarun Dhar., Post impact droplet hydrodynamics on inclined planes of variant wettabilities, European Journal of Mechanics, B/Fluids Vol_No 79 P_Page 37., SCS GSC.
- Gunerkar R.S, Jalan A.K., Classification of Ball Bearing Faults Using Vibro-Acoustic Sensor Data Fusion, Experimental Techniques Vol_No 43 P_Page 643., SCS WOS.
- Dhar, Purbarun; Maganti, Lakshmi Sirisha; Raman, Harikrishnan Anilakkad; Rajput, Chandan., Amplifying thermal conduction calibre of dielectric nanocolloids employing induced electrophoresis, Experimental Thermal And Fluid Science Vol_No 106 P_Page 147., WOS.
- Vilas Haridas Gaidhane, Nand Kumar, Ravi Kant Mittal, V Rajeveltha., An efficient approach for cement strength prediction, International Journal of Computers and Applications P_Page 11., SCS GSC.
- Anuj Dixit, Srikanta Routroy, Sunil Kumar Dubey., A systematic literature review of healthcare supply chain and implications of future research, International Journal of Pharmaceutical and Healthcare Marketing Vol_No 13 P_Page 435., SCS GSC.

9. Mani Sankar Dasgupta , Darmanaden Sooben, Nilesh Purohit, Romeela Mohee, Francis Meunier., R744 refrigeration as an alternative for the supermarket sector in small tropical island developing states: The case of Mauritius, International Journal of Refrigeration Vol_No 103 P_Page 273., SCS WOS GSC.
10. Naga Vamsi Krishna Jasti, Srinivas Kota., Development of an adapted framework for lean product development, International Journal of Services and Operations Management Vol_No 10 P_Page 32.
11. Naik D.N, Mathew N.T, Vijayaraghavan L., Wear of Electroplated Super Abrasive CBN Wheel during Grinding of Inconel 718 Super Alloy, Journal of Manufacturing Processes Vol_No 43 P_Page 8., SCS WOS.
12. Rohit S Gunerkar, Arun Kumar Jalan, Sachin U Belgamwar., Fault diagnosis of rolling element bearing based on artificial neural network, Journal of Mechanical Science and Technology Vol_No 33 P_Page 511., SCS WOS GSC.
13. Rahul Priyadarshi, Akash Panigrahi, Srikanta Routroy, Girish Kant Garg., Demand forecasting at retail stage for selected vegetables: a performance analysis, Journal of Modelling in Management Vol_No 14 P_Page 1063., SCS GSC.
14. Jain P, Srivastava A.K, Rathore J.S, Shrivastava S., An evaluation of tactile frictional behavior of the wooden material, Journal of Physics: Conference Series Vol_No 1240., SCS.
15. Sharma M, Sharma V, Kala P., Optimization of process variables to improve the mechanical properties of FDM structures., Journal of Physics: Conference Series Vol_No 1240., SCS.
16. Pawanr S, Garg G.K., Selection of optimum Cutting Parameters for Minimization of Specific Energy Consumption during Machining of Al 6061, Journal of Physics: Conference Series Vol_No 1240., SCS.
17. Gaira S, Theja V.S, Karthikeyan G., Simulation and Experimentation of Single Point Incremental Forming of Different Geometries, Journal of Physics: Conference Series Vol_No 1240., SCS.
18. Gokhale N.P, Kala P, Sharma V., Thin-walled metal deposition with GTAW welding-based additive manufacturing process, Journal of the Brazilian Society of Mechanical Sciences and Engineering Vol_No 41 SCS.
19. Kiran Raj, Murali Palla., Mixed mode crack propagation in staggered biocomposites using phase field modelling, Journal of the Mechanical Behavior of Biomedical Materials., SCS GSC.
20. Malik N, Shrivastava S., Synthesis and characterization of fire resistance polymeric coating solution for carbon-blended aluminized (E-glass-based) and non-aluminized fabric, Journal of the Textile Institute., SCS WOS.
21. Suvanjan Bhattacharyya., The effects of short length and full length swirl generators on heat transfer and flow fields in a solar air heater tube, Journal of Thermal Analysis and Calorimetry, P_Page 15., SCS GSC.
22. Choudhary K, Sangwan K.S., Multiple case study analysis and development of an interpretive structural model for greening of supply chains in Indian ceramic enterprises, Management of Environmental Quality: An International Journal Vol_No. 30., P_Page 1296 SCS.
23. Shrivastava S, Prakash R., Monitoring of fracture healing process by acousto-ultrasonic technique, Pertanika Journal of Science and Technology Vol_No. 27., P_Page 1614., SCS.
24. Nilesh Purohit, Vishaldeep Sharma, Brian Fricke, Dileep Kumar Gupta, Mani Sankar Dasgupta, Parametric analysis and optimization of CO2 trans-critical cycle for chiller application in a warm climate, Applied Thermal Engineering Vol_No 150 P_Page 719., SCS WOS GSC.
25. Joshua Amrith Raj, Bijay Kumar Rout , Arshad Javed, Integrated method for performance analysis of reliability-based topologically optimized components, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science., SCS WOS GSC.
26. Bhattacharyya S, Chattopadhyay H, Biswas R, Ewim D.R.E, Huan Z., Influence of Inlet Turbulence Intensity on Transport Phenomenon of Modified Diamond Cylinder: A Numerical Study, Arabian Journal for Science and Engineering SCS WOS.
27. Naga Vamsi Krishna Jasti, Srinivas Kota, Kuldip Singh Sangwan, An application of value stream mapping in auto-ancillary industry: a case study, TQM Journal., SCS GSC.
28. Dixit A, Routroy S, Dubey S.K. Analysis of government-supported health-care supply chain enablers: a case study, Journal of Global Operations and Strategic Sourcing., SCS.
29. Sunil Kumar C V, Surya Hemanth, Srikanta Routroy, Ram Kumar Mishra, Study on manufacturerâ€™dealer relationships for strategic alignment, Journal of Global Operations and Strategic Sourcing., SCS GSC.
30. Venkatesh Kadbur Prabhakar Rao, Fertilizer monitoring using micromachined cantilever, Agricultural Science and Technology Vol_No 11 P_Page 220., AGRIS.

31. Kestur R, Meduri A, Narasipura O., MangoNet: A deep semantic segmentation architecture for a method to detect and count mangoes in an open orchard, *Engineering Applications of Artificial Intelligence Vol_No 77 P_Page 69.*, SCS WOS GSC.
32. Pavan R, Shyamsundar P I, Venkatesh K P Rao, Analysis of vibration based windmill coupled micromachined energy harvester *Vibroengineering PROCEDIA*, Vol. 29, 2019, p. 60-64. [https://doi.org/10.21595/vp.2019.21159.](https://doi.org/10.21595/vp.2019.21159), WOS, GSC, SCS.
33. Diplesh Gautam, Venkatesh K P Rao, Classification of diaphysis based on the mechanical response of femur bone, *Vibroengineering PROCEDIA*, Vol. 29, 2019, p. 182-188, [https://doi.org/10.21595/vp.2019.21133.](https://doi.org/10.21595/vp.2019.21133), WOS SCS GSC.
34. Belgamwar, S.U., Pingale, A.D., Sharma, N.N.; Investigation on electrical properties of Cu matrix composite reinforced by multi-walled carbon nanotubes, *Mater. Today Proc.* 18, 3201–3208 (2019) .
35. Pingale, A.D., Belgamwar, S.U., Rathore, J.S., Effect of Graphene Nanoplatelets Addition on the Mechanical, Tribological and Corrosion Properties of Cu–Ni/Gr Nanocomposite Coatings by Electro-co-deposition Method, *Trans. Indian Inst. Met.* (2019). <https://doi.org/10.1007/s12666-019-01807-9>.
36. Paridhi Puri, Vijay Kumar, S. U. Belgamwar and N. N. Sharma, Microfluidic Device for Cell Trapping with Carbon Electrodes Using Dielectrophoresis, *Biomed Microdevices* 20, 102 (December 2018) doi:10.1007/s10544-018-0350-0.
37. Paridhi Puri, Vijay Kumar, Sachin U. Belgamwar, M. Ananthasubramanian & N. N Sharma, Microfluidic platform for dielectrophoretic separation of bio-particles using serpentine microelectrodes, *Microsyst Technol* 25, 2813–2820 (2019) doi:10.1007/s00542-018-4174-x.
38. Sachin U. Belgamwar et al., Synthesis and characterization of Cu-Ni/Gr nanocomposite coatings by electro-co-deposition method: Effect of current density, *Bulletin of Materials Science*, Ms. No. BOMS-D-19-00330R2., (Accepted but not published)
39. Sharma, V. and Rai, A.C., Performance Assessment of Residential Building Envelopes Enhanced with Phase Change Materials, *Energy and Buildings*, Volume 208, 1 February 2020, 109664.,
40. Shyam Sunder Yadav and Gaurav Tomar, Numerical investigation of a conducting drop's interaction with an interface between dielectric-conducting fluids under an external electric field, *European Journal of Mechanics: B/Fluids.*, Accepted but not online
41. Diplesh Gautam, Venkatesh K P Rao, Modelling the influence of protein expression levels on the Mechanical response of femur bone, *Trends in biomaterials and artificial organs.*, WOS SCS SCI.
42. K Choudhary, SA Soherwordi, Y Singh, KS Sangwan, Evaluation and comparison of environmental performance for shackle insulators—a case study, *Management of Environmental Quality: An International Journal* 30 (2), 400-413.
43. K Choudhary, KS Sangwan, Adoption of green practices throughout the supply chain: an empirical investigation, *Benchmarking: An International Journal*.
44. KS Sangwan, K Choudhary, Benchmarking environmental performance of electric insulator supply chain in India using life cycle assessment, *The International Journal of Life Cycle Assessment* 24 (3), 518-529.
45. KS Sangwan, V Bhakar, AK Digalwar, A sustainability assessment framework for cement industry—a case study, *Benchmarking: An International Journal* 26 (2), 470-497.
46. N Sihag, KS Sangwan, An improved micro analysis-based energy consumption and carbon emissions modeling approach for a milling center, *The International Journal of Advanced Manufacturing Technology*, 104:705–721.
47. KS Sangwan, N Sihag, Multi-objective optimization for energy efficient machining with high productivity and quality for a turning process, *Procedia CIRP* 80, 67-72.
48. K Choudhary, KS Sangwan, D Goyal, Environment and economic impacts assessment of PET waste recycling with conventional and renewable sources of energy, *Procedia CIRP* 80, 422-4270.
49. N Sihag, KS Sangwan, Development of a sustainability assessment index for machine tools, *Procedia CIRP* 80, 156-161.
50. N Sihag, A Leiden, V Bhakar, S Thiede, KS Sangwan, C Herrmann, The Influence of Manufacturing Plant Site Selection on Environmental Impact of Machining Processes, *Procedia CIRP* 80, 186-19.1
51. M Vogt, B Uhlig, KS Sangwan, C Herrmann, S Thiede, Implementation of a cyber-physical cooling storage station in a learning factory, *Procedia Manufacturing* 31, 142-147.
52. Digalwar, A.K., Narkhede, B. E. Raut R. D., Analyzing the critical factors of successful implementation of sustainable supply chain practices in lean-agile firms-A hybrid ISM ANP approach, *Business Strategy and Environment* (Accepted for publications 22-12-19) .

53. Digalwar, A.K., Tusnial, Anirudh, A systematic review of the integration of best practices for world class manufacturing, *Int. J. of Business Excellence*, (Accepted for publication on 29-05-2019) .
54. Digalwar A. K. Dambare Sunil and Saraswat, Santosh, Social sustainability assessment framework for Indian Manufacturing Industry, *Materials Today: Proceedings* (Accepted for publication on 23-12-19) .
55. Nilamani Sahoo, Gargi K, A R Harikrishnan, Devranjan S, Purbarun Dhar, Post impact droplet hydrodynamics on inclined planes of variant wettabilities, *European Journal of Mechanics: B/Fluids* , Vol 79.
56. Suvanjan Bhattacharyya, Ali Cemal Benim, Manabendra Pathak, Sunil Chamoli, Ashutosh Gupta, Thermohydraulic characteristics of inline and staggered angular cut baffle inserts in the turbulent flow regime, *Journal of Thermal Analysis and Calorimetry*, Online Published. <https://doi.org/10.1007/s10973-019-09094-8>.
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58. Suvanjan Bhattacharyya, Himadri Chattopadhyay, Ranjib Biswas, Daniel R. E. Ewim, Z. Huan, Influence of Inlet Turbulence Intensity on Transport Phenomenon of Modified Diamond Cylinder: A Numerical Study, *Arabian Journal for Science and Engineering*, doi:10.1007/s13369-019-04231-9.
59. Mir Waqas Alam, Suvanjan Bhattacharyya, Basma Souayeh, Kunal Dey, Faicel Hammami, Mohammad Rahimi-Gorji, Ranjib Biswas, CPU heat sink cooling by triangular shape micro-pin-fin: Numerical study, *International Communications in Heat and Mass Transfer*, Accepted.
60. E.J. Onyiriuka, O.O. Ighodaro, A.O. Adelaja, D.R.E. Ewim, S. Bhattacharyya, A numerical investigation of the heat transfer characteristics of water-based mango bark nanofluid flowing in a double-pipe heat exchanger, *Heliyon* 5, e02416.
61. Wankhede S, Digalwar A.K, Wankhede S.P., Analysis of sustainable machining process: A multicriteria decision making approach, *AIP Conference Proceedings Vol_No.2104*.
62. Ronak Shaha, P.Srinivasana., Hybrid Photovoltaic and Solar Thermal Systems (PVT): Performance Simulation and Experimental Validation, *Materials Today: Proceedings*, Volume 5, Issue 11.
63. Kedar Patil, Periaswamy Srinivasan., Numerical and experimental investigation of melting process in spherical pcm capsule used for low-temperature thermal energy storage systems, *Journal of Physics: Conference Series Vol_No.1276*.
64. Vivek Tiwari, P. Srinivasan., SWOT analyses of high-temperature phase change materials for thermal energy storage, *Materials Today: Proceedings*, Accepted.
65. R.Pavan, P.Srinivasan., Investigations on creep life of Alloy 617 material for the final stage superheater coils for ultra super critical thermal power plants, *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2019.10.032>.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Mani Sankar Dasgupta, Nilesh Purohit, Numerical investigation of a hybrid (Cu-Alumina) nanofluid cooled double pipe gas cooler for a trans-critical CO₂ refrigeration system, *International Conference ICNBL-2019*.
2. S Bhattacharyya, AC Benim, M Pathak, K Dey, A numerical study on heat transfer augmentation and the flow structure in a square solar air heater channel with alternating V-shaped inclined ribs, *National Conference on Sustainable and Recent Innovation in Science & Engineering*, Motihari College of Engineering, 28th – 29th Nov, 2019.
3. S Bhattacharyya, S Sadhu, K Dey, AR Paul, H Chattopadhyay, Numerical studies on heat transfer and friction factor characteristics of solar air heating system with honeycomb roughness, *National Conference on Sustainable and Recent Innovation in Science & Engineering*, Motihari College of Engineering, 28th – 29th Nov, 2019.

ii) International:

1. Telang S., Optimization of MEMS based waste heat recovery Thermoelectric Generator by modification of design and material use, *2018 International Conference on Power Energy, Environment and Intelligent Control, PEEIC 2018.*, P_Page 131 .
2. R. A. Srivatsan, N. Zevallos, A. N. Chaudhury, T. A. Zodge, H. Choset, Hand-held stiffness measurement device for tissue analysis, *Hamlyn Symposium on Medical Robotics 2019*.
3. Manoj Kumar Soni, Tamali Bhattacharya, Design and Development of Game Based Evaluation and Learning (GABEL) for Applied Thermodynamics course for Active Learning, *Proceedings of the International Conference on Industrial Engineering and Operations Management.*, P_Page 3678 .

4. Manoj Kumar Soni, Tamali Bhattacharyya, Bani Bhattacharya, Analysis of Course Content Development using Pedagogic Framework – A Case Study, Proceedings of the International Conference on Industrial Engineering and Operations Management., P_Page 3672 .
5. Singh J, Sankaram M.V.N, Naranje V, Salunkhe S., Formula SAE power increment, Lecture Notes in Mechanical Engineering., P_Page 256 .
6. Animesh Jain, Satyam Bhaskar, Kunal Nandanwar, Hari Om Bansal, Self-balancing of a Bike Using Gyroscopic Force and PID Controller, Advances in Intelligent Systems and Computing., P_Page 817 .
7. Hari Om Bansal, Dheerendra Singh, Krishna veer Singh, Ravinder Kumar, Hardware Realization of a Single-Phase-Modified P-Q Theory-Based Shunt Active Power Filter for Harmonic Compensation, Advances in Intelligent Systems and Computing Vol_No. 989., P_Page 529 .
8. Venkatesh KP Rao and Sagar T, Numerical Evaluation Of The Influence Of AC And DC Electric Field On The Response of The Droplet, 3rd international conference on condensed matter physics, 14-15 Oct 2019.
9. Nikhil Gakkhar, Manoj K Soni, Sanjeev Jakhar, Second Law Analysis of an Integrated Parabolic Trough Photovoltaic Thermal System, 2nd International Conference on Mechanical Materials and Renewable Energy (ICMMRE 2019), Sikkim, India.
10. Kapil Kukreja, Manoj Kumar Soni, B.N Mohapatra and Ashutosh Saxena, Energy Farming - A Green Solution for Indian Cement Industry, 7th International Conference on Advances in Energy Research, 10 - 12 December 2019, IIT Mumbai, India.
11. Sunil and Manoj Kumar Soni, CO2 Mitigation and Coal Saving in an Existing Fossil Fuel Power Plant using Solar Energy, 16th NCB International Seminar on Cement, Concrete and Building Materials, 03-06 December 2019, New Delhi, India.
12. Manoj Kumar Soni and Aditya Soni , Design & Simulation of Solar Thermal based trigeneration system with 520 m² Dish Collector, 3rd Indo-German Conference on Sustainability in Engineering: Enhancing Future Skills and Entrepreneurship, jointly organized by BITS Pilani and TU Braunschweig, 16th-17 Sept 2019.
13. Manoj Kumar Soni and Tamali Bhattacharya, Incorporating Experiential and Collaborative Learning in to Instructional Design of Solar Energy Related Course – A Social Experiential Approach, 3rd Indo-German Conference on Sustainability in Engineering: Enhancing Future Skills and Entrepreneurship, jointly organized by BITS Pilani and TU Braunschweig, 16th-17 Sept 2019.
14. Yadav Ritesh, Rout B.K., Trajectory Optimization of Continuum Arm Robots, 28th IEEE International Conference on Robot and Human Interactive Communication (RO-MAN) October 14-18, 2019, New Delhi, India..
15. Patil Indraneel, Rout B.K., and V. Kalaichelvi, Prediction of Bottleneck Points for Manipulation Planning in Cluttered Environment using a 3D Convolutional Neural Network, The 7th International Conference on Control, Mechatronics and Automation TU Delft, Netherlands November 6-8, 2019.
16. Mohit Rathi, Ankush C. Jahagirdar, B. K. Raut and K. K. Gupta, Dynamic Behavior Analysis of Rolling Element Bearing, 2nd International Conference on Computational & Experimental Methods in Mechanical Engineering (ICCEMME-2019), India.
17. Digalwar, A.K., Digalwar, Mayuri, Deshpande, Pranav, Analysis of Impediments for Adoption of Industry 4.0 Practices: An ISM Fuzzy MICMAC Approach, Proceedings of 13th ISDSI International Conference held at Bhubaneswar organized by IIM Sambhalpur during 27-30 Dec. 2019..
18. Sarswat, Santosh Kumar, Digalwar, A. K. and Yadav, Shyam Sundar, Application of Fuzzy AHP Approach for Evaluation of Sustainable Energy Sources in India, International conference and 22nd Annual convention of Vijnāna Parishad of India on Advances In Operations Research, Statistics And Mathematics (AOSM 2019) BITS Pilani-Pilani campus held from 28-30 December 2019..
19. Digalwar A. K. Dambare Sunil and Saraswat, Santosh, Social sustainability assessment framework for Indian Manufacturing Industry, 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), BITS Pilani Dubai, UAE held from 20-22 Nov 2019, pp. 51..
20. Digalwar A.K., Agarwal Suyash and Agarwal Rishabh, Application of Quality Function Deployment for sustainable growth of Electric Vehicles Manufacturing in India, 5th International Conference on Industrial Engineering (ICIE 2019) S.V. National Institute of Technology Surat, held from 12-14 Dec 2019..
21. Bajaj Satyajeet and Digalwar, A. K., Integrating Lean-Green-Frugal Strategies for New Product Development In Developing Economy, 5th International Conference on Industrial Engineering (ICIE 2019) S.V. National Institute of Technology Surat, held from 12-14 Dec 2019..
22. Suvanjan Bhattacharyya, Rishav Modi, Kunal Dey, Md Anisur Rahman and Manabendra Pathak, Heat transfer and flow characteristics of circular channels with mixed ribs configuration, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference, IIT Roorkee, 28th – 31st Dec, 2019.

23. Smapad Gobinda Das, Suvanjan Bhattacharyya and Himadri Chattopadhyay, Thermohydraulic characteristics of regularly spaced square twisted micro-channel Under Pulsating Inlet Flow Condition, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference, IIT Roorkee, 28th – 31st Dec, 2019.
24. Suvanjan Bhattacharyya, Himadri Chattopadhyay, Marilize Everts and Josua P Meyer, The influence of circular bluff body at inlet of the circular tube on thermohydraulic characteristics in the transitional flow regime, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference, IIT Roorkee, 28th – 31st Dec, 2019.
25. Suvanjan Bhattacharyya, Sanghati Roy, Aakash Jhunjhunwala, Ranjib Biswas and Akshoy Ranjan Paul, Transport phenomenon over array of diamond cylinders with varying inlet turbulent intensity, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference, IIT Roorkee, 28th – 31st Dec, 2019.
26. Mohammad Moghimi Ardekani, Suvanjan Bhattacharyya, G Ahmadi and A. C. Benim, Numerical analysis of porous wind barrier for minimizing collector mirror soiling in a parabolic trough collector plant, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference, IIT Roorkee, 28th – 31st Dec, 2019.
27. Suvanjan Bhattacharyya, Kunal Dey, M.A. Moghimi, Md Anisur Rahman and Hardik Kothadia, 3-D Numerical analysis of heat transfer augmentation over Rhombus cylinder with different orientation, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference, IIT Roorkee, 28th – 31st Dec, 2019.
28. H Kothadia, S Bhattacharyya, SV Prabhu., Effect of Orientation on Flow Boiling Process in Helical Coils, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference, IIT Roorkee, 28th – 31st Dec, 2019.
29. A R Harikrishnan, Effect of external stimuli on the droplet evaporation characteristics, EMN Meeting on Droplets, Chengdu, China.
30. A R Harikrishnan, Effect of slip conditions on the hydrodynamic performance of nanaochannel flows, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference 2019, IIT Roorkee, India.
31. Shyam Sundar Yadav and Sreenivas V., Fluid-Structure Interactions based simulations of blood flow through internal carotid artery, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference 2019, IIT Roorkee, India.
32. Mani Sankar Dasgupta, Srikanta Routroy, Kristina N Widell, Souvik Bhattacharyya, Maitri Thakur, A Strategy for improved temperature control in the supply and processing stages of Surimi cold chain in India, 25th IIR International Congress of Refrigeration Proceedings .
33. Santosh Kumar Saini, Mani Sankar Dasgupta, Kristina N. Widell, Souvik Bhattacharyya, Thermal and economic analysis of an on-board compensatory refrigeration system for small fishing boats, 25th National and 3rd International ISHMT - ASTEF Heat and Mass transfer Conference, Roorkee India, December 28-31, 2019.
34. Nilesh Purohit, Mani Sankar Dasgupta, Thermal Storage Material Enhanced Refrigerated Display Cabinet, International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2017), BITS Pilani, Dubai Campus, UAE, November 28-29th, 2017.
35. Srikanta Routroy, Mani Sankar Dasgupta, Maitri Thakur, Souvik Bhattacharyya, Kristina N. Widell, Surimi value chain in India: A strategy for improved resource utilization., 25th IIR International Congress of Refrigeration, Montreal Canada, August 24-30, 2019.
36. Karan Ghulea, P. Srinivasan b, Vivek Tiwari, Design and CFD Analysis of Al-Si 12 Alloy Based Latent Heat Storage System for Direct Steam Generation Solar Power Plants, 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference 2019, IIT Roorkee, India.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Shivani Nain, Jitendra Singh Rathore, Niti Nipun Sharma, Nanoswimmer Energy Transduction System: Influence of Branching, Engineering Vibration, Communication and Information Processing, Lecture Notes in Electrical Engineering, vol 478. Springer, Singapore, SCS GSC.
2. Nikhil Gakkhar, Manoj Kumar Soni, Sanjeev Jakhar, Solar energy technologies and water potential for distillation: A Pre-feasibility Investigation for Rajasthan, India, Progress in Solar Energy Technology and Applications, Wiley, 2019 Scrivener Publishing LLC, ISBN: 9781119555605, GSC.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

S.No.	Key persons/Faculty	Title of the program	Date
1	Mr. Tarun Sikarwar	CAM training onl Master Cam Software	25/02/2019 to 01/03/2019
2.	Dr. R.Narayanasamy, NIT Tiruchirappalli	Metallurgy of automotive steels and aluminum alloys for automobile	30/08/2019 to 01/09/2019
3.	Dr. K. S. Sangwan	3rd Indo-German Conference on Sustainability in Engineering: Enhancing Future Skills and Entrepreneurship	16/09/2019 to 17/09/2019

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Dr. Manoj Kumar Soni, Delivered an invited talk on EDUCATION IN THE 21ST CENTURY: CHALLENGES & OPPORTUNITIES in International Convention of 'Akhil Bharatvarshiya Maheshwari Mahasabha', Maheshwari Global Convention organized at Jodhpur, Rajasthan, 5th & 6th of January 2019.
2. Mr. Gajanand Gupta, Delivered a talk on "Application of Reliability Centered Maintenance" in national seminar of Indian Institute of Metals, Khetri Nagar chapter at Hindustan Copper Ltd. , Khetri, Rajasthan, 16th January 2019.
3. Dr. M S Dasgupta, Delivered Keynote lecture on "Sports Engineering - working with human" at Kannur University 1st National Sports Engineering Conference.
4. Dr. P. Srinivasan, Delivered an invited lecture entitled "Learning Management System" in the faculty development program (FDP) organized by Maharshi Dayanand University(MDU), Rohtak on the topic ELearning Technologies, E Content Development and MOOCs sponsored by MHRD. 22nd February 2019.
5. Dr. Manoj Kumar Soni, Delivered an invited lecture entitled "Spirituality and Science" in STUDY INDIA PROGRAMME-2019 (February 25, 2019 - March 7, 2019) For Hiroshima University, Japan Organized by Department of Humanities & Social Sciences, BITS Pilani, 27th February 2019.
6. Dr. B.K. Rout, Delivered an invited lecture on 23rd Feb 2019 titled "Kinematic and Dynamic Models for Robot Mechanism" in the National Workshop on Robotics and Automation organized by Savitribai Phule University Pune, Maharashtra on 22-23rd Feb 2019..
7. Dr. Mani Sankar Dasgupta, Delivered a Keynote lecture at International Conference ICNBL-2019 held at NIT Srinagar in collaboration with IIT Kharagpur. Title: Numerical Investigation Of A Hybrid (Cu-Alumina) Nanofluid Cooled Double Pipe Gas Cooler For a Trans-Critical CO2 Refrigeration System.
8. Dr. A K Digalwar, Delivered a Keynote lecture on Readiness of Indian Manufacturing Industries for Industry 4.0 at International Conference on Advancements in Computing and Management (ICACM-2019) at Jagan nath University Jaipur, 13th April 2019.
9. Dr. Manoj Kumar Soni, Delivered an invited talk on "Spiritual Thermodynamics" at Government College of Engineering, Ajmer on 18th April 2019..
10. Dr. Manoj Kumar Soni, Delivered a keynote address in "National Seminar on Recent Trends in Energy Systems" at Mody University of Science and Technology, Lakshmangarh, Sikar, Rajasthan, on 19th April 2019.
11. Dr. P.Srinivasan, Delivered an invited lecture on "Technical Education and Skill Development for Higher Learning" at iCED, Jaipur for the senior Auditors of CAG, GOI on 21 May 2019..
12. Dr. P.Srinivasan, Delivered an invited lecture on "Information Technology for Higher Education" at iCED, Jaipur for the senior Auditors of CAG, GOI on 22 May 2019..
13. Dr. Manoj Kumar Soni, Delivered a talk on "Trends & Technology" in Energy in Aditya Birla Group Senior Manufacturing Leaders Technology Conference series "REPRISM 2019",at Hotel Radisson Gurugram Udyog Vihar, India, 08th August, 2019.
14. Dr. Manoj Kumar Soni, Delivered a talk on "Trends & Technology" in Energy in Aditya Birla Group Senior Manufacturing Leaders Technology Conference series "REPRISM 2019", Hotel Radisson Blu Plaza, Bangkok, Thailand, 16th August, 2019.
15. Dr. A K Digalwar, Delivered an Invited talk on Industry 4.0 at RCOE Nagpur on 20th September 2019.
16. Dr. T C Bera, Delivered an invited talk on "Practice of Thin-Wall Machining in Aviation Industries" at Manipal University Jaipur on 18th October 2019.

17. Dr. M S Dasgupta, Presented a invited talk on Ongoing research in CO2 Transcritical systems at BITS Pilani Dubai Campus.
18. Dr. Suvanjan Bhattacharyya, Presented an invited talk on "Single Phase Heat Transfer Augmentation Methods in Heat Exchanger Applications" at Motihari Govt. College of Engineering, Motihari, Bihar, December 2019..
19. Dr. Manoj Kumar Soni, Delivered a talk on "Low cost solar application in cooking for Indian villages", ENCOSOL2018 Solar cooking meeting, 17th October 2018, a pre-conference event 2nd International Conference on Solar Technologies & Hybrid Mini Grids to improve energy access at Campus Universitat de les Illes Balears Palma de Mallorca, Spain, October 17 – 19, 2018.
20. Dr. Manoj Kumar Soni, Delivered a talk on "Spiritual Thermodynamics" at Campus Universitat de les Illes Balears, Palma de Mallorca, Spain on 18th October 2018.
21. Dr. A R Harikrishnan, Delivered an invited talk on droplet evaporation at EMN Meetings on Droplets, Chengdu, China, 16-18 December 2019.
22. Dr. A K Digalwar, Delivered an invited talk on Assessment of sustainable energy sources in AICTE sponsored STTP on Renewable Energy Sources held at st. Vincent Pallotti College of Engineering and Technology Nagpur during 18-23 Nov 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Prof. Subhash Sarin, Professor, Virginia Tech, USA, Delivered a talk on Publishing in High Quality Journals and Directions for Quality Research on 8/1/2019.
2. Prof. P.Srinivasan, Department of Mechanical Engineering, Delivered a talk on Indian Power scenario-Economics, Environment & Engineering, on 18/02/2019.
3. Mr. Sumeet Soni, Delivered a talk on Introduction to Sports Engineering, on 8/3/2019.
4. Mr. Manoj Kandpal, Assistant Manager, E-Parisaraa PVT. LTD., Delivered a talk on Current trend and future Scope of E-waste management in India., on 15/04/2019.
5. Mr. Kiran Mulley, JCI, Gurgaon, Delivered a talk on Possible industrial project, on 16/05/2019.
6. Prof. Srikanta Routroy, Delivered a talk on Customer status and supplier behaviour: A question of culture?, on 25/07/2019.
7. Mr. Deepak Gadhia, Delivered a talk on Renewable Energy-Opportunities and Future Prospects for Budding Engineers and Entrepreneurs, on 17/09/2019.
8. Mr. Devdutta Chandavakar, Delivered a talk on Automotive Technology-Future, Career & Employability Aspects, on 13/11/2019.
9. Dr. Manoj Soni, Mechanical Engineering, BITS Pilani, Delivered a talk on Spiritual Thermodynamics, on 25/11/2019.
10. Dr. Kishan Khatri, President-Elect - ISHRAE Jaipur Chapter., Delivered a talk on The Current Trends in Energy Audit and Energy Efficiency, on 26/11/2019.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Dr. Aakash Chand Rai nominated for the editorial board of journal "Building and Environment".
2. Dr. Aakash Chand Rai, Project entitled "Assessment of Indoor Plants for Improving Air Quality in Buildings" recommended for the Early Career Research Award (ECRA) for expected funding of Rs. 37 lacks..
3. Dr. A.R. Harikrishnan received the Additional Competitive Research Grant.
4. Dr. Venkatesh KP elected as an expert reviewer for Bioengineering journal (Index in Biosis, Inspec, Pubmed, Scopus, SCI).
5. Dr. A K Digalwar nominated for the editorial board of journal OPSEARCH.
6. Dr. Manoj Kumar Soni chaired a session in International Conference on Industrial Engineering and Operations Management, at Bangkok, Thailand, March 5-7, 2019.
7. Dr. B.K Rout resource person to hold one day session (14th March) for Ministry of HRD funded FDP titled "Emerging Trends in Science Education: Robotics and Automation" from 11th - 17th March, 2019, at Banasthali University.
8. Dr. Mani Sankar Dasgupta worked as session chair in the 1st session at International Conference ICNBL-2019 held at NIT Srinagar in collaboration with IIT Kharagpur.

9. Dr. K S Sangwan chaired Two Sessions on Smart Manufacturing at 26th CIRP Life Cycle Engineering Conference held at Purdue University during 7-9 May 2019.
10. Dr. P. Srinivasan presented a Project Proposal for possible research collaborations at TechnoConnect Event Organized by Johnson Controls India at Mumbai during 28-29 MAY 2019.
11. Dr. Manoj Kumar Soni received prestigious Dr. Shirin Gadhia Sustainability Award 2019 from Eco Center ICNEER in a function held at Muni Seva Ashram, Goraj, Vadodara on 19th June 2019.
12. Dr. B.K. Rout adjudicated a Thesis from Jadavpur University.
13. Dr. Gajanand Gupta chaired one session in 10th international conference of quality, reliability and infocom technology from 18-21st June, 2019 at Hotel Himalaya, Lalitpur, Kathmandu, Nepal.
14. Dr. B.K. Rout resource person for workshop on "Matrix Inequalities and Its Applications" from 22 July 2019 to 26 July 2019, organized by Department of Electronics and Communication, NIT Uttarakhand, and organized at NIT Jaipur.
15. Dr. Aneesh A. M. invited with a Travel grant to participate in the Hands-On Research in Complex Systems School at The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, July 22nd to August 02nd, 2019.
16. Dr. Souvik Bhattacharya, Dr. Mani Sankar Dasgupta & Dr. Srikanta Routroy attended a Project monitoring meeting at SINTEF Norway and attended scientific presentation and Laboratory visit at NTNU Norway 16 September to 19th September 2019.
17. Dr. Manoj Kumar Soni As a Co-PI, received an industrial research project titled "Design and development of Fixed and Floating Solar PV Installations for water management infrastructures", worth 11.36 Lakhs to First Green Consulting Pvt Ltd, Gurgaon. The PI is Prof. Ravi Kant Mittal.
18. Dr. K.S. Sangwan working on UNEP project on Sustainable Production and Consumption.
19. Dr. A R Harikrishnan submitted proposal to DST-SERB Startup Research Grant (SRG) as PI accepted for funding (with a support amount of 30.00 Lakhs).
20. Dr. M S Dasgupta chaired a session 3C titled Casting & Forming at 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), November 20-22, 2019, Dubai, UAE.
21. Dr. P. Srinivasan chaired a technical session on "Heat Transfer and materials" at 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), November 20-22, 2019, Dubai, UAE.
22. Dr. BK Rout Technical Committee Member for the 7th International Conference on Control, Mechatronics and Automation will be held in TU Delft, Netherlands on November 6-8, 2019.
23. Dr. M.S. Dasgupta, DST Travelling Grant for attending IIR Congress, Montreal Canada.
24. Dr. BK Rout Technical Committee Member for the International Conference on Modelling, Simulation & Intelligent Computing, 29-31 January 2020, BITS Pilani Dubai Campus.
25. Dr. Suvarjan Bhattacharyya Technical Committee Member (Chair) for the National Conference on Sustainable and Recent Innovation in Science and Engineering. 28-29 November 2019, Motihari Govt. College of Engineering, Motihari, Bihar.
26. Dr. Suvarjan Bhattacharyya chaired three technical sessions at National Conference on Sustainable and Recent Innovation in Science and Engineering. 28-29 November 2019, Motihari Govt. College of Engineering, Motihari, Bihar.
27. Dr. A R Harikrishnan invited Speaker for the International Conference on Droplets, Chengdu, China, December 2019.
28. Prof. Manoj Kumar Soni chaired a session in 3rd Indo-German Conference on Sustainability in Engineering: Enhancing Future Skills and Entrepreneurship, jointly organized by BITS Pilani and TU Braunschweig, 16th-17 Sept 2019.

b. Won by Students:

1. Ms. Divya Rathore awarded with "The Chitararth Dagar Memorial Award" for the Best Outgoing Student in Mechanical Engineering for the year 2018-2019.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Dr. A K Digalwar organized 12th Annual ISDSI International Conference at SPJIMR Mumbai during 27-30 Dec 2018.
2. Dr. T C Bera conducted two days certificate program on "welding and gas cutting" at GRASIM Harihar, Karnataka during January 21-22, 2019.

3. Dr. P.Srinivasan presented a Project Proposal for possible research collaborations at TechnoConnect Event organized by Johnson Controls India at Mumbai during May 28-29, 2019.
4. Dr. M.S. Dasgupta, Dr. P. Srinivasan, Dr. Subhanjan Bhattacharya, Dr. Deepak Sharma, Dr. Venkatesh K. P., Dr. Murali Palla, Dr. Tufan Bera, and Dr. Aneesh A. M. - R&D Project on Metal Caps, Grasim Industries Limited, Unit – Aditya Birla Insulators.

12. PATENTS FILED/PUBLISHED AND GRANTED

S.No	Inventor Name(s)	Department	Title of the invention	Status
1	Dr. M.S. Soni / Mr. Nikhil Gakkhar / Mr. Sanjeev Jakhar	Department of Mechanical	A Liquid-Cooled Hybrid Solar Energy Collector	Application Awaiting Examination

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

1. Mechanical Engineering Association

(i) Chitrarth Dagar Memorial Award: The Chitararth Dagar Memorial award for the Best Outgoing Student in Mechanical Engineering for the year was presented to Ms. Divya Rathore. She was awarded based on academic excellence, leadership skills, and involvement in impactful social activities.

(ii) APOGEE 2019: Mechanical Engineering Association organized three events in the APOGEE-the annual technical fest of BITS Pilani, including one kernel event.

- Full Throttle Grand Prix (FTGP): Racing of self-made remote controlled internal combustion engine vehicles.
- Junkyard Wars: In this event, the teams are given the BITS workshop for 36 hours and asked to create a working mechanical system that performs a given problem statement.
- Battle at Waterloo: In this event, students build wireless remote controlled RCB motor boat and race this boat in the BITS swimming pool.

(iii) Workshop on Brain Computer Interaction (BCI): Mechanical Engineering Association in collaboration with **Cortex Technologies** (BITSian Start-up) organized a three-day workshop on the brain computer interaction.

(iv) BITS Innovation Challenge: To commemorate Engineer's Day on 15 September, Mechanical Engineering Association initiated the first edition of the BITS innovation challenge to address open-ended real time problems.

(v) Talk on Future Prospects in Mechanical Engineering: Mechanical Engineering Association organized a talk on the future prospects of automotive technology on 13 November 2019. Mr. Devdutta Chandavakar, former Director and Board Member of Mercedes Benz India delivered the talk.

(vi) Talk on Modern Manufacturing and Robotics for Automotive Industry : Mechanical Engineering Association in collaboration with the Work Integrated Learning Programme Division (WILPD) organized a Technical Seminar on "Modern Manufacturing Processes & Robotic Applications in Automotive Industries" on Aug 31st – September 1st 2019.

1. BAJA Team: BAJA team is working towards designing and manufacturing an All-Terrain Vehicle (ATV).

Some of our innovations are 1. Telescopic driveshaft 2. Optimizing hub design 3. Gear design 4. Custom Rotor Design 5. Designing Steering system with 70% Ackerman

(i) Details of the team participations and individual achievements in 2019.

- Team stood 21st out of the 226 team that appeared in BAJA VIRTUALS 2020 and qualified for the main event at Pithampur.
- The team also participated in several events at APOGEE 2019, out of which we finished podium in three of them.
- The team has designed a unique Leaning Suspension system and also proposed to institute and vetted for its feasibility. The institute has approved the design.

(ii) Activities conducted in year 2019

- The team had conducted Workshops for Autodesk Fusion 360, ANSYS and Solidworks for design and simulations.

2. Manufacturing Engineering Association

Manufacturing Engineering Association organized following events during the academic year 2019.

1. CAE software hands on training workshop conducted in collaboration with Inspired Karters-BAJA.
2. Autodesk Webinar as a Pre-APOGEE event.
3. APOGEE paper presentation.

4. Two Kernel events in APOGEE -Mechanix and Reverse Engineering.
5. Organized Guest Lacture Series on Modern manufacturing and Robotics for Automotive Industry. Distinguished Speakers: Dr. R. Narayanasamy (NIT Trichy) and Dr. B. K. Rout (BITS Pilani), 31 August -1 September, 2019.
6. Organized CAM Workshop by Autodesk Ltd on 9-10 November 2019. Keynote speaker was Mr. Anand Pujari, Autodesk Ltd, Bangalore.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S. No.	Software/Equipment	No. of Licenses or Qty
1	Semi-automatic Fly ash/Cement bricks making machine	1
2	Cutting/Grinding/Polishing tools	-
3	COMSOL Multiphysics	1
4	Goniometer	1
5	EMRAX_208 Electric motor	1
6	GRIMM Portable Aerosol Spectrometer	1
7	Single Phase resistive load 5kW	1
8	Kirloskar Diesel Generator Set	1
9	Heat Exchanger Set up	2
10	Digital Imaging Camera for Microscope Model	1
11	Lab View	1
12	MyDartFish Pro	1
13	Air velocity meter, Digital Tachometer and Infrared Thermometer	1
14	Solar Cooker	5
15	Programmable Data logger: 8 Channel	3
16	Drilling Machine and Angle Grinder	1
17	GaBi Professional	1
18	Diode Laser	1
19	EMT Sports V2.0 Kit	1
20	Disk Polishing Machine	1

B1.10.11 Department: ManagementNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	1
Associate Professors	3
Assistant Professors	8
Lecturers	0
Visiting Faculty	0
Visiting Assistant Professors	0

Head of the Department: Prof. Jyoti Tikoria**Contact details: Email:** jyoti@pilani.bits-pilani.ac.in**Phone:** +91-01596515334 (O)

+91-01596-515264 (Direct)

Number of Ph.D. Scholars: 29**Full Time : 13****Part Time : 15****Aspirant Scheme : 01****Ph.D. Thesis Submitted during the year: 2019**

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Mr.(Brig.) Ravinder Singh	2013 PHXF0507P	Strategic Sourcing from Risk Management Perspective: A Study of Indian Automobile Industry	Dr. Satyendra Kumar Sharma	Dr. Rajesh Matai
2	Amrita Patwa	2012PHXF011P	An Investigation into the Antecedents of Employee Engagement and Employee Creativity	Prof. Anil Kumar Bhat	

1. SPONSORED RESEARCH AND CONSULTANCY**(i) PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Use of Social Media as a Driver for Innovation in Higher Education in India	Management	Dr. Nirankush Dutta	Prof. Anil Bhat	ICSSR		10,00,000
2	Designing a Futuristic Learning Framework for Post Millennial Generation Students of Higher Education Institutions in India	Management	Dr. Jayashree Mahesh	Prof. Anil Bhat	ICSSR		8,90,000
3	Modelling the Drivers and Barriers of Electric Vehicle Penetration in Emerging Economy: A Study of Indian Market	Management	Dr. Hariom Bansal	Dr. Praveen Goyal	ICSSE		5,00,000
4	Developing Active Social Learning Interventions and Assessing their Impact on Environmentally Sustainable Consumption Behavior	Management	Dr. Leela Rani	Dr. Neetu Yadav	ERIC, NCERT, New Delhi		5,13,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Employer Branding for Generation Z: Investigating the work values from the Indian perspective	Management	Dr. Mohammad Faraz Naim	-	-	-	2,00,000

(ii) ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Measuring the Impact of Socially Responsible Supply Chains and Development of Framework for Implementing Socially Responsible Supply Chains".	Management	Satyendra Kumar Sharma	Saurabh Chadha	ICSSR	-	5,90,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

(iii) COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Drivers of Sustainability Practices in SMEs: An Exploratory Study of Small Manufacturing Firms in Rajasthan	Management	Neetu Yadav	Leela Rani	ICSSR New Delhi	-	3,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
2	Modeling of Employee Performance and Human Capital, Assessment and Optimization of Productivity of Indian Manufacturing Industry	Management	Udayan Chanda	Praveen Goyal	ICSSR New Delhi	-	5,00,000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Empirical Investigation of Antecedents of Negative Word of Mouth in Online Social Network Sites	Management	Nirankush Dutta	-	RIG	-	2,00,000

3. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

- Gaur, J., Venkatesh, M., Banerjee, P., Amini, M. & Gupta, R. (2019), "Towards building circular economy: A cross-cultural study of consumers' purchases intentions for reconstructed products", *Management Decision*
- Banerjee, P. & Gupta, R. (2019), "Talent attraction through online recruitment websites: Applications of Web 2.0 technology", *Australasian Journal of Information Systems*, 23, pp. 1-23
- Chanda, Udayan and Goyal, Praveen (2019), "A Bayesian network model on the interlinkage between Socially Responsible HRM, Employee Satisfaction, Employee Commitment and Organizational Performance. *Journal of Management Analytics*
- Chanda, Udayan and Kumar, Alok (2019), Optimal ordering policy for Short Life-cycle Products under Credit financing with dynamic adoption in supply chain. *Journal of Management*
- Chanda, Udayan and Goyal, Praveen (2019), "Assessing impact of Human Capital, SRHRM and Employee related factors on Firm Performance *Journal of Industrial Integration and Management: Innovation and Entrepreneurship*", *Journal of Industrial Integration and Management: Innovation and Entrepreneurship*, Vol. 4(2), pp. 1- 35.
- Chanda, Udayan and Kumar, Alok (2019), "Optimization of EOQ Model for New Products under Multi-Stage Adoption Process", *International Journal of Innovation and Technology Management*, 16: 2, 1950015: 1-25
- Yadav, N. and Sehgal, V. (2019), "India's super 50 companies and their mission statement: A multifold perspective", *Journal of Strategy and Management*, Vol. 12 No. 2, pp. 208- 226.
- Dutta, N., Bhat, A., Bhattacharya, K.S., & Mahesh, J. (2019). "Attracting Students to the Class-room with Innovative Pedagogies". *South Asian Journal of Business and Management Cases*, Vol 8 No. 3, pp. 241-250.
- Victor Saha and Praveen Goyal (2019), "How co-creation Drives the success of Public Service Initiatives? A Case-study Based Analysis", *Journal of Nonprofit and Public Sector Marketing* (forthcoming).
- Kumar, D., Goyal, P. and Kumar V (2019), "Prioritizing CSR barriers in the Indian Service Industry: A Fuzzy AHP Approach", *Scientific Annals of Economics and Business*, Vol. 66 No.2, pp. 213-233
- Kumar, D., Goyal, P. and Kumar V. (2019), "Modeling and classification of enablers of CSR in Indian firms", *Journal of Modelling in Management*, Vol. 14 No. 2, pp. 456-475

12. Chanda, U. and Goyal, P. (2019), "Assessing impact of Human Capital, SRHRM and Employee related factors on Firm Performance", *Journal of Industrial Integration and Management: Innovation and Entrepreneurship*, Vol. 4 No. 2, pp.
13. Sharma Satyendra, Singh Ravinder and Matai Rajesh (2019), "Incorporating Risks and Costs into Global Sourcing Decisions", *International Journal of Procurement Management*, Vol.12 No.6, pp.669 - 689.
14. Vijay Sharma, Satyendra Sharma and Ajit Pratap Singh (2019), "Risk Enablers Modeling for Infrastructure Projects Using Bayesian Belief Network" *International Journal of Construction Management* (accepted)
15. Seth, H., Chadha, S. and Sharma, S (2019), "Redesigning the efficiency process analysis for working capital models", *Journal of Global Operations and Strategic Sourcing* (Accepted)
16. Satyendra Sharma, Swapnijiit Chakraborti, & Tanya Jha (2019), "Analysis of book sales prediction at Amazon marketplace in India: a machine learning approach". *Information Systems and e-Business Management*, Vol. 17 pp.1-24.
17. Satyendra Sharma, Saurabh Chadha and Pradeep Kautish (2019) "A Theoretical Framework of Socially Responsible Supply Chain for Future Research: From A Literature Study Perspective" Accepted *Int. J. of Procurement Management*, Scopus.
18. Vijay Sharma, Satyendra Sharma and Ajit Pratap Singh (2019), "Assessment for Risk of Logistics Infrastructure Projects Using Analytic Network Process *Int. J. of Process Management and Benchmarking* Accepted, Scopus
19. Satyendra Sharma and Saurabh Chadha (2019), "Impact of Social Responsible Supply Chain on Firm Performance *Int. J. Process Management and Benchmarking* ABDC- C
20. Satyendra Sharma Sajeev George (2019), "A vendor recommendation model using neural networks" *Int. J. Process Management and Benchmarking*, ABDC- C
21. Sharma, S., Chadha, S. and Seth, H. (2019), "Linking Social Disruption and Firm Performance", *International Journal of Process Management and Benchmarking* (Forthcoming).
22. Chadha, S. and Seth, H. (2019), "Ownership Structure and Capital Structure: A Panel Data Study", *International Journal of Business Innovation and Research* (Accepted).
23. Chadha, S., & Sharma, S. (2019), "Capital budgeting practices: a survey in the selected Indian manufacturing firms", *International Journal of Indian Culture and Business Management*, 18(4), 381-390.
24. Rana A., Bhat A. K. & Rani L. (2019), "The Cognitive Structure of Online Brand Choice: An Exploratory Study, in book: P. Rossi, N. Krey (eds.), *Finding New Ways to Engage and Satisfy Global Customers, Developments in Marketing Science: Proceedings of the Academy*, Publisher: Springer, Cham.
25. Unnikrishnan PM; Jyoti Tikoria and Arun Kumar Agariya (2019), "TQM to Business Excellence: A Research Journey (1985-2018)' published in *International Journal of Business Excellence*. 19(3), 323-363.
26. Unnikrishnan PM; Jyoti Tikoria and Arun Kumar Agariya (2019), "Benchmarking business excellence practices: a case based approach' is accepted for publication in the fourth coming issue of *International Journal of Process Management and Benchmarking*.
27. Aditi S. Divatia, Sunil Lakdawala and Jyoti Tikoria (2019), "Dimensions influencing Business Intelligence & Analytics Maturity: a critical analysis; DOI: 10.1504/IJBIS.2020.10024186
28. Tiwari P., Anil.K.Bhat, Jyoti Tikoria and Kaustav Saha (2019), " Exploring the factors responsible in predicting entrepreneurial intention among nascent entrepreneurs: A field research" *South Asian Journal of Business Studies*
29. Sharda Nikita and Anil. K. Bhat (2019), "Role of Consumer Vanity and the Mediating Effect of Brand Consciousness in Luxury Consumption" in *Journal of Product & Brand Management* Vol. 28 No. 7, pp. 800-81
30. Agariya A. & Tikoria J. (2019) "Development & Validation of Service Quality Scale for Indian Telecom Sector" *International Journal of Services and Operations Management* (Paper Accepted)
31. Victor Saha, Mani Venkatesh and Praveen Goyal (2019) "Emerging trends in the literature of value co-creation: a bibliometric analysis", *Benchmarking* (Accepted)

4. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

1. Nirankush Dutta, Ayush Verma and Anil Bhat (2019), "Analysis of Factors Influencing Negative e-Word of Mouth in Online Social Media Marketing", Accepted in the 3rd International Conference on Software and e-Business (ICSEB 2019) held in Waseda University (Nishi-Waseda campus), Tokyo, Japan during December 09-11, 2019.

2. Bhatia, R. & Dutta, N. Bhatia, R. & Dutta, N. (2019), "Social Media Platforms for Knowledge Dissemination in Higher Education: A Systematic Literature Review" in the Third International Conference on Evidence Based Management (ICEBM 2019) organized by Birla Institute of Technology & Science (BITS) Pilani at BITS Pilani Campus from Feb 1, 2019 to Feb 2, 2019 (ISBN: 978-93-86238-65-8), pp. 269-273
3. Chadha S and Seth H (2019), "Quantifying Working Capital Management: An Empirical Analysis of Efficiency Model", paper presented at TBM International Business Conference, organized by HCT Business School Dubai, UAE in March 18 – 19, 2019.
4. Chanda, Udayan and Kumar, Alok, (2019), "Economic Order Quantity Model for Technology Items with Imperfect Quality and Deterioration where Demand follows Multi-Stage Diffusion Dynamic, presented in 41st Annual ISMS Marketing Science Conference organized by INFORMS held in University of Roma Tre, Rome on June 20-22 2019
5. Matai Rajesh and Singh Surya Pratap (2019), "Linearized formulation for dynamic facility layout problem" in POMS INTERNATIONAL CONFERENCE 2019-Connecting the Operations Management & Supply Chain Management World in Divided Times, September 2-4, Brighton (UK).
6. Bhanu Mishra and Jyoti Tikoria (2019), "Relationship of Moral development and Machiavellianism with Organisational Climate: HRM Implications for Indian Hospitals" Presented at 3rd Annual conference Aston Business School, AICAR 2019 at Aston Business School, Birmingham
7. Saha, V. Goyal, P. and Shishodia, M. (2019), "Are Companies In The Indian Hotel Industry Paying Attention To Their Customers' Feedback? A Lexical Study of Online Reviews" has presented at the 41st Annual ISMS Marketing Science Conference, June 20 – 22, 2019, in Rome, Italy.
8. Sharma, S. K. and Routroy, S (2019), "Environmental risk modelling in supply chain" Intl conference on Transformative business models (TBM) organized by HCT Business School Dubai, 18-19 March 2019
9. Tirumala, B., Fuladi, S., & Dutta, N. (2019), "Analysis of Visual Media Marketing Strategy of Apple Inc." in the Third International Conference on Evidence Based Management (ICEBM 2019) organized by Birla Institute of Technology & Science (BITS) Pilani at BITS Pilani Campus from Feb 1, 2019 to Feb 2, 2019 (ISBN: 978-93-86238-65-8), pp. 37-40 [Adjudged Best Paper]
10. Unnikrishnan PM; Jyoti Tikoria and Arun Kumar Agariya (2019), "Evidence based and Data driven management practices in manufacturing industry - a case study" at the 3rd International Conference on Evidence Based Management" (ICEBM 2019) held on February 1-2. 2019 at BITS Pilani, Pilani Campus.
11. Yadav, N. and de Waal, A. (2019), "How High Performing are Indian organizations in comparison with Asian Organizations?", Presented and Accepted for Publication at British Academy of Management 2019 conference at Aston University, Birmingham, UK, Sep 03-05, 2019.

Case Study

1. Dutta, N., Bhat, A., Bhattacharya, K. S., & Mahesh, J. (2019) Attracting Students to the Classroom with Innovative Pedagogies'. South Asian Journal of Business and Management Cases, 8(3), 241–250. <https://doi.org/10.1177/2277977919860275>.
2. Sajeev George, Abraham and Satyendra Sharma, (2019), Supply Chain Management@ Big Basket (Hyper local e-commerce service) 619-0004-01 Case Centre

National: Nil

5. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Naim, M. F. & Bulinska-Stangrecka, H. (2019). Down the rabbit hole: Social media, workplace collaboration, Millennial psychological needs satisfaction, and affective commitment in 4.0 industry, In Thriving in digital workplace, (pp. 253-264), Springer, Switzerland.
2. Rana, A., Bhat, A., and Rani, L. (2019), "The cognitive structure of online brand choice: An exploratory study. Developments in Marketing Science: Proceedings of the Academy of Marketing Science (Springer International publishing) – ISBN 978-3-319-76429-0 [Chapter 142]
3. Tiwari P., Bhat A.K., Jyoti (2019), "The Effect of Emotional Intelligence, Empathy and Perceived Social Pressure on Predicting Social Entrepreneurial Intention: A Field Research. In: Majumdar S., Reji E. (eds) Methodological Issues in Social Entrepreneurship Knowledge and Practice. Springer Proceedings in Business and Economics. Springer, Singapore

6. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

Department of Management, BITS Pilani, Pilani campus organized 3rd International Conference on Evidence Based Management, 2019 held on 1st Feb 2019- 2nd Feb 2019. Mr. Deep Thomas, Chief Data and Analytics Officer at Aditya Birla Group was chief guest at inaugural of ICEBM 2019.

The Department of Management in collaboration with WILP, organized a HR Conclave titled 'Workplace in the Era of Industry 4.0 – Skill Upgrading and Development' on March 1, 2019 at BITS Pilani – Pilani Campus in collaboration with WILP. This time the conclave was organized in Pilani Campus with an objective to bring together all the key stakeholders namely Department of Management (DoM), WILP, PS, Placement Unit and Industry in order create synergy amongst them, and maximize the value and outcome for each partner. Under the above theme, during the conclave there were keynote talks and 3 panel sessions that deliberated upon various facets of the issue. The details of the panel discussion are as follows:

- Panel 1 – Futuristic Skills Required in the Manufacturing Sector
- Panel 2 Skill Requirements in Customer Services/Technology Enabled Services
- Panel 3 – Learning and Development – Implication of the Changes on Skill Requirements

The conclave brought together eminent experts from industry and academia to understand how the job markets are going to change radically in the era of Industry 4.0 and how the important stakeholders can collaborate to brace themselves for the change. Some of the eminent guests were:

- Chief Guest: Mr. Vineet Kaul, Advisor, Group HR, Aditya Birla Group
- Guests of Honour: Mr. Ranjan Kumar Mohapatra, Director HR – Indian Oil, Mr. Sanjay Shivnani, Senior Vice President, Aditya Birla Skills Foundation, Mr. Pradeep Sethi, CEO & MD, Corporate Insight Pvt. Ltd.

This convener for this conclave was Dr. Jayashree Mahesh and it was coordinated by Dr. Pratyush Banerjee and Dr. Mohammad Faraz Naim.

7. INVITED TALKS GIVEN BY BITS FACULTY

1. Prof. Anil K Bhat Conducted FDP "Management Principles for Engineers" for faculty at SRM university Chennai on 19-20th June 2019
2. Prof. Anil K Bhat, Dr. Satyendra K Sharma and Dr. Rajesh Matai, conducted MDP on "Effective Project Management" for Shree Cement, Ras, Beawar, Rajasthan on 5-6th June, 2019
3. Dr. Md. Faraz Naim was Guest speaker for Seminar on Career opportunities in Management on September 12 & 13, 2019, at Landmark Technical Campus, Amroha, India.
4. Dr. Nirankush Dutta was invited as a guest speaker in National Conference on "Strategies for Reshaping Business & Economy: Reinventing & Predicting Management Practices" organized by Shobhit University held on 22nd & 23rd November, 2019 at Gangoh, Uttar Pradesh.
5. Dr. Nirankush Dutta was Invited as a guest speaker in 1st Comprehensive Conclave on "Future of Management Education" organized by ICFAI Business School and BWEducation held on 12th November, 2019 at The Imperial, New Delhi.
6. Dr. Nirankush Dutta was Invited as a guest speaker in One-day Commerce Seminar on "Recent Trends in Business, Economy & Taxation" organized by B K Birla Institute of Higher Education, Pilani held on 10th Oct 2019 at Pilani.

8. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Mr. Deep Thomas, Chief Data and Analytics Officer Aditya Birla Group, delivered a talk on "Data Analytics" at the department of Management, BITS Pilani on 1-Feb-2019.
2. Dr. Pankaj Kulshreshtha, Founder and CEO, Scienaptic Systems, New York, delivered a talk on "Evidence & reasoning: how big data has changed the world of knowledge" at the department of Management, BITS Pilani on 1-Feb-2019.
3. Dr. Milind Kelkar, Chief Analytics Officer, Unpickle, delivered a talk on "Evidence-driven decision making for Banks" at the department of Management, BITS Pilani on 1-Feb-2019.
4. Mr. Ashu Kakkar, Associate Vice President, HCL Technologies Ltd., delivered a talk on "Evidence-Based Management practices in IT/ITES" at the department of Management, BITS Pilani on 1-Feb-2019.
5. Mr. Ashu Kakkar, Associate Vice President, HCL Technologies Ltd., delivered a talk on "Session on Big Data" at the department of Management, BITS Pilani on 1-Feb-2019.
6. Dr. Sanjeevan Kapshe, Mentor at Sanjeevani, delivered a talk on "Globalization of Economy, Homogenization of Culture, and Crisis of Individual Identity" at the department of Management, BITS Pilani on 2-Feb-2019.
7. Dr. Sanjana Rambal Bhat, Medical Superintendent, BITS Pilani, delivered a talk on "Evidence-Based Medicine: Process and Evolution" at the department of Management, BITS Pilani on 2-Feb-2019.
8. Dr. Milind Kelkar, Chief Analytics Officer, Unpickle, delivered a talk in Workshop on "Building Data Science Skills" at the department of Management, BITS Pilani on 2-Feb-2019.

9. Dr. Sanjeevan Kapshe, Mentor at Sanjeevani, delivered a talk in Workshop on "Data analysis for Investments and Portfolio Management" at the department of Management, BITS Pilani on 3-Feb-2019.
10. Mr. Vineet Kaul, Advisor, Group HR, Aditya Birla Group, delivered a talk in HR Conclave Inauguration and Key Note Session-Workforce in the Era of Industry 4.0 : Skill Development and Upgrading at the department of Management, BITS Pilani on 1-March-2019.
11. Mr. Ranjan Kumar Mohapatra, Director HR-Indian Oil Corporation Ltd., delivered a talk in HR Conclave Inauguration and Key Note Session-The Future Workforce at the department of Management, BITS Pilani on 1-March-2019.
12. Mr. Naveen Kapur, Founder, N. K. Engineers Inc., delivered a talk in HR Conclave Panel 1: Manufacturing-Futuristic Skills Required in Manufacturing Sector-Overview of Changes over the years at the department of Management, BITS Pilani on 1-March-2019.
13. Mr. Jagat Singh Dangi, Head- Corporate Human Resources, Minda SAI Ltd., delivered a talk in HR Conclave Panel 1: Manufacturing-Futuristic Skills Required in Manufacturing Sector-Adapting to the new requirements of the Industry at the department of Management, BITS Pilani on 1-March-2019.
14. Mr. Ramachandran S., Principal Consultant, Infosys Knowledge Institute, delivered a talk in HR Conclave Panel 1: Manufacturing-Futuristic Skills Required in Manufacturing Sector-Neo skilling and the need for upskilling at the department of Management, BITS Pilani on 1-March-2019.
15. Mr. Nandakumar Ghule, Head, Purchase & Supply Chain, Tata Motors Ltd., Dharwad, delivered a talk in HR Conclave Panel 1: Manufacturing-Futuristic Skills Required in Manufacturing Sector-Impact of implementation of automation in the automobile sector at the department of Management, BITS Pilani on 1-March-2019.
16. Mr. Rajiv Kaul, Plant Head, Bliss Anand Pvt. Ltd., delivered a talk in HR Conclave Panel 1: Manufacturing-Futuristic Skills Required in Manufacturing Sector-Human Revolution at the department of Management, BITS Pilani on 1-March-2019.
17. Mr. Rajnish Sinha, Founder & CEO, Global Talent Search Partner, TA Corridor, delivered a talk in HR Conclave Panel 3: Learning And Development – Implications of the Changes on Skill Requirements- Need for High Potential Culture Organization at the department of Management, BITS Pilani on 1-March-2019.
18. Mr. Rajkumar Meenakshisundaram, Director GFSSC, Agility Logistics, delivered a talk in HR Conclave Panel 2: Services-Skill Requirement in Customer & Technology Enabled Services-Shift from effort based quantification to output based quantification at the department of Management, BITS Pilani on 1-March-2019.
19. Mr. Sanjay Shivnani, Senior Vice President, Aditya Birla Skills Foundation, delivered a talk in HR Conclave Panel 2: Services - Skill Requirement in Customer & Technology Enabled Services- Importance of Customer Centricity at the department of Management, BITS Pilani on 1-March-2019.
20. Mr. Pradeep Sethi, CEO & MD, Corporate Insight Pvt. Ltd., delivered a talk in HR Conclave Panel 2: Services- Skill Requirement in Customer & Technology Enabled Services at the department of Management, BITS Pilani on 1-March-2019.
21. Mr. Indranil Mukherjee, Managing Director, B-Braun Medical (India) Pvt. Ltd., delivered a talk in HR Conclave Panel 2: Services - Skill Requirement in Customer & Technology Enabled Services-Importance of Embracing Change at the department of Management, BITS Pilani on 1-March-2019.
22. Mr. G. Ramesh Prabhu, CA & Partner, Price Patti, delivered a talk in HR Conclave Panel 2: Services - Skill Requirement in Customer & Technology Enabled Services – From Mass Production to Mass Customization at the department of Management, BITS Pilani on 1-March-2019.
23. Dr. Nivedita Debnath, Director, Learning and Organizational Development, Asia Pacific, Avery Dennison, delivered a talk in HR Conclave Panel 3: Learning And Development – Implications of the Changes on Skill Requirements – Changes in Learning Trends at the department of Management, BITS Pilani on 1-March-2019.
24. Prof. Chandra Shekhar, Chairperson and Chancellor of the Academy of Scientific and Innovative Research (AcSIR), Ex-Director, CSIR-CEERI, delivered a talk in HR Conclave Panel 3: Learning And Development-Implications of the Changes on Skill Requirements-Impact of Changes in organization on Academia at the department of Management, BITS Pilani on 1-March-2019.
25. Mr. Akash Agarwal, Management Consultant with Nexus Angels Consulting, delivered a talk on “‘Creating sustainable competitive advantage’ for MBA students” at the department of Management, BITS Pilani on 7-September-2019.
26. Mr. Rahul Kohli, Chief Executive Officer (Fertilizer Business) at Aditya Birla Group and Advisor to Chancellor, Mr. Kumar Mangalam Birla for Higher Education, delivered a talk on “Interaction with faculty and MBA students” at the department of Management, BITS Pilani on 13-September-2019.

27. Mr. Coumara Radja, President- Global Business at ZCL (earlier Zandu Pharma), delivered a talk on “‘Career on a fast-track’ And ‘International market entry strategies’” at the department of Management, BITS Pilani on 14-September-2019.
28. Ms. Padmini Sharma, Managing Partner, Jester&Genius, Dallas, Texas, delivered a talk on “The Brand Story Competitive Advantage” at the department of Management, BITS Pilani on 15th November 2019.
29. Mr. Sunil Rangreji, Senior Director - IT, Informatica, Bangalore, delivered a talk on “Design Thinking” at the department of Management, BITS Pilani on 16th November 2019.
30. Mr. Sunil Rangreji, Senior Director - IT, Informatica, Bangalore , delivered a talk on “Blue Ocean Strategy” at the department of Management, BITS Pilani on 18th November 2019.
31. Dr. M.R. Anand, Former Principal Economic Adviser, Government of India, delivered a talk on “Industrial growth experience: policies, institutions and instruments” at the department of Management, BITS Pilani on 19-November-2019.

9. AWARDS AND RECOGNITIONS

1. Dr. Md. Faraz Naim Reviewed a PhD thesis from University of South Africa in May 2019.
2. Dr. Nirankush Dutta Received award for "Excellent Presentation" for the paper titled "Analysis of Factors Influencing Negative e-Word of Mouth in Online Social Media Marketing" at the 3rd International Conference on Software and e-Business 2019 (ICSEB 2019) held on 9 Dec 2019 - 11 Dec 2019 at Waseda University in Tokyo, Japan.
3. Dr. Nirankush Dutta Received "Best Paper Award" for the paper titled “Analysis of Visual Media Marketing Strategy of Apple Inc.” in the 3rd International Conference on Evidence Based Management (ICEBM 2019) organized by Birla Institute of Technology & Science (BITS) Pilani at BITS Pilani (Pilani Campus).
4. The article authored by Dr. Neetu Yadav, Assistant Professor, Department of Management titled "How High Performing are Indian Organizations in comparison with Asian Organizations?" has been awarded the Best Full Paper Award in Performance Management track at British Academy of Management (BAM 2019) Conference held at Aston University, Birmingham, UK held during Sep 3-5, 2019.
5. Neetu Yadav, assistant professor, Department of Management's article (a teaching case study) “Amazon India's ‘Apni Dukaan’: branding strategy” published in Emerald Emerging Markets Case Studies has been selected by the editorial team as Highly Commended in the 2019 Emerald Literati Awards.

10. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Dr. Neetu Yadav participated in 41st Faculty Development Program on "Case Pedagogy and Research Methods" at IIM Ahmedabad, (15 May- 29 June, 2019).

11. DEPARTMENTAL ASSOCIATION/CLUB ACTIVITIES

(i) All India Management Convention, Interface 2019

The 42nd edition of INTERFACE was organized on 2nd and 3rd March 2019. Mr. RajKumar Meenakshisundaram, Director & Business Head, Global Finance Shared Services graced the event as the chief guest.

INTERFACE is a pan India management fest organized by the institute and the legacy event of the Department of Management, BITS Pilani. The fest has a long history and tradition of attracting and enthralling management students from top B-schools across the country. Interface'19 was based on the theme “**Kindle the Curious**” and the inspiration for choosing this theme was, not to accept what has been followed, but to contemplate the pros and cons of any proposal and break the complacency in the field of business.

The events conducted were related to all major fields of Management-Marketing, Finance, Operations, HR and Analytics. The events were designed towards testing the participants on different aspects of management concepts and their applications such as case study competitions, virtual stock trading, business plan presentations etc. Few of the events conducted were GoOnsite, Kaleidoscope, Phronesis, COO Challenge, Finomaniac. These events showcased critical reasoning and decision-making skills by finding the best possible solution to real-life scenarios provided.

The events were hosted on Dare2Compete platform and got approximately 70,000 views with 3013 registrations. 239 participants from various B-schools across India participated in the on-campus rounds of the events. The average prize money awarded was Rs.20000 for winners and Rs.15000 for runners along with free HBR subscription for 1 year.

In addition to these events, guests were invited from the industry to deliver talks and lectures to help reduce the gap between industry and academia. Mr.Ramesh Pradhu, Price Patt & Co. delivered the talk on Walk the Path - Bridging Theory and Practice. Another talk was delivered by Mr. Devan Bhalla, Senior Brand Manager, India Mart InterMESH Ltd, on Marketing 2.0 that gave indepth insights on content marketing and branding.

Overall Interface'19 was a great success with all the innovative events, industry related talks and participation of brilliant minds from various top management institutions across India.

(ii) Faculty activities

The group discussion and personal interviews for the candidates were conducted by the faculty teams of Management Department at Delhi, Hyderabad, Bangalore and Pilani. The department organized several workshops in emerging areas related to different functional areas of management. Several projects in various functional areas of management were supervised by the Department faculty members under special oriented projects, study oriented projects, and design oriented projects, reading courses and first degree thesis. Regular faculty and research scholar seminars were conducted in the department. The Department faculty members continued to teach many courses in WILP Programs of the institute. Faculty and research scholars published papers in international journals, national journals and in conference proceedings. Many faculty members have submitted proposals for projects to funding organizations and 3 new research projects have taken off under 5 faculty members.

iii) Student activities

Management association organized year-long activities through its clubs structured along four important functional areas of management viz. Marketing, Human Resource Management, Finance and Operations Management along with **Interface 2019**. Workshops were organized where students participated for learning and/or certifications.

B1.10.12 Department: Pharmacy

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	03
Associate Professors	03
Assistant Professors	11
Lecturers	0
Visiting Faculty	0
Visiting Assistant Professors	0

Head of the Department: Dr. Paul Atish Tulshiram

Contact details: 3170-G, Department of Pharmacy, Birla Institute of Technology and Science (Pilani)

Email: atish.paul@pilani.bits-pilani.ac.in

Phone/Mobile: 9649202109 ; Office: +91 (1596) 255206

Number of Ph.D. Scholars: 45

Full Time : 42

Part Time : 01

Aspirant Scheme : 02

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1.	Mr. SNC Sridhar	2013PHXF0006P	Study of Conophylline and its Inspired analogues as potent pancreatic lipase inhibitors for obesity treatment	Dr. Paul Atish Tulshiram	--
2.	Mr. Sushil K Yadav	2012PHXF0027P	Isolation and Characterization of Genetic Variants of Beta-Casein Protein (A1/A2) and Study Their Impact on Early Precipitation of Osteoporosis	Prof. R Mahesh	Prof. Vishal Saxena
3	Mr. Malek Vajir	2014PHXF0244P	Role of neprilysin in the development of cardiomyopathy and nephropathy associated with type 1 diabetes	Dr. Gaikwad Anil Bhanudas	--

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1.	Peptide- tethered multifunctional cationic nanocomplexes for delivery of IL-1 receptor antagonist for treatment of type 2 diabetes mellitus.	Pharmacy	Dr. Anupama Mittal	Dr. Deepak Chitkara	Science And Engineering Research Board (SERB)-DST	--	Recommended
2.	Repurposing of CNS accumulating drugs for potential treatment against glioblastoma: an in-silico, in-vitro and in-vivo study.	Pharmacy	-	Dr. Aniruddha Roy	ICMR	--	30,00,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1.	Design and Evaluation of Stable Oral Suspension	Pharmacy	Prof R.N. Saha	Dr Sunil K Dubey	Morningside Healthcare Ltd	--	32,00,000
2.	The impact of formulation variables and processing methods for solubility enhancement of poorly soluble model drug using Affinisol HPMCAS	Pharmacy	Prof R.N. Saha	Dr Sunil K Dubey	Colorcon Asia Private Limited	--	15,00,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1.	Development of a Triggered Release Nano-Formulation for Combined Chemo-Immunotherapy of Cancer	Pharmacy	Dr. Aniruddha Roy	Prof. Shyh-Dar Li	Shastri Indo-Canadian Institute	Prof. Shyh-Dar Li, UBC, Canada	10,00,000

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1.	To Decipher The Role of Oxidative Stress Induced Inhibition of PKM2 in Regulating Autophagic Induction of Nrf2: Understanding the Mechanism of ROS Adaptation in Breast Cancer Cells	Pharmacy	Dr. Richa Shrivastava	-	ACRG	-	1,50,000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1.	Exploring the synergism of PPAR-Y agonist and HDAC inhibitor for reversal of Alzheimer's type of dementia and developing their brain targeted nano-carrier system for effective treatment	Pharmacy	Dr. Rajeev Taliyan	Dr. Deepak Chitkara	DST- Nano-mission	-	32,12,800
2.	Exploring the effects of polyamine and associated metabolic regulation of hypothalamic GnRH-GnIH synthesis and release during ageing in BALB/cJ mice	Pharmacy	-	Dr. Rajeev Taliyan	DST-SERB	-	34,35,200
3.	Klotho regulation as a novel therapeutic strategy against acute kidney injury-diabetes comorbidity: Impact of epigenetic driven and epigenetic independent reactivation of endogenous Klotho expression	Pharmacy	Dr. Gaikwad Anil Bhanudas	-	DST-SERB	-	50,33,120
4.	To study the role of hyperglycemia on the progression of acute kidney injury	Pharmacy	Dr. Gaikwad Anil Bhanudas	-	DST-SERB (Early Career Research Award)	-	47,18,560
5.	Understanding hyperglycemia induced alterations in non-coding RNA expression pattern and post-translational histone protein modifications contributing to drug resistance and progression of pancreatic cancer	Pharmacy	-	Dr. Gaikwad Anil Bhanudas	DST-SERB (EMR)	-	40,32,800
6.	Design, Synthesis, Biological Evaluation and Molecular modelling studies of Indolyl Oxoacetamide-Quinazoline based hybrid analogs as potential pancreatic lipase inhibitors for Obesity treatment.	Pharmacy	Dr. Paul Atish Tulshiram	-	DST SERB	-	35,00,000
7.	Peptide decorated pH sensitive Nanoconjugate hybrid micelles for codelivery of temozolamide and an autophagy inducer, rapamycin, for treatment of glioblastoma multiforme.	Pharmacy	Dr. Deepak Chitkara	Dr. Gaikwad Anil Bhanudas	DBT	-	41,96,200
6.	Actively targeted nano-formulations for co-delivery of a taxane and antioxidant molecule, alpha lipoic acid, for treating breast cancer.	Pharmacy	Dr. Deepak Chitkara	Dr. Rajdeep Chowdhury	DST-Rajasthan	-	11,13,600
7.	Self-assembling, pH-sensitive temozolamide conjugate nanomedicine for treatment of glioblastoma multiforme.	Pharmacy	Dr Deepak Chitkara	Dr. Anupama Mittal	ICMR	-	25,12,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
8.	CRGD decorated lipopolymeric nanoplexes of CRISPR/Cas9 ribonucleoprotein (RNP) for the management of retinal dystrophic conditions.	Pharmacy	Dr Deepak Chitkara	Dr. Anupama Mittal	DBT	LV Prasad Eye Institute, Hyderabad and IGIB, Delhi	1,25,00,000
9.	Development and evaluation of lipid based nanoparticles of Quinapyramine and Isoniazid chloride for treatment of trypanosomiasis in camels	Pharmacy	Dr Anil Jindal	Dr Atish Paul	DBT	Dr Samar Ghouri, National Research Centre on Camels, Bikaner	44,72600
10.	Rod-shaped polymeric nanoparticles for targeted delivery of artemisinin derivatives to plasmodium infected erythrocytes for improved intravenous therapy of cerebral malaria.	Pharmacy	Dr Anil Jindal	-	SERB	-	43,30,000
11.	Umbilical Cord Mesenchymal Stem Cells Derived Exosomes as Biogenic Nanocarriers of miRNA and Chemotherapeutic Drug for Reversal of Chemoreistance in Breast Cancer.	Pharmacy	Dr. Anupama Mittal	-	DST Nanomission	Dr Swasti Tiwari and Dr Amrit Gupta (SGPGIMS, Lucknow)	56,46,000
12.	Gel-based composite formulation containing asiaticoside and neurotensin for rapid healing of diabetic wounds	Pharmacy	Dr. Anupama Mittal	Dr Deepak Chitkara	ICMR	-	28,00,000
13.	Cyclic RGD modified lipopolymeric micelles for targeted delivery of Tamoxifen in ER+ breast cancer	Pharmacy	Dr. Anupama Mittal	-	DST-Rajasthan	-	12,53,000
14.	Development of a Standardized Formulation of <i>Trigonella foenum graecum</i> Seeds for Preventing or Delaying the Development of Type 2 Diabetes in Subjects with Pre Diabetes.	Pharmacy	Dr. Sunil K Dubey	Prof Rajeev Taliyan	ICMR	-	30,62,000
15.	Role of Endocrine Disrupting Chemicals EDCs in Maternal and Child Health	Pharmacy	Dr. Sunil K Dubey	Prof Rajeev Taliyan	ICMR	AIIMS, New Delhi	Total: 66,23,000 BITS Share: 27,36,000
16.	Evaluation of antitumor efficacy and pharmacokinetics of polymeric nanoparticle formulation targeted to cancer stem cells.	Pharmacy	Dr. Aniruddha Roy	Prof. Rajdeep Chowdhury, BITS	DST-SERB	-	33,86,000
18.	Computer-aided design and synthesis of non-hydroxamate lipophilic DXR inhibitors as antimicrobial/antiparasitic agents	Pharmacy	Dr. Sandeep Sundriyal	-	DST-SERB	Mukti N. Mishra (CIMAP)	30,46,125

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
19.	Design and synthesis of Mycobacterium UDG inhibitors	Pharmacy	Dr. Sandeep Sundriyal	-	The office of PSA Gol/ IISc- Bangalore	Prof. B. Gopal (IISc)	10,00,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1.	Novel ophthalmic formulation development	Pharmacy	Prof. R. N. Saha and Dr. Gautam Singhvi	-	Slayback Pharma, India.	-	15,00,000
2.	In Vitro In Vivo Study Design Cardio protective Effect of Herbal Extract in Hypertensive Rats Role of NO cGMP pathway.	Pharmacy	Prof Rajeev Taliyan Dr Sunil K Dubey	-	Etica Clinpharm Pvt Ltd	-	9,92,000
3.	Development and Preclinical Evaluation of Nanostructured Lipid Particles for Targeting Brain Cancer.	Pharmacy	Dr Sunil K Dubey Dr Gautam Singhvi	-	Oniosome Healthcare Private limited	-	12,75,000
4.	Quality by design based suspension product development and process optimization.	Pharmacy	Dr Sunil K Dubey Dr Gautam Singhvi	-	Slayback Pharma, India	-	11,00,000
5.	Enhancement of oral bioavailability of selected drugs.	Pharmacy	Dr. Aniruddha Roy	Dr. Gautam Singhvi	Intas Pharmaceutical Ltd	-	45,00,000
6.	Design and characterization of nanoparticle based drug delivery systems of anticancer drug.	Pharmacy	Dr. Murali M Pandey & Dr. Gautam Singhvi	-	Crenza Pharmaceuticals Pvt. Ltd., Hyderabad	-	8,00,000

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1.	Development of novel anti-leishmanial analogues loaded with novel nano-formulations.	Pharmacy	Dr. S. Murugesan	Dr.KVG Chandrasekhar	DBT	Dr. Rafael Balaña Fouce, University of Leon, (SPAIN)	60,00,000

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1.	Computer-aided design and synthesis of non-hydroxamate lipophilic DXR inhibitors as antimicrobial/antiparasitic agents	Pharmacy	Dr. Sandeep Sundriyal	-	RIG	-	2,00,000
2.	Design and Synthesis of conformationally constrained cationic peptidomimetics (CPMs) as antimicrobial agents	Pharmacy	Dr. Sandeep Sundriyal	-	ACRG	-	9,49,860

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
3..	To decipher the involvement of COX-2 in regulating oxidative stress induced autophagy in breast cancer.	Pharmacy	Dr. Richa Shrivastava	-	RIG	-	2,00,000

3. COMPLETED PROJECTS

A. Completed Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1.	Design of Healthcare Supply Chain for Enhancing Availability and Reducing Wastage of Generic Medicines for Rural Areas in Rajasthan.	Pharmacy	Prof Srikanta Routroy	Dr Sunil K Dubey	DST Rajasthan	-	5,88,000
2.	Insight into dissolution mechanism of amorphous solid dispersions of macitentan.	Pharmacy	Dr. Murali M Pandey	-	DBT-Foldscope	-	8,00,000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1.	To study the protective effects of Herbal formulation against Myocardial Ischemia reperfusion injury in rats.	Pharmacy	Prof Rajeev Taliyan Dr Sunil K Dubey	-	Etica Clinpharm Pvt Ltd	-	4,00,000
2.	Development of nanoemulsion based formulations of bioactives.	Pharmacy	Dr Anil Jindal	-	Ananta Medicare	-	5,10,000
3.	Preliminary investigation, characterization and stability analysis of micelles formulation.	Pharmacy	Dr Sunil K Dubey Dr Gautam Singhvi	-	EnaltecPharma Research Private Limited	-	1,41,000

C. Completed International Projects: NIL

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1.	Preparation and characterization of chitosan nanoparticles prepared using a novel micellar system to deliver poorly water soluble drugs.	Pharmacy	Aniruddha Roy	-	-	-	2,00,000

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

67. Kunjiappan Selvaraj, Govindaraj Saravanan, Parasuraman Pavadai, Sankaranarayanan Murugesan, Arunachalam Sankarganesh, Palanisamy Ponnusamy, Mohan Uma Priya, Babkiewicz Ewa, Maszczyk Piotr, Sivakumar Vellaichamy, Theivendren Panneerselvam (2019). Design, in silico modeling and functionality theory of folate receptor targeted Myricetin-loaded bovine serum albumin nanoparticle formulation for cancer treatment. Nanotechnology, <https://doi.org/10.1088/1361-6528/ab5c56>.
68. Selvaraj Kunjiappan, Theivendren Panneerselvam, Saravanan Govindaraj, Suthendran Kannan, Pavadai Parasuraman, Sankarganesh Arunachalam, Murugesan Sankaranarayanan, Suraj Baskararaj, Ponnusamy

- Palanisamy and Damodar Nayak Ammunje (2019). Optimization and analysis of ultrasound-assisted extraction of bioactive polyphenols from *Garcinia indica* using RSM and ANFIS modeling and its anticancer activity. *Journal of Iranian Chemical Sciences*, DOI <https://doi.org/10.1007/s13738-019-01812-1>
69. Singireddi Srinivasarao, Adinarayana Nandikolla, Shashidhar Nizalapur, Tsz Tin Yu, Sravani Pulya, Balaram Ghosh, Sankaranarayanan Murugesan, Naresh Kumar and Kondapalli Venkata Gowri Chandra Sekhar (2019). Design, synthesis and biological evaluation of 1,2,3-triazole based 2-aminobenzimidazoles as novel inhibitors of LasR dependent Quorum Sensing in *Pseudomonas aeruginosa*. *RSC Advances*, 9, 2019, 29273-29292.
70. Selvaraj Kunjiappan, Theivendren Panneerselvam, Pavadai Parasuraman, Balasubramanian Somasundaram, Murugesan Sankaranarayanan, Sankarganesh Arunachalam and Sureshbabu Ramkumar Pandian (2019). Design and In-silico Modeling of Indoloquinoline Incorporated Keratin Nanoparticles for modulation of Glucose metabolism in 3T3-L1 adipocytes. *Biotechnology Progress*, e2904.
71. Nurhayatun Sobariah Abdul Razak, Joazaizulfazli Jamalis, Subhash Chander, Roswanira Abd. Wahab, Deepak P. Bhagwat and Murugesan Sankaranarayanan (2019). Coumarin-oxadiazole Derivatives: Synthesis and Pharmacological Properties. *Mini Reviews in Organic Chemistry*, DOI: 10.2174/1570193X166661910 29111051.
72. Suraj Baskararaj, Panneerselvam Theivendren, Ponnusamy Palanisamy, Suthendran Kannan, Parasuraman Pavadai, Sankarganesh Arunachalam, Murugesan Sankaranarayanan, Umapiya Mohan, Lokeshkumar Ramasamy, Selvaraj Kunjiappan (2019). Optimization of bioactive compounds extraction assisted by microwave parameters from *Kappaphycus alvarezii* using RSM and ANFIS modeling. *Journal of Food Measurement and Characterization*, DOI: 10.1007/s11694-019-00198-1.
73. Selvaraj Kunjiappan, Theivendren Panneerselvam, Saravanan Govindaraj, Pavadai Parasuraman, Suraj Baskararaj, Murugesan Sankaranarayanan, Sankarganesh Arunachalam, Ewa Babkiewicz, Aarthi Jeyakumar, Muthulakshmi Lakshmanan (2019). Design, In Silico Modeling, and Functionality Theory of Novel Folate Receptor Targeted Rutin Encapsulated Folic Acid Conjugated Keratin Nanoparticles for Effective Cancer Treatment. *Anti-Cancer Agents in Medicinal Chemistry*, DOI: 10.2174/1871520619666190702145609.
74. Fatma Mohamed A. Abid, Joazaizulfazli Jamalis, Subhash Chander, Roswanira Abd. Wahab, Deepak P. Bhagwat, Murugesan Sankaranarayanan (2019). Synthesis, characterization, in silico and antifungal studies of thiazolidine analogues. *Chemical Data Collections*, 21, 100219.
75. Selvaraj Kunjiappan, Panneerselvam Theivendran, Suraj Baskararaj, Bathrinath Sankaranarayanan, Ponnusamy Palanisamy, Govindaraj Saravanan, Sankarganesh Arunachalam, Murugesan Sankaranarayanan, Jawahar Natarajan, Balasubramanian Somasundaram, Ashish Wadhvani (2019). Modeling a pH sensitive Zein-co-acrylic acid hybrid hydrogels loaded 5-Fluorouracil and Rutin for enhanced anticancer efficacy by oral delivery. *3 Biotech*, 9, 185.
76. Subhash Chander, Deepak Bhagwat, Gautam Singhvi, Mona Piplani, Sankaranarayanan Murugesan, Rafael balana-fouce, Tarini Vats (2019). Plant-based Larvicidal Agents: An Overview from 2000 to 2018. *Experimental Parasitology*, 199, 92-103.
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78. Penta Ashok, Subhash Chander, Terry K. Smith, Rajnish Prakash Singh, Prabhat Nath Jha, Murugesan Sankaranarayanan (2019). Biological evaluation and structure activity relationship study of 9-methyl-1-phenyl-9H-pyrido[3,4-b]indole derivatives as anti-leishmanial agents. *Bioorganic Chemistry*, 84, 98-105.
79. Kunjiappan Selvaraj, Theivendren Panneerselvam, Sankaranarayanan Murugesan, Somasundaram Balasubramanian, Subbarayan Sarathbabu, Arunachalam Sankarganesh, Parasuraman Pavadai, Sivakumar Vellaichamy, Murugan Indhumathy, Baskararaj Suraj (2019). Design, graph theoretical analysis and bioinformatic studies of Proanthocyanidins encapsulated ethyl cellulose nanoparticles for effective anticancer activity. *Biomedical Physics & Engineering Express*, 5, 025004.
80. Taliyan Rajeev, C. Sarathlal K., Kakoty Violina (2019). Therapeutic Approaches to Alzheimer's Type of Dementia: A Focus on FGF21 Mediated Neuroprotection. *Current Pharm Design*, 25, 2555-2568.
81. Sharma S, KC Sarathlal, Taliyan R (2019). Epigenetics in neurodegenerative diseases: the role of histone deacetylases, *CNS & Neurological Disorders-Drug Targets*, 18, 11-18.
82. Pradhan R, KV Krishna, Wadhwa G, Taliyan R, Khadgawat R, Kachhawa G, Singhvi G, Dubey SK, (2019). QbD-driven development and validation of HPLC method for determination of Bisphenol A and Bis-sulphone in environmental samples. *International Journal of Environmental Analytical Chemistry*, 100, 42-54.

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84. Sankrityayan H, Oza MJ, Kulkarni YA, Mulay SR, Gaikwad AB. (2019). ER stress response mediates diabetic microvascular complications. *Drug Discovery Today*, 24, 2247-2257.
85. Malek V, Sharma N, Gaikwad AB. (2019). Simultaneous Inhibition of Neprilysin and Activation of ACE2 Prevented Diabetic Cardiomyopathy. *Pharmacological Reports*, 71, 958–967.
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87. Sankrityayan H, Kulkarni YA, Gaikwad AB. (2019). Diabetic Nephropathy: the regulatory interplay between Epigenetics and microRNAs. *Pharmacol Research*, 141, 574-585.
88. George G, Dileep P S, Paul AT (2019). Development and validation of a new HPTLC-HRMS method for the quantification of a potent pancreatic lipase inhibitory lead echitamine from *Alstonia scholaris*. *Natural Product Reports*, 1–5. doi:10.1080/14786419.2019.1705817
89. Chauhan D, George G, SNC Sridhar, Bhatia R, Paul AT, Monga V (2019). Design, synthesis, biological evaluation and molecular modeling studies of rhodanine derivatives as pancreatic lipase inhibitors. *Archive der Pharmazie* e1900029.
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94. Ishit S. Kothari, Samrat Mazumdar, Saurabh Sharma, Kishan S Italiya, Anupama Mittal, Deepak Chitkara (2019). Docetaxel and alpha-lipoic acid co-loaded nanoparticles for cancer therapy. *Therapeutic Delivery*, 10, 227-240.
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97. Ishit S. Kothari, Kishan S Italiya, Saurabh Sharma, Anupama Mittal, Deepak Chitkara (2019). A rapid and precise HPLC - UV method for simultaneous determination of alpha-lipoic acid and docetaxel in lipid based nano-formulations. *Journal of Chromatographic Sciences*, 56, 888-894.
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101. Kowthavarapu Venkata Krishna, Geetika Wadhwa, Amit Alexander, Neha Konija, Ranendra Narayana Saha, Ritushree Kukreti, Gautam Singhvi and Sunil Dubey (2019). Design and Biological Evaluation of Lipoprotein-Based Donepezil Nanocarrier for Enhanced Brain Uptake through Oral Delivery. *ACS Chemical Neuroscience*, 10, 4124-4135.

102. Sunil Kumar Dubey, K. Sai Pradyuth, Ranendra Narayana Saha, Gautam Singhvi, Amit Alexander, Mukta Agrawal, Bruce A. Shapiro, Anu Puri, Application of Photodynamic Therapy Drugs for Management of Glioma (2019). *Journal of Porphyrins and Phthalocyanines*. <https://doi.org/10.1142/S1088424619300192>.
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105. Rajesh Pradhan, Gautam Singhvi, Sunil Kumar Dubey, Gaurav Gupta & Kamal Dua (2019). MAPK Pathway: a potential target for the treatment of non-small cell lung carcinoma. *Future Medicinal Chemistry*, <https://doi.org/10.4155/fmc-2018-0468>.
106. Sunil K. Dubey, Monika Jindal, Shakti Nagpal, Ranendra N. Saha, Gautam Singhvi, Amit Anand and K V Krishna (2019). A Systematic Review on Analytical Methods to Determine Chiral and Achiral Forms of Venlafaxine and its Metabolite O-Desmethylvenlafaxine. *Current Pharmaceutical Analysis*. DOI:10.2174/1573412915666190204144202
107. Kowthavarapu Venkata Krishna, Ranendra Narayana Saha, Anu Puri, Mathias Viard, Bruce A. Shapiro, Sunil Kumar Dubey (2019). Pre-Clinical Compartmental Pharmacokinetic Modeling of 2-[1-hexyloxyethyl]-2-Devinyl Pyropheophorbide-a (HPPH) a Photosensitizer in Rat Plasma by Validated HPLC Method. *Photochemical & Photobiological Sciences*, DOI: 10.1039/c8pp00339d.
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111. Anuj Dixit, Srikanta Routroy and Sunil Dubey (2019). A Systematic Literature Review of Healthcare Supply Chain and Implications of Future Research. *International Journal of Pharmaceutical and Healthcare Marketing*, 13 (4), 405-435.
112. Rapalli VK, Singhvi G., Gorantla S, Waghule T, Dubey SK, Saha RN, Hasnain MS, Nayak AK (2019). Stability indicating liquid chromatographic method for simultaneous quantification of betamethasone valerate and tazarotene in in vitro and ex vivo studies of complex nanoformulation. *Journal of Separation Science* 42, 3413-3420.
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116. Sharma S, Swetha KL, Roy A (2019). Chitosan-Chondroitin sulfate based polyelectrolyte complex for effective management of chronic wounds. *International Journal of Biological Macromolecules*, 32: 97-108.
117. Rana D. Kalamuddin M, Sundriyal S, Jaiswal V, Sharma G, Das SK, Sijwali P. Mohmmmed, A, Malhotra, P, Mahindroo, N (2019). Identification of antimalarial leads with dual falcipain-2 and falcipain-3 inhibitory activity. *Bioorganic and Medicinal Chemistry*, doi.org/10.1016/j.bmc.2019.115155.
118. Shrivastava, Richa, and Nidhi Shukla (2019). Attributes of alternatively activated (M2) macrophages. *Life Sciences*. 224, 222-231.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

6. Banoth Karan Kumar, Faheem, Suraj Gupta, Moorthamma Sarathy Ganesan, Sankaranarayanan Murugesan, presented a paper, "In-silico design and study of novel proline derivatives as a potential

- inhibitor of α -amylase" in 3rd National Conference on New Frontiers in Chemistry-From Fundamentals to Applications-III, from December 20-22, 2019 at Department of Chemistry, BITS Pilani, K.K. Birla Goa Campus, Goa, Zuari Nagar, Goa.
7. Kondapalli VenkataGowri Chandra Sekhar, Singireddi Srinivasarao, Sankaranarayanan Murugesan and Naresh Kumar, presented a paper, "Nitrogen based heterocycles as bacterial Quorum Sensing inhibitors in *Pseudomonas aeruginosa*" in 3rd National Conference on New Frontiers in Chemistry-From Fundamentals to Applications-III, from December 20-22, 2019 at Department of Chemistry, BITS Pilani, K.K. Birla Goa Campus, Goa, Zuari Nagar, Goa.
 8. Adinarayana Nandikolla, Singireddi Srinivasarao, Sankaranarayanan Murugesan, and Kondapalli Venkata Gowri Chandra Sekhar, presented a paper, "5,6-Dimethyl-2-aminobenzimidazoles as bacterial Quorum Sensing inhibitors in *Pseudomonas aeruginosa*" in 3rd National Conference on New Frontiers in Chemistry-From Fundamentals to Applications-III, from December 20-22, 2019 at Department of Chemistry, BITS Pilani, K.K. Birla Goa Campus, Goa, Zuari Nagar, Goa.
 9. Sharma N and Gaikwad AB, presented a paper, "Angiotensin II type 2 receptor and angiotensin-converting enzyme 2 mediate ischemic renal injury in diabetic and non-diabetic rats" in 2nd National Biomedical Research Competition (NBRCOM-2019), on November 17, 2019 at PGIMER Chandigarh.
 10. Dr. Paul Atish Tulshiram attended the Regional Young Investigators Meeting from October 31 - November 2, 2019 at IIT Jodhpur, Rajasthan.
 11. Dr. Paul Atish Tulshiram attended 60th Annual Conference of The Association of Microbiologists of India (AMI- 2019) from November 15-18, 2019 at Central University of Haryana, Mahendragarh, Haryana, India.
 12. Krishna K V, Rajesh Pradhan, R N Saha, Sunil K Dubey, presented a paper, "Pre-Clinical Pharmacokinetics of Memantine - Alpha-Lipoic Acid conjugate in Wistar Rat using UPLC-MS/MS", in 4th Annual Conference of the Society for the Study of Xenobiotics from September 18 – 21, 2019 held at Bangalore.
 13. Srijan Verma, Suyash Sharma, Gautam Singhvi, Sunil Kumar Dubey, presented a paper, "Phyto-Pharma Lens: A Tool which recognizes natural plants" in Nanobased Therapy for Neurodegenerative Diseases, from March 27 – 28, 2019, at NIPER Raibareli, Lucknow. (*Awarded 2nd Prize Oral Presentation*).
 14. Mr. Rupesh Jain and Dr. Sunil K Dubey attended workshop on "Mammalian cell culture, Cell-based staining, Imaging and Molecular Expression Techniques from September 16-20, 2019 at Department of Biotechnology, New Delhi
 15. Kishan S. Italiya, Samrat Mazumdar, Saurabh Sharma, Ram I Mahato, Deepak Chitkara, Anupama Mittal presented a paper, "Self-assembling nanoformulation of lisofylline-linoleic acid conjugate for effective treatment of type-I diabetes" in 2nd National Biomedical Research Competition (NBRCOM-2019), on November 17, 2019 at PGIMER Chandigarh.
 16. Saha P., Sri Sourya Sai B., Pandey M.M. attended and gave oral presentation on Solid dispersion technique for dissolution rate enhancement of cefpodoxime proxetil during National Conference on Advances in Microscopy and Foldscope from March 15 – 16, 2019 at MNNIT Allahabad (Prayagraj), India.
 17. Hinge S.N. and Pandey M.M. attended and gave oral presentation on Foldscope microscopy: An alternative approach to study dissolution of poorly soluble drugs during National Conference on Advances in Microscopy and Foldscope from March 15 – 16, 2019 at MNNIT Allahabad (Prayagraj), India.
 18. Dr. Richa Shrivastava attended one day workshop on Sponsored Research and Funding Opportunities (SRFO-2019) organized by SRCD-BITS-Pilani and FAD-BITS-Pilani on March 16, 2019 at BITS-Pilani.
 19. Dr Anil Jindal attended Global Bio India-2019 held at Aerocity, New Delhi organised by Department of Biotechnology, Government of India, during 21-23 November 2019.
 20. Dr. Deepak Chitkara participated as a discussant in the panel discussion in the sessions of Nanobiotech – 2019 held at Aerocity, New delhi, during 21-23 November, 2019.

ii) International:

1. Kishan S. Italiya, Samrat Mazumdar, Saurabh Sharma, Ram I Mahato, Deepak Chitkara, Anupama Mittal presented a paper, "Self-assembling lisofylline-fatty acid conjugate for effective treatment of diabetes mellitus" in International conference AAPS 2019 PharmSci360 from 03-06 November 2019 held at San antonio, Texas, USA.
2. Subhash Chander, Deepak P. Bhagwat, Murugesan Sankaranarayanan, N. Vanthuyne, Yong-Tang Zheng. presented a paper, "Search of 3-hydroxy-indolin-2-one derivatives as potential anti-HIV-1 agents via in-silico approach" in 20th tetrahedron symposium held at Bangkok, Thailand, during 18-21 June 2019.
3. Dr Anil Jindal attended 17th International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems during held at Mumbai organised by Controlled Release Society (CRS) Indian Chapter, during 1-2 February 2019.

4. K V Krishna, R N Saha, S K Dubey presented a paper, "Behavior Analysis of ApoE3 Conjugated Donepezil Nanoparticles on Memory Impaired Rats" in International Conference on Neurological Disorders and Therapeutics (ICNDT - 2019), held at NIPER-Ahmedabad, during 24 – 26 October 2019.
5. K V Krishna, Anu Puri, Bruce A. Shapiro, R N Saha, S K Dubey presented a paper, "Whole Blood Analysis by UPLC-MS/MS for the Simultaneous Estimation of a Photosensitizer and Topotecan: Application to Pharmacokinetics" in 6th Asia-Pacific Congress of Interventional Oncology (APCIO)-2019, Kuala Lumpur, Malaysia, during 02 – 05 October 2019. (*Awarded Young Investigator Award*).
6. Anuj Dixit, Srikanta Routroy and Sunil Kumar Dubey presented a paper, "A Strategy to Improve Resource Utilization: Case Study of Generic Drug Distribution in Rajasthan" in 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies held at BITS Pilani Dubai Campus, Dubai, United Arab Emirates, during 20 – 22 November 2019.
7. Dr. Gautam Singhvi attended "QbD -Quality by Design" International Training Workshop held at Hyderabad, India, during 12 – 13 April 2019.
8. Dr. Gautam Singhvi attended Disso India Chandigarh 2019-International Annual Symposium on Dissolution Science held at NIPER, SAS Nagar, during 12 – 13 September 2019.
9. Dr. Anupama Mittal attended an international workshop on 'Disruptive translational research in Nanobiotechnology: Advancing sustainable food systems and human health solutions' organized by Deakin University, Australia, in association with The Energy and Resources Institute (TERI) and Department of Biotechnology (DBT), Government of India on 13th March 2019 at India Habitat Center at New Delhi.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. S. N. C. Sridhar, G. George, A. Verma and A.T Paul, "Natural Products-Based Pancreatic Lipase Inhibitors for Obesity Treatment", Natural Bio-active Compounds, Volume 1: Production and Applications, Springer Nature Switzerland AG., Published on 14 September 2019.
2. Surve D.H., Dandekar P., Devarajan P.V., Jindal A.B. (2019), Intracellular Delivery: An Overview. In: Devarajan P., Dandekar P., D'Souza A. (eds) Targeted Intracellular Drug Delivery by Receptor Mediated Endocytosis; AAPS Advances in the Pharmaceutical Sciences Series; vol 39; pp 3-41; Springer, Cham.
3. Gautam Singhvi, Rapalli Vamshi Krishna, Kowthavarapu V. Krishna, Sunil Kumar Dubey (2019), Alginate: Drug Delivery and Application, Alginates: Versatile Polymers in Biomedical Applications and Therapeutics, Apple Academic Press (ISBN: 9781771887823).
4. Singhvi, Gautam, Neha Hans, Niharika Shiva, and Sunil Kumar Dubey (2019). Xanthan gum in drug delivery applications. In Natural Polysaccharides in Drug Delivery and Biomedical Applications; pp. 121-144; Academic Press.
5. Shukla, Rahul, Ajit Singh, Vishwas Pardhi, Kanchan Kashyap, Sunil K. Dubey, Rambabu Dandela, and Prashant Kesharwani (2019). Dendrimer-Based Nanoparticulate Delivery System for Cancer Therapy. In Polymeric Nanoparticles as a Promising Tool for Anti-cancer Therapeutics; pp. 233-255; Academic Press.
6. Rapalli, Vamshi Krishna, Archana Khosa, Gautam Singhvi, Vishal Girdhar, Rupesh Jain, and Sunil Kumar Dubey (2019). Application of QbD Principles in Nanocarrier-Based Drug Delivery Systems. In Pharmaceutical Quality by Design; pp. 255-296; Academic Press.
7. Mukta Agrawal, Sunil Kumar Dubey, Junaid Khan, Sabahuddin Siddique, Ajazuddin Ajaz, Swarnlata Saraf, Shailendra Saraf, and Amit Alexander (2019). Extraction of catechins from green tea using supercritical carbon dioxide. In Green Sustainable Processes for Chemical and Environmental Engineering and Science; Elsevier Publisher.
8. Archana Khosa, Ranendra Narayan Saha, and Gautam Singhvi (2019). Drug delivery to the brain. Nanomaterials for Drug Delivery and Therapy; pp. 461-514; William Andrew Publishing.
9. Emil Joseph, Gautam Singhvi, Saswata Banerjee (2019). Nanoparticulate drug-delivery systems for brain targeting. Nanocarriers for Brain Targeting: Principles and Applications: 207.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

Department of Pharmacy, Pilani Campus celebrated the World Pharmacist Day-2019 from 22-25th September 2019 by organizing students events and a series of seminars by eminent speakers. On 22nd September, "Pharmacy Case Study Competition" and "Pharmacy Quiz" were organized for the students. Prof. R. Mahesh, Department of Pharmacy, BITS Pilani, Pilani Campus delivered the first lecture on the theme of this year's World Pharmacist Day, "Safe and effective medicine for all" on 24th September 2019. On 25th September 2019, seminars on "Liquid Chromatography Basics and Applications for Preparative Purification" and "Applications of Mass Spectrometry in Pharmaceutical Industry" were delivered by Dr. Lakshmikanth Bajpai, Deputy Director, Analytical R&D, Biocon Bristol-Myers Squibb R&D Centre (BBRC), Syngene International Limited, Bangalore. Dr Bajpai enlightened the audience with industrial applications of liquid chromatography, mass spectrometry and also how to bridge the gap in academic and industry based research. The 3-hour seminar saw lively discussions and informative interventions by both the speaker and the participants. The seminar was followed by a prize distribution ceremony where the winners of "Pharmacy Case Study Competition" and "Pharmacy Quiz" were felicitated by Dr. Bajpai.

8. INVITED TALKS GIVEN BY BITS FACULTY

10. Prof. Rajeev Taliyan delivered an invited talk on, "Epigenetic modulation in alcohol addiction: Putative role of histone deacetylase" at KIET School of Pharmacy, Ghaziabad on 24 February 2019.
11. Prof. Rajeev Taliyan delivered an invited talk on "Epigenetic modulation in Rheumatoid Arthritis: Putative role of histone deacetylase" in a DBT Sponsored National Seminar at Maharishi Markandeshwar University, Ambala on 26 February, 2019.
12. Prof. Rajeev Taliyan delivered an invited talk on "Neuroprotective potential of epigenetics-based therapeutics in Alzheimer's disease associated with metabolic syndrome" in an International Conference on Molecular Basis of Diseases and Therapeutics at Central University of Rajasthan, Ajmer, Rajasthan, on 5-8 March 2019.
13. Prof. Rajeev Taliyan delivered a guest lecture on "Exploring epigenetics based therapeutic targets for glioma" at Rayat Bahra University, Ropar, Punjab, on 24 June 2019.
14. Prof. Rajeev Taliyan delivered an invited talk on "Can radiotracers be a diagnostic tool for Alzheimer's type of dementia" in a National Seminar sponsored by Atomic Energy Regulatory Board, Mumbai (Govt of India), at Himachal Pharmacy College, Solan, H.P, on 13 September 2019.
15. Prof. Rajeev Taliyan participated and delivered a talk on "Neuroprotective effects of remote ischemic post conditioning against cerebral ischemic injury: Role of NR2B receptor" in 5th IUPHAR World Conference on Pharmacology of natural product & 51st annual Conference of IPS at ICMR-NIN, Hyderabad, on 5 – 7 December 2019.
16. Dr. Anupama Mittal Paper delivered an invited talk on "Designing and evaluation of actively targeted lipopolymeric carriers for effective drug delivery in cancer" presented at Emerging Horizons in Oncology: Molecules to Therapeutics Global Perspectives and Challenges" held at Gujarat University, Ahmedabad, India, during 27 – 29 September 2019.
17. Dr Sunil Kumar Dubey delivered an industrial talk on "PK studies of Phytopharmaceutical Drugs" at Emami Ltd. on 05 November 2019.
18. Dr Sunil Kumar Dubey delivered an industrial talk on "Formulation Development and Pharmacokinetics vis-à-vis Skin Diseases and Phytochemicals" at Valeda Herbal Pvt. Ltd. on 07 September 2019.
19. Dr Sunil Kumar Dubey participated as a resource faculty in the workshop, "Concepts in Pharmacokinetics" and delivered a lecture entitled, "Concepts in Pharmacokinetics" organized by Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) on 11 March 2019.
20. Dr Sunil Kumar Dubey participated as a resource faculty in the workshop, "Concept of Compartment Modelling, Non-compartment Analysis in Pharmacokinetics, IVIVC" and delivered a lecture entitled, "Concepts of Compartment Modelling, Non-compartment Analysis in Pharmacokinetics, IVIVC" organized by University Institute of Pharmacy, Pt. Ravishankar Shukla on 12 March 2019.
21. Dr. Aniruddha Roy delivered an invited talk "Targeting of T- Cell Metabolism for Improvement of Cancer Immunotherapy" in the national symposium organised by ADINA Institute of Pharmaceutical Sciences, Sagar, MP on 09 March 2019.
22. Dr. Murali Manohar Pandey delivered an invited talk entitled "Solubility Enhancement of Poorly Soluble Drugs" in National Conference on Advances in Microscopy and Foldscope held at MNNIT Allahabad (Prayagraj) from 15 – 16 March 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Dr. Lakshmikant Bajpai, Deputy Director, Analytical R&D, Biocon Bristol -Myers Squibb R&D center (BBRC), Syngene International Limited, Bangalore, India delivered a series of guest lectures entitled, "Liquid Chromatography Basics and Applications for Preparative Purification" and "Applications of Mass Spectrometry in Pharmaceutical Industry" on September 25, 2019.
2. Guest lecture was delivered by Dr. Sanyog Jain, Associate Professor, Dept. of Pharmaceutics, NIPER, Mohali on the topic "Oral drug delivery using nanoparticles" on March 09, 2019
3. Prof. B.M. Mithal Memorial Lecture was delivered by Prof. M. Chandra Sekar (University of Findlay, USA) on, "Prescription for Pharmacy Education and Practice in India" and on Jan 21, 2019

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Prof. Rajeev Taliyan was appointed as Technical editor of Current Research in Cardiovascular Pharmacology in November 2019.
2. Dr. Paul Atish Tulshiram, Head (Department of Pharmacy) was awarded 11th DNA Innovative Education Leadership Award 2019 under "Best Professor in Pharmacy Studies" category on February 16, 2019 in Mumbai.
3. Dr. Paul Atish Tulshiram, Head (Department of Pharmacy) was conferred with Dewang Mehta National Education Award in the area of "Pharmaceutical Sciences" on November 22, 2019 in Mumbai.
4. Dr. Deepak Chitkara invited as a delegate in an invitation program carried out under the framework of Sakura Science Exchange program (Sakura science plan) administered by Japan Science and Technology Agency, University of Miyazaki, Japan on December 16 – 22, 2019.

b. Won by Students:

1. Nisha Sharma (2015PHXF0412P), Research Scholar of Pharmacy won Award of appreciation for oral presentation under 4th-10th rank in 2nd National Biomedical Research Competition (NBRCOM-2019), held on November 17, 2019 at PGIMER Chandigarh.
2. Mr. K V Krishna (Ph.D. research scholar) has been awarded with a "Young Investigator Award" in 6th Asia-Pacific Congress of Interventional Oncology (APCIO), 2019 during October 2 – 5, 2019 held at Kuala Lumpur, Malaysia
3. Mr. K V Krishna (Ph.D. research scholar) has been awarded with a CSIR Travel Award for attending 6th Asia-Pacific Congress of Interventional Oncology (APCIO), 2019 during October 2 – 5, 2019 held at Kuala Lumpur, Malaysia.
4. Mr. Srijan Verma (graduating students) have been awarded 2nd Prize Oral Presentation at "Nanobased Therapy for Neurodegenerative Diseases" during March 27 - 28, 2019 organized by NIPER Raibareli, Lucknow.
5. Mr. Kishan S. Italiya (Ph.D. research scholar) has been awarded the "Best Poster Presentation Award (Innovative Idea & Patents category) under 4th-10th rank in 2nd National Biomedical Research Competition (NBRCOM-2019) on November 17, 2019 held at Chandigarh, INDIA.
6. Mr. Kishan S Italiya (Ph.D. research scholar) has been awarded, "AAPS 2019 Best Abstract Award" in AAPS PhramSci360 2019 International conference during November 03 - 06, 2019 held at Texas, USA.
7. Mr. Kishan S Italiya (Ph.D. Research Scholar) has received "CCSTDS Travel Fellowship" for attending AAPS PhramSci360 2019 international conference during November 03 - 06, 2019 held at Texas, USA.
8. Mr. Deepak Kumar Sahel (PhD scholar) has been awarded ICMR-SRF (2019)
9. Mr. Ginson George (PhD scholar) has been awarded CSIR-SRF (2018-2019)
10. Ms. Moumita Basak (PhD scholar with Dr. Anupama Mittal) Mr. Prabhjeet Singh (PhD scholar with Dr. Deepak Chitkara) and Ms. Nisha Sharma (PhD scholar with Dr. Atish T Paul) have been awarded DST INSPIRE FELLOWSHIP (2019)
11. Hinge S.N. (Ph.D. Research Scholar) Awarded third prize in oral presentation in National Conference on Advances in Microscopy and Foldscope during March 15 - 16, 2019 held at MNNIT Allahabad (Prayagraj), India.
12. M. Pharm II semester students, Beulah V (Pharmaceutics), Faheem (Pharmaceutical Chemistry), Arisha Mahmood (General Pharmacy) received the TATA Trust's Medical and Healthcare scholarship for the academic year 2018- 2019 from SIR DORABJI TATA trust.
13. Miss Arisha Mahmood (M.Pharm, II semester) won the best individual speaker prize at intercollege debate competition 2018-19 organized by Sentiss Pharma at NIPER, Mohali on 18th March 2019 on the topic, "Is Indian Pharma industry capable enough to ensure USFDA regulatory compliance."
14. B.Pharm (3rd year) students offered 2019 Mitacs Globalink Internship in Canada. The scholarship covers airfare, visa fee, medical insurance and a weekly stipend of Canadian \$ 410 for a duration of 12 weeks.
 - i) Srinivash M: Université de Montréal, Montréal, under the guidance of Prof. Nathalie Grandvaux on the project entitled, "Characterization of regulatory mechanisms of the antiviral response as potential therapeutic targets."
 - ii) Shreemoyee Ghosh: University of British Columbia, Vancouver under the guidance of Prof. Shyh-Dar Li on the project entitled, "Modulating immune response in tumours via nanoparticle drug delivery."

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

3. Dr. Jan Balzarini, Rega Institute for Medical Research, Minderbroedersstraat 10, B-3000 Leuven, Belgium.
4. Dr. Rafael Balaña Fouce, University of Leon, 24071 Leon (SPAIN).
5. Dr. Scott Franzblau, University of Illinois at Chicago, 833 S. Wood Street, Chicago, Illinois 60621-7231, USA.
6. Prof. Baojie Wan, University of Illinois at Chicago, 833 S. Wood St. Chicago, Illinois 60621-7231, USA.
7. Dr. Terry K. Smith, The University, St. Andrews, Fife Scotland. KY16 9ST. UK.
8. Dr. Yong-Tang Zheng, Kunming Institute of Zoology, Chinese Academy of Sciences, Kunming, Yunnan 650223. P.R. China.
9. Dr. Larry Ming C. Chow, The Hong Kong Polytechnic University, Hung Hom, Hong Kong.
10. Dr. Paul Horrocks, Keele University, Staffordshire ST5 5BG, England, United Kingdom.
11. Dr. Manormoney Pillay, University of KwaZulu-Natal, Durban- 4000. South Africa.
12. Dr. Davie Cappoen, Universiteitsplein 1 D.S.723, 2610 Wilrijk, België.
13. Dr. Tanya Parish, 1616 Eastlake Avenue E, Suite 400, Seattle, WA 98102. USA.
14. Dr. Joazaizulfazli Jamalis, Universiti Teknologi Malaysia, 81310, Skudai, Johor, Malaysia.
15. Dr. Luis Menéndez-Arias, Campus de Cantoblanco, 28049 Madrid. Spain.
16. Dr. Enzo Tramontano, University Citadel of Montserrat, SS554 - 09042, Monserrato (Cagliari), Italia.
17. Dr. Marie-Aline Andreola, Universite de Bordeaux, FR Transbiomed, 146 Rue Leo Saignat, 33076 Bordeaux, France.
18. Dr. Frauke Christ, Kapucijnenvoer 33 block i - bus 07001, BE-3000 Leuven.
19. Prof. Rajeev Taliyan is jointly working with Dr. Chi Hao Chyang and one student have been working at Taipei medical University, in Department of Neuropahrmacology, since August 13th, 2019 under direct co-supervision of Dr. Chih Hao.
20. Dr. Sunil Dubey worked as Visiting Assistant Research Professor in Department of Chemical and Biomolecular Engineering at University of Maryland, USA under University Exposure Scheme of BITS Pilani during May-July 2019.

12. PATENTS FILED/PUBLISHED AND GRANTED

1. Larvicidal formulation and a process for the preparation thereof, Indian Patent Application Serial No. 201911003889 Inventors: Paul Atish Tulshiram, Pracheta Sengupta and Sanjeev Kumar, Filed on July 29, 2019.
2. A Drug Conjugate and method of preparation thereof, Indian Patent Application no. 201911018304, Inventors: Deepak Chitkara, Deepak K. Sahel, Kishan S. Italiya, Saurabh Sharma, Shruti Shah and Anupama Mittal, Filed on May 08, 2019.
3. Synthesis of new triazolyl linked bile acid ketones, Indian Patent Application no. 201911006301, Inventors: Rajeev Sakhuja, Devesh S Agarwal, Deepak Chitkara and Samrat Mazumdar, Filed on February 18, 2019.
4. Orally active nanoformulation of lysofylline and composition thereof, Indian Patent Application no. 201911004346, Inventors: Anupama Mittal, Kishan S. Italiya, Samrat Mazumdar and Deepak Chitkara, Filed on February 05, 2019.
5. A lipid-polymer hybrid nanoparticle (Indian Patent Application no. Temp/E-1/4573/2019-Mum, Filed on February 02, 2019), Applicant- Incisive Element LLC., USA, Inventor: Deepak Chitkara, Sudeep S. Pukale, Arihant K Singh, Anupama Mittal.
6. A porous scaffold composition for wound healing and method of preparing the same, Indian Patent Application no. 201811035517, Inventors: Roy A. and Sharma S. Filed on December 04, 2019.

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

1. BITS Pharmaceutical Society at Department of Pharmacy organised the Visit and Lectures session of delegates from Griffith University for prospective research collaboration and student exchange was conducted on 8th January 2019. Delegate members included Prof Andrew Davey (Director - Griffith International Health Group), Dr Sohil Khan (Griffith University) and Dr. Santosh Rudrawar (Deputy Program Advisor).

2. BITS Pharmaceutical Society at Department of Pharmacy organized freshers party to the newly joined FD and HD students in the month of August, 2019. Apart from this, Teachers day and World Pharmacist Day was also celebrated in the month of September, 2019. Pharmaceutical society also organized farewell party to the outgoing FD and HD students in the month of November, 2019.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Equipment	Qty.
25.	Monowave 400 (Anton parr)	01
26.	High Shear Homogeniser (Cole-Parmer)	01
27.	HPLC (Shimadzu)	01
28.	Biosafety cabinet (1384-M; Thermo Scientific)	01
29.	CO ₂ incubator (Forma™ Series 3 water jacketed; Thermo Scientific)	01
30.	Rotary Evaporator (Heidolph)	02
31.	Computer workstation (Tyrone Camarero SS400TR-54)	01

B1.10.13 Department: Physics

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	05
Associate Professors	10
Assistant Professors	04
Lecturers	00
Visiting Faculty	01
Visiting Assistant Professors	00

Head of the Department: Professor Raj Kumar Gupta

Contact details: raj@pilani.bits-pilani.ac.in

Number of Ph.D. Scholars:

Full Time : 24

Part Time : 01

Aspirant Scheme : 00

Ph.D. Thesis Submitted during the year: 2019

S.N.	Name	ID	Topic	Supervisor	Co-Supervisor
1.	Ms. Shivani Choudhary	2013PHXF402P	Study of Laser-Driven Ion Acceleration Through Relativistic Self-Induced Transparency	Dr. Amol Holkundkar	-
2.	Mr. Captain Rituraj Singh	2013PHXF0022P	Investigations on QGP through Heavy Flavour Production and Suppression in Ultra-Relativistic Heavy Ion Collisions	Dr. Madhukar Mishra	-
3.	Ms. Prachi Venkat	2014PHXF0012P	Interaction Dynamics of Intense Ultra-short Laser Pulses with Atomic Clusters	Dr. Amol Holkundkar	-
4.	Mr. Arghya Maity	2014PHXF0424P	Statistical Mechanics of DNA in confined geometry	Dr. Navin Singh	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Li+ NASICON-Polymer Hybrid Composites for Solid State Supercapacitor Applications	Physics	Prof. Anshuman Dalvi	-	DST-SERB	-	43,97,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Generation and Characterization of Attosecond Pulses with Specific Polarization and its Applications	Physics	Prof. Amol R. Holkundkar	Prof. J.N. Bandyopadhyay	DST-SERB	-	16,54,291
2.	EXAFS Investigations on Polymer nanocomposites	Physics	Prof. Anshuman Dalvi	-	UGC-DAE	-	11,00,000
3.	Li+ NASICON-Polymer Hybrid Composites for Solid State Supercapacitor Applications	Physics	Prof. Anshuman Dalvi	-	DST-SERB	-	43,97,000
4.	Substrate supported transition metal doped alkaline earth clusters as hydrogen storage materials and their applications in hydrogen fuel cell	Physics	Prof. Debashis Bandyopadhyay	-	DST-SERB	-	20,57,088
5.	Dynamical and Topological Properties of Floquet Systems: A comparative study of perturbative schemes	Physics	Prof. J.N. Bandyopadhyay	Prof. T.G. Sarkar	DST-SERB	-	16,21,840

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
6.	Soft Computing framework based Integrated Multi Sensor Array for Water Quality Assessment: Targeting Fluoride as major parameter	EEE/ Physics	Prof. K. K. Gupta	Prof. Raj Kumar Gupta	DST-SERB	-	49,00,000
7.	UV-Guided Study of Blue Straggler Stars in Open Clusters and Galactic Fields	Physics	Dr. Kaushar Vaidya	-	DOS-ISRO	-	22,80,000
8.	Studies on Quarkonium Suppression in Asymmetric Nuclear Collision at LHC	Physics	Prof. Madhukar Mishra	-	DST-SERB	-	15,85,000
9.	Statistical Mechanics of biopolymers in confined geometry	Physics	Prof. Navin Singh	-	DST-SERB	-	24,85,080
10.	Investigation of Elastic and Inelastic Dephasing in Carbon Nanotube FET	Physics	Prof. Niladri Sarkar	-	DST-SERB	-	18,00,000
11.	Theoretical Study of Electron impact double ionization of atoms and molecules	Physics	Prof. Rakesh Choubisa	-	DST-SERB	-	20,44,000
12.	Surface Plasmon Resonance Instrument	Physics	Prof. Raj Kumar Gupta	Prof. V. Manjuladevi	DST/IDP	-	56,00,000
13.	Investigation on Langmuir-Blodgett films of pristine and functionalized single walled carbon nanotubes and application	Physics	Prof. Raj Kumar Gupta	-	DST-SERB	-	45,70,000
14.	Molecular and solid targets: multiple scattering and manybody effects	Physics	Prof. V. Manjuladevi	-	DST-SERB	-	39,20,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Investigations on Li-ion conducting glass-ceramics containing NASICON structured nano crystallites	Physics	Anshuman Dalvi	-	DST SERB	-	37,65,000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty in Journals**

1. Arghya Maity, Amar Singh and Navin Singh, Stability of DNA passing through different geometrical pores, European Physics Letters, 127, 28001 (2019).
2. F. Mackenroth, and A. R. Holkundkar, Determining the duration of an ultra-intense laser pulse directly in its focus, Scientific Reports 9, 19607 (2019).
3. F. Mackenroth, A. R. Holkundkar, and H.-P. Schlenvoigt, Ultra-intense laser pulse characterization using ponderomotive electron scattering", New J. Phys 21, 123028 (2019).
4. P. Venkat and A. R. Holkundkar, Higher harmonics and attosecond pulse generation by laser induced Thomson scattering in atomic clusters, Phys. Rev. Accel. Beams 22, 084401 (2019).
5. S. Choudhary, and A. R. Holkundkar, Laser pulse dispersion in underdense plasma and associated ion acceleration by relativistic self-induced transparency, Phys. Plasmas 26, 083103 (2019).
6. Niladri Sarkar, Study of Dephasing Mechanisms on the Potential Profile of a Nanowire FET, Eng. Res. Express 1 025029 (2019)
7. Keerti Choudhary, RK Gupta, R. Pratibha, BK Sadashiva & V. Manjuladevi, Alignment of Liquid Crystals Using Langmuir-Blodgett Films of Unsymmetrical Bent-Core Liquid Crystals, Liquid Crystals 46, 1494 (2019).
8. S.J. Shivaraja, RK Gupta, S. Kumar, V. Manjuladevi, Effect of functionalized silver nanoparticle on the elastic constants and ionic transport of a nematic liquid crystal, Liquid Crystals 46, 1868 (2019).
9. Punit Kathri, K. K. Gupta, R. K. Gupta, Raspberry Pi-based smart sensing platform for drinking-water quality monitoring system: a Python framework approach, Drink. Water Eng. Sci. 12, 31 (2019).
10. Parul Taneja, Santosh Bhausheeb Khandagale, V. Manjuladevi, R. K. Gupta, Dalip Kumar & Karunesh Kumar Gupta, Heavy metal ion sensing using ultrathin Langmuir-Schaefer film of tetraphenylporphyrin molecule, IEEE Sensors, In Press (2019)
11. Bhattacharya, S., Vaidya, K., Chen, W.-P. , & Beccari, G., The blue straggler population of the old open cluster Berkeley 17, Astronomy & Astrophysics, 624, A26 (2019)
12. Poushali Das, Sayan Ganguly, Tarun Agarwal, Priti Prasanna Maity, Sabyasachi Ghosh, Sumita Choudhary, Subhashis Gangopadhyay, Tapas Kumar Maiti, Santanu Dhara, Susanta Banerjee and

- Narayan Chandra Das, Heteroatom doped blue luminescent carbon dots as a nano-probe for targeted cell labeling and anticancer drug delivery vehicle, *Materials Chemistry and Physics* 237, 121860 (2019).
13. Poushali Das, Priti Prasanna Maity, Sayan Ganguly, Sabyasachi Ghosh, Joydeep Baral, Madhuparna Bose, Sumita Choudhary, Subhashis Gangopadhyay, Santanu Dhara, Amit Kumar Das, Susanta Banerjee and Narayan Chandra Das, Biocompatible carbon dots derived from κ -carrageenan and phenyl boronic acid for dual modality sensing platform of sugar and its anti-diabetic drug release behavior, *International Journal of Biological Macromolecules* 132, 316 (2019).
 14. Insights of the role of shell closing model and NICS in the stability of NbGen ($n = 7-18$) clusters: A first principle investigation, Ravi Trivedi and Debashis Bandyopadhyay, *Journal of Materials Science*, 54, 515 (2019) .
 15. Electronic structure and stability of anionic AuGen ($n=1-20$) clusters and assemblies: A density functional modelling, Debashis Bandyopadhyay, *Structural Chemistry*, 2019 (published online)
 16. Ionization energies and structures of small lanthanum oxide clusters (La_2O_3) $_n$.LaO ($n = 1-3$), Soumen Bhattacharyya, Prasenjit Sen, Sheo Mukund, Suresh Yarlagadda, Debashis Bandyopadhyay and Sanjay G. Nakhate, *Eur. Phys. J. D* 73, 158 (2019)
 17. Invariants of families of flat connections using fiber integration of differential characters, Mata, I. *Lett Math Phys* (2019) accepted for publication.
 18. Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ reinforced hybrid polymer composites: Assessment of enhanced Li⁺ ion transport and potential for solid state supercapacitor applications, M Dinachandra Singh D M Phase Yogesh Kumar and Anshuman Dalvi, accepted for publication in *Journal of Materials Science*.
 19. Novel Na₃Zr₂Si₂PO₁₂-polymer hybrid composites with high ionic conductivity for solid-state ionic devices" M Dinachandra Singh, D M Phase and Anshuman Dalvi, *accepted for publication* in *Materials Letters*.
 20. Insertion of binary LiCl-P₂O₅ glass between Li⁺ NASICON crystallites and its effect on controlling inter-grain transport, Neelakshi Sharma and Anshuman Dalvi, *Solid State Ionics* 342, 115082 (2019).
 21. Preparation and Characterization of Novel Solid Electrolytes Based on [EMIM] BF₄ and Lithium Nitrate Confined Silica Gels, Rajinder Kaswan, M Dinachandra Singh, S C Sivasubramanian and Anshuman Dalvi *Electrochimica Acta*, 323, 134841 (2019).
 22. Conductivity and Capacitance Studies of Silica Glass Composites Containing [BMIM]Br and LiCl, Rajinder Kaswan, S C Sivasubramanian, Yogesh Kumar and Anshuman Dalvi, *Materials Research Express* 6, 105202 (2019).
 23. Electrical Transport in PEO-NaI-NASICON nanocomposites: An Assessment using Impedance and X-Ray Absorption Spectroscopy, M. Dinachandra Singh, Anshuman Dalvi, D M Phase *Materials Research Bulletin* 118, 110485 (2019).
 24. Dispersion of Li₂SO₄-LiPO₃ glass in LiTi₂(PO₄)₃ matrix: Assessment of enhanced electrical transport, Neelakshi Sharma and Anshuman Dalvi, *Journal of Alloys and Compounds (Elsevier)* 782 288 (2019).
 25. Constraining warm dark matter power spectrum using the cross-correlation of HI 21 cm signal and the Lyman- α forest, Anjan K Sarkar, Ashis K Pal, Tapomoy Guha Sarkar, *Journal of Cosmology and Astroparticle Physics* 058, 2019.
 26. Centrality and transverse momentum dependent suppression of Upsilon(1S) and Upsilon(2S) in p-Pb and Pb-Pb collisions at the CERN Large Hadron Collider, Captain R. Singh, S. Ganesh and M. Mishra, *Eur. Phys. J. C* 79, 147 (2019).

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

- Contributory talk titled "DNA in confined geometry", by Dr. Navin Singh in the Conference on Recent Topics in Statistical Mechanics, National Institute of Science Education and Research (NISER), Bhubaneswar, 11-14 December 2019.
- 22nd National Conference on Atomic and Molecular Physics" 25th March 2019 – 28th March 2019 held at Department of Physics, Indian Institute of Technology, Kanpur
- Mr. Shivaraja SJ participated and presented a poster in National Conference on Light Matter Interaction at Nanoscale (LMIN-2019), July 15-17, 2019, held at , IGCAR, Kalpakkam.
- Two students, Mr. Shivaraja SJ and Ms. Shweta R Mishra participated and presented posters in 26th National Conference on Liquid Crystals (26th NCLC-2019) organized, jointly by Chitkara University (CU) and Indian Liquid Crystals Society (ILCS) , 21-23,October, 2019.

ii) International:

1. International Conference on Liquid Crystals, Liquid Crystalline Polymers and Nanosystems (ICLCPN 2019), organized by School of Energy Materials, MGU, Kottayam Kerala and University of Maribor, slovenia, 13-15 December 2019. (Mr. Amrit Kumar, Mr. Ashotosh Joshi, Mr. Shivaraja S J and Ms. Shweta R Mishra presented short invited lectures).
2. Two contributory papers were presented by Dr. Rakesh Choubisa in 31st International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC XXXI) in Caen and Deauville, France, from July 23-30, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED: NIL**7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT**

1. Research Scholar Day, 10th March 2019.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Dr. Navin Singh delivered an invited talk title, "Effect of confinement on the thermal stability of DNA", in 7th International Conference on Functional Electroceramics and Polymers (ICEP 2019) organized at Udaipur, by Delhi University, New Delhi (3-8 February 2019)
2. Dr. Raj Kumar Gupta delivered an invited talk titled "Sensing applications of soft ultrathin films of mesogenic and nanomaterials", in 4th Asian Conference on Liquid Crystals, 17-18 Jan 2019, held at Shenzhen, China.
3. Dr. Raj Kumar Gupta delivered an invited talk titled "Surface plasmon resonance of ultrathin films and application" in National Conference on Light Matter Interaction at Nanoscale (LMIN-2019), July 15-17, 2019, held at IGCAR, Kalpakkam.
4. Dr. V. Manjuladevi delivered an invited talk titled "Langmuir -Blodgett Films of Unsymmetrical Bent-core Liquid crystal at air-water and air - solid interfaces", and also chaired a session in International Conference on Liquid Crystals, Liquid Crystalline Polymers and Nanosystems (ICLCPN 2019), organized by School of Energy Materials, MGU, Kottayam Kerala and University of Maribor, slovenia, December 13-15, 2019.
5. Dr. Raj Kumar Gupta delivered an invited talk titled "Self-Assembly of discotic liquid crystal molecules and its sensing application", and also chaired a session in International Conference on Liquid Crystals, Liquid Crystalline Polymers and Nanosystems (ICLCPN 2019), organized by School of Energy Materials, MGU, Kottayam Kerala and University of Maribor, slovenia, December 13-15, 2019.
6. Dr. Subhashis Gangopadhyay delivered an invited talk titled "Transition metal (Cu, Zn) oxide nano-structures for carbon monoxide (CO) sensing at relatively lower temperature" in the Institute of Solid State Physics, University of Bremen, Germany, on 18 June 2019.
7. Dr. Jayendra N. Bandyopadhyay delivered an invited talk titled "Floquet analysis of the dynamics of current flow in a periodically driven hard-core bosonic system" in IISER-Pune, Pune, India, on 22 October 2019.
8. Dr. Jayendra N. Bandyopadhyay delivered an invited talk titled "Floquet analysis of the dynamics of current flow in a periodically driven hard-core bosonic system" in IIT-Madras, Chennai, India, on 25 November 2019.
9. Dr. Anshuman Dalvi delivered an invited talk titled "NASICON dispersed composite polymer hybrids: Some investigations on conductivity-structure correlation and application potential to ionic devices" in 13th national conference on solid state ionics, December 16-18, 2019, IIT Roorkee.
10. Dr. Anshuman Dalvi delivered an invited talk titled "XANES spectroscopy for characterization of ion conducting polymers" in Indus Synchrotron Users Meeting (ISUM-2019) March 27-19, 2019) jointly organized by Raja Rammana Center for Advanced Technology (RRCAT) and UGC-DAE-CSR Indore.
11. Dr. Anshuman Dalvi delivered an invited talk titled "Superionic conductors and their applications in energy storage devices" in Sanmantrana-2019, International conference in Srivaishnav Vidyapeeth University, Indore during February, 4-6, 2019.
12. Dr. Madhukar Mishra delivered an invited talk on "Quarkonium Production/Suppression: Theoretical Overview" in DAE-BRNS Symposium on "Contemporary and Emerging Topics in High Energy Physics 2019 (CETHEP 2019)" at VECC, Kolkata held during 25-27 Nov 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Invited talk by Dr Sandip Dhara, Professor at Indira Gandhi Center for Atomic Research Kalpakkam, Localized Phonon Population in Semiconducting Si Nanowires on 11th November 2019.
2. Invited talk by Professor Umesh Garg, Professor of Physics at the University of Notre Dame, on 22nd July 2019.

10. AWARDS AND RECOGNITIONS

- a) **Won by Faculty:** **NIL**
- b) **Won by Students:**
1. Ms. Shweta Mishra won the 2nd prize in the category of short invited lectures in ICLCPN 2019.
 2. Mr. Amrit Kumar won the 2nd prize the category of short invited lectures in ICLCPN 2019.
 3. Mr. Ashuotsh Joshi won the 3rd prize in the category of short invited lectures in ICLCPN 2019.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Dr. Didier Sebilliau visited BITS, Pilani to work with Dr. Rakesh Choubisa's group between 25th Sept. and 6 December 2019. He and Dr. Choubisa are cosupervising Ms. Aditi Mandal's PhD work. He also discussed Dr. Raj Kumar Gupta and Dr. Manjuladevi's groups along with Dr. Choubisa's group for resubmission of Rise and Decay of Plasmon project to European Research Agency in the next call of RISE. Ms. Mandal has been invited by Rennes Metropole to work with Didier in Rennes for six months starting from the end of January 2020.
2. The research groups of Dr. Rakesh Choubisa, Dr. Raj Kumar Gupta and Dr. Manjuladevi have been involved in the joint research proposal submission on "Rise and Decay of Plasmon" to the European Research Agency under Research and Innovation Staff Exchange (RISE) scheme of Horizon-2020 in April 2019. In this project, a consortium of researchers was formed based on their common interests on the Plasmon aspects in materials. The consortium consisted of 15 European and Pan-European Universities/Institutes/Industries including 3 Industries. Dr. Didier Sebilliau from CNRS is coordinating the consortium. Dr. Rakesh Choubisa is in-charge of BITS, Pilani. We were unsuccessful in the last attempt. We are in process for its resubmission in the current call.

12. PATENTS FILED/PUBLISHED AND GRANTED: **NIL****13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES:**

All students and faculty are default members of B5 (Physics) Association at BITS Pilani. A certain students are selected as post-holders to plan and carry out different activities of the association. A faculty member of the department is appointed to oversee the activities of the association. Currently, Dr. Manjuladevi. V is the faculty-in-charge of the association. Some of the yearly activities of the association are as follows:

APOGEE Projects - The association invites entries for physics projects for participation in a technical festival, APOGEE organized by BITS Pilani. A team of faculty from the department help the students to select the good entries for the participation and then faculty help the individuals/teams in show-casing these projects during the festival. In addition to this, students prepare projects and demonstrate them to the audience participating in the APOGEE. And also on an individual basis the first degree students presented their work in paper presentation event of the PEP team on campus.

Teacher's Day Celebration – Since 2014 the association celebrates teacher's day for the physics faculty. On this day, some games and quiz are organized wherein the team consisting of Physics faculty and B5 students actively participate and create a lively and friendly environment.

Apart from this the Physics Association has started a seminar series on current research topics delivered by first degree students.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED: **NIL****B1.11 DIVISION / UNIT / CENTER-WISE ACTIVITY HIGHLIGHTS****Faculty Affairs Division (FAD)**

Faculty Affairs Division (FAD) with its office in Pilani Campus is responsible for implementation of all Institutional policies related to faculty, across all BITS campuses at Pilani, Goa, Hyderabad, Dubai and Off-Campus. The division deals with functions related to recruitment, promotions, retirement, extensions, appraisals, terms and benefits of faculty. The activities of the Division for the year, in brief, are given below:

1. **Faculty Recruitment:** Faculty Recruitment has been the prime activity of the Division. It is a continuous process carried round the year, where departments are involved in decision making process, whereas recruitment related logistics are carried out by partnering with a HR outsourcing company, PeopleStrong. Details of the offers made towards faculty positions, joining and acceptance details for on campus and off campus, for the year, are given below.

2. ON-CAMPUS RECRUITMENT IN 2019

Position	Offered	Joined				Declined				Yet to Join				
	University	Pilani	Dubai	Goa	Hyderabad	Pilani	Dubai	Goa	Hyderabad	Pilani	Dubai	Goa	Hyderabad	Not Chosen yet
Professor	4	-	1	-	1	-	-	-	-	1	-	-	1	-
Associate Professor	2(1+*1)	-	-	*1	-	-	-	-	-	-	-	1	-	-
Assistant Professor	105 (75+*27+#3)	19 (13+*6)	10 (8+*2)	10 (6+*4)	22 (15+*7)	7 (5+*2)	4 (3+*1)	4 (2+*2)	8 (5+*3)	5	-	8	5	#3
Assistant Professor - AL 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Visiting Assistant Professor	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grand Total	111 (80+*28+#3)	64 (44+*20)				23 (15+*8)				24 (21+#3)				

Yet to respond, offered in 2019

*Offered in 2018, status in 2019

3. OFF-CAMPUS RECRUITMENT IN 2019

Position	Total (offered)	Joined (details)						Declined (details)						Yet to join (details)					
		Delhi	Pune	Chennai	Hyderabad	Bangalore	Mumbai	Delhi	Pune	Chennai	Hyderabad	Bangalore	Mumbai	Delhi	Pune	Chennai	Hyderabad	Bangalore	Mumbai
Professor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Associate Professor	6 (4+2*)	1*	2	1*	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Assistant Professor	3	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Lecturer	2 (1+1*)	1*	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Instructors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	11 (8+3*)	9 (6+3*)						1						1					

*Offered in 2018, status in 2019

4. **Faculty Performance Appraisals:** Combined Performance Appraisal for 2016-17 and 2017-18 has been completed. Contributions in three key performance areas, namely:- (i) teaching, (ii) research, and (iii) institutional contribution was assessed. The assessments included self-appraisal, appraisal by the Head of the respective departments in consultation with the respective faculty, and/ or Divisional Dean, which was followed by a cross campus committee assessment and then by university level committee. The result will be distributed timely to the faculty members.
5. **Change of superannuation age from 60 to 65:** Together 14 faculty applied for superannuation, of which 9 were granted. Following was the result of Grant of Superannuation for the faculty members who applied for the same.:

S.No.	Campus	PSRN	Faculty Name	Department
1	Pilani	P1852	Debashis Bandyopadhyay	Physics
2	Pilani	P2328	Shamsher Bahadur Singh	Civil Engg.
3	Pilani	P0790	Rajiv Gupta	Civil Engg.
4	Pilani	P2140	Anil Kumar Bhat	Management

S.No.	Campus	PSRN	Faculty Name	Department
5	Pilani	P1929	Ram Kinkar Roy	Chemistry
6	Pilani	P1666	Ashis Kumar Das	Bio. Sc.
7	Pilani	P1656	Rahul Banerjee	CSIS
8	Pilani	P1307	Vinod Kumar Chaubey	EEE
9	Goa	G0007	Mukund Keshavrao Deshmukh	EEE

6. **Chair Professorship** : Hon'ble Chancellor has approved the appointment of the following individuals as Chair Professors for a term of 5 years from the date of joining.

S.No.	Name	Current Affiliation	BITS Campus & Department	Name of Chair Professorship	Likely to Join
1	K S Sangwan	Professor, Dept. of Mechanical Engg, BITS Pilani, Pilani Campus	Pilani, Mechanical Engg	Shri B. K. Birla and Shrimati Sarala Birla	NA
2	P Yogeewari	Professor, Dept. of Pharmacy, BITS Pilani, Hyderabad Campus	Hyderabad, Pharmacy		NA
3	Y. S. Negi	Professor, Dept. of Polymer & Process Engg and Dean, Saharanpur Campus, IIT Roorkee	Pilani, Chemical Engg.	Shri SK Birla	Yet to Join
4	Samit Chattopadhyay	Director, CSIR-IICB, Kolkata	K.K. Birla Goa, Biological Science	Shri B. K. Birla and Shrimati Sarala Birla	6th January, 2020
5	D. Ramaiah	Project Advisor CSIR-IICT; Former Director CSIR-NEIST, Jorhat	Hyderabad, Chemistry		6th January, 2020

7. **Industry Immersion**: The scheme to provide exposure of faculty, who do not have prior industry experience, to an industry in their area of interest with a view to provide them with an opportunity to gain first-hand exposure to processes undertaken by industries in design, manufacturing, marketing, logistics; gain an understanding of how theory learnt in classrooms is translated into practice on the job floor; gain an understanding of technical challenges that industries face in respect of improved design, scaling up their operations, impact on environment, manpower, etc. The following Faculty from across four campuses visited the industries as per details below:

S.No.	PSRN	Name	Department	Industry	Duration	Campus
1	G0692	Hrishikesh Shashikant Sonalikar	EEE	National Aerospace Laboratories, Bangalore, Karnataka	19 May 2019 – 17 July 2019	Goa
2	P2005	Manoj Kumar Soni	Mech. Engg	1. Sunrise CSP India Pvt. Ltd., Goraj Vadodara 2. India One Solar Thermal Power Plant, Abu Road	31 May 2019 – 20 July 2019	Pilani
3	H0659	Prasanta Kumar Sahu	Civil Engg.	LEA Associates South Asia Pvt. Ltd., Hyderabad	19 May 2019 – 17 July 2019	Hyd
4	D1238	Naveen Kumar Shrivastava	Mech. Engg.	CSIR-National Environmental Engineering Research Institute (NEERI) Nagpur	06 June 2019 – 31 July 2019	Dubai

8. **Exposure of Faculty to Universities Abroad**: Under this scheme, BITS supports faculty members to spend a few weeks at a University abroad (during vacation period). The scheme supports those faculty members who have not visited foreign universities earlier or in the near past. During such exposure, it is expected that faculty members will (among others): (i) gain first-hand exposure to current/latest advances in research, etc., (ii) gain an understanding of lab resources required to initiate research or to use (or to program) equipment, (iii) gain an understanding of how classroom- or lab-based instruction is organized or imparted, AND/OR, (iv) gain an understanding of research methodology, cross-disciplinary collaboration, or collaboration across institutions, etc. Seven faculty from four campuses- Pilani, Goa, Hyderabad and Dubai utilized this opportunity, as per details given below:

S.No.	PSRN	Name	Department	University	Duration	Campus
1	P3183	Rajneesh Choubiasa	HSS	University of British Columbia, Canada	25-May-2019 to 14-Jul-2019	Pilani

S.No.	PSRN	Name	Department	University	Duration	Campus
2	P1840	Srikanta Routroy	Mech.Engg.	University of Twente, Netherlands	20-May-2019 to 19-Jul-2019	Pilani
3	P3398	Sumanta Pasari	Maths	National Cheng Kung University, Tainan, Taiwan	05-Jun-2019 to 31-Jul-2019	Pilani
4	P2756	Sunil Kumar Dubey	Pharmacy	University of Maryland, USA	10-Jun-2019 to 30-Jul-2019	Pilani
5	G0640	Gauranga Charan Samanta	Maths	Institute of Space Sciences, Can Magrans, Barcelona, Spain	19-May-2019 to 17-Jul-2019	Goa
6	G0310	Saroj Sundar Baral	Chem. Engg.	University of Aberdeen, Scotland, UK	16-May-2019 to 10-Jul-2019	Goa
7	H0471	Mohan S.C.	Civil Engg.	University of California, Berkeley, USA	08-June-2019 to 30-Jul-2019	Hyd
8	H0333	Rahul Prasad Nigam	Physics	Georgia Tech, Atlanta, USA	22-May-2019 to 25-Jun-2019	Hyd
9	H0475	Soumya J	EEE	University of New South Wales, Sydney, Australia	19-May-2019 to 17-Jul-2019	Hyd
10	D1212	Vincent Shantha Kumar	Mech. Engg	NUS, Singapore	20-Jun-2019 to 15-Aug-2019	Dubai

9. New policies were conceptualized and implemented for alternate faculty recruitment route. Many steps were taken to increase and accelerate the faculty recruitment process. following are the steps taken -
- Re-constitution of Selection Committee to recruit at the Assistant Professors- Grade II, Academic Level 10. Two(2) Off Campus faculty members were hired in the department of CSIS and Mech. Engg.
 - Assistant Professor - Grade II, Academic Level 11 was introduced to attract the candidates who have submitted their PhD thesis or completed pre-submission formalities/equivalent* from a reputed University/Institute. In this year, Eight(8) in the department of EEE, One(1) in the department of CSIS and One(1) in the department of Chemical Engineering faculty members were hired.
 - Visiting Professor position was open for the Eminent Scientist and Researchers with a PhD having at least 6 years of service as Professor or equivalent/senior level official with proven record in industry linkage/engagement and R & D experience in the industry. Three(3) Faculty were hired in the department of Physics, HSS and Chem. Engg.
 - Recruitment through Faculty Out-Reach has been initiated. Under this scheme, initiation was done to attract faculty from Singapore and Chicago. Total Five(5) faculty hired. Two(2) from Singapore in the department of CSIS and EEE. Three(3) from Chicago in the department of Bio. Sc.
 - To speed-up the faculty selection process, H (High) and M (medium) Level process is introduced wherein the attempt is made to conduct the final interview within one month of the application process. Two(2) faculty in the department of CSIS at ASOP and ASTP - L12 and Three(3) faculty in the department of EEE at ASTP - L12 position were hired.
10. FAD jointly with SRCO organized a sponsored research and funding opportunity workshop (SRFO-2019) in Pilani campus on 16th March, 2019. The workshop was planned essentially for newly joined colleagues to interact with our experienced senior colleagues and researchers for a thorough and brainstorming discussion on following important issues:
- Various funding schemes and their objectives
 - Windows for different funding agencies
 - Project evaluation process in funding agencies, their expectations, success rates
 - How to plan the proposal: budget planing, nature of the problem, feasibility
 - Research@BITS: existing facilities with our campus and university
 - BITS and CSIR-CEERI: possibility of joint ventures and collaborations
 - Industry sponsored projects and their nature: a possible collaboration through Industry Immersion Programme

Prof Chandrashekhar (Ex-Director, CSIR-CEERI Pilani and presently Senior professor Emeritus, EEE department), Director Prof Sarkar along with senior colleagues participated and their experience. About 25 newly joined faculty members actively participated in the workshop by raising their concerns, queries and comments on current

11. To understand the reasons for faculty attrition, **exit interviews** have been conducted in all the campuses. HR Team of respective campus has assisted FAD in this process.

Practice School Division

University-Industry Linkages

An important aspect of education at BITS is its institutionalized linkages with the world of work. The Institute attaches great importance to the University-Industry Linkages and gives mutually reinforcing thrust to it through various avenues like Practice School (PS), Work Integrated Learning Programmes (WILP), Technology Innovation Centre (TIC) and off-campus Ph.D.

Practice School Programme

All integrated first degree and higher degree programmes of the Institute provide for a Practice School option. The past statistics show that almost all the students admitted, opt for this programme. During the calendar year 2019 the Practice School programme was operated at 688 stations, with 29 stations hosting both Practice School-I (PS-I) and Practice School-II (PS-II), accommodating 5356 students and 179 faculty members. Categorization of PS stations is given below:

S.No.	Categories of Organizations	No. of Organization in	
		PS-II & PS for Higher Degree	PS-I
1.	Banks and other Financial Institutions	91 (56)	21 (3)
2.	Design, Development, Consultancy and Software Organization.	285 (280)	101 (83)
3.	National Research Laboratories and other Research centers	19 (18)	50 (37)
4.	Production, Manufacturing and Public Work Units	32 (35)	108 (75)
5.	Publishing Houses, News Agencies and Museums	2 (8)	7 (7)
	Total	430 (397)	287 (205)

In 2019, an integrated practice school allotment for 5356 students was carried out across Pilani, Goa and Hyderabad campuses. The statistical details of the centre-wise distribution of students and faculty at PS-I stations are given in **Annexure A-7** followed by the details of the Operational Statistics of PS-II and PS for higher degree in **Annexure A-8**. Growth statistics of PS-I, PS-II and PS for higher degree are given in **Annexure A-9**, while facilities available at various PS-II stations are given in **Annexure A-10**.

Following is the breakup of students who were registered in PS-I, PS-II & PS for Higher Degree:

PS-I	Summer Term 2018-2019	(2119)	2846
PS-II	II Semester 2018-2019	(787)	870
	I Semester 2019-2020	(1204)	1215
PS for Higher Degree			
	II Semester 2018-2019	(261)	423
	I Semester 2019-2020	(00)	02
	Total	(4371)	5356

Note:-The figures shown in brackets relate to the year 2018.

PS-II Assignments: Institute's Contribution to Industrial Development

Apart from developing skills in professional judgment, data-handling, documentation, decision making ability, etc., in students, the PS-II assignments also relate to real-life problems of the host organizations. PS-II assignments listed in **Annexure A-11** were completed by the final year students at their respective PS-II stations during the year 2018. These assignments directly.

Contribute to the requirements of industrial R & D by fulfilling the ongoing production, modernization, design, development and research needs of the participating industries.

During the year under review 2846 students of Pilani (1004), Goa (796) & Hyderabad (1046) campuses accompanied by 116 faculty members attended Practice School-I and 2510 students attended Practice School-II. The entire Practice School-II operations were supervised by 63 faculty members residing at the respective locations. For the year 2019, 236 dual degree students have exercised their option of Practice School for both the degrees.

In appreciation of the contribution made by our students towards the professional well-being of the organizations, a stipend/out-of-pocket allowance is paid to them by the organizations. The amount of stipend/out-of-pocket allowance has over the years increased, and today the maximum amount paid is Rs.120,000/- p.m. at Goldman Sachs, Bangalore. The average stipend is around Rs.33,500/- p.m. per student. In addition, other facilities like accommodation, subsidized lunch, to & fro travel, etc. are also

provided by some of the organizations. Students are paid TA & DA as per the rules of the organization. All overseas organizations pay for to & fro air travel and health insurance in addition to stipend.

During the year under review, the PS activities grew further with the introduction of 215 new PS-II stations (Table 1) and out of pocket allowance was increased at 40 PS-II stations (Table 2).

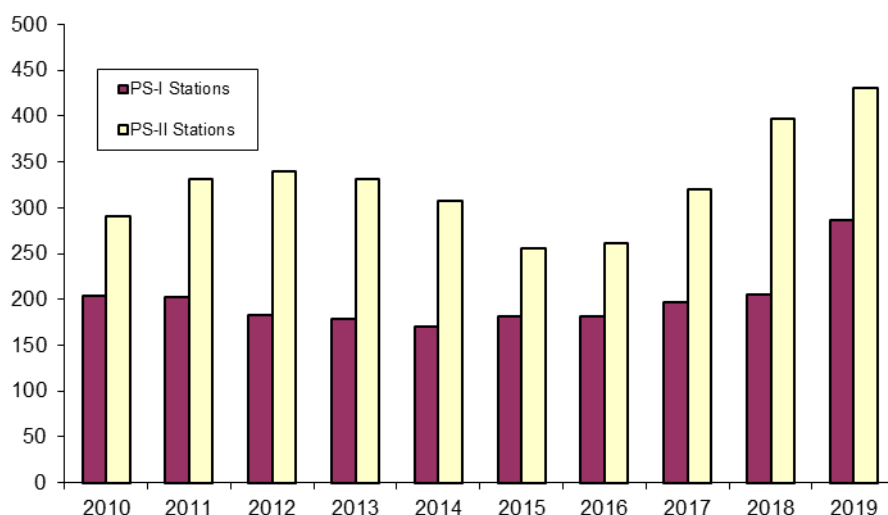


Table 1
PS-II Stations Added during the Year 2019

S.No	PS-II Station	Out of Pocket Allowances (Rs. Per Month)
Ahmedabad		
1.	Amazon Operations (Area manager)	40000
2.	Pfizer Ltd.	12500
Ballabgarh		
3.	National Council for Cement and Building Materials	10000
Bangalore		
4.	Aditya Birla Fashion and Retail Ltd.	20000
5.	Aerchain	20000
6.	Amazon Area Manager	40000
7.	Amazon Professional Services	45000
8.	American Express - Technology	100000
9.	Aurigo Software Technologies	35000
10.	Avaamo	75000
11.	Bundl Technologies Private Limited (Swiggy) - Nontech	40000
12.	CIREL Systems	25000
13.	Couture AI	50000
14.	eGovernments Foundation	30000
15.	EnSci - A Unit of Weir Minerals India Pvt. Ltd.	20000
16.	Ernst & Young Technology	80000
17.	Goldman Sachs - Investment Banking	120000
18.	Groww - Software Development	51000
19.	HSBC Global Analytics Centers	40000
20.	Intel India Technology	30000
21.	J P Morgan Services - GKN-CCB Risk	50000
22.	J P Morgan Services Ltd - GKN Research - Corporate Risk Management	50000

S.No	PS-II Station	Out of Pocket Allowances (Rs. Per Month)
23.	JP Morgan Services - GKN Model Risk Governance & Review â€” Finance	50000
24.	JP Morgan Services - GKN Risk Analytics â€” Finance	50000
25.	Juniper Networks	31800
26.	KPMG	15000
27.	Kruzer Mobility Technology Solutions Pvt. Ltd.	25000
28.	Lenskart	25000
29.	Lightplane Technologies India Pvt. Ltd	35000
30.	MapMyIndia	50000
31.	Maybank Labs Pvt. Ltd.	40000
32.	Mech Mocha Internet Pvt. Ltd.	60000
33.	Mentor Graphics	30000
34.	Morgan Stanley Advantage Services	87000
35.	National Instruments India Sales	20000
36.	Netcore Solutions	40000
37.	Nreach Online Services Pvt. Ltd.	20000
38.	Oyo Rooms (Tech)	45000
39.	Publicis Sapient	35000
40.	PwC DIAC US Advisory	50000
41.	Samsung R & D Institute	50000
42.	Searce	35000
43.	Siemens technology and Services Pvt Ltd	40000
44.	Strand Life Sciences Pvt Ltd	25000
45.	Symantec Software Solutions Pvt. Ltd.	40000
46.	Tata Consultancy Services	20000
47.	Think and learn	40000
48.	Thinkerbell Labs - Developer	25000
49.	Thinkerbell Labs - Mechanical Design	25000
50.	Thinkerbell Labs - Partnerships	25000
51.	Udaan	35000
52.	Unnati	0
53.	Vitor Healthsciences Pvt. Ltd.	20000
54.	Western Digital (SANDISK)	35000
55.	William O Neil India Pvt Ltd	40000
Bilaspur (Gurgaon)		
56.	Amazon Operations (Area Manager)	40000
Chennai		
57.	Amazon Operations (Area Manager)	40000
58.	Dell R & D	30000
59.	Door Sabha Nigam Ltd.	25000
60.	Fidelity Investments	50000
61.	Linarc India Pvt. Ltd.	25000
62.	PAYPAL	50000
63.	Wabco India Pvt. Ltd	18000
Dahej		
64.	Tega Industries SEZ Ltd	15000
Dehradun		

S.No	PS-II Station	Out of Pocket Allowances (Rs. Per Month)
65.	Indian Institute of Petroleum	0
Delhi		
66.	BLS International Services Limited	20000
67.	GMR Infrastructure Ltd.	20000
68.	Mapmy India	50000
69.	myHQ & (JustWork Technologies Pvt. Ltd.) Tech	15000
70.	Solar Energy Corporation of India	5000
71.	Udaan	35000
Goa		
72.	GMR Infrastructure Ltd.	20000
Greater noida		
73.	ST Microelectronics(I) Pvt.Ltd.	26000
Gurgaon		
74.	AlmaConnect	35000
75.	Amazon Operations (Area Manager)	40000
76.	American Express - Capabilities EDA	30000
77.	American Express - Machine Learning & Artificial Intelligence	100000
78.	American Express - Technology	100000
79.	Concept Infracon Pvt. Ltd.	
80.	Futures First- Financial Market & Research (Quant)	20000
81.	GroupM Media India Pvt Ltd. Location	35000
82.	Kochar Tech	20000
83.	KPMG	15000
84.	MM Aqua Technologies Ltd.	15000
85.	OfBusiness	40000
86.	OYO Non Tech	30000
87.	Ramboll India Pvt. Ltd.	10000
88.	Resonance Data	30000
89.	Rivigo Non Tech	35000
90.	shipsy	30000
91.	ShortHills Tech Pvt. Ltd	40000
92.	Splash Math	32000
93.	Zomato Media Private Limited	25000
Hosur		
94.	Faiveley Transport Rail Technologies India Ltd (FTRTIL)	15000
Hyderabad		
95.	Amazon Operations (Area Manager)	40000
96.	Analogics Tech India Ltd.	10000
97.	Arup India Pvt. Ltd.	20000
98.	Divami Design Labs	10000
99.	EA Games India Pvt. Ltd.	30000
100.	Futures First Info Services Pvt Ltd	40000
101.	GE Appliances	20000
102.	GenY medium	12000
103.	GEP	30000
104.	GGK Technologies (Software Development)	20000

S.No	PS-II Station	Out of Pocket Allowances (Rs. Per Month)
105.	GMR Infrastructure Ltd	20000
106.	IMIdigital R&D	35000
107.	Intel India Technology	30000
108.	MAQ Software	25000
109.	Market Data Forecast	20000
110.	Market Data Forecast (Marketing Associate)	12000
111.	MathWorks India Pvt. Ltd.	35000
112.	Mol De Analytics	50000
113.	National Council for Cement and Building Materials	10000
114.	Novartis	25000
115.	Qualcomm India Pvt Ltd.	30000
116.	RACEnergy	12000
117.	Reliance Jio	35000
118.	Taxilla Info Pvt. Ltd.	20000
119.	UBER	30000
120.	Udaan	35000
121.	WCB Robotics	25000
Indore		
122.	Techure Structures	15000
Jaipur		
123.	Angara ecommerce pvt. ltd	20000
124.	Futures First Info Services Pvt. Ltd.	20000
Kalyani		
125.	Tega Industries Ltd.	15000
Kolkata		
126.	Futures First - Financial Market & Research (Quant)	40000
127.	Tega Industries	15000
Mumbai		
128.	Amazon Operations (Area Manager)	40000
129.	Ashoka Buildcon Ltd	10000
130.	Citec Engineering India Pvt. Ltd	12000
131.	Cogoport - Non Tech	30000
132.	Cogoport (Tech)	60000
133.	Credit Suisse - Equity Research	40000
134.	Credit Suisse - GBIS	75000
135.	Credit Suisse - Global Market Risk Management	40000
136.	Credit Suisse - Global Markets (BC&E Efficiency & Analysis)	40000
137.	Credit Suisse - GM Trading Risk	40000
138.	Credit Suisse - Product Control	75000
139.	Credit Suisse - Technology	75000
140.	DBOI - Business Finance	30000
141.	DBOI - Counterparty Credit Ratings	30000
142.	DBOI - GVG	30000
143.	DBOI - Market Data Strategy and Analytics	30000
144.	DBOI - Market Risk Analysis & Control	30000
145.	DBOI - Risk Metrics Quality Assurance and Analysis	30000

S.No	PS-II Station	Out of Pocket Allowances (Rs. Per Month)
146.	Dorsch Consult (India) Pvt. Ltd.	12000
147.	Girish Enterprises Pvt. Ltd.	15000
148.	GP Petroleums Ltd	20000
149.	Haptik	30000
150.	HDFC Life	40000
151.	J P Morgan Services - GKN Markets	75000
152.	J P Morgan Services - GKN-CCB Risk	50000
153.	J P Morgan Services Ltd - Finance	50000
154.	J P Morgan Services Ltd - GKN Quant	75000
155.	J P Morgan Services Ltd - GKN Research - Corporate Risk Management	50000
156.	J P Morgan Services Ltd - GMG & Quant	50000
157.	J P Morgan Services Ltd - GRC- GKN Global Research	40000
158.	JP Morgan Services - GKN Banking (CRG) â€“ Finance	50000
159.	JP Morgan Services - GKN Banking (CRG) â€“ Fintech	50000
160.	JP Morgan Services - GKN Data Science â€“ Fintech	100000
161.	JP Morgan Services - GKN Global Research (GRC) â€“ Finance	75000
162.	JP Morgan Services - GKN Markets & Treasury Risk â€“ Finance	75000
163.	JP Morgan Services - GKN Markets (GMG) â€“ Finance	75000
164.	JP Morgan Services - GKN Quantitative Research â€“ Fintech	100000
165.	JP Morgan Services GKN Global Research (GRC) â€“ Fintech	75000
166.	LogisticsNow	25000
167.	Morgan Stanley Advantage Services	87000
168.	Morning Star - Index Management and Analytics	40000
169.	Morning Star - Index New Product Development	40000
170.	Morning Star - Index Operations	40000
171.	Morning Star - Indexes Product Operations (Product Management)	40000
172.	MSCI - Applied Data Intelligence	40000
173.	MSCI - Equity Core Research - Data Science	40000
174.	MSCI - Performance IT - Index	40000
175.	MSCI Technology & Development	40000
176.	Netcore Solutions	40000
177.	NIVEA	10000
178.	Oyo Rooms - Non tech	30000
179.	PwC DIAC US Advisory	50000
180.	UBS - Group RISK	25000
181.	UBS Business Solutions (India) Private Limited - RAS FINANCE	25000
182.	Ascent Health and Wellness Solutions Private Limited	35000
183.	Credit Suisse- Investment Banking and Capital Markets	40000
Nagpur		
184.	Techtire Structures (IT)	25000
Noida		
185.	Amity Software Systems Ltd.	37500
186.	ASA Industries	20000
187.	BIS Research Pvt. Ltd. - NonTech	17500
188.	Cadence Design Systems	15000
189.	Samsung R&D Institute India-Delhi (SRI-D)	35000

S.No	PS-II Station	Out of Pocket Allowances (Rs. Per Month)
190.	Society for Health Information Systems Programme	10000
Norway		
191.	Yale University	600
Pune		
192.	Credit Suisse - Business Control	40000
193.	Credit Suisse - Group Finance - FMAR Transition Management	40000
194.	Credit Suisse - Information Technology	40000
195.	DAR AI-Handasah	9000
196.	DBOI	30000
197.	Espressif Systems	21000
198.	Gabriel India Ltd	8000
199.	IBM Security - Fiberlink	30000
200.	JW Consultants	26000
201.	Mahle Anand Thermal System (Formerly Mahle Behr India Pvt Ltd)	8000
202.	PharmaACE	30000
203.	Siemens PLM Software	30000
204.	Symphony Fintech Solutions Pvt. Ltd.	40000
205.	Tata Technologies	12000
206.	UBS Business Solutions (India) Private Limited - Finance Group	25000
207.	VMware Software India Pvt. Ltd.	35000
208.	Whirlpool	25000
209.	ZiMetrics Technologies Pvt. Ltd.	30000
Sanand		
210.	Tata Motors Ltd.	18000
211.	Divgi TorqTransfer Systems Pvt. Ltd.	12500
Sonipat (Delhi)		
212.	Amazon Operations (Area Manager)	40000
Trivandrum		
213.	Klientas	12500
USA		
214.	MedNetOne	1200
Vijayawada		
215.	Andhra Pradesh Capital Region Development Authority (APCRDA)	20000

Table 2
Increase in Monthly Stipend at PS-II Stations during the Year 2019

S.No	PS-II Stations	Monthly Stipend / out of pocket allowance	
		During 2018	During 2019
Bangalore			
1.	belong.co	20000	25000
2.	Dell R&D	25000	30000
3.	Ernst & Young Global Delivery Services	25000	80000
4.	Goldman Sachs - IT	25000	75000
5.	Goodera (NextGen PMS Pvt. Ltd)- Non IT	40000	41000
6.	Goodera (NextGen PMS) - IT	65000	75000
7.	Holiday IQ- Tech	20000	30000
8.	IMS Health	16500	20000
9.	InMobi - Software Development	35000	40000
10.	InMobi- Business Development	25000	35000
11.	Kristal.AI	40000	50000
12.	Loweâ€™™ Services India Pvt. Ltd.	25000	40000
13.	Qubole	85000	90000
14.	Sattva Media & Consulting Pvt Ltd	20000	22000
15.	Tejas Networks	25000	30000
16.	Thorogood	25000	32000
17.	Zendrive India Pvt Ltd	40000	60000
18.	Zeotap India Pvt. Ltd.	45000	65000
Chennai			
19.	Amazon Development Center	40000	45000
Gurgaon			
20.	American Express India-Risk Information Management-Capabilities(RIM-C)	30000	100000
21.	IMS Health	16500	20000
22.	Pluss Advanced Technologies Pvt. Ltd.	12000	18000
23.	Rivigo Tech	40000	70000
Hyderabad			
24.	Amazon Development Center	40000	45000
25.	iBÃ Hubs	7500	15000
26.	Novartis Healthcare Pvt. Ltd.	25000	30000
27.	Servicenow Software Development India	32000	35000
28.	VCTIP Pvt. Ltd. (Market Data Forecast) Research Associate	8000	15000
Jaipur			
29.	CEG Limited	10000	12500
Mumbai			
30.	Morningstar - Index Technology	35000	40000
31.	Nomura - FinTech	50000	75000
32.	Nomura - Wholesale Strategy	50000	75000
33.	Nomura Global Finance	50000	75000
34.	Nomura Global Markets	50000	75000

S.No	PS-II Stations	Monthly Stipend / out of pocket allowance	
		During 2018	During 2019
35.	Nomura Global Risk	50000	75000
36.	QUANTIPHI	30000	50000
Nagpur			
37.	Techure Structures Pvt Ltd.	12000	15000
New Delhi			
38.	DMI Finance Private Limited	20000	35000
Noida			
39.	Indiamart Intermesh Ltd.	20000	25000
Pune			
40.	AFour Technologies	25000	35000

PS Planning

The preparation for running Practice School courses starts almost one year in advance at the PS Division. The process of preparation of student profile, analysis of student preferences and the student allotment for Practice School courses is completely computerized.

PS Instruction Monitoring

After successfully working with WEPSIMS for a number of years, PS Instruction Monitoring has now introduced PSMS (Practice School Management System). It is an online web enabled tool for an efficient and quick data entry, data retrieval and data management. It is efficiently used for automatic letter generation, evaluation and grading for PS I and PS II and student feedback. PS Division makes constant efforts to maintain and increase the efficiency of instruction monitoring.

Students' Involvement in PS Division-based Projects

The PS Division of the Institute has continued to involve students in analysis, documentation, and educational research-based activities of the Division through projects based on Organizational Aspects, Computer Project, First Degree Thesis and Higher Degree Dissertation. In this regard PS Division has involved students in the following Division-based projects:

1. Development of software related to students and faculty allotment; maintenance of zonal and data analysis related to allotment of students at various stations; modification of the already developed allotment modules.
2. Computerization of PS accounts processing.
3. Development and maintenance of web based tools for instruction to PS II faculty; development and modification of software modules for grade and feedback analysis.
4. BITS Pilani offers scholarship of Rs. 66,000/- (for the entire duration of PS-II) to selected PS-II students with CGPA 7.00 and above at various research organizations.

Academic-Undergraduate Studies

First Degree Thesis

During the year, 334 First-Degree thesis projects have been completed at Pilani campus. The list of completed First-Degree thesis during Second Semester 2018-19 and First Semester 2019-20 is given in Annexure 'B1-8'.

Academic Graduate Studies & Research

Higher Degree Dissertation

During the year, 65 Higher Degree dissertation projects have been completed in Pilani campus. The list of completed Higher Degree Dissertations during Second Semester 2018-19 and First Semester 2019-20 is given in Annexure 'B1-9'.

Ph.D. Programme**(a) Award of Ph.D. Degree (viva conducted)-Pilani campus**

S.No	Name	Dept	Supervisor	Co-Sup	Thesis Title
1	Rupal Bhargava	CS&IS	Yashvardhan Sharma	-	Learning-based Approaches for Addressing Challenges in Sentiment Analysis
2	Priyanka Bhattacharya	Management	Sarvesh Satija	Rajan K. Gupta	Positive Organisational Practices in Indian Engineering and Technology Institutes: A Model Building Approach
3	Roshan Nazir	Chemistry	Surojit Pande	-	Synthesis of Meetal and Metal Oxide Nanoparticles for Electrocatalytic Hydrogen and Oxygen Evolution Reaction
4	Neetika Gupta	CS&IS	M.K. Rohil	-	Robust Image Registration Methods for Varying Image Quality and Imaging Conditions in Augmented Reality Systems
5	Manpreet Singh	Civil	Anshuman	Dipendu Bhunia	Assessment of Potential of Marble Slurry As a mineral Admixture in Concrete
6	Tania Pal Choudhary	Biological Sc.	PN Jha	Sanjeev Kumar	The Identificatio and Characterization of Mosquito Peroxidase(s) and their role in orchestration of Mosquito Immunity
7	Subhra Dash	Biological Sc.	Rajdeep Chowdhary	Sudeshna Mukherjee	Analyzing the Role of TNF- α and Autophagy in Regulation of TGF- β Induced Epithelial to Mesenchymal Transition in Cencer Cells
8	Khima Pandey	Chemistry	Anil Kumar	-	Synthesis of Functionalized Imidazo[1,2, α]pyridines and Amides using Pyridinium Salts
9	Sachin Choudhary	Chemistry	Indresh Kumar	-	Organocatalytic Approach towards the Synthesis of Some Nitrogen-Containing Heterocycles
10	Dolly Seehra	HSS	Geetha B	-	Tracking Narrative Patterns and Film Elements within the Selected Short Fictional Films of Mira Nair: An empirical Study
11	Hitesh Kumar Saini	Chemistry	Anil Kumar	-	Synthesis of Azaheterocycles via Copper/Palladium-Catalyzed Intramolecular Arylation Reactions
12	Santosh Kumari	Chemistry	Rajee Sakhuja	-	Coumarin-appended Amino Acids and Azaheterocycles: Design, Synthesis, Photophysical Studies and Sensing Applications of Selected Compounds
13	Bhavya Tripathi	Mathematics	B.K. Sharma	-	Modeling and Analysis of Single and Two-phased MHD Blood Flow in a Stenosed Artery with Heat and Mass Transfer
15	PO Venkataramana Reddy	Chemistry	Dalip Kumar	-	Synthesis, and Anticancer Acvitivity Studies of Some Novel Indole Related Heterocycles
14	Dinesh Kumar Tyagi	EEE	V.K.Chaubey	-	Survivable Routing Mechanisms in Optical WDM Networks
16	Narpat Ram Sangwa	Mechanical	Kuldip Singh Sangwan	-	Development of an Integrated performance Measuremnet Framework for Leanness Assessment of Manufacturing Organizations
17	Gajanand Gupta	Mechanical	RP Mishra	-	Development of a Framework and Criticality Analysis Model for the Implementation of Reliability Centered Maintenance
18	Sunita Kumari	Chemistry	SK Saha	G. Sundar	Study of Solvation Dynamics in Micelles and Interactions of Gemini Surfactants with β -Cyclodextrin and Biomolecules in Aqueous Media
19	Parva Kumar Sharma	Biological Sc.	Shibasish Chowdhury	-	In-Silico Functional Annotation of Unannotated Protein-coding Gene of Arthrospira platensis NIES-39 Genome and Investigation of Proteins Involved in Nitrogen Assimilation Pathway
20	Nitesh Kumar Nandwana	Chemistry	Anil Kumar	Indresh Kumar	Design and Synthesis of Fused Quinazolines via Transition Metal-Catalyzed C-N Coupling Reactions

S.No	Name	Dept	Supervisor	Co-Sup	Thesis Title
21	Rajeev Sharma	Chemical	Pratik N. Sheth	-	Experimental and Theoretical Study of Biomass Pyrolysis and Product Characterization
22	Ravinder Singh	Management	S.K. Sharma	Rajesh Matai	Strategic Sourcig from Risk Management Perspective: A Study of Indian Automobile Industry
23	Gaurav Kumar	Civil	Rajiv Gupta	-	Design and implementation of a Generic Methodology for Scenario Development with Assessment over Water Rsources
24	Gaurav Purohit	EEE	VK Chaubey	KS Raju	An Energy Efficient Reconfigurable Digital Baseband Architectures for SDR
25	Nikhil Gakkhar	Mechanical	MK Soni	-	Design and Development of a Novel Hybrid Concentrating Photovoltaic Thermal System with Parabolic Trough Collector
26	Fayaz Baig	Chemistry	Madhushree Sarkar	-	Coordination Polymers of Ligands Based on Imine Functional Groups: Analysis of their Structure and Property Relationship
27	Fayaz Baig	Chemistry	Madhushree Sarkar	-	Coordination Polymers of Ligands Based on Imine Functional Groups: Analysis of their Structure and Property Relationship
28	SNC Sridhar	Pharmacy	Paul Atish Tulsiram	-	Study of Conophylline and its Inspired Analogues as potent pancreatic Lipase Inhibitors for Obesity Treatment
29	Tapas Kumar Patra	Chemical	Pratik N. Sheth	-	Production of hydrogen-rich fuel gas from Jatropha Residue cake
30	Shivani Choudhary	Physics	Amol R. Holkundkar	-	Study of Laser-driven Ion Acceleration Through Relativistic Self-Induced Transparency
31	Shiv Dhiman	Chemistry	Anil Kumar	Dalip Kumar	Design and Synthesis of Quinoline and Quinazolinone Derivatives through Transition Metal-Catalyzed Cascade Protocols
32	B. Pallavi	Chemistry	Paritosh Shukla	-	Synthesis, Biological Evaluation, and Molecular Docking Studies of Selected N-Heterocyclic Scaffolds
33	Abhishek Joshi	EEE	Rahul Singhal	-	Implementation of Performance Enhancement Techniques on a Probe Fed Hexagonal Planar Antenna
34	Aditya Sharma	Economics	Arya Kumar	AK Vaish	An Empirical Study of Indian Stock Price Movement - A Behavioral Finance Perspective
35	Swati Sharma	Mathematics	Bhupendra K. Sharma	Dilip K Maiti	Numerical Investigation of Heat Transfer from a Heated Square Cylinder due to Nanofluids in the Presence of an Upstream Rectangular Cylinder
36	Rohit S. Gunerkar	Mechanical	AK Jalan	SU Belgamwar	Fault Diagnosis of Rolling Element Bearing with Multiple Localized Defects using Mathematical Modelling and Experimental Analysis
37	Nitin Singh Rajput	CS&IS	Rahul Banerjee	D. Sanghi	A Framework for Efficient Multi-Constraint QoS Routing in ANETs and Hybrid Network Systems
38	G.Sai Shesha Chalapati	EEE	S. Gurunaryanan	-	Time Synchronization and Task-Assignment Algorithms for Specific Domains of the Internet of Things
39	Neetu Malik	Mechanical	Sharad Shrivastava	Subrata Bandhu Ghosh	Development of Engineered Bio-nanocomposites and Correlation of Structure-Properties
40	Devesh S. Agarwal	Chemistry	Rajeev Sakhuja	-	Design and Synthesis of Bile Acid Conjugates as Anticancer Agents and Smart Low Molecular Weight Gelators
41	Sushil Kumar Yadav	Pharmacy	R Mahesh	Vishal Saxena	Isolation and Characterization of Genetic Variants of Beta-Casen Protein (A1/A2) and Study of their Impact on Early Precipitation of Osteoporosis

S.No	Name	Dept	Supervisor	Co-Sup	Thesis Title
42	Kailash Choudhary	Mechanical	K.S. Sangwan	-	Green Supply Chain Management in Indian Ceramic Industry: Pressures, Practices and Performance
43	Captain Rituraj Singh	Physics	Madhukar Mishra	-	Investigations on QGP through Heavy Flavour Production and Suppression in Ultra-Relativistic Heavy Ion Collisions
44	Puppala Harish	Civil	Shibani K Jha	-	Field Conceptualization, Characterization and Pre-Drilling Power Estimate of a Geothermal Reservoir in India
45	Manish Kumar Mehra	Chemistry	Dalip Kumar	Indresh Kumar	Formation of Carbon-Carbon and Carbon-Heteroatom Bonds using Diaryliodonium Salts: Synthesis of Selected Bioactive Heterocycles
46	Tamalika Bhakat	Mechanical	SU Belgamwar	NN Sharma & Ajay Agarwal	Behavioural Study of Stimuli Triggered Biopolymer for Non-invasive Drug Delivery
47	Chandramani Chaudhary	CS&IS	Poonam Goyal	Yi-Ping Phoebe Chen	Improvig Image Retrieval for Complex Queries by Leveraging Internal and External Resource
48	Fani Mani	EEE	Rajneesh Kumar	-	Optimum Power Extraction Approaches of a Soiled PV Module Integrated with Soft Switched Converter
49	Ravinder Kumar	EEE	Hari Om Bansal	-	Investigations on Renewable Energy Integrated Shunt Active Power Filter for Power Quality Improvement
50	Khandagale Santosh Bhausaheb	Chemistry	Dalip Kumar	-	Synthesis and Photophysical Studies of Heterocycle-Appended and Fused Porphyrins
51	Tanmay Gupta	Civil	Manoj Kumar	-	An investigation on influence of skewness on structural response of concrete box-girder bridges
52	Makrand Wagale	Civil	AP Singh	AK Sarkar	Quantification of impacts of rural road construction: Evidence from Pradhan Mntri Gram Sadak Yojana in Jhunjhunu District, India
53	E.Divya Niveditha	Biological Sc.	Shibasish Chowdhury	-	An In-Silico Investigation of Sequence Features of miRNAs and its Functionl ssociation with Cancer
54	Jagat Sesh Challa	CS&IS	Poonam Goyal	Anil Maheshwari	Design and Development of Data Indexing Techniques for Mining Lrge and Streaming Data
55	Saiyedul Islam	CS&IS	Navneet Goyal	PS Raghavendra	A pattern-based Framework for Automatic Parallelization of Clustering Algorithms
56	Saroj	Chemistry	Anil Kumar	-	Selected Organic Transformations Employing Functionalized Imidazolium and Pyridinium Salts
57	Priyanka Kumari	HSS	VS Nirban	-	Intercultural Communication Competence at Workplace: An Investigation of Employers' Requirements and Employees' Perception in Indian Information Technology Sector
58	Rahul Dandautiya	Civil	AP Singh	-	Exploring immobilization potential of heavy metals in fly ash and copper tailings and their sustainable utilization using life cycle assessment

(b) Ph.D. Thesis Submitted and Under Process of Evaluation (Pilani campus)

S.No	Name	Dept	Supervisor	Co-Sup	Thesis Title
1	Dewal Mishra	Civil	AK Sarkar		A study to estimate the Impact of Accessibility on Transit Mode Choice
2	Shweta Sharma	Chemical Engg	Banasri Roy	HK Mohanta	BIMEVOX Catalyst Systems for Low Temperature Steam Reforming of Ethanol with the Aim of Hydrogen Production
3	Malek Vajirbhai M.	Pharmacy	Gaikwad Anil Bhanudas		Role of Neprilysin in the Development of Cardiomyopathy and Nephropathy Associated with Type 1 Diabetes
4	Prachi Venkat	Physics	Amol R. Holkundkar		Interaction Dynamics of Intense Ultra-short Laser Pulses with Atomic Clusters
5	Nitesh Sihag	Mechanical	Kuldip Singh Sangwan		An experimental analysis of energy consumption and environmental impacts of milling process
6	Shivani Nain	Mechanical	Jitendra Singh Rathore	Niti Nipun Sharma	Design, Simulation and Experimental Investigations on Scaled Up Branched Flagellated Artificial Nanoswimer
7	Prateek Bindra	EEE	Arnab Hazra		Selective Sensing of Volatile Organic Compounds Using One Dimensional Titanium Dioxide Nanostructures
8	Amit Kumar	Mathematics	Chandra Shekhar		Stochastic Modeling of Repairable Maching System with Spare Provisioning
9	Rajinder Kaswan	Chemistry	S.C. Sivasubramanian	Anshuman Dalvi	Silica Gel Based Li+ ion Solid Electrolytes: Studies on Structure, Electrical Transport and Supercapacitance
10	Susheela Kumari	Chemistry	Saumi Ray		Encapsulation and Catalytic Studies of "Ship-in-a-bottle" Transition Metal Complexes inside the Microporous Material
11	Anuj Kumar Ojha	EEE	Praveen Kumr AV		Performance Enhancement of Cylindrical Dielectric Resonator Antennas for Low Cross Polarization and High Gain Applications
12	Arghya Maity	Physics	Naveen Singh		Statistical Mechanics of DNA in Confined Geometry
13	Shreekant Varshney	Mathematics	Chandra Shekhar		Optimal Control of Queueing Models in Service and Machining Systems: A Nature-Inspired Approach

Ph.D. Aspirant's & Part-Time Ph.D. Scheme

This scheme has attracted candidates from industry, R&D, education and entrepreneurial sectors towards the Ph.D. programme of the Institute. A number of candidates have been permitted in this year to appear in the Ph.D. qualifying examination. Topics of research identified by these candidates are of relevance to the organization and the society as a whole. Association of many such candidates and their supervisors has given the academic benefits to the ongoing students through special lectures delivered by them.

CSIR/UGC/DST Fellowship

CSIR/UGC/DST Fellowship

Funding agencies such as Council of Scientific and Industrial Research (CSIR), University Grants Commission (UGC), DST, ICMR has provided 95 Junior and Senior Research Fellowships to Ph D students of the Institute. These research fellows are working for their Ph.D. degree across the campuses.

Fellowships under Externally Funded Projects

Apart from the above mentioned fellowship there are full time research scholars working on projects sponsored by various agencies like DST, DBT, CSIR, ICAR, NPMASS, Incozen, Inspire, BRNS, MNRE, UGC, ICMR, TCS etc. There are 109 research scholars at present in such position.

Sponsored Research Projects

Research projects sponsored by agencies such as CSIR, DST, DBT, ICMR, DRDO, ICAR, SLAYBACK Pharma, NHAI, Enaltec, Crenza Pharmaceuticals and such other sponsoring agencies are in operation. A list of on-going /sanctioned/completed research projects is given in “**Annexure A-14**”

The details of these projects are given in individual department write-ups (B1.10.1 to B1.10.13).

International Programmes & Collaboration Division

To strengthen international collaborations in year 2018, the institute has signed two Memorandum of Understanding with leading universities including (i) National Cheng-Kung University, Taiwan (April 2018), (ii) Trinity College Dublin, Ireland (February 2018). To gain professional knowledge in addition to expanding academic and cultural horizons, 48 students of the institute completed their summer internships in prestigious institutes of countries including Canada, USA, UK, Germany, Singapore, Japan, Ireland, Israel Italy, Switzerland, France, Spain, Malaysia in year 2017-18. Forty-six students spent one semester abroad in prestigious institutes/universities to complete their first degree theses. Mr Sishir was chosen for prestigious internship under S N Bose Scholars Program of Indo-USSTF to work at Lawrence Berkeley National Laboratory. Mr Siddharth Uppal received internship under Khorana Program for Scholars to gain experience in world-class research facilities of Duke University, North Carolina. The institute has seen a rise in the number of foreign visitors, having twenty four of them this year. Awareness about international programmes has increased very much through interactive sessions organized by IPCD.

Software Development and Educational Technology Unit

The Software Development & Educational Technology Unit (SDET Unit) incorporates the Centre for Software Development (CSD) as well as the Centre for Educational Technology (CET). The Unit has a mandate to include identification, establishment, deployment and evolution of appropriate educational technology in order to support effective resource utilization of expertise (teaching / mentoring / collaboration) available at various campuses (both existing and upcoming) as well as enable students and faculty involved in various off-campus work-integrated learning programs of the Institute. Research, development and consultancy in those areas of computing where it has expertise and interest amongst its nucleus members remain the other important areas of the work for the SDET Unit.

The SDET Unit has four specific sets of activities handled by its two wings: CSD and CET. These wings focus on multimedia, E-learning, web-services, live and stored video streaming as current thrust areas. Its CET wing has its mandate to identify suitable educational technology solutions for on as well as off-campus operations of the Institute and helping in their deployment.

The SDET UNIT is involved in the Open-source Moodle LMS based deployment for requirements of the Institute in form of the Nalanda portal, apart from focusing on the design / development / deployment of the Internet-based distributed learning architecture and synchronous as well as asynchronous-delivery-based content development. In addition, it has complementary features of Digital Video delivery over the Internet. Three phases of this project have already been completed. For quite some time now, it has added the live interactive (bi-directional audio/video/text-based) classroom feature to value add its off-campus student population.

The SDET Unit has played the leading role in co-designing and establishing (along with alumni of the Institute) a University-wide, Integrated immersive Telepresence Infrastructure with seamless support for very high-quality eye-to-eye contact based meetings between people present in four telepresence rooms across all four campuses of the Institute along with integrated multi-campus interactive lecture delivery and recording support for four class rooms spread over all four campuses of the Institute which have been further integrated with the interactive-web-conferencing system capable of involving numerous live interactions amongst faculty and off-campus students along with recording and view-on-Demand capabilities.

In addition, the SDET Unit is the official enabler for the BITS-BITSAA joint venture known as Project Embryo (<http://www.embryo.org>) that is aimed at joint efforts by current students, alumni and faculty for delivery of live lectures by specialist alums as well as joint collaborative research guidance by alums and faculty to on-campus students.

Center for Biotechnology

The Centre has in-house facilities of Genetic Engineering and Recombinant-DNA Technology. The objectives of the Centre are to take up research and development projects from various sponsoring organizations, establishments of University-Industry linkage through various R&D contract projects and conduct periodic Workshops and hands on training for faculty members, industry personnel and students in the area of advanced molecular biology/biotechnology and bioinformatics. The facilities available are Gel Documentation System, PCR Machines (Gradient and Real-Time), Hybridization oven, Gel electrophoresis equipments, UV-Cross linker, Temperature Controlled Water Bath Shaker, Refrigerated Centrifuges, Ultracentrifuge, FPLC, Nanodrop, Concentrator, Cold Room, Tissue Culture Room, Plant Biotechnology facility, Semi-automated Green House, Radioisotope handling facilities, Liquid Nitrogen Plant, Victor-3 Multichannel counter, Gene Gun, Inverted microscope with camera attachment, Fluorescence Microscope, Oxygraph, – 80°C Deep Freezer, etc. We developed Insectory to facilitate research on mosquito borne diseases. In the year 2015-16 approximately 75 students were trained in molecular biology techniques through various laboratory courses. Over 50 students completed their projects in the area of modern biology.

Centre for Desert Development Technologies (CDDT)

The Centre for Desert Development Technologies (CDDT) was established in April 2005 as an Alumni initiative at BITS-Pilani in collaboration with Jacob Blaustein Institutes for Desert Research (BIDR) of Ben Gurion University (BGU) - the acknowledged global leaders in making the desert bloom through their demonstrable success in the Negev Desert [www.bgu.ac.il/bidr]. The C-DDT mission is to make the desert areas of Rajasthan bloom through demonstration, extension, and development of world class desert development technologies-water and energy conservation in irrigation systems, rain water harvesting and ground water management, conservation and propagation of plants suited for the desert environment, and optimizing human existence in the desert ecosystem. The C-DDT vision is to develop a multi-disciplinary center of excellence to demonstrate the role that various technologies play in desert development and to assess their socio-economic impact on the inhabitants. The key disciplines involved are Civil, Chemical, Electronics and Electrical Engineering; Plant Biotechnology, Solar Energy, and Humanistic studies. A water management system consisting of rainwater harvesting pipelines, tank, solar pump, drip irrigation system, biotechnology complex consisting of a plant tissue culture lab, and a greenhouse were constructed. A four rooms complex has been created to study the use of solar energy in passive architecture with support of UGC. The different studies are being carried out related to energy saving techniques. It implements the new energy efficient static sun-shade, cavity walls, wall with brick projections, roof with stoneware and vents to show case the energy efficient house to reduce the active load for comfort conditions. An extended roof top with hard sloping floor are constructed to harness more rainwater and drainages are connected to main tank, which is also covered to reduce the evaporation with the helping contribution of 79 batch. This year further extension is created by developing the concept of contour irrigation. It is expected that this summer we can have crop using only rainwater effectively. A good number of International publications are made and a Ph.D. along with number of projects are completed by students. It is expected that this summer the micro and macro irrigation system will be developed and implemented. A group of undergraduate students is working.

CENTER FOR ENTREPRENEURIAL LEADERSHIP (CEL), BITS PILANI

ALL EVENTS IN 2019

1. **Entrepreneurship Week** (January 4 to February 10, 2019): A week dedicated to events centred around entrepreneurship, designed to equip students with important skills associated with starting up. The start of the event was marked by an inauguration ceremony, followed by 6 events in the subsequent days.
2. **Desert Hack** (August 30 to September 1, 2019): Desert Hack is a former event of CEL which was revived for this academic session. It is a Startup Hackathon established to promote the culture of entrepreneurship among students by giving them the right opportunities and catalysing brilliant startups. Participants were given uninterrupted workspace access for 50 hours, which were interspersed with workshops, and mentoring sessions with 12 industry experts from Delhi and Jaipur. It concluded with the top teams pitching the startup they have worked on over the course of the Hackathon to a panel of stalwarts from the industry. Mr Saurabh Jain also delivered a keynote during the finale ceremony. The panel consisted of:
 - a. Mr Saurabh Jain, Vice President, Paytm
 - b. Mr Ambrish Bajaj, Head of Product Management, Paytm, Jabong and HT Digital Streams
 - c. Mr Shalabh Singhal, Co-Founder, ZipLoan
 - d. Mr Prakhar Bindal, CEO, Namekart
 - e. Mr Suchin Jain, Founder & CEO, Inoviea Consulting

3. **Workshop on UI/UX Design:** Workshop by Akshansh Deva, Product Designer at OYO, covered the basics of UI/UX and a practice session in interface wireframing.
4. **Workshop on Design Thinking:** Mr Ghanshyam S conducted a workshop on design thinking to solve business problems, in the days leading up to Desert Hack.
5. **Summer in a Startup (SiS)** (April – August): A platform to provide summer internships to students on campus in prominent startups across the country. CEL connected various startups looking for student interns to BITS Pilani students.
6. **Rural Entrepreneurship Division (RED):** Interacted with people from nearby rural areas and made the basis for viable business model that can be established. Papad manufacturing was finalised.
7. **Ideation Challenge (9th April):** A business plan competition where participants had to submit a business model from a given pool of problem statements and pitch in front of a panel of experienced professors.
8. **Conquest** (February 20 to July 28, 2019): Startup Launchpad Program. The features of the program were –
 - Mentoring Sessions for the Top 50 startups at Delhi, Bangalore & Mumbai
 - Weekly Online Mentoring Sessions for Top 15 startups from June 1 to July 15, 2019.
 - Resources worth INR 1Cr to the finalists. A cash prize of 5 lakhs for winners.
 - Accelerator Program for Top 11 from July 21-28, 2019.
 - Free Co-Living Space for all participants in partnership with OYO, for the duration of the Accelerator Program
 - Investment Workshops
 - Founder Session to interact with established entrepreneurs.
 - Guaranteed Investment Opportunity
 - Grand Finale at The Leela Palace, Bangalore.

Workshop On IPR: Ms. Vrinda Kaul – Manager ABG Legal Cell (IPR Division), covered the basics and insightful knowledge of Patent Application Filing, Patent Processes in India & legal & statutory requirements for patent application. (September 20, 2019)

Selected & signed a MOU with MeitY as a Group - 2 TIDE 2.0 Centre to receive a grant support of INR. 3.1 Crore for the Technology Business Incubator - BITS Pilani for promotion & financial support to incubated startups & entrepreneurial ecosystem.

Startups incubated in 2019 (January – December)

Neoncube	Local Marketing using integrated technology tools to encourage SME's to boost their visibility and brand
Nawgati	Deep Learning and Machine Learning based app to estimate reduce the Queue length and waiting times in CNG stations
Valerio Electric	existing technology that encourages the quick deployment of Electric Vehicles while being financially viable for commercial use to the everyday consumer.
Vnnovate Healthcare Pvt Ltd	-
Finquant Technologies Pvt Ltd	-
Nano tech skin care	"Next-Generation Nanotechnology Based Products for Skin Care, Parenteral and Specialized Drug Delivery"
Elixir Systems	AR startup transforming the educational curriculum is taught

Centre for Materials Science and Technology

The objective of the Centre for Materials Science and Technology is to develop and implement projects related to modern materials such as smart materials, biomaterials, fibre-reinforced plastic composites and also related to conventional materials such as metals, ceramics and polymers. The Centre undertakes mechanical and non-destructive testing of various engineering materials and products for evaluating their mechanical properties and for evaluating defects such as cracks, voids, delamination, inclusions etc. Other activities include providing consultancy related to materials aspects and testing/development and analysis in the field of materials science and technology in general. The testing facilities available at the Centre include a conventional Universal Testing Machine of 50 Tons capacity, as well as, a fully computerized microprocessor

based Electronic Universal Testing Machine of 100 kN capacity, Heating Chamber for UTM for High Temperature Testing, Hounsfield Tensometer, various hardness testing machines such as Brinell, Rockwell, and Vickers Hardness Testers, Rotating Bending Fatigue Testing Machine, Combined Bending and Torsion Fatigue Testing Machine, Strain-gauge testing facility, Izod Impact Testing Machines, Digital impact testing machine, Double disk polisher, Inverted Metallurgy Microscope, Erichsen cupping tester, Single Screw Extruder with Calendaring and Pelletization Facilities Ultrasonic Flaw Detectors, Liquid Penetrant Test kit, Magnetic Crack Detector, Eddy Current Tester, Acoustic Emission Testing equipments, Acousto-ultrasonic pocket hand-held AU scanner, Polariscope-for measuring stresses in photoelastic models etc. Wet-lab facility and fume hood for polymer fabrication section. Basic Mechanical fault simulator, Data acquisition system for vibration measurement.

Centre for Robotics and Intelligent System

The objective of the Centre for Robotics and Intelligent Systems (CRIS) is to develop prototypes that provide greater intelligence and higher versatility for robotic tasks under ever-changing constraints of the environment. This objective is set forth to make Indian industry competitive by developing indigenous technical skills, manpower and innovative spirit. Each prototype is developed in four different stages viz. (i) Conceptualization, (ii) Algorithmic development and verification in simulated environment, (iii) Real-time testing and (iv) Integration of automated system. The Centre is well equipped with excellent computational facilities; advanced software packages for circuit design, image processing and mechanical design; micro controller and DSP based driver card for real-time experimentation; experimental bed, Pendubot (inverted pendulum), CRS-Plus robot manipulator, 4-DOF SCARA manipulator, 5-DOF articulated manipulator, ABB-1410 Industrial Robot, Hydra mobile base, Lab mate, mobile base, Allen Bradley PLC Micro Logix 1500, PLC based Hydraulic and Pneumatic Trainers and many other facilities.

The center is geared to provide research facilities in areas such as intelligent robotics and system design, intelligent control, neural and fuzzy neural based system modeling and control, evolutionary computation, robotic vision and virtual reality. Earlier BITSUMO, which is an autonomous assistant robot, was developed to work in restaurant/ library. In addition to these, an autonomous glider, an autonomous hovercraft, a 14-DOF robotic arm, an intelligent mechatronics ball, a micro-mouse platform and a micro-mouse testing base were developed at CRIS. The center is engaged with the development of humanoid robots. The first breakthrough is in terms of Acyut-1 and Acyut-2 (humanoid). Acyut-1 is a dancing robot and which has won several laurels even at international competitive events (Rob games 2008 held at San Francisco, USA and INDEEN Expo, Germany etc.), Acyut-2 is much larger and far more capable. It has far better control and using remote command by way of hand movements etc, it can be moved synchronously. These models were demonstrated for their capabilities at Korea, USA, Germany and Japan. The students are currently working on further developments related to Acyut-2 robot with added features Acyut-3 had participated in FIRA-2010, Bangalore and created a world record in weight lifting (2.4Kg.) in year 2010.

In same year a mobile Robot (named SHAURYA) participated in Annual student contest organized by DRDO, India and received recognition. Team Acyut have showcased their technologies at in the Tech fest of BITS Pilani Dubai campus and IIT Kanpur, Robotics symposium of RDE Pune (DRDO) and Tech test of NIT Calicut. For their effort the team has been appreciated by scientists of BARC Mumbai and DIT New Delhi. Acyut-4 had been invited to participate in ROBOCUP-2013. AcYut was redesigned completely and a novel system of parallel links is introduced. It stood 2nd in Robocup Iran Open 2013 and stood 4th in Robocup Netherlands 2013. Based on the progress in the area of humanoid robotics, Department of Information Technology (DIT) sponsored a project worth 45 Lacs in year 2013-2015, to develop a humanoid which is capable of stable walking and navigate in a structured environment. The team has continually improved the software for the robot to incorporate artificial intelligence and computer vision. Acyut can now play autonomous soccer against another robot and score goals. In February 2015 team AcYut demonstrated humanoid walking and image processing technology in HiSens Workshop at IIT Delhi. In July 2015 the team participated in RoboCup China in Teen Size humanoid league. Continuing the good work from previous years, this year saw development in software modules with better algorithms for cognition. Other improvements include up gradation of the camera sensor to new Fish Eye lenses and implementation of feedback system for more stable gait. Team AcYut, BITS Pilani's humanoid robotics team, participated in the RoboCup 2017 held at Nagoya, Japan. Team AcYut has been the only participant from India, both in this edition and in previous editions. This year, they participated in the Humanoid Soccer League and the Humanoid Soccer Drop-in league, where they finished fifth and third, respectively, out of a total of 8 teams. In March 2018, a student team developed Buddy Bot for DRDO competition and became west zone topper. The team participated in the National Level finals competition and won a prize worth Rs. 60,000. Currently the same team is in the process of developing a driverless car with the developed technology and have achieved the autonomy level II so far and working for autonomy level III.

The CRIS research incorporates with all aspects of creating and controlling robots such as mechanical design, dynamics, perception, control and decision making. Current faculty researches includes projects in the following areas: Humanoid robot, Autonomous Car, and use of computer vision, motion planning and control, Machine learning Algorithms.

Centre for Renewable Energy & Environment Development (CREED)

CREED is an interdisciplinary Centre that co-ordinates educational and research activities in the active areas of renewable energy and environment. The objectives of the Centre are (i) to conceive, develop and implement renewable energy applications and environment protection projects, (ii) to develop courses and organize awareness programmes, and (iii) to collaborate with external organizations in the areas of renewable energy education, training and technology development. Some of the existing facilities at CREED include an experimental set up for solar water heating, solar air-heating system, solar stills, and solar photovoltaic power pack with storage battery bank, SPV lighting systems, fluidized bed combustor with gasifier and various instruments related to energy audit and solar resource assessment.

Currently, active research areas of CREED include concentrated solar power and concentrated photovoltaic power based policy analysis, emissions and environmental impact of thermal power plants, planning and economics of renewable energy systems, real time operation and control of renewable systems, industrial cogeneration, integrated renewable systems, demand side management, clean development management integrated resource planning, CO₂ based refrigeration, biomass based fluidized bed combustion, biomass pyrolysis etc. The faculty members and research scholars of the center have also visited University of South Florida, USA and TU Braunschweig, Germany for the research purpose under institute's schemes.

The Renewable Energy Club is an exclusively a student managed body that operates under CREED. The Club has undertaken active work in organizing Green Week, Goodbye Earth, competitions, quizzes, invited talks, e-waste collection drives, carbon footprint analysis and carbon credits. The club has also participated in participated in the competition Wipro Earthian. Commercial organizations in these areas have evolved out of this club, and are currently owned and operated by BITS alumni.

In the courses BITS F462 Renewable energy, solar cooking stall was setup in OASIS 2019 as an awareness drive for solar energy. The students and faculty have cooked food using solar cookers and sold during the fest. The profit earned was given to NIRMAAN organization, a student driven NGO.

CENTRES ESTABLISHED WITH STRONG INDUSTRIAL SUPPORT

Embedded Controller Application Centre

Devesh Samaiya (Lab in-charge), Prof. S Gurunarayanan, Dr. Vinay Chamola, Mr. G Sai Sesha Chalapathi.

This Centre was initially set up in Collaboration with Motorola India Ltd. The objective of the Centre is to impart detailed understanding of important features of embedded controller architectures and familiarization to advanced concepts in the field of embedded controllers through

- Students projects/Industrial projects
- Imparting training to the industry professionals and running short term courses in the field of Embedded System design
- Developing course modules

The infrastructure of the centre includes high performance general purpose computing machines, Microcontroller Modular Evaluation Systems, Microcontroller Development Systems, Single Board Computers, Emulators, Assemblers and Cross compilers for various microcontroller families (NXP, TI, ARM, ATMEL, Microchip, Cypress, ST Microelectronics) DSP processors and a plethora of discrete components.

Faculty members of the group are involves in research work in areas of Embedded System, Wearable Computing, Multimedia computing and Embedded Linux systems. Faculty has published research work, attended National and International seminars, conferences and invited talks.

Centre also provides space for operations of Team Anant, Student Nano Satellite project by BITS Pilani, Pilani Campus. We have received embedded systems development related tools and hardware kits from Texas Instruments India under an MoU signed with EEE Department, BITS Pilani. The Centre provides support for FPGA based system design and has facility for Xilinx Atlys, Gensys, Zedboard boards and camera interface.

Teaching Learning Centre (TLC)

The TLC activities for the year 2019 are given below:

SEER: The SEER (Sharing Experience and Educational Research) series is envisioned during the Fall of 2018 to be a once in a month TLC forum activity to discuss research articles in teaching-learning and to share unique pedagogical practices by the BITS faculty members. It was planned that a SEER session would typically have two sessions of thirty minutes each where a faculty member would present his/her research on pedagogy and its best practices in the first half, while another faculty member would share his/her teaching experience with the BITS community. The aim is to generate discussion and debate and to learn from each other.

The following SEER talks were organized in the year 2019:

- The **first session** of SEER was held on 31/01/2019 where Dr. Pankaj Kumar Sharma from the Department of Biological Sciences discussed a paper titled "*Can Undergraduate (Biology) Students Learn to Ask Higher Level Questions?*" by G. Marback-Ad and P.G. Sokolove. Prof. Ashoke Sarkar, our Director for Pilani campus, was the second SEER speaker who shared his valuable experience regarding teaching in BITS Pilani in the second half of the session.

- The **second session** of SEER took place on 28/02/2019 where Dr. Kaushar Vaidya from the Department of Physics discussed a paper titled "*Peer Instruction: Ten years of experience and results*" by Catherine Crouch and Eric Mazur. Prof. P. Srinivasan from the Department of Mechanical Engineering shared his insightful experience of classroom teaching in BITS Pilani.
- The **third session** of SEER was held on 26/08/2019 where Prof. Tapomoy Guha Sarkar discussed the original work by Benjamin Bloom on the taxonomy of educational objectives and demonstrated how the taxonomy can be used to set balanced question papers and devise a metric for teaching-learning outcomes in a talk titled "Bloomi-ing Question Paper".
- The **fourth session** of SEER, on 24/09/2019 saw Prof. Navneet Goyal delivered a talk titled "Relating Machine Learning concepts to Academic/Pedagogical Practices" where he explained how he had simplified machine learning concepts in classroom by drawing analogies from pedagogical practices and academic models.

Students Events

Essay Writing Event: On 14/02/2019 TLC organized a 700-1000 words essay writing event for the students. Keeping in mind to engage our biggest stakeholder in the teaching-learning process, the students were asked to muse upon a topic titled "If I were a Professor". A total of 26 students including 6 research scholars participated in the essay writing. Based on the evaluations of a six-member committee comprising of BITS faculty, eight essays are chosen in the top five ranking (with a tie in the 1st, 2nd, and the 5th position). The winners are invited to share their key ideas with the BITS community in an hour-long function on 05/04/2019. The session was well attended by both students and faculty and the winners enthusiastically participated in a Q&A session after their presentations. The winners were felicitated by our Director, Prof. Ashoke Sarkar, and all participants received a certificate of participation.

Student led Classes for Teachers' Day: 14 faculty members have opened up their classes to commemorate the Teachers' day on 5th September where a couple of students engaged the class in the regular class hour. It was a novel idea in the sense that the regular instructors were present in the class noting some of the innovative teaching methods from their students with scope for appropriating them in future for better class engagement. The whole process was later shared with the broad community in an informative session on September 10, 2019. Both the student and faculty community appreciate this exercise and urge the TLC to continue with this practice.

Intensive Teaching Workshop: The TLC conducted an Intensive Teaching Workshop (ITW) for 12 newly recruited faculty members. The entire exercise was divided into three major segments: ITW 1, ITW 2 and ITW 3. The ITW 1 saw nine modules presented by various domain experts on July 25-26, 2019. The inducted faculty members enjoyed the background information provided in these sessions and enthusiastically interacted with the resource faculty. The ITW 2 saw new faculty members attending "open" classes to have hands-on experience on pedagogical practices that they could emulate from their colleagues. Some faculty members from various departments "opened" up the classes for the same. The participating faculty members liked this experiment very much. In the ITW 3 was organized as once in a week format from August 22 to September 26. The newly recruited faculty members were requested to make a mixed presentation using both black board and slides in front of their colleagues and six external experts from various department. The interaction and feedback followed each presentation and the faculty members benefitted greatly from such an exercise. The ITW 3 was coordinated by Dr. Pankaj Kumar Sharma of Biology Department.

Ph.D. Scholars Workshop: The Teaching Learning Centre organized a half-day workshop titled "Teaching-Learning Workshop for the Next Generation Academicians" on Saturday, September 07, 2019. Focusing on three modules of "Communication", "Laboratory Instruction with an Emphasis on Assessment" and "Ethical Practices in Teaching Learning", the workshop roped in more than 15 resource persons including faculty and senior research scholars to address myriad questions/doubts from over 78 participating PhD scholars. The five hours' workshop saw lively discussions, group activities and informative interventions by both the scholars and faculty members. Certificates were awarded to the attendees at the end of the workshop.

Invited Lecture: Prof. Usha Subramanian from the Myanmar Institute of Information Technology gave a guest lecture on Saturday, 23rd February 2019 from 3 pm for an hour followed by a discussion. Prof. Subramanian, a BITS alumnus, and a former faculty at the Department of Computer Science in Pilani Campus, in her talk titled "Teaching and Assessment - Experiences from BITS and MIIT", discussed how teaching and assessment should be learning- and learner- oriented.

Workshop on Team-Based Learning: The Teaching Learning Centre of BITS Pilani, Pilani Campus had organized a two-day workshop on Team Based Learning on 8th and 9th of March, 2019. The resource person, Dr. Preman Rajalingam, is an Assistant Dean, Educational Development and a Senior Lecturer, Medical Education in Nanyang Technological University, Singapore. He introduced the concept of "Team based Learning" (TBL) and "Problem based Learning" (PBL) to the participants and offered hands-on exercises and discussion on student-centred approaches to learning in three consecutive sessions. The workshop is well-attended by BITS Pilani faculty members, totaling 41, with 04 from Goa campus and 01 from Hyderabad campus.

Delegation and Visits:

Dr. Pankaj Kumar Sharma and Dr. Manoj Kannan attended a workshop conducted by Dr. Eric Miller, Director, World Storytelling Institute, in Chennai, during 22nd - 25th December, 2018. The theme was based on how storytelling can be used to teach science subjects, dwelling upon potential questions that can be asked to invite discussion in class through elements of storytelling and case studies.

Dr. Tamali Bhattacharyya presented a paper titled "*Improving the Quality of Technical Education using Pedagogical Instructional System Design*" in the Future of Learning Conference, Learning 4.0: Connecting the Dots; Reaching the Unreached, during January 4 to January 5, 2019 in IIM Bangalore. Dr. Jayashree Mahesh had also attended the conference.

Dr. Kaushar Vaidya and Dr. Manoj Kannan presented a paper titled "*Intensive Teaching Workshop – An Institutionalized Program for Educator Training at BITS Pilani*" in the National Teachers' Congress at MIT World Peace University in Pune during January 4 to January 6, 2019.

Dr. Kaushar Vaidya represented BITS Pilani in the launching of Asian Society of Engineering Education (AsiaSEE) on 8th May 2019 in Hong Kong. As a founding member of AsiaSEE, BITS Pilani, along with several other engineering institutes, commits itself to contribute towards the advancement and enhancement in engineering education via research and practice for the future generation.

B1.12 CENTRAL FACILITIES REPORT**Central Library**

collection in various disciplines of Science, Engineering, Technology, Pharmacy, Management, Humanities and general reading materials.

186 print journals and 36 online databases were subscribed. The online resources now cover more than 57000 e-journals for accessing full-text articles and databases related to company and industries. The Library received 114 Theses in print and soft-copy format submitted by the Researchers leading to PhD Degrees.

A total of 36829 books have been issued from the library by the students, researchers, staff and faculty members for their academic and research purpose. Online catalogue users in last four and half years are 875579.

Library has uploaded over 9770 news links on the library Portal's "Daily News" and has produced monthly infoBITS Bulletins covering 12 different subject areas. The new Brainstorm Room as attracted over 7000 students for various deliberations, Group Discussions, Brainstorming sessions. The library also opened a new Research Zone, Innovation and MakerSpace with 3-D printer, Higher Performing Computer and IOTs this year which are being heavily used by the students, research scholars and faculty members.

As a part of MOU with UGC INFLIBNET, the library has provided URKUND anti-plagiarism software access to all faculty members and it is now the part of the library portal.

The library has set up a Text Book Counter where the prescribed textbooks are being made available for quick access. These books are also issued for overnight reading books are being preserved for posterity. The library staff have been trained to preserve the rare books which are in a very bad shape with brittle and broken pages using German Tissue Paper nearly 73 rare books have been so far preserved using this technology.

In addition to the above developments the library has organized many events to popularize library services among the library users as well as to promote reading.

- 1) Successfully organized Basant Book Festival-2019 from 4-9 Feb. 2019.
- 2) Institutional Digital Repository Workshop of National Digital Library of India at BITS Pilani in collaboration with IIT Kharagpur was held from 25 - 26 February 2019
- 3) Organized a contest "First Book written and Illustrated by Me" for the children in the age group 11 – 15years to commemorate World Book and Copyright Day on 23 April 2019
- 4) A new and state of the art Research Zone in BITS Pilani Library was inaugurated by the Director, Prof. Ashoke Sarkar to commemorate World Book and Copyright Day on 23 April 2019
- 5) Summer Reading Challenge for BITSlans from 6 May- 13th August 2019
- 6) 12 Information Literacy Programmes were conducted by the Librarian.
- 7) Brainstorm session with Faculty members on the topic "Creating Collaborative Spaces in the Library to Foster Innovation" chaired by the Director, Prof. Ashoke Sarkar to celebrate Librarians' Day

- 8) Training Session on Endnote and Grammarly for Faculty members and Research Scholars held on 25th September 2019
- 9) Search Made Simple Training Session on One Search by EBSCO on 1st October 2019 for Research Scholars
- 10) Training Session on the Latex by Dr. Sangeeta Yadav held on 14th October 2019 for faculty members and research scholars
- 11) Training Session on ProwessIQ for Interactive Querying of Prowess Database held on 8th November 2019 for Faculty members and Management Students
- 12) MakerSpace Orientation Session held on 5th November 2019
- 13) Inauguration of Innovation Zone and MakerSpace by Prof. Ashoke Sarkar, Director BITS Pilani on 15th October 2019
- 14) SIAM Academic Writing Competition on 4th November 2019.
- 15) Celebration of Children's Day : Release of the First Books Written and Illustrated by Children and Prize Distribution Ceremony for the winners of "Create an impactful greeting card to convey your message to the people of India" contest on 14th November 2019. Birla Education Trust purchased books worth Rs. 1,34,000/- during this event from the library.
- 16) Display of books on Dr APJ Abdul Kalam to celebrate World Students Day
- 17) 101 Session on Innovation and Entrepreneurship Development held on 9Jan 2020
- 18) "Winter Reading Challenge" between 7 Dec - 8 Jan 2020
- 19) IEEE Explore Digital Library Awareness Programme by Mr. Ranbir Sidhey held on 23 January 2020

Facts about the library

The statistics indicate that the Library collection has grown steadily. Some of the significant statistical data about the Library are as follows.

1	Current library holdings	247318
2	Average number of books issued per month	3877
3	Average number of readers visiting the library per month	26829
4	Books added during the year	2126
5	Total number of Theses	1135
6	Number of print Journals subscribed	186 + 11(Newspaper)
7	E-journals made available on library site through online databases	57000
8	CD-ROM collection (including VCDs)	2,396
9	Total number of reading seats in the library	920
10	Total library area	65,000 sq.ft
11	Total number of Library users (members)	5608

Medical Centre (MedC)

Medical centre is providing healthcare services through its team of dedicated specialist doctors. Two doctors, Dr. Rajiv Gupta CMO (Physician) and Dr Sanjana R Bhat, Gynaecologist (Dy. CMO) are fulltime doctors available at the centre while other specialists visit on different weekdays. ENT specialist Dr. H.S.Sankhla visits the centre on every Monday and Thursday evenings, the paediatrician Dr. Karan Singh Beniwal on all Wednesday evenings, the Dentist Dr.Sanjay Katewa on all Saturday evenings, the Ayurvedic doctor Dr. Ramesh Jaju on all Sunday mornings and the homeopathic doctor Dr. Diwakar Pathak is available on all Tuesday evenings. Dr RP Pareek (Physician) visits the centre on Friday evenings and Sunday mornings. Besides these specialist doctors, a General Duty Medical Officer from Birla Sarvajanic Hospital visits MedC for evening OPD's.

There is a computerized system for registration, investigations and procurement of medicines from MEDC pharmacy thereby making all records available in a digital format and making all transactions cashless. Medicines from the pharmacy are available on prescription only. The pharmacy remains open till 12 midnight on all working days.

MedC has a fully equipped 1 bed emergency observation room equipped with emergency medicines and multi-parametric patient monitor to take care of any medical emergency.

Medical centre has a well equipped clinical laboratory. Besides having fully automated biochemistry and haematology analysers, machines for performing glycosylated-haemoglobin (test for diabetes), serum electrolytes and urine comprehensive examination tests are available. Computerized ECG machine, a spirometer and a digital dental X-Ray unit are also available at MedC. Installation of a new automated immunoassay analyser, for carrying out the Thyroid function test and Serum 25-hydroxy Vitamin D3 test, has been done.

From January 1, 2019 - November 28, 2019, medical centre recorded a total of 12478 new patient visits and 16230 were old registrations. 4418 patients underwent various haematology and biochemistry tests.

Besides curative services, the doctors at MedC provide preventive services by sending Emails to the students and staff on various topics of public health importance. The topics covered range from adolescent health, anaemia, nutrition and health, obesity, osteoporosis, diabetes, cardio-vascular diseases etc. Health camps related to BMD—bone mineral density-estimation and sponsored by various pharma companies, to create awareness about osteoporosis are held in MedC from time to time. MedC has also been conducting health camps at various villages adopted by NSS in collaboration with NSS students.

.Medical Centre has been chosen as a primary care centre for BITS employees covered under ESIC scheme since September 2017. Besides the routine outdoor services provided to these patients, special medical camps are being organized for these patients from time to time. The entire process is computerized, the details of which are provided to ESIC on a monthly basis.

New additions at MedC in the year 2019:

- Tread Mill Test

BITS Coop

The BITS Consumers Cooperative Stores Ltd. Continued to extend its services to the staff and students of the Institute. Its total membership as on 31st December 2019 was 4785 consisting of 816 staff members and 3969 students. They were holding 4080 major and 15186 minor shares of the stores. The scope of its activities covers the following:

1. Sale of groceries and vegetables to the staff members;
2. Supply of stationery and general merchandise;
3. Supply of consumables, stationery, equipment and other materials to the Institute and Books to Library;
4. Supply of books to the students;
5. Running a bookshop and organization of a permanent book exhibition;
6. Providing computer and mobile repair services; and Running a Medical Store in the Medical Centre of the Institute.

Blossom Kids-Zone (BKZ)

The Blossom Kids-Zone (BKZ) is run voluntarily by faculty wives and it takes care of the pre-school training and education of the children in the age group of three to five years. The center primarily caters to the needs of staff children belonging to BITS and the sister organizations.

Institute Functions

Institute functions have been the integral part of BITS as an organization/ institution. In year 2019, BITS Pilani, Pilani campus, as usual practiced in the past, saw the magnificent celebrations of its five institute functions throughout the year viz. (i) Republic Day (26th January), (ii) Founder's Day (Basant Panchami- 09th February), (iii) Ram Navmi- Birthday of Founder Chairman Shri G. D. Birla (14th April), (iv) Independence Day (15th August), and (v) Gandhi Jayanti (2nd October). Herein, students, staff and faculty enthusiastically attended all these functions and graced the occasions. Over all this, there had been the constant and unconditional direction and support of Vice Chancellor, Director, Dean (Administration) and other Deans (divisions) and Unit Chiefs (units) for all these institute functions.

BITS House Allotment Committee (BITSHAC)

Estate Management Unit also looks at house allotments to staff members of BITS Pilani (BITS House Allotment committee (BITSHAC). The Primary aim of the BITSHAC is to streamline regulatory guidelines for the allocation of accommodations to Staff members and implement a transparent and a fair policy in a consistent manner so that all applicants with similar eligibility characteristics are treated alike with openness while maintaining individual confidentiality to requesting Staff members, following 'Best Practices and Framework of Guidelines', keeping in mind the circumstantial variability and complexities. BITSHAC acts in a manner to encourage equal opportunities and will seek to ensure that information on the Allocations Policy gets disseminated in a consistent manner. The BITSHAC invites applications against a circular / notice from Staff members on a monthly basis in a prescribed format or as and when vacancy arises and does the allotment as per guidelines framed. The document on guidelines has been framed and the same implemented in all campuses with slight variations based on local environment.

BITS Staff Housing Group

The BITS Staff Housing Group constituted in the year 1989-90 by the Institute. For helping the BITS Staff members for having personal houses in the new campus, "Gyan Vihar". The Institute has provided Rs. One lac Fifty Thousand as soft loan to staff members for the construction of the houses. Forty staff members have constructed their houses and many other staff members are planning to start the construction work soon. Both the sectors have been provided with urban electric supply. Two new-cemented road of 300 feet long has been added in sector number one. Streetlight has also been provided. All activates of the Gyan Vihar are under Public Relations Unit.

Loan facilities for Staff members

(i) Staff Furniture Loan

Under this scheme the staff members get interest free loan re-payable in twenty four monthly installments. Institute provided Rs. 5,80,000/- as loan to 58 staff members for the purchase of various furniture items.

(ii) Computer Loan

This facility was started in the year 1999 for the purchase of computer for personal use by staff members with a simple interest of 6% per annum. It is being utilized effectively by faculty.

(iii) Housing Loan

The Institute provides the housing loan upto Rs. 1.50 lacs to staff members for the purchase/ construction/ renovation of houses.

Publications and Media Relations

Publications and Media Relations Unit brought out the following publications during the year: (i) Annual Report (ii) Annual Report – a quick glance (iii) BITS in the News (iv) Bulletin (v) BITSCAN magazine. Besides, the unit gave effective support for coverage of Institute events in the media which is evident from the large amount of media coverage BITS received (both in national and local press) during the year. PMRU regularly sent latest news to the web team of the Institute for updating on the Institute website. Also the PMRU team provided support to various departments and student bodies in branding matters while bringing out their publications, posters, brochures, invitations, etc.

Reprography Section

The Reprography Section takes care of all the in-house printing, binding, and photocopying work (e.g. printing of institute bulletin, annual report, various information brochures, time table, academic regulation, answer booklets and project reports for submission to various Government and other funding agencies). The printing and binding sections have been fully equipped with facilities like off-set B/W printing, heavy-duty photocopier machines, cutting, laminating, stitching, spiral binding, etc. Reprography has a separate question paper printing/copying facility where the scripts related to assignments, tutorials, quizzes, test and comprehensive examination for all courses offered in on-campus or off-campus programs are printed.

Apart from Institute work, the reprography section also caters to the printing and publishing needs of staff and students. Services like photocopying of journal articles, laser printing, binding and lamination of project reports are available. Reprography also supports printing requirements of various student activities like OASIS, APOGEE, BOSM and other activities undertaken by various clubs and associations. The printing and publication requirement of conferences and workshops organized in the Institute is also supported by the reprography.

The following facilities are available for the benefit of students and staff members.

1. Dispatch facility: All the Institute dispatch requirements are catered through reprography either through ordinary/ speed post facility available at the VidyaVihar Post Office, Pilani or through private courier and cargo carriers for both domestic and international destinations as per needs.
2. Photocopying and allied facilities: Photocopying, printing, word processing, binding and laminating facilities are available for students and staff on chargeable basis at the Reprography section. Photocopying service is also available at the BITS Library.
3. Photography facility: Nikon Camera and Flashlight (Set 1: D7000 & SPEEDLIGHT SB-910; Set 2: D7500 & SPEEDLIGHT SB-5000), Umbrella Light (Problitz 300D), Tripod (Manfrotto, 498RC2) and Photo editing
4. Document Designing: Notification poster and advertisements of BITSAT, ME & Ph.D. admissions, faculty recruitment; Cover page designing of Annual report, Bulletin, Research at BITS, BITScan, BITS in the News, News in Alumni, etc.; Greeting card designing; Digital advertisement preparation, All the above-mentioned designing as per BITS Brand guidelines using Adobe creative cloud software.

Central Workshop

The Central Workshop of the Institute shifted to the 2600 sqm new building during summer vacation. The new workshop; in addition to imparting training to the students and catering to the maintenance and research needs of the Institute; is also designed for the 'design to test' concept. When fully functional, any student having an idea can design, prototype and test the part/product in the workshop. During 2019, CNC machining, Reconfigurable Mini CNC machining, Foundry, Forming, Welding, Carpentry, Advanced Metrology, Learning Factory, Sustainable Manufacturing & Life Cycle Engineering are fully functional. Major equipment added during the year are: coordinate measuring machine (CMM), contour measuring system, vision measuring system, surface roundness tester, profile projector, microscope, micro hardness tester, 4 CNC turning and milling centres, 63 tonne power press, power tools, TIG & MIG welding and dynamometer. The workshop is equipped with state of the art metrology lab. Students' training consists of training all integrated first degree students through the course 'Workshop Practice' by imparting skills in various manufacturing processes. In addition, students are imparted training for other courses like 'Production Techniques', 'Metal Forming and Machining', 'Casting and Welding', 'Computer Aided Manufacturing', and 'Flexible Manufacturing Systems'. Apart from routine maintenance, fabrication and training, the workshop also accepts jobs on precision fabrication of project work of students, staff and research scholars.

Instrumentation

The instrumentation unit undertakes regular and annual maintenance of laboratory instruments across the Institute. Instrumentation provides an LCD projection facility for regular class-work in classrooms, workshops, conferences, symposiums, and other academic and cultural activities across the institute and also performs preventive maintenance for these projectors. The instrumentation unit facilitates all the institute programs with high-quality public address systems, digital mixers, loudspeakers, and Lighting equipment to make the events more effective and lively. The instrumentation unit also takes care of digital TV installation and recharges in all the hostel's common rooms.

All classes have been equipped with a projection and microphone facility supported by UPS. Unit has procured some state of art instruments like Kramer switch, multiplayer, Logitech presentation remote, 4 Unit x LED par 64 LED stage par cans light, 36x3W RGB DMX RGB Infinite color mixing with Control mode: Work Auto, Sound Active, Master/Slave, DMX512, LED control panel, Irradiant SRC-146 Lighting Controller, 24 Channel Lighting Controller and also providing Videography using Panasonic memory card camera-recorder.

The instrumentation unit also provides mobile and a cellular connection to faculty and staff members. The instrumentation unit also provides an announcement system in MB Hostel and periodic bell system for classrooms and offices in the institute.

Centre for Software Development (CSD)

Software Development and Educational Technology Unit (SDET Unit) at BITS-Pilani is primarily responsible for inhouse development of applications, web site development & maintenance, development of mobile applications, and conduct of short term certification programs pertaining to new and upcoming software development technologies.

Currently, the CSD is envisioning creation of a new-age integrated, adaptive web-site for the university and hopes to complete the deployment by July 2020.

Information Processing Center

Information Processing Centre (IPC) provides computing facility for students and staff of the Institute. The Centre is responsible for planning, need forecasting and maintenance of computing resources across the Institute. The Center has signed campus agreement with Microsoft and MATLAB for licensing their product & tools. With a view to upgrade the computing resources, across the Institute, 50 desktop machines, 40 Laptops, servers, network equipments and a few printers & peripherals were purchased. During the year, Centre has been involved in setting up of Wi-Fi based 500 node network in girls and boys hostel, implementing identity based access control. The center is responsible for maintaining and upgrading the campus wide 5000 dataport wired network and Wi-Fi network. With the augmentation of existing facilities, the Centre has been able to support conduct of online examinations, structured and unstructured labs for more than 30 courses offered by Computer Science and other departments. The center has also been involved in supporting the number of workshops and training programmes conducted in the Institute. The IPC is open on all days throughout the academic session from 08:00 A.M. to midnight and it is closed only for 3 days in every semester. The details of existing facilities in the IPC are given below.

The Center has a Blade Servers, 16 node HPC cluster, 5 GPU servers with Nvidia tesla cards, and 15 numbers of Intel based SMP servers, supporting variety of operating systems and development tools. These systems operate under UNIX and Windows environment and support variety of compilers database and software tools such as C, C++, Lisp, and Microsoft Visual tools, MatLab, PSPICE and Rational Rose etc. The Centre has 350 numbers of desktop machines, with Windows 10, Linux and variety of software tools. The central computing facility specifically takes care of the bulk computing needs of students in their courses, which needs acquiring and use of computer programming skills. It also caters to large number of computer projects of First Degree, Higher Degree and Ph.D. Students.

Apart from the above mentioned centralized computing facility, the Institute has workstations and Pentium machines distributed at various other locations. These Centers are placed near to the locations requiring Computer Aided Modeling & Design, computer-based instrumentation and experiments as well as other activities. In addition to this the various departments have their own computing facility supporting specialized tools.

The BITS Intranet

IntraBITS is a collaboration-category intranet portal deployed and supported by the Software Development and Educational Technology Unit (through its Centre for Software Development) since 1999. Its principal objective has been to enable the faculty and students to leverage appropriate software technologies in the On-Campus educational (teaching, learning, sharing) process. The followings are some of the highlights of the BITS Intranet. This portal has gradually expanded to multiple independent sites linked to it.

- An On-line Learning Management System (Nalanda) built in 2010, atop LAMP and Moodle platforms provides a complementary globally accessible service that aims to serve the entire community, both on-campus and off-campus.
- Recently, an online IPC Complaint Management System developed by the CSD has been integrated with this portal.
- The BITS Intranet is serving as a vibrant medium for exchange of academic and other ideas among students and faculty.

Human Resource Section

The inception of the Human Resource Section was from September 12, 2018. Subsequent to its creation, CAHU ceased to exist.

The Human Resource Section shortly known as the HR-Section is a facility that maintains the employee personal records, executes the payroll (through ERP), recruits' employees, appraises the employees through the PMS process, organizes training and development programmes for the non-teaching staff, handles the day to day general administration activities for the campus. Some of its key activities are mentioned below:

Activities like appointments, employee on-boarding during recruitment. The Performance Management System (PMS) looks after Promotions, Regularization of the non-teaching staff. Employee Welfare & Statutory Activities like the PF (maintained for all the Indian Campuses), ESIC, Family Pension, Loans (for e.g. Furniture loans, Computer loans & Housing loans) School Education Fee Reimbursements, Medical Bills Reimbursements, Reimbursement of Relocation Expenses, LTC, and any kind of welfare support required for the employees are catered by this office. Issuing Certificates, letters to the staff based on the need. Constant updation of employee information, Disciplinary Actions are some of the major activities handled by this office.

Central Analytical Laboratory Facility

Central Analytical Laboratory (CAL) at BITS Pilani, Pilani campus houses many sophisticated instruments, catering to the needs of the various research Departments like Pharmacy, Biological Sciences, Physics, Chemistry and Chemical Engineering etc. The facility is used for training and teaching of the students as well doctoral research. CAL has a spacious area of 2600 sq.ft and is equipped with latest instruments that includes - Stability Cabinets (For stability testing of drugs and organic molecules), UV-Visible Spectrophotometers, UV-Visible-NIR Scanning Spectrophotometer, IR Spectrophotometer, FTIR Spectrophotometer, Scanning Spectrofluorimeter, High Voltage Electrophoresis, Digital Polarimeters, Ultra and Refrigerated Centrifuges, Differential Scanning Calorimeter, Gas Chromatography, High Performance, Liquid Chromatography (with auto-sampler and various detectors), Thermogravimetric Analyzer (Shimadzu), Impedance analyzer, Particle Size analyzer, Rheometer, Ellipsometer and Elemental Analyser (vario MICRO cube). High end equipment's such as 400 MHz NMR spectrophotometer (Bruker AVANCE III), Atomic Force Microscope-Surface Enhance Raman Spectroscopy, Gas Chromatography-Mass spectrometry, Field Emission Scanning Electron Microscope have also been installed. Recently the laboratory has been upgraded with Confocal Microscope. Currently the facility is capable of carrying out research work at all levels including the industrial projects. Apart from using the Central Analytical Laboratory facilities for teaching and training of the First Degree and Higher Degree students, it is extensively used for dissertation and doctoral research, faculty research and consultancy work. It is also used by scientists/faculty from other nearby organizations.

Central Animal Facility

Central Animal Facility at BITS Pilani, Pilani campus is a CPCSEA approved facility with total floor area of 5330 sq. ft. The facility is also approved for in-house breeding of small animals. The facility maintains the

animal species like Rats, Mice, Guinea Pigs, Rabbits and Hamsters. It was build up in accordance with guidelines issued by CPCSEA and other regulatory bodies. It is also equipped with incinerator (electrically operated) facility for disposal of the biological and other biomedical waste. The air conditioned facility is maintained by well trained personnel, with a full time veterinarian to take care of the various requirements of the animals. Central Animal Facility caters to the needs of the various research departments like Pharmacy, Biological Sciences and Chemistry, etc. The facility also incorporates Pharmacokinetics, Pharmacodynamics and Pharmacology research laboratory for carrying out advanced research in the areas of pre-clinical pharmacokinetics, bioavailability studies, pharmacological screening of various synthetic/natural origin drugs. The laboratory has sophisticated instruments such as two chamber automated organ bath, laser doppler, non invasive blood pressure recorder, semi dry transfer apparatus, microtome, RT-PCR, electroconvulsimeter, actophotometer, analgesiometer, light dark apparatus, rotarod etc. Equipments such as surgical anesthesia machine, electrical cautery, deep freezers (-20 and -80°C) and spare air-conditioners are also utilized. The laboratory is upgraded with video documentation system for various animal behavioral studies. Facility is geared to take up various industrial or governmental funded projects in various pre-clinical areas. Recently Air Handling Units and Large Scale Autoclave have been installed.

B1.13 MAJOR MAINTENANCE, RENOVATIONS OR NEW CONSTRUCTION REPORTS

Maintenance, Renovation and Construction

Apart from carrying out routine maintenance of the Institutional, Hostels & Staff Quarters buildings, Infrastructure facilities like STP, 33KV Sub Station, Roads, Footpath and Street Lights, the following works were taken up during the year either as new construction or as renovation:

Works Completed

1. Installation of Motion Sensor for lights in Toilet of Shankar, SR, CVR.
2. Net Metering of Roof Top Solar Power Plant with RSEB, O&M, Pilani.
3. Changed the 400 watt Metal Halide light fixture by 150 watt LED light fixtures, total 24 nos. of lights to save electricity.
4. Taking Over of Shankar Bhawan from Project Parivartan Team.
5. Taking Over of electrical infra work (HT Line, LT Line & RMU) from Project Parivartan Team.
6. New Electrical wiring in FD-3 for all newly shifted bio labs in FD-3 with all electrical safety protection switchgears.
7. Increased 5nos. numbers of street light poles on Paschim Marg.
8. Lighting of Football ground.
9. Change all SMF Battery (Maintenance Free) of our all 4 nos. Power UPS with new SMF batteries total 120 nos.
10. Installed 10 nos. Sanitary Napkin Destroyer machine in 5th &6th block of Meera Bhawan.
11. Change the normal 72 watt 2x2 light fitting with 36 watts LED Light Fitting, Total 35 nos. of tube light change.
12. Electrification work for AC's in FD-1, 7 nos Classrooms.
13. Replacement of old Air-cooling system with new air cooling system in Medical centre.
14. Electrical Preventive maintenance work was done as a part of Summer vacation maintenance activity in Meera, Malviya, SR, VK, RP,GN,VYB, RPB, BGB, AKB, RAB, BUB and CVR Bhawans.
15. Installation of Motion Sensor for lights in Toilet of Shankar, SR, CVR.
16. Net Metering of Roof Top Solar Power Plant with RSEB, O&M, Pilani .
17. Changed the 400 watt Metal Halide light fixture by 150 watt LED light fixtures, total 24 nos. of lights to save electricity.
18. Taking Over of Shankar Bhawan from Project Parivartan Team.
19. Taking Over of electrical infra work (HT Line, LT Line & RMU) from Project Parivartan Team.
20. New Electrical wiring in FD-3 for all newly shifted bio labs in FD-3 with all electrical safety protection switchgears.

21. Increased 5nos. numbers of street light poles on Paschim Marg.
22. Lighting of Football ground.
23. Change all SMF Battery (Maintenance Free) of our all 4 nos. Power UPS with new SMF batteries total 120 nos.
24. Installed 10 nos. Sanitary Napkin Destroyer machine in 5th &6th block of Meera Bhawan.
25. Change the normal 72 watt 2x2 light fitting with 36 watts LED Light Fitting, Total 35 nos. of tube light change.
26. Electrification work for AC's in FD-1, 7 nos Classrooms.
27. Replacement of old Air-cooling system with new air cooling system in Medical centre.
28. Electrical Preventive maintenance work was done as a part of Summer vacation maintenance activity in Meera, Malviya, SR, VK, RP,GN,VYB, RPB, BGB, AKB, RAB, BUB and CVR Bhawans.
29. Plantation 1214 no plants in campus.
30. Development work opposit new workshop.
31. Development work medical center.
32. Nursery shifting behind animal hose to behind FD 2
33. Added TSE water Supply in Shanker Bhawan,Budh Bhawan.
34. Replacement of 10 year old water cooler & AC Institute & different Hostels.
35. Added one New Bore well in campus.
36. Added 11 New RO in campus.
37. Installation of 56 numbers of Split AC in FD-I Class room.
38. Installation of 03 numbers of Electromagnetic Flow Meter in STP 1 MLD Plant to measure inflow sewage.
39. Taking over of Shankar Bhawan from Project Parivartan Team.
40. Resistivity survey was done at three locations in the campus for water availability.
41. Servicing & filling new filter media an Carbon filter at 1.5 MLD STP plant.
42. Replacement of 50 Ltr/Hr RO with new 100 Liter/Hr RO in Library for benefits of students & other users.
43. Repairing & servicing of 22 Nos Air cooling Unit installed at SR Bhawan, Main Audi, FD-II, LTC and WILPD.
44. Installation of 90 numbers Different type Fire Extinguisher in Institute & different Hostels.
45. Ensured quality housekeeping standard in Institutional Buildings, Student Hostels, Roads campus.
46. Successfully Operation of 04 Nos. E- Loader for wet waste collection & transportation of material within the Campus, which is a contribution towards reduction in carbon footprint.
47. Installed 90 numbers of M S litter bin stand in ROW & hostel Shankar Bhawan and Modified in the design of 120 numbers of existing M.S. stands in student hostels for better litter management.
48. Installed 150 Nos. water conservation Signages in student hostels, messes, Institute buildings and faculty housings within the campus to spread awareness about reduction & optimum utilization of potable water.
49. Establishing & maintaining segregated waste – dry/wet collection from residential colonies in the campus.
50. Maintaining 5 Nos. dog feeding areas in the campus for stray dogs.

Works in Progress

1. Installation of 40Kwp Roof Top Solar Power Plant, on Krishna bhawan roof.
2. Increasing of street light pole on Poorvi Marg –II.
3. Changing of old street light cable with in new one in campus.
4. Installation of LDR for street lights.
5. Refurbishing of Director's Residence.
6. Laundry in Meera Bhawan.
7. Chemistry Lab preparation in FD-III 3139.

8. Provision of Ramps in various buildings in Institute premise.
9. 21 cubicles making and converting two toilets into four in old work shop.
10. Rain water collection tank and pipe line laying in FD-III Lawn.
11. Fume hood installation in FD-III Chemistry lab 3101 – 3103.
12. Fencing around bore wells 5 nos. (Well no. 1, 3, 5, 6 & 7).
13. SS Railing in entrance portal staircases of NAB (3 nos.).
14. Vacating of FD-III North wing for renovation.
15. Cleaning of FD-III Back.
16. False ceiling in office space of Cluster – I (2 Rooms).
17. Correction in Foundry furnace, GI Corrugated sheet shed, Concrete plate form & Railing in new workshop.
18. Complete painting of pipe lines, grills and other MS Structure in the Cooling plant of NAB.
19. Commissioning of 2-Ton per day capacity Organic Waste Treatment Plant.

B1.14 MAJOR EQUIPMENTS ACQUIRED DURING THE YEAR

Centralized purchases unit processes and monitors purchase of equipments and consumables of the institute & also looks after the repair requirements of the equipments. The purchase process includes request of quotations, preparation of comparative statements, indents, bill checking and status reports of purchase. The entire process is managed by computer database containing more than 6000 types of consumable, equipments and 2500 suppliers. The whole process being computerized ensures efficient monitoring, timely acquisition of materials, keeping track of delayed or deferred supply and concurrent remedial action.

Purchase of consumables: The annual purchase list for consumables are finalized by considering the institute requirements and existing stock. The consumables are computer stationery, chemical and glassware, electrical and electronic spares, workshop items, reprography items and sports items. The category in-charges process the requirements of individual groups, units, and divisions, and compile them into a consolidated list. The consolidated list of consumables, along with the estimated budget, is presented before the purchase committee. The purchase committee gives approval to this list after scrutinizing it and suggesting necessary modifications.

Purchase of equipment: The equipment purchase of the institute is normally done under various government sponsored grants like CSIR, DBT project, DST, DST FIST, DBT, etc. and also through the BITS non-recurring grant. The purchase of equipment essentially involves interaction with the user and approval from the purchase committee with regard to the type of equipment, cost, budget head, terms and conditions of purchase, import components etc. On approval, the normal process of purchase is undertaken and in cases of imported items, the required protocol is followed.

New equipments acquired: New equipments purchased in this calendar year include more than 1450 in various engineering and science disciplines for BITS-Pilani. Some of the equipments are also purchased for BITS-Pilani, Goa Campus and BITS, Pilani-Hyderabad Campus. Computational facilities have been substantially strengthened by addition of computer systems and networking hardware. The list of major equipment added during this year for various courses are included in the **Annexure B1-12**.

Equipments and Accessories for BITS Admission Test (BITSAT)

BITSAT is for admission to integrated admission program for all the three campuses of BITS-Pilani at Pilani, Goa and Hyderabad through a computer based online test conducted by BITS. CPU Procured items like servers, cables, firewalls, laptops, printers, scanners, etc. for this purpose.

B1.15 STUDENTS ACTIVITIES, ACHIEVEMENTS, SCHOLARSHIPS, CULTURAL AND ACADEMIC FESTIVALS

Students Union

The Students' Union elected the following executives for 2019-2020:

President	-	Rahul Bubna
General Secretary	-	V Abishek Balaji

Hostel Representatives

Bhawan

	Name
Ashok Bhawan	Arun Singh Tomar
Budh Bhawan	Konepalli Bhanu Prakash Reddy
Bhagirath Bhawan	Keval Nandu
CVR	Anmol Awasthi
Day Scholar	Nishchit Soni
Vishwakarma Bhawan	Aman Shukla
Gandhi Bhawan	Vaibhav Kaushik
Malviya Bhawan (A&B)	Egna Praneeth Gummana
Shankar Bhawan	Saksham agarwal
Malviya Studio Apartments	Deepak Gadakh
Meera Bhawan 12378	Likitha Madala
Meera Bhawan	ESHA PAHWA
Ram Bhawan	Reventh Sharma
Ranapratap Bhawan	Kumar Shivam
Krishna Bhawan	Sanyam jain
SR Bhawan A&B	SHAYAN MAJUMDER
SR Bhawan C&D	Harsh Shukla

Secretaries of Clubs

The following were elected Secretaries for various Clubs and Societies:

Embryo Club	Utkarsh
Fashion Parade	Vibhor Jain
Film Making Club	Achintyaa Tewari
Gurukul	Keshav Sharma
Hindi Activities Society	Sachin Tripathi
Matrix	Sparsh Kasana
Mime Club	Rushi Babaria
Mountaineering Club	Sachin Gaira
Music Club	Dhananjay Vijayaraghavan
Nirmaan	Yatharth Agarwal
Nation Service Scheme	Pratik Jain
Oasis English Press	Anirudh Krishna
Oasis Hindi Press	Reetik Ranjan
Photography	Mudit Gera
Poetry Club	Chaitanya
Punjab Cultural Association	Gunjas Singh
RadioAktiv	Harmeet Singh Makkar
Raagamalika	Vishnu Venkatesh
Renewable Energy Club	Ujjwal Gandhi
World Record Society	-----
Audi Force	Yaswanth R
Dept. of Live Events	Shubham Saxena
Dept. of Photography	Sidisha Shyam Barik
Dept. of Theatre	Prajit Dhara

Firewallz	Raghu Boyala
Informalz	Simran Seghal
Lights	Mustansir Mohammed
Sounds	Vignesh Nagrajan
Stage Controls	Sankalp Sangle
Dept. Art & Publicity	Aditya Pawar
Controls	Parth Kashikar
Dept. of Visual Media	Tushar Goel
Publication & Correspondence	Tanmay Chaandak
Reception & Accommodation	Tanvi Gupta
Sponsorship & Marketing	Adit Chandra

The Student Union organized a host of events throughout the year.

Sports Club

The office bearers of the Sports Club constituting the sports committee for the year 2019 were

Secretary : MAYANK KULKARNI

Joint Secretaries :- Mansi Mittal

- Ankur Jain
- Kunal Gupta

The names of the captains for various games/sports are given below:

S.No. Games / Sports	Name
1 Athletics (boys)	- Shivam Arora
2 Athletics (Girls)	- Sindhu M
3 Badminton (Boys)	- Harsh Garg
4 Badminton (Girls)	- Adya Pathak
5 Basketball (Boys)	- Vinay U Pai
6 Basketball (Girls)	- Pragati Singh
7 Carrom	- Pavan Rao
8 Chess	- Rahul Bhagtani
9 Cricket	- Saket Reddy
10 Football	- Ishan Joglekar
11 Hockey	- Priyadarshi Nihal
12 Lawn Tennis (Boys)	- Roshan Roy
13 Lawn Tennis (Girls)	- Aayushi Lohia
14 Squash	- Shrivastava Chaterji
15 Swimming (Boys)	- Archith Murali
16 Swimming (Girls)	- Aishwarya Kondaveeti
17 Table Tennis (Boys)	- Shreyansh Jain
18 Table Tennis (Girls)	- Rishika Chowdhury
19 Volleyball (Boys)	- Sanshit Lakra
20 Volleyball (Girls)	- Paridhi Chaturvedi
21 Taekwondo	- Megha Meghna
22 Football (Girls)	- Srishti Jain
23 Snooker	- Uday Gupta
24 Powerlifting	- Aakash Bist
25 Frisbee	- Utkarsh Agarwal

Sports Events organized

BITS Open Sports Meet (BOSM)

The BITS Open Sports Meet (BOSM) was conducted successfully from 13th to 17th September 2019. Like in the past, the institute organized an intensive coaching camp from 1st to 13th September 2019.

Professional coaches from across the country were invited to prepare Institute's teams in various events. More than 1300 outstation students from all over the country participated in the meet. The meet was characterized as having displayed sportsmanship spirit and was full enthusiasm. The Chief Guest was Indian Chess Grandmaster Tania Sachdeva. The results were as follows:

1. Athletics (Boys)	Winner – BITS Pilani Runner-up – IIIT Kota
2. Athletics (Girls)	Winner – JMC Runner-up – BITS Pilani
3. Badminton (Boys)	Winner – SRCC Runner-up - IGIPSS
4. Badminton (Girls)	Winner – SRCC Runner up - BITS Pilani
5. Football (Boys)	Winner - Hindu College, Delhi Runner-up – BITS Pilani
6. Football (Girls)	Winner- BBVP A Runner up- BBVP B
7. Powerlifting	Winner – BITS Pilani Runner-up – CBPGEC
8. Hockey (Boys)	Winner – OTHL Runner-up – SRCC
9. Swimming (Boys)	Winner – BITS Pilani Runner-up - St. Wilfred
10. Swimming (Girls)	Winner – JMC Runner-up – Sri Venkateshwara College, Delhi
11. Table Tennis (Boys)	Winner –St. Xavier's Runner-up – BITS Goa
12. Table Tennis (Girls)	Winner – SRCC Runner-up – Maharani College, Jaipur
13. Volleyball (Boys)	Winner – ARSD Runner-up – BITS Pilani
14. Volleyball (Girls)	Winner – Gargi, Delhi University Runner-up – Mata Sundari
15. Basketball (Boys)	Winner –JAMIA MILIA, DELHI Runner-up – Ramjas College
16. Basketball (Girls)	Winner - SRCC, Delhi Runner-up – Rajasthan University
17. Cricket	Winner – VIT Runner-up – Manipal University
18. Chess	Winner – SRCC, DELHI Runner-up – BITS PILANI
19. Tennis (Boys)	Winner – Venkateshwara, Delhi Runner-up – BITS Pilani
20. Tennis (Girls)	Winner – SRCC Runner-up – JMC
21. Carrom	Winner –BITS Goa Runner-up – IIIT Kota
22. Squash	Winner – Manipal University Runner-up – BITS Pilani
23. Taekwondo (Boys)	Winner – NAV BHARAT, SIKAR Runner-up – BITS, PILANI
24. Taekwondo (Girls)	Winner – BITS, PILANI Runner-up – BBVP
25. Pool	Winner – BITS Pilani A Runner up – BITS Pilani B
26. Bodybuilding	Winner - BITS Pilani Runner-up - CBGEC

27. Frisbee
Winner - St. Stephens A
Runner-up - St. Stephens B
28. Snooker
Winner - Xavier's
Runner-up - SRCCThe Intra-BITS Sports Tournaments

The Intra-BITS Sports Tournament

i-BOSM 2019: Pre-BOSM event named iBOSM 2019 was conducted from 10.04.2018 to 15.04.2018.

Around 400 students participated in the event. Prize giving ceremony was conducted in the end of the semester.

Outstation Participation:

All sports teams consisting 196 students were sent to participate in Aavhan'19 a Sports meet held at IIT Bombay, from 22nd to 24th March 2019

Swimming Club: The Swimming team distinguished itself by its performance in BOSM 2019 by winning medals in various categories and performing well at IIT BOMBAY.

Health Club: The Health Club is renovated this year with new gym/ exercise flooring in selected areas, repairing & painting of all machines and other equipments including whitewash. It is equipped with various advanced machines for aerobic and anaerobic exercises. During II Semester 2018-2019, the Health Club had a membership of 832 while in I Semester 2019-2020, it was 849.

Bodybuilding team was reintroduced in BOSM 2019. Powerlifting & Bodybuilding teams also participated in competitions held at IIT Roorkee and brought laurels to the Institute.=

Powerlifting & Bodybuilding Camps are being conducted every semester in Health Club to motivate, train and find more students to increase participation. Around 18 students participated in the camp conducted during April 8th to 16th 2019 in second semester 2018-2019 while around 25 students participated in the camp conducted during November 1st to 10th 2019 in first semester 2019-2020.

Sports participation in Hostels: Various Sports facilities are also available in all hostels like Badminton, Table Tennis, Basketball, Chess and Carrom. Five new Multi-station Gym machines are set-up in various hostels this year to motivate students towards better fitness. Good participation of students in hostels is observed as unorganized sports.

Martial Arts: Martial Arts classes are conducted at Student Activity Centre in both morning and evening session. Around 40 students attended the class regularly, out of which 25 students were trained in competitive martial arts skills.

OASIS 2019

BITS Pilani celebrated the 49th edition OASIS. Its annual cultural festival from 19th October to 23rd October 2019. This festival, managed entirely by the students, was mainly sponsored by Cisco, Realme, Axis Bank. It attracted about 1800 outstation participants from about 70 colleges situated all over the country. The festival hosted as many as 90 events which were based on music, art, dance, photography, drama, literature and every other cultured aspect of the college life. The theme of the festival was "Chapter 49: Neo Noir". The Chief Guest of the Inauguration ceremony was Mr. Madhur bhandarkar, the famous Bollywood Director.

The music concerts by Sunidhi Chauhan, EDM night by Nucleya, English prof show by Dan Deacon, Pakshee, Ape Echoes and a comedy show by Biswa Kalyan Rath were among the several highlights of the festival. The festival also witnessed various workshops of dance, music and pottery. Events like desert duel, street and stage plays, fashion parade, Mr. and Ms Oasis, debate, BLAB etc caught the limelight a students from all over the country were able to stage and showcase their talents.

The National service Scheme and NIRMAAN along with several NGO's set up an exhibition for the sale of village potteries, governments and others handicrafts. Nirmaan's wall of Peace was one of the most eye catching thing during Oasis. In the words of Mr.Rahul Bubna, the President of the Students' Union. "OASIS is a 96 hour long cultural extravaganza entirely organized by students and is one of the best cultural festivals in Asia."

APOGEE 2019

APOGEE is the Annual international technical festival OF BITS Pilani. With over 8000 students, 100 colleges and 80 technical events, APOGEE 2019 was conducted from 28th to 31st March 2019. The chief sponsors for the festival was Larsen & Toubro and others included Verzeo and Cisco. It provided opportunities to bright research-oriented minds fostering fruitful innovation through events that include Guest Lectures, Panel Discussions, Project, Paper Presentations, Hackathons, Programming Events, Workshops and Exhibitions extending over a period of five days. The Think Again Conclave was the major attraction of the festival with greats like Wg. Cdr. Rakesh Sharma (First Indian in space) and Mr. Vikramaditya Motwane (Director of "Sacred Games") gracing and making the event an astounding success. APOGEE 2019 surely took the standard of APOGEE as a festival a few notches higher.**Sports**

Ragamalika 2019

Ragamalika commenced its activities by organizing a workshop for the Thyagaraja Aradhana to be conducted on Founders' Day. Lasting a month from the beginning of January to Founders' Day organized on 9th February, the workshop concluded with the club performing the Pancharatna Kritis. On 5th of March, the club hosted a Music Concert, where the musicians took centre stage and mesmerized the audience with their performance. Ragamalika presented Sangamam on 7th April 2019 wherein the story of Shakuntala was retold in the form of dance, by means of original music and choreography. Another remarkable event of the semester was the chamber concert in Carnatic flute and Bharatnatyam by three alumni. At the end of the semester, the outgoing members of the club performed during the P senti Concert on the 23rd and 25th of April 2019.

The next semester started with the Freshers' Concert on 30th August, which kicked off the preparation for Nrityaranjani. Held on the November 4, Margam, the show, was a collection of pieces in Bharatnatyam and Kathak to show the audience the multiple facets of these centuries-old traditions. During Oasis, the club invited Abhishek Raghuram, one of the rising stars of Carnatic music on 21st October, Ragamalika also organized Tandav and Swaranjali, the classical dance and music competitions. This time, the concerts witnessed a highly enthusiastic participation, with the events being a roaring success. The semester concluded with a P senti Concert by the outgoing seniors on November 19, bringing an end to the club's activities for the semester.

SPICMACAY

SPICMACAY BITS Pilani Chapter organized Manipuri dance concert by Ms Bimbawati Devi on 25 August at New Academic Block Auditorium. She was accompanied with Ivana Sarkar, accompanying dancer, S Tomba Singh-Pung on Mridang, and S Pramila Devi, vocalist.

Year 2019 was concluded with SPICMACAY BITS Pilani Chapter organizing Bapang Folk concert on 18 November at the New Academic Block Auditorium. The main artist of the concert was Janab Yusuf Khan. Along with him were five accompanying artists playing various instruments such as dholak, chikara, nakkara, and harmonium.

MATRIX

Second Semester 2018-19

The club kept up the tradition of attending Jaipur Literature Festival, which was held in the last week of January this year. Talks by Colson Whitehead, Benyamin, Andre Aciman, Chitra Banerjee Divakaruni and Vikram Chandra were this year's highlights, along with a multitude of book introductions and panel discussions.

The first book introduction for this year was held on 18th January, named "Winging It!". The following books were introduced:

- Wolf Hall (Hillary Mantel): Neel Shah
- Hooked: How to build a habit forming product (Nir Eyal): Shubhankar Ranade
- Brazil (movie): Ishan Bhanuka

Matrix contributed in the Basant Book Festival (4th to 9th February) by hosting a panel on E-books Vs Printed books and a screening of the short film 'The little Prince'.

"Through the looking glass", a book introduction was held on 22nd February, with the following books being introduced:

- 5 centimetres per seconds (Makoto Shinkai): Piyush Bhatt
- Call me by your name (Andre Aciman) : Saumitra Rai
- 1983(Joshua Long): Sparsh Kasana
- Hellsing Ultimate (Kouta Hirano): R. Thapasvvin

Matrix participated in APOGEE 2019 (21–25th February) under the banner of Papyrus trails, by hosting "The Wheel of Fortune" and a Minimalist Quiz.

Novel Idea, a unique concept where book lovers can buy a box full of books was hosted by Matrix during Apogee.

"Whither", a book introduction, followed shortly on 26th March. This event saw club members introduce books of their choice.

- Start-up Nation (Dan Senior and Saul Singer): Prachi Agrawal
- The Elephant Vanishes (Haruki Murakami): Sailesh Reddy
- No longer human (Osamu Dazai): Sri Raghu Charan Kuchibhotla

"Green Butterflies", a book/manga introduction was held on 6th April. The books and manga introduced were:

- Catch 22 (Joseph Heller): Aastha Shah
- D'Artagnan Romances (Alexander Dumas): Harshit Garg
- Uzumaki (Junji Ito): Samina Raj Mulani

Matrix hosted a panel on the works by author Neil Gaiman, discussing selected works like

- Stardust (novel, 1997)
- The ocean at the end of the lane (novel, 2013)
- Sandman (DC-comics, 1989-present)

The Doctor's wife and The nightmare in silver (Episodes of Doctor Who)

The panelists were Harshit Garg, Aakanksha Kesarwani, Isha Bhorkar and Sanskriti Chitransh.

The club organized The last lecture, which was given by Prof. Surekha Bhanot this semester in which she shared invaluable insights about her life and learning.

The last book introduction of the semester, "Her Last Bow", was held on 25th April. This event was dedicated to the graduating members of the club, as they presented for one last time. Following books were introduced.

- Lost Cat (written by Caroline Paul, illustrated by Wendy MacNaughton): Sanskriti Chitransh

The last activity for the semester was the Valedictory Ceremony which was held on 26th April. We thanked faculty members for their involvement in and support to the club and presented every participant (faculty and club members alike), who had introduced either a book or a film, with a book. This ceremony saw Prof. Sarkar interact with the club as he shared his reading preferences and habits, also touching upon what he believes are the thoughts that (should) go into the whole process.

First Semester 2019-2020

The new academic year started with Matrix screening the film "Annie Hall" on 16th August which was attended by a good number of movie enthusiasts on campus. This event also served to introduce Matrix to the new batch of students. A new approach was undertaken for recruiting fresh members this year, with the prospective recruits being invited to talk on stage about a book or a movie of their choice so as to get a better idea of their abilities and their motivation behind joining the club.

An initiative was taken where an Instagram page for MATRIX was started to update book reviews to give suggestions and increase participation from the students.

Our semester started with "Aaghaz", an introduction where we tried out the concept of theme Introductions, the following introductions were done:

- Identity and Violence: The Illusion of Destiny (Amartya Sen): Saumitra Rai
- Neon Noir: Archit Deshpande
- Assassin's Creed Series: R Thapasvvin

On 4th September, "Barbas" a book introduction was held, which included the following books:

- Sons of Fortune (Jeffrey Archer): Nikhil Devabhaktuni
- The Forest of Enchantments (Chitra Banerjee Divakauri): Jaanvi Agrawal
- Culture: 50 Insights from Mythology (Devdutt Pattanaik): Neel Kaushik Shah

On 17th October, the newly joined members held a Freshers' Introduction named "Dawning" which included the following:

- Brief Answers to Big Questions (Stephen Hawking): Ved Sadnani
- PG Wodehouse: Suchismita
- The Master (Dir. Paul Thomas Anderson): Asish Juttu
- Super Deluxe (Dir. Thiagarajan Kumararaja): Geetansh

"Wabi Sabi", a book introduction, was held on 8th November and saw the following books, series and author being introduced:

- Farewell Waltz (Milan Kundera): Isha Bhorkar
- Karna's wife (Kavita Kane): R Thapasvvin
- Malcolm Fox Detective Series (Ian Rankin): Harshit Garg

- Alistair Maclean: Chiraag Thakur

"Remember Us to Life", a Psenti Book Introduction, was held on 16th November and the following books were being introduced:

- The Etymologicon (Mark Forsyth): Shubhankar Ranade
- A Street Cat Named Bob (James Bowen): Adhitya Mamallan
- Tai-Pan (James Clavell): Neel Kaushik Shah

The club organized "Triathlon", a three- part event consisting of a novel event 'Shipwreck', a treasure hunt and an innovative quiz for Oasis 2019 (19th-23rd October), along with screenings of "Blade Runner 2049" and "Drive".

The club also organized the Last Lecture given by Professor Shan Balasubramanian which was heavily attended by the BITS Professors and students.

The semester concluded with the Valedictory Ceremony, held on 19th November, in which, all the members who had introduced a book were presented with one. We invited the professors who have always supported MATRIX in all our endeavours, namely Professors Surekha Bhanot, Pankaj Kumar Sharma, Paritosh Shukla, Rishikesh Vaidya, Kaushar Vaidya, Sandhya Marathe, Pushp Lata, Devika, Sailaja Nandigama, Sanjiv Kumar Choudhary and Rupam Goswami. It also served as a farewell for our esteemed director, Prof. Ashoke Sarkar. He expressed his thoughts and expectations about the future of the club in a short speech and an interaction with Prof. Kumar Sankar Bhattacharya and the club members followed.

National Talent Search Scheme

The number of National Talent Search Scheme Scholarship holders studying in the Institute during the year in various programmes was as follows:

Admission year	No. of students
I Year	30
II Year	24
III Year	45
IV Year	35
Total	134

NSS

NSS BITS Pilani comprises of enthusiastic and dedicated volunteers who are well- guided by the esteemed professors to help them build sustainable and comprehensive models for the betterment of people in Pilani and nearby villages including Bhaas, Harinagar, Garinda, Ghumansar, Jherli, and Rayla. It aims to inculcate a spirit of service in the volunteers, which will help them in becoming responsible citizens dedicated to the improvement of our nation and the world at large in every aspect.

It also aims to eradicate various stereotypes and malpractices by spreading awareness in villages near Pilani. All the major divisions of NSS: education, health, and awareness play their role in this process to make the country a better place to live. The main motto is to create a better society by helping as many people as possible. A special focus is laid upon women empowerment.

Blood Donation Camp 2019:

The Blood Donation Camp 2019 (BDC 2019) was conducted by NSS, BITS Pilani, along with the help of Indian Red Cross Society, New Delhi. This was the 38th edition of Blood Donation Camp. The camp took place on 2nd and 3rd February 2019. It was a two-day camp which was open from 9AM to 9PM. The Camp was inaugurated by the Vice-Chancellor, Director and various other Faculty members of BITS Pilani on Saturday 2nd February at 9 AM.

The camp saw a total of 748 units collected, along with the footfall of over 1000+, which was a great achievement in itself.

Conferencia de Youth:

With the vision that the it is the people especially the youth who have to safeguard the interests of the nation and of their own, NSS BITS Pilani organized the inaugural edition of "Conferencia de Youth," a youth conference for the social chapters of different colleges spread across Delhi, Jaipur and other cities. The inaugural edition has the theme as 'ROLE OF YOUTH IN NATION BUILDING'. There were about 7 outstation colleges which saw a participation of 48 students for the conference.

The conference had a total of 9 events :

1. **Listen, Talk, Change** – Talk by the honourable Chief Guest Mrs. Medha Patkar.
2. **Masterplan** - Business Plan Presentation on Social Entrepreneurship.
3. **Code-a-thon** - Hackathon to develop technological solution for a social issue.
4. **Educate, Empower** – Teaching school kids in an innovative manner.
5. **Eloquence** - Group Discussion.
6. **Mukhaute** - Street Play on a social cause.
7. **Adhyayan** - Case study competition.
8. **Words of Wisdom** - Talks by the guests of the conference, Mr. Shantanu Gupta and Mr. Nipun Malhotra.
9. **Volunesia** – Work Presentation of the social chapters.

Reopening of NSS School:

With the aim to educate the students residing in Pilani, NSS School began with its normal functioning from 19th August. Students from classes 1st – 12th would be taught subjects like Math and Science to help them score in their desired platforms of examinations.

School aims for the holistic development of the students. For this, Sports Day was organized on January 20th, 2019 where students of School participated in sports like Kho-Kho, Lemon Race, Tug of War, etc.

An annual school recreational event UDAAN was also held on April 7th, 2019, which provided students an opportunity to show their talents in the field of Dance, Drama, Poetry, and Music.

Starting of EPD Classes:

NSS BITS Pilani started English and Personality Development (EPD) classes at NSS School with an aim to help students communicate in proper English from 18th August. The classes are conducted every Saturday and Sunday for students of classes 6-9.

Run for a Cause:

BOSM Marathon was organised in association with FITBITS and Sports Council on 26th August. The main agenda of the run was to introduce the theme for Umang collection 2019 to the general BITSian community and to publicise Umang Collection

It showed enthusiastic participation of NSS volunteers and other students and faculty of BITS Pilani as well. A photo booth was made in order to help publicise Umang Collection.

Posters and a video were also released to maximise the participation of students and faculty.

Adult Initiative:

Health and Public Awareness (HPA) and English Personality Development (EPD) departments of NSS BITS Pilani conduct regular classes for the Adult Initiative, is an initiative which deals with giving basic education to adults who are not acquainted with habits of reading and writing. Volunteers are taking efforts to improve this side of literacy of people in the villages. Continuing with this program, the sessions of this year were aimed at:

- Balanced Diet and it's Advantages
- Obesity and it's causes

Government School Initiative:

The Government School Project at Jherli Government School was inducted for this semester on 19th October. An interactive session with the students was held discussing why to learn English, Importance and Benefits of learning English. The previously taught topics in the last academic year was revised.

Junoon 2019:

Junoon 2k19 was the 8th edition of our annual sporting extravaganza for the specially abled children. This edition saw the participation of over 8 NGOs from Delhi and Rajasthan, along with a participation of over 150 children.

Junoon 2019 had a kick start with the inauguration ceremony held at SAC. The chief guest of this auspicious event, Mr. Girish Sharma was welcomed with a bouquet followed by his speech. Mr. Girish Sharma's motivational speech had a charge of his struggle times and carving out him to what he is today. Ms. Virali Modi glorified the event by her warm words. Later that day, recreational activities were organized for the specially abled kids.

After the thrilling 1st day, the second day started with sporting and athletic events in gym-grounds at 8:00 am. Events like 100m race, 50m race, bocce, shot-put, standing jump were organized for the participants. The kids were given refreshments like bananas, glucose drinks from time to time to keep the energy level intact.

The event was concluded with Junoon Nite, a cultural event for the especially abled. The event was graced by the presence of our chief guest Mr. Girish Sharma, guest of honor, Ms. Virali Modi and officials from management. Ms. Virali Modi, a Ted Talk speaker, gave an inspirational talk to everyone present. Her years of struggle, depth of inspiration, and ability to present the hardships of life in such a smooth way produced one of the most memorable evenings.

Clubs like the music club and poetry club also contributed towards the nite through their superb performances. Without a doubt, the kids were the stars of the show. These kids came up on stage to display their colors of life through various performances like dancing, table playing, singing.

Self Help Group:

Self Help Group is a group of unemployed women of Rayla village who are working together to make bags from old clothes in order to reduce the use of one-time plastic bags, hence contributing for a safe, clean and green environment. Also, through this, we aim to empower the women, and help their social and economic conditions.

The bags produced were then collected and sold among BITSian students and professors, which marked our steps towards a plastic free campus.

Seminar in DK-Baas Govt. School:

On Wednesday 16th October, members of CLP-NSS visited DK Baas Government School to educate the students of grades 11 and 12 on the basics of computers. Topics such as parts of computers, how to open folders, and basics and uses of MS Office were taught. The session concluded with an introduction to our CCC Program. The students seemed to have enjoyed the class and were keen to join the CCC programme.

Lecture on Mental Health:

A lecture cum presentation was done on "Mental health awareness." The audience consisted of around 60-70 students of class 9th. The aim was to help the students understand, accept, embrace and not ignore their mental health.

Mental disorders like generalized anxiety disorder, insomnia, anorexia nervosa, and body dysmorphia were also explained.

Talk with Mr. Rajendra Singh:

Mr. Rajendra Singh, widely known as the Waterman of India, visited BITS Pilani on 24-10-2019 to interact with the volunteers of NSS and Nirmaan, to inform them about their duties towards our Planet Earth. He talked about global warming to be akin to a "fever" of the Earth and hence explained why it is necessary to bring its temperature down to ensure harmful effects don't manifest.

He spoke about how all the technical details that we are taught when pursuing various degrees may be helpful to acquire wealth by exploiting nature but it is also the cause of why we have stopped being concerned with nature's health anymore. By describing the pathetic situation our Earth will soon be in if we continue this "discharging" usage of natural resources. He made it sufficiently clear why it has become so necessary that we start changing our habits and do something for the environment.

He emphasized on the fact that rural problems can't be solved by sitting in metropolitan cities, they need a ground level analysis and a retreat to traditional methods of water conservation. He ended by giving the inspiring slogan "Water is climate, Climate is Water", to exhort a sense of correlation between the problems of climate change and water scarcity.

NSS Oasis Stalls:

NSS Oasis Stalls consisted of two initiatives – Shop For A Smile and Lend Your Voice.

Embraced with the presence of Prof. Navin Singh, Prof. Srikanta Routroy, Dr. Ashish Tiwari and Prof. Chandra Shekhar Oasis NSS Stalls were inaugurated. Professors and Imtiaz had a look over the various products made by NGOs and learned about the cause for which these NGOs work and also recorded audiobooks for the visually impaired.

General Awareness Workshop in NSS School:

NSS BITS Pilani conducted a general awareness workshop on topics that everyone should be enlightened about.

Children were made aware of the horrendous consequences of using 'Single-use Plastics' and amplifying problem of 'Water scarcity'. The workshop also emphasized on 'Bridging the gender gap' in the minds of the future of New India.

A special session was organised for the girls of Classes 6th to 10th which focused on creating awareness regarding 'Menstrual cycle and hygiene'.

Health Camp Conducted in Garinda:

NSS BITS Pilani organized a health camp on 17th November 2019 at the Government School, Garinda. Dr. Rajiv Gupta, the general physician at Medical Centre, BITS Pilani, was present there to conduct a free check-up of the villagers.

Their Body Mass Index, Blood Pressure and, if required, sugar levels were checked. Those with some ailments were given the necessary medications free of cost. Not only this, a google form was filled for every patient to know about their medical history, diseases prevalent in their family and their consumption of alcohol and tobacco.

Workshop for Teachers:

On 17th November, NSS BITS PILANI in collaboration with Department of Humanities and Social sciences organized a workshop on Teaching Methodology for teachers of schools nearby Pilani.

The workshop was conducted by Prof. Devika. The workshop aimed to analyze modern time teaching problems and what is a solution for the same. The aim was how to implement new teaching techniques so that they can improve the output of the students. The session was interactive and activities were conducted to ensure teachers participate in the session actively.

Counselling Sessions in nearby schools:

On 11th and 13th November, volunteers of NSS BITS PILANI conducted a counseling session for students of class 9th to 12th in various schools in and around Pilani like the Vashishta Pathak School, Padia School, and Goenka School. Volunteers aimed to motivate students to study.

The sessions were aimed at guiding the students and showing them a path towards a bright future. It focused on making their base strong to help them prevail in this competitive world. Tips related to time management, stress management, and study techniques were also shared. The sessions were concluded with general doubt clearing sessions. It was made sure that the students take back the maximum from these sessions and incorporate the tips in their lives.

Government School Initiative:

Continuing with its vision of redefining computer literacy on rural grounds, CLP, NSS BITS Pilani started its Government School initiative in Ghumansar Government School. It aims to build a strong foundation for Computer Learning among children. This initiative will start in the coming month of September.

Through this initiative, we hope to successfully impart computer knowledge to these zealous children.

Children's Day Celebration:

NSS School Team organised Children's Day celebrations at NSS Building. On the wintery evening of Pilani, the atmosphere was filled with the warmth of joy and happiness, which glittered on the faces of kids. Interactive and engaging activities far from the daily academic curriculum were organised and planned by first year students of NSS School.

The festivity ended with the distribution of goodies for the kids. It also turned into a good occasion where we were able to share the culture of Assam under "Ek Bharat Shreshth Bharat."

Publicity Drive for Course on Computer Concepts:

In August 2019, CLP-NSS BITS Pilani along with its new recruits visited the nearby villages of Hanumantapura and Khedla for publicizing the CCC (Course on Computer Concepts) program, as well as to conduct a survey for the upcoming NCS(Naari Computer Shiksha) program.

Pamphlets distribution and door-to-door publicity was done during the drive.

Republic Day Celebration in Harinagar:

Republic Day celebration on 26th January began with a speech by NSS volunteers. Their speeches explained the importance of the constitution to the students of the school. Students were acquainted with a short clip on parades held in Delhi on Republic Day. Clothes were distributed among the students by NSS volunteers.

Health Camp in Rayla:

Health Camp was conducted in Rayla to provide free check-ups and free medication to the villagers. Health problems were looked after by the doctors Dr R.P. Pareek and Dr. Mukesh Saini. Glucometer was also available to check sugar levels of the blood. The camp was held for 3 hours on 27th January, 2019. 122 people were successful provided this service. Doctors also gave a lecture on health and hygiene. They also suggested good hygiene habits to the villagers. Clothes were also distributed to the needful adults simultaneously.

Computer Literacy Workshop on Scratch:

To redefine the way students, think of coding and its applications, NSS BITS Pilani, conducted a workshop on the use of Scratch. The aim of the workshop was to teach them how to logically approach a problem, solving step by step. Scratch according to experts is one of the most befitting ways to introduce anyone to the world of programming. It helps to visualize different programming concepts in an effortless and effective way.

Lecture Series in Village:

Lecture series is an initiative taken by NSS volunteers to create public awareness in villages. In the month of February, the lecture was conducted on "Good touch, bad touch" and "Bullying". This helped students to understand the difference between good touch and bad touch. Students also conducted question and answer session after delivering the lecture.

Seminar on MS PowerPoint:

To be able to impart what you have is the kindest thing you can do. NSS, BITS PILANI, conducted a seminar on PowerPoint Presentation. The aim of the seminar was to make students aware of the basic options available in PowerPoint and being able to use as per their requirement. The seminar was conducted on 28th February, for the students of Class 8th. The students were first explained about the features of PowerPoint and given a demo on how to use them simultaneously.

Scheme Portal:

NSS BITS Pilani organized a Portal session in Bhaas in which we invited people from different age, income, group, and gender to try the portal. 27 People successfully tried out the portal, and the working of the portal was

recorded along with the user's feedback. Despite some Internet connectivity issues and other small technical issues, we were able to try out the portal and gather data.

Visit to Government School of Garinda: Volunteers of the Health and Public Awareness department of NSS visited the Government School of Garinda, and conducted a seminar on the topic of "Health and Cleanliness" for the students of classes 6th – 8th.

NIRMAAN

Nirmaan is a constructive citizen movement for an empowered India, thereby making the world a better place to live in. Nirmaan has grown into a full-fledged organization with many chapters across the country. Nirmaan was founded on 12th February 2005 by a group of BITS-Pilani University students with a passion for humanity and to fulfill our responsibility towards our underprivileged brothers & sisters.

NIRMAAN PILANI

Nirmaan Pilani currently has more than 120 dedicated student volunteers working in the villages of Rajasthan to provide better educational and employment opportunities for the poor and the marginalized rural population.

Several projects are being undertaken in the field of education: Disha, Gyan Bodh, School Adoption Program (SAP), Shiksha Ki Ore (SKO) and Utkarsh.

Unnati-1 and Unnati-2 are the exclusive projects undertaken in the area of women empowerment through self-employment in 2 different regions of Baas village.

Participatory Community Development (PCD) aims to understand the community and identify local leaders who will take up the work of developing their villages.

VOCATIONAL TRAINING PROJECTS

Vocational Training Projects focus on creating a platform for rural women in Baas to earn a livelihood by forming a self-sustainable group, which prepares products and markets them.

SEMESTER 1 (2019-20)

- There was an increase in the number of beneficiaries. More women have shown interest and have learned stitching shirts and petticoats. These efforts have brought a significant increase in the sales of pads compared to last year, i.e. around 150 packs of sanitary pads were sold. The increased sales also have led the project to maintain a more documented and organized structure for accounting the earnings of each woman.
- In another center, women were trained for making earrings and mementos. The earrings and Diyas were sold at the Nirmaan Stall at OASIS 2018.
- In collaboration with B.S.K. Kaushal Kendra, a new center is opened in Ghodela near Bhagat Singh Circle, where proper training is given to our beneficiaries in the presence of trained tailors and craftsmen. New products such as wanderwaans, earphones pouches, and envelopes were made and put on oasis stall.

SEMESTER 2 (2018-19)

- A new beautician vocational training center (VTC) has been set up in one of the centers and the syllabus would be completed by 6th of May. 16 cloth bags and 18 earphone pouches were made by our beneficiaries for the interface test. Cloth bags were also made for PCD (Participatory Community Development) project and delivered. As soon as this VTC gets over another one will be set up in the next semester.
- Whereas in another center the work was started on selling products on Amazon and the selling of products would take place from next semester. Women were taught basic counting, English words and sentences, arithmetic calculations and to read inch tapes.
- Flags were made by both the Unnati projects on the eve of Republic Day.

EDUCATION PROJECTS

Educational projects focus primarily on the upliftment of various communities in Pilani like Baas, Court Basti, Nat Basti by spreading awareness about the importance of education as well as helping them with their academic curriculum and all-round development.

SEMESTER 1 (2019-20)

- Counseling of parents was done in Court Basti in order to generate awareness about the importance of their child's education. It bore the desired results as parents themselves started sending their kids to the center.
- In Nat Basti, the entire community was made aware of SWACHH BHARAT ABHIYAN under which cleanliness drive and rally was organized. Also, public dustbin and toilets were installed in the base.
- English Learning Program (ELP) and Computer Learning Program (CLP) were conducted throughout the year and art and craft classes were also provided to the students to improve their all-round development. Introduction of Soft Skill Development as a new program in our government school in BAAS.
- Evening classes for students preparing for Navodaya were organized and mock tests were given. And 3 students were registered for the entrance exam. The occupied room of school is cleaned for a new classroom and the roof construction work is in progress.
- Scholarships worth 3.4 lakhs were provided to 52 meritorious and needy students between 6th to 12th-grade students from several schools like Saboo School (1.6 lakhs- 26 students), Bal-Niketan (60K-10

students), Kids Garden (1.2 lacs- 16 students) and these students were provided mentorship to all these students for their scholastic as well as holistic development.

- A major test was conducted throughout the semester and the progress report of each child was maintained. A dustbin was installed by the team in Basti. Bonding sessions were conducted and mela visit was conducted after the first test. The syllabus had been prepared according to the academic level of the student. Regular visits were made to the schools to ensure the attendance of students as school dropouts is a common issue.
- Festivals like Independence Day, Diwali, RakshaBandhan were celebrated with the kids, they were taken to visit the Pilanimela and were also brought inside the campus on Teacher's Day as a part of Joy of Teaching event where other people from the campus were given an opportunity to interact with the kids.
- Career Counselling Sessions were conducted in different schools and magazine was published to assist schools and make sure a hard copy of the information is also available.

SEMESTER 2 (2018-19)

- In Court Basti, the room renovation work was completed. Makara Sankranti was celebrated with the people of the Basti. Books were distributed to the kids. Owing to less no. of kids in the Basti we have tried to expand our project to other Basti which would be functional from next semester.
- From Nat Basti 3 kids were admitted to private schools under the RTE scheme. Regarding child marriage issue in the Basti an Anganwadi and an NGO was contacted and the Chief Security Officer (CSO) also visited the Basti for the same. A cleanliness drive was also organized in the Basti along with making Wall paintings and posters. Events such as Makara Sankranti, Republic day and Annual Day were celebrated with the kids of the Basti. Uniforms and books have been distributed among the kids in collaboration with Unnati 2 and teachings for Navodaya has also been started along with the English Learning Program (ELP).
- We successfully conducted a Health Camp for over 100 students in our Hanumantpura Government school. A proper drainage system was also constructed in the school. Proper study materials were followed for English Learning Programme (ELP), Computer Learning Programme (CLP) & Navodaya.
- Makar Sankranti & Republic Day and Annual Day were celebrated with the kids of Baas village. A visit to MELA was organized for the kids. Workshops on advancement in science & technology, flu and its prevention & menstrual health and awareness were conducted during the semester.
- Apart from giving scholarships of nearly 3.4 lakhs, we also finished the work of adopting a new school KR Memorial under our program. We also conducted our first group mentorship session on general topics like time management, addiction and career options in collaboration with Project Disha.
- Information and motivation sessions were conducted in HemantAcademy, Sabu and Kids garden. Specific mentorship was provided to over 15 students of class 9th and 10th of HemantAcademy. Career counseling session on one to one basis was also organized in Hemantacademy along with a poster making competition among the students.

PARTICIPATORY COMMUNITY DEVELOPMENT

SEMESTER 1 (2019-20)

- A plantation drive was organized in Khel Maidan for awareness towards environment and cleanliness. Around 30 trees saplings were planted along the Maidan boundary. A newspaper article was published regarding this event.
- A sports extravaganza was organized on 2nd September in Pooja Ground, BITS Pilani. It was a COSAACan approved pre BOSM event. More than 60 students from project SAP, SKO, GB BAAS participated. The main objective was to promote sport among the beneficiaries of Nirmaan for the overall growth. Around 10 gold, 10 silver, and 20 bronze medals were awarded participation certificates to everyone, provided by the health council. Prof in charge AshishTiwari and chief warden Prof Navin Singh were present and they awarded the medals.

SEMESTER 2 (2018-19)

- Successful seminars on women empowerment have been conducted.
- Solar lights have been purchased and will be installed.
- Planning about rainwater harvesting is done and would be put into action with the construction to follow.
- For toilet construction houses have been selected with BPL cards.
- Cloth bags have been made and would be distributed among the people in collaboration with Unnati.

YOUTH EMPLOYMENT

SEMESTER 1 (2019-2020)

The youth employment project has been functional from this semester. Currently, the main aim of the project was to look for potential working domains in which the local people of the Pilani are interested in working in and require our assistance. After conducting a survey, we have finalized three programs that will be run in this project. These programs will train the interested individuals in Hotel Management, Computer Learning and Army.

EVENTS**SEMESTER 1 (2019-20)****1. JOY OF GIVING WEEK**

The Joy of Giving Week is BITS Pilani's own "festival of giving" that aims to bring together BITSians through different acts of giving such as -money, time, skills or resources. JOY OF GIVING WEEK was organized from 4th to 10th of September, 2019. Following are the events conducted:

"Inauguration"

It was held at 6:30 pm on the 4th of September at BITS NAB Audi. The stage was adorned by our chief guest Mr. SharadVivekSagar, who unfolded his life journey. He addressed the crowd with his very enchanting and motivating words. With his moving and enlightening words, the spirit of JOGW was lit in the campus.

"Joy of Serving"

A fun event wherein the mess workers and the students interchanged roles and various activities were conducted for the mess workers such as singing and speeches. Faculty members and Nirmaan volunteers served food to the mess workers in the VKB mess.

"Faculty matches"

Separate matches for males and females were conducted. They saw zeal and enthusiasm from both the players as well as the audience.

"Day at BITS"

An opportunity for every BITSian and faculty member to come, visit and volunteer for projects that are run throughout the semester. They can contribute anything special dedicated to the betterment of that project within that on hour. It saw a great response from the BITSians with various resources being donated to the beneficiaries and them taking an active part in the discussions with them.

"Day of Joy"

A day of joy when we get kids from Baas and Natbasti to the campus and give them a taste of BITSian life. Various fun activities were planned for the kids and their smiling faces were an indicator of our success!

"Day for Women"

This event was exclusively conducted for the UNNATI beneficiaries with the day being dedicated to the women. It marked great enthusiasm from both faculty members and volunteers wherein fun activities were organized and goodies were distributed to everyone.

"Joy of Teaching"

The joy of teaching is eternal. In this event, kids from Court Basti and Baas villages were taken to different locations such as the BITS library, Sky Lawns, and Gandhi Statue wherein BITSians, Ph.D. scholars and Professors were invited to give small lessons to the kids.

"Night of Joy"

This event marked an end to the week-long festivities under the name 'JOGW'. Snacks, sweets and tea were distributed amongst the security guards within the campus.

The motive of this event is simple- expressing our gratitude towards their yearlong hard work by being their source of comfort for a day.

2. EYE CHECKUP CAMP

Nirmaan Organization, BITS Pilani, in collaboration with SSMS, Aditya caterers and Blue Chip hospitality, conducted a free eye check-up camp for SSMS workers and the members of their family. It was held in the Student Activity Centre on 30th September, Sunday. This initiative was spearheaded by Dr. Pramod Kumar Sehgal with the able support of our respected trustee- Mr. ArunJiSinghi. The event was inaugurated by our Honorable Director, Professor Ashoke Kumar Sarkar. The camp was also graced by the presence of professors Prof. Sangeeta Sharma, Dr. Ashish Tiwari, Prof. SK Verma, Dr. Jola Dubey (please check the names of the faculty present).

Basic optical tests were performed under the supervision of the doctors. The event was a success, with 214 registrations- 92 of whom were prescribed spectacles and 42 were referred to the hospital for proper checkup.

3.TREE PLANTATION DRIVE IN BAAS VILLAGE

Volunteers of PARTICIPATORY COMMUNITY DEVELOPMENT organized a plantation drive in KhelMaidan for awareness towards environment and cleanliness. Around 30 trees saplings were planted along the Maidan boundary. A newspaper article was published regarding this event.

4. FESTIVAL CELEBRATION

Volunteers have celebrated festivals with the people of Nat-Basti, Court-Basti, and Baas village; Janmashtami, Diwali, RakshaBandhan, etc. were celebrated with full joy and enthusiasm.

5. KADAM

Volunteers of PARTICIPATORY COMMUNITY DEVELOPMENT organized sports extravaganza on 2nd September in Pooja Ground, BITS Pilani. It was a COSTAACAn approved pre BOSM event. More than 60 students from project SAP, SKO, GB BAAS participated. The main objective was to promote sport among the beneficiaries of Nirmaan for the overall growth. Around 10 gold, 10 silver, and 20 bronze medals were awarded participation certificates to everyone, provided by the health council. Professor in charge Dr. Ashish Tiwari and Chief Warden Prof. Navin Singh were present and they awarded the medals.

6. OASIS 2019

Food Challenge and Unnati Stalls:

During Oasis 2k19, Nirmaan had set up a food stall conducting a Golgappa challenge along with Unnanti products like diyas, earphone pouches, laptop sleeves were there for sale. Food challenge received around Rs.74240 as revenue.

Peace Wall:

The idea of Peace Wall which was introduced last year was continued this year too with writings dedicated to acid attack survivors and the messages were delivered to Sheroes Cafe, Agra which is a food outlet run entirely by acid attack victims.

7. SCIENCE WORKSHOP

It has been estimated that 11 percent of what we learn is through hearing and 83 percent through sight. Demonstrating facts through visual aids increases the interest of listeners.

Therefore, to inculcate the interest of students towards science, GB Baas under Nirmaan organized a workshop for rural children on 21st September at Shahi International school.

The event saw a series of events starting from the introduction and historical discovery of fire and wheel: the two very important commodities for human beings.

Practical applications were elaborated through demonstrations via handy objects and animation videos. The curiosity of students was stimulated by raising questions to them. Students had a thorough understanding and developed an approach towards scientific thinking.

ACHIEVEMENTS:

Cleanliness Drive:

Shiksha Ki Ore (SKO) successfully conducted a Cleanliness Drive at the NattBasti from 9th to 13th October 2019.

On Day 1 (October 9), we conveyed Mahatma Gandhi's vision for a clean India to the children at the inauguration of the Drive-by delivering a speech to them explaining the importance and necessity of cleanliness. As part of the inauguration, the study area at the Basti was cleaned by the project volunteers along with our beneficiaries. Day 2(October 10), was targeted at improving personal hygiene standards among the kids and they were taught the importance of washing their hands and keeping their nails neat and trimmed at all times.

Days 3 and 4 (October 11 and 12) were respectively used up in familiarizing the kids with various methods of first aid including the immediate response to snake bites, insect bites and skin burns and the meaning of the three R's (Reduce, Reuse, and Recycle) along with having them make pen stands from used plastic bottles.

Finally, the 5-day long Cleanliness Drive was concluded on October 13 with a musical performance and skit put up by the volunteers in association with the Hindi Drama Club in college. The occasion was graced by the presence of our Professor Sangeeta Sharma.

SEMESTER 2 (2018-19)

8. WOMEN EMPOWERMENT SEMINAR

On 10th Feb, on occasion, Basant Panchami, PARTICIPATORY COMMUNITY DEVELOPMENT (PCD) organized a women empowerment seminar by Prof. Sangeeta Sharma ma'am for the women of Baas village. The event started with a puja at Saraswati temple followed by a general tour of the BITS campus. Issues like health and food habits, employment opportunities, savings and utilization of earning, Importance of education for their kids, etc. were discussed in the seminar.

9. MAKAR SANKRANTI CELEBRATION:

Celebrating festivals with the community always leads to the strengthening of the bond that we share. This Makar Sankranti projects like GB Baas, SKO and GBCB celebrated the festival of kites with their student beneficiaries in the respective Basties. It was concluded by sweets being distributed by NIRMAAN.

10. CERTIFICATE DISTRIBUTION CEREMONY:

On 20th Jan, we celebrated the concluding ceremony of our 4 months' "Vocational Training Centre" program by distributing certificates of participation to all the participants who successfully completed the training and passed the stitching exam taken by the trainer. We celebrated the enthusiasm of those 25 women in the event which was organised in Kids Garden School.

11. REPUBLIC DAY CELEBRATION:

Project SKO celebrated the 70th Republic Day in Natbasti with its beneficiaries. Various short films and videos were shown to the kids to make them realize the importance of the day and the significance it holds in our nation's history.

SAP celebrated the day by organizing activities like quizzes, tug of war, lemon and spoon race for their beneficiaries and winners were rewarded with copies and pens.

GB Baas used this opportunity to educate the kids about the constitution and the rights it offers to every Indian citizen.

12. ANNUAL DAY CELEBRATION:

Project SKO celebrated the Annual function on 3rd Feb this semester with the theme "Stop Child Marriage". Dances, speeches, poem recitation, etc. were organized and prizes were distributed by honorable chief guests, Dr. Ashish Tiwari and Dr. Meghna Tare. It was followed by the Hindi Drama Club, BITS Pilani performing a skit on child marriage.

13. FLU AWARENESS WORKSHOP:

Topsy-turvy weather is often accompanied by a malaise commonly known as Flu. As the nasty disease was spreading across the state, Nirmaan Organization took up the responsibility of creating awareness among the locals of Khedlaka Baas village. Dr. R.P. Pareek, Physician at BITS Medical Center was invited to give a lecture on 'Flu and ways to prevent it'. Around 40 kids and a few women attended the talk. The talk ended with the distribution of napkins among the kids and women.

14. HOMEOPATHIC HEALTH CAMP:

A Homeopathic Health Camp was conducted in the government school, Hanumatpura on 23rd February. More than 100 students went through a full-body check-up which included- BMI, Chest circumference, eye-sight check and hygiene score. Menstruation awareness was also done for the girls of classes 6th, 7th and 8th. Homeopathic medicines were provided as per requirement.

15. OLD CLOTHES DONATION DRIVE:

In association with Students Union, BITS Pilani, Nirmaan distributed sweatshirts in Nat Basti to the families whose kids were regular in studies.

16. APOGEE 2019:

1. 'Hogathon' was a pasta food challenge event organized with a motive of attracting the crowd to the stall and educating them about the work done by Nirmaan.

2. **Design thinking workshop** was a workshop conducted by Mr. Anil Pradhan, founder of International Public School for Rural Innovation. In this workshop, he talked about his own journey and the impact he is creating through the innovation school in Odisha. He displayed many innovative ideas he came up with to tackle various issues faced by villagers and how he engages the kids of his village in completing these projects.

3. '**Senior Retreat**' aimed to reach the senior citizens who are compelled to stay in old age homes and their children. The messages from BITSians, participants, and professors were telecasted on television, radio, YouTube along with print media.

17. SORAD 2019:

Save One Rupee A Day (SORAD) is the charity fundraising campaign by NirmaanPilani. The fund collected in SORAD is used to meet the expenses of all the projects. This time Mess signings were conducted in all the messes of the Pilani campus. It was successfully completed with more than 1300 signings.

18. POSTER MAKING COMPETITION:

Project Disha organized a poster making competition in Hemant Academy on the topic- "Pollution and awareness" keeping in line with the issues being faced by all parts of the world. Winners were awarded certificates and gifts.

19. CERTIFICATE DISTRIBUTION CEREMONY:

On 11th May, we celebrated the concluding ceremony of the Beautician training program conducted by project UNNATI. In this program, certificates were awarded to around 30 women who have been regular to the center.

20. MENSTRUAL HEALTH AWARENESS PROGRAM:

Nirmaan Organisation organized a workshop on 'Menstrual Health Awareness' on 4th April in collaboration with Nine Foundation. The workshop was conducted by Dr. Sujata Naidu, Operations Head, Nine foundation. Women were educated about the importance of a proper diet, yoga and exercises, hygiene and use of sanitary napkins during menstruation, with the help of proper charts.

The first session was conducted at SAC (Students' Activities Centre) in the BITS Pilani campus for all the female workers on the campus. Mrs. Tamali Bhattacharya (Wife of Honourable Vice-Chancellor BITS Pilani), Dr. SurekhaBhanot, Dr. KausharVaidya and Dr. SailajaNandigama attended the session. The second session was conducted at Shahi School of Baas Village for women and girls of the village. Around 100 women and girls attended the workshop. The guest of honor in this workshop was Mrs. Rakhi Sarkar, wife of Honourable Director of Pilani Campus. Both the workshops were followed by the distribution of free sanitary pads to the women.

Alumni Scholarships

BITS Alumni have instituted several merit-cum-means scholarships. For the First Semester 2018-2019 and Second Semester 2018-2019 the scholarships were awarded to the following students.

Scholarship	I Semester 2018-2019	II Semester 2018-2019
Vamsi Pendyala and Prasanna Kalahasthi Memorial Scholarship	Bhavesk Kumar Tekwani ID No.2017A3PS0338P	Subham Kumar Dash ID No.2017A7PS0004P
S.S. Seshadri Memorial Scholarship	Akshika Goel ID No.2016B5A70672P	Gupta Aditya Ajay ID No.2016A3PS0132P
Ramesh D Grover Memorial CMS Computer Scholarships	Gundewar Akshay Amol ID No.2018A7PS0240P	Madhav Sikka ID No.2018A7PS0243P
	Heena ID No.2018A7PS0160P	Avisha Gupta ID No.2018B3A70105P
V & Kamla Krishnamurthy Scholarships	Navaneeth Raghunath ID No.2018A7PS0185P	Akshay Singhal ID No.2018B3A70635P
	Akshay Singhal ID No.2018B1PS0635P	Navaneeth Raghunath ID No.2018A7PS0185P
	Punit Lohia ID No.2018B3PS0766P	Pranjal Singh Chauhan ID No. 2018A7PS0288P
	Vishal Dixit ID No.2018B5PS1037P	Punit Lohia ID No.2018B3A70766P
	Bikash Jena ID No.2018A7PS0181P	Vishal Dixit ID No.2018B5PS1037P
	Pranjal Singh Chauhan ID No.2018A7PS0288P	Bikash Jena ID No.2018A7PS0181P
	Rishiraj Acharyya ID No.2018A7PS0168P	Lakshit Mittal ID No.2018A4PS1033P
BITSIAN Day Scholarship	Ishita Das ID No.2018A5PS0982P	Aditi Singh ID No.2018B5A40700P
	Chirag Singhal ID No.2018A7PS0219P	Chirag Singhal ID No.2018A7PS0219P
BITS 1986 Batch Scholarship	Rishika Jain ID No.2018B1PS0302P	Rishika Jain ID No.2018B1PS0302P
	Amulya Dwivedi ID No.2018B5PS0035P	Prasun Anand ID No.2018A5PS1002P
1988 Batch Scholarship	Vaibhav Jindal ID No.2018A3PS0338P	Avish Goel ID No.2018A1PS0734P
	Archika Gupta ID No.2018B2PS0083P	Prachi Jha ID No.2018A5PS1001P
	Varnam Sreeja ID No. 2018A7PS0155P	Sanskriti Jindal ID No.2018B4A40486P
	Siddhant Khandelwal ID No.2017A7PS0127P	Govind Singh ID No.2017A4PS0554P
Rakesh Chandra Scholarship	Nitya Mangal ID No.2018A7PS0216P	Khushboo Kumari ID No.2017A7PS0012P
	Khushboo Kumari ID No. 2017A7PS0012P	Nitya Mangal ID No. 2018A7PS0216P
	Mansi Bansal ID No. 2016A2PS0471P	Ayushi Agarwal ID No. 2015A1PS712P
	Ayushi Agarwal ID No. 2015A1PS0712P	Mansi Bansal ID No. 2016A2PS471P
Dr. S.K. Agarwal Scholarship	Lakshit Mittal ID No.2018A4PS1033P	Bhavya Bhatia ID No.2018A4PS0846P
M.R. Dalmitya Scholarship	Prateek Meliwal ID No.2017B3A30484P	Ashish Jayant Prabhune ID No.2017A7PS0231P
	Manasvi Agarwal ID No.2017A8PS0542P	Shruti Kumari ID No.2017B2A11052P
Divya-Dileepan Scholarship	Prakhar Srivastava ID No. 2015B3A70834P	Prakhar Srivastava ID No.2015B1PS0834
Sharman's Family Scholarship	Prashant Tak ID No.2018B4PS1050P	Priyank Singhal ID No.2018B2A40652P
	Kaushley Mehra ID No.2018B2PS0641P	Dhananjay Ojha ID No.2018B5A20132P

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DETAILS OF ADMISSIONS MADE DURING THE YEAR 2019

(A) Second Semester 2018-2019

Doctoral Programmes

Ph.D.	56 (20)
Total	56 (20)

(B) First Semester 2019-2020

PROGRAMMES	No. of students joined	BITSAT Cut-off scores	
		Highest	Lowest
1. Integrated First Degree Programmes			
<u>Group A</u>			
B.E.			
Chemical	73(11)	335	282
Civil	72(9)	333	269
EEE	116(13)	382	341
Mechanical	101(1)	385	313
B. Pharm.	46(25)	326	195
Computer Science	143(9)	439	383
Electronics & Instrumentation	71(5)	374	328
Manufacturing	38(3)	313	255
	660 (76)		
<u>Group B</u>			
M.Sc.			
Biological Sciences	72(14)	314	265
Chemistry	76(17)	305	269
Economics	85(6)	382	315
Mathematics	76(8)	370	297
Physics	76(6)	336	290
	385(51)		
<u>Group C</u>			
M.Sc.			
Gen. Studies	14(7)		
	14(7)		
Total :	1059(134)		

Note:

- (i) The above list consists of 15 students who are First rank holders from different central/ state boards admitted under 'direct admission of board toppers' scheme.
- (ii) The above list consists of 24(5) students who are admitted under 'International students admissions' at Pilani.
- (iii) The above numbers also include 31 admissions of staff children(26) and of BET school students(5), made under special dispensation consisting of 3 in Chemistry, 6 in Economics, 4 in Mathematics, 4 in Physics and 14 in General Studies.

2. Higher Degree Programmes :

M.E.	
Biotechnology	22(19)
Chemical Engineering	18(05)
Civil (Structural Engineering)	23(03)
Civil (Transportation Engineering)	15(03)
Civil (Infrastructure Engineering)	13(02)
Computer Science	26(05)
Communication Engineering	21(07)
Design Engineering	25(01)
Embedded Systems	13(05)
Manufacturing Systems Engineering	15(01)
Mechanical Engineering	18(00)
Microelectronics	27(05)
Software Systems	31(05)
MBA	68(24)
M.Pharm.	13(08)
M.Pharm. (Pharmaceutics)	20(12)
M.Pharm. (Pharmaceutical Chemistry)	14(06)
Total	382(111)

3. Doctoral Programmes :

Ph.D.	69(32)
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SUMMARY

	II Semester 2018-2019	I Semester 2019-2020
Programmes		
Integrated First Degree Programmes	-	1059(134)
Higher Degree Programmes	-	382(111)
Doctoral Programmes	56(20)	69(32)
Total	56(20)	1510(277)

**STATEMENT SHOWING THE NUMBER OF CANDIDATES WHO HAVE BEEN PERMITTED IN
THE ACADEMIC YEAR 2019-2020 TO PURSUE VARIOUS DUAL DEGREE PROGRAMMES
UNDER VARIOUS PRIORITIES**

FIRST PRIORITY

(i) Pilani Campus:

FIRST PRIORITY

(From Group 'B' to Group 'A' Programmes)

Programmes* From ↓ To →	A1	A2	A3	A4	A5	A7	A8	AB	Total
B1	12	10	10	14	-	7	6	09	68
B2	10	11	10	13	-	12	09	01	66
B3	05	04	17	10	-	28	06	03	73
B4	08	04	13	09	-	19	17	05	75
B5	05	05	17	14	-	20	08	03	72
Total	40	34	67	60	-	86	46	21	354

OTHER PRIORITIES

Programmes* From ↓ To →	B4	Total
A8	01	01
Total	01	01

Transfer within same tier

Programmes* From ↓ To →	A4	A7	A8	Total
A1	-	-	2	2
A3	-	4	-	4
AB	1	-	-	1
B5	1	-	-	1
Total	2	4	2	8

Transfer within B to B

Programmes* From ↓ To →	B1	B3	B4	B5	Total
B1	-	1	1	-	2
B2	2	1	5	1	9
B4	1	1	-	-	2
B5	3	1	3	-	7
Total	6	4	9	1	20

(ii) Vertical Transfers:

From	To	No. of Students
B.E. Manufacturing Engineering	M.E. Software Systems	1
B.E. Civil	M.E. Software Systems	1
B.E. Electrical & Electronics	M.E. Computer Science	1
M.E Chemical	Ph.D. Chemical	1
Total		4

Minor Programmes: During the Academic year 2019-20, 183 students were admitted in Minor Programme, out of them 110 in Finance, 61 in Data Science, 7 in Physics, 4 in Philosophy, Economics and Politics and 1 Film and Media.

NUMBER OF STUDENTS REGISTERED IN FIRST SEMESTER 2019-2020

Programme	Year of Admission						Total
	2014 and earlier	2015	2016	2017	2018	2019	
I. On Campus Programmes							
A. Integrated First Degree Programmes							
B.E. (Hons.)							
Chemical	1(0)	4(0)	64(11)	76(14)	70(13)	70(10)	285(48)
Civil	0(0)	3(1)	66(3)	77(4)	70(6)	69(8)	285(22)
E.E.E.	0(0)	1(0)	101(13)	114(9)	109(8)	115(13)	440(43)
Mechanical	1(0)	2(0)	91(5)	91(1)	100(1)	97(1)	382(8)
Computer Science	1(0)	4(0)	123(13)	152(12)	147(10)	143(9)	570(44)
Electronics & Instrumentation	1(0)	1(0)	64(10)	69(13)	75(6)	68(5)	278(34)
Manufacturing Engg.	1(0)	2(0)	32(4)	32(6)	33(5)	38(1)	138(16)
B.Pharm. (Hons.)	0(0)	1(0)	49(22)	39(20)	39(14)	43(25)	171(81)
M.Sc. (Hons.)							
Bio. Sciences	3(0)	42(5)	55(7)	49(14)	74(17)	72(13)	295(56)
Chemistry	3(0)	48(9)	65(10)	71(14)	57(13)	72(14)	316(60)
Economics	1(0)	65(7)	70(10)	90(15)	82(16)	85(6)	393(54)
Mathematics	9(1)	53(4)	69(9)	90(12)	85(14)	77(7)	383(47)
Physics	3(0)	47(5)	68(10)	75(14)	74(8)	76(8)	343(45)
M.Sc.(Tech.)							
Information Systems	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Gen. Studies	0(0)	2(0)	14(3)	6(3)	8(5)	14(7)	44(18)
Finance	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Sub Total	24(1)	275(31)	931(130)	1031(151)	1023(136)	1039(127)	4323(576)

Note: The numbers in brackets indicate number of female students

Programme	Year of Admission						Total
	2014 and earlier	2015	2016	2017	2018	2019	
B. Higher Degree Programmes							
M.E.							
Chemical	0(0)	0(0)	0(0)	0(0)	8(3)	18(5)	26(8)
Computer Science	1(0)	1(0)	0(0)	0(0)	17(5)	26(5)	45(10)
Mechanical	1(0)	0(0)	0(0)	0(0)	18(1)	19(0)	38(1)
Software Systems	3(0)	2(0)	0(0)	1(0)	29(9)	31(5)	66(14)
Microelectronics	0(0)	0(0)	0(0)	1(1)	26(5)	27(5)	54(11)
Communication Engineering	0(0)	0(0)	1(0)	0(0)	22(7)	21(7)	44(14)
Biotechnology	0(0)	0(0)	0(0)	0(0)	20(17)	22(19)	42(36)
Embedded Systems	2(0)	0(0)	0(0)	0(0)	15(5)	13(5)	30(10)
Design Engineering	0(0)	0(0)	0(0)	0(0)	19(1)	25(1)	44(2)
Manufacturing Sys.Engg	0(0)	0(0)	0(0)	0(0)	15(0)	15(1)	30(1)
Civil with Specialisation in Transportation Engg.	2(0)	0(0)	0(0)	0(0)	17(3)	15(3)	34(6)
Civil with Specialisation in Structural Engg.	0(0)	0(0)	0(0)	0(0)	21(3)	22(2)	43(5)
Civil with Specialisation in Infrastructural Systems	0(0)	0(0)	0(0)	0(0)	9(2)	13(2)	22(4)
Master of Business Administration	0(0)	0(0)	0(0)	0(0)	58(16)	68(24)	126(40)
M.Pharm	0(0)	0(0)	0(0)	0(0)	12(7)	12(8)	24(15)
M.Pharm. (with Specializations in Pharmaceutics Chemistry)	0(0)	0(0)	0(0)	0(0)	6(1)	14(6)	20(7)
M.Pharm. (with Specializations in Pharmaceutics)	0(0)	0(0)	0(0)	0(0)	11(7)	20(12)	31(19)
Sub Total	9(0)	3(0)	1(0)	2(1)	323(92)	381(110)	719(203)
C. Ph.D.	57(27)	35(12)	48(19)	84(36)	103(27)	69(33)	396(154)
Total (On-Campus)	90(28)	313(43)	980(149)	1117(188)	1449(255)	1489(270)	5438(933)

SUMMARY

	On-Campus			
	Engineering	Science	Humanities	Total
First Degree	2378(215)	1508(289)	437(72)	4323(576)
Higher Degree	518(122)	75(41)	126(40)	719(203)
Total	2896(337)	1583(330)	563(112)	5042(779)
Ph.D.				396(154)
Grand Total				5438(933)

Note: The numbers in brackets indicate number of female students.

STATEMENT OF DEGREES AWARDED

Degrees	No. of degrees	
	84 th Award (22.03.2019)	85 th Award (16.07.2019)
(i) On-campus Programmes		
A. Integrated First Degrees		
B.E. (Hons.):		
Chemical	2(1)	16(1)
Chemical (with Practice School)	2(0)	80(16)
Civil	5(0)	14(0)
Civil (with Practice School)	4(1)	72(6)
Computer Science	3(0)	29(3)
Computer Science (with Practice School)	2(0)	147(20)
Electrical and Electronics	3(0)	23(3)
Electrical and Electronics (with Practice School)	4(0)	121(12)
Electronics & Instrumentation	1(0)	14(4)
Electronics & Instrumentation (with Practice School)	8(1)	74(6)
Manufacturing Engineering	2(0)	7(1)
Manufacturing Engineering (with Practice School)	4(0)	37(1)
Mechanical	2(0)	21(1)
Mechanical (with Practice School)	2(0)	104(5)
B.Pharm. (Hons.)	1(1)	19(9)
B.Pharm. (Hons.) (with Practice School)	3(1)	25(13)
M.Sc. (Hons):		
Biological Sciences	2(0)	47(14)
Biological Sciences (with Practice School)	1(0)	7(0)
Chemistry	1(0)	39(8)
Chemistry (with Practice School)	1(1)	6(5)
Economics	2(0)	45(6)
Economics (with Practice School)	0(0)	21(1)
Mathematics	2(0)	43(5)
Mathematics (with Practice School)	0(0)	15(5)
Physics	0(0)	52(6)
Physics (with Practice School)	1(0)	3(2)
M.Sc. (Tech)		
General Studies(with Practice School)	2(1)	7(3)
Sub Total (i)	60(7)	1088(156)

Note: The numbers in brackets indicate number of female students.

Degrees	No. of degrees	
	84 th Award (22.03.2019)	85 th Award (16.07.2019)
B. Higher Degrees		
M.E. :		
Civil with specialisation in Structural Engineering	0(0)	3(0)
Civil with specialisation in Structural Engineering (with Practice School)	0(0)	14(3)
Civil with specialisation in Infrastructure Engineering and Management	0(0)	1(0)
Civil with specialisation in Infrastructure Engineering and Management (with Practice School)	0(0)	7(1)
Civil with specialisation in Transportation Engineering	0(0)	3(0)
Civil with specialisation in Transportation Engineering (with Practice School)	0(0)	11(1)
Chemical	0(0)	13(2)
Chemical (with Practice School)	0(0)	9(2)
Computer Science	0(0)	2(0)
Computer Science (with Practice School)	0(0)	18(2)
Communication Engineering (with Practice School)	0(0)	18(5)
Embedded Systems (with Practice School)	0(0)	19(6)
Mechanical	0(0)	1(0)
Mechanical (with Practice School)	0(0)	10(0)
Software Systems (with Practice School)	0(0)	23(13)
Microelectronics (with Practice School)	0(0)	22(6)
Biotechnology	0(0)	9(8)
Biotechnology (with Practice School)	0(0)	9(9)
Manufacturing Systems Engineering	0(0)	4(0)
Manufacturing Systems Engineering (with Practice School)	0(0)	12(0)
Design Engineering	1(0)	3(0)
Design Engineering (with Practice School)	1(0)	8(0)
Master of Business Administration	1(0)	2(0)
Master of Business Administration (with Practice School)	0(0)	77(20)
M.Pharm. (with Practice School)	0(0)	10(9)
M.Pharm. (with specialization in Pharmaceutics)	0(0)	2(0)
M.Pharm. (with specialization in Pharmaceutics) (with Practice School)	0(0)	6(3)
M.Pharm.(with specialization in Pharmaceutics Chemistry)	0(0)	5(1)
M.Pharm.(with specialization in Pharmaceutics Chemistry) (with Practice School)	0(0)	5(5)
Sub Total (ii)	2(0)	326(96)
C. Ph.D.	18(06)	22(8)
Sub Total (iii)	18(06)	22(8)
Total On Campus (i+ii+iii)	80(13)	1436(260)

Note: The numbers in brackets indicate number of female students.

SUMMARY

(i) On-Campus Programmes

Discipline	Engineering			Science			Humanities			Total		
	84 th	85 th	Total	84 th	85 th	Total	84 th	85 th	Total	84 th	85 th	Total
Integrated First Degree	44 (3)	759 (79)	803 (82)	12 (3)	256 (67)	268 (70)	04 (1)	73 (10)	77 (11)	60 (7)	1088 (156)	1148 (163)
Higher Degrees	1 (0)	219 (58)	220 (58)	0 (0)	28 (18)	28 (18)	1 (0)	79 (20)	80 (20)	2 (0)	326 (96)	328 (96)
Ph.D.										18 (6)	22 (8)	40 (14)
Total										80 (13)	1436 (260)	1516 (273)

Note: The numbers in brackets indicate number of female students.

LIST OF ORGANIZATIONS WHICH CONDUCTED CAMPUS INTERVIEWS

S.No.	Name of the Company	Number of offers made	Sector
1.	Abinbev	5	MF
2.	Accenture	4	IT
3.	Accolite	1	IT
4.	Aditya Birla Capital	4	BF
5.	Aditya Birla Group (Hindalco)	5	MF
6.	Aditya Birla Mangement Group	1	CO
7.	Aditya Birla Science & Technology	2	CH
8.	Adobe	4	IT
9.	Aequus	8	MF
10.	Afour technologies	1	IT
11.	Amadeus Labs	1	IT
12.	Amazon	7	ANA
13.	Amdocs	12	IT
14.	Amity Software Pvt Lim	2	IT
15.	Angara Inc	1	MBA
16.	Angel Broking	0	BF
17.	AppDynamics	3	IT
18.	Apple	1	IT
19.	Arcesium	4	IT
20.	ARM	1	ET
21.	Ascent Health and Wellness Solutions	1	BP
22.	ATCS	2	IF
23.	Axis Bank	14	BF
24.	Axtria	5	ANA
25.	Axxela Advisory Services	2	BF
26.	Bajaj Allianz	1	MBA
27.	Bajaj Auto	3	MF
28.	Baldor Technologies	5	IT
29.	BCC	9	CO
30.	Beehyv	4	IT
31.	BNY Mellon (US)	1	IT
32.	Boston Consulting Group	3	CO
33.	Bridgestone	1	ANA
34.	Byju's	11	OT
35.	Cairn India	5	MF
36.	Capgemini	20	CO
37.	CGI	14	IT
38.	Cipher Research Group	1	IT

S.No.	Name of the Company	Number of offers made	Sector
39.	Cisco	18	ET
40.	Citi Bank	16	IT
41.	Codenation	0	IT
42.	Cognizant	5	MBA
43.	Cohesity	2	IT
44.	Credit Suisse	7	BF
45.	Cyient	3	MF
46.	Cypress	4	ET
47.	Dalberg	1	CO
48.	Dar Group	4	IF
49.	DE Shaw	4	IT
50.	Delhivery	3	IT
51.	Dell	2	IT
52.	Deloitte	7	CO
53.	Deutsche Bank	5	IT
54.	Direct I	2	IT
55.	Dorsh Consult India	1	IF
56.	Dr Reddy's Lab	5	BP
57.	Evalueserve	1	ANA
58.	EXL Services	3	ANA
59.	Exponentia Datalabs	2	IT
60.	Exxon Mobil	11	CH/MF
61.	EY	2	CO
62.	Facebook (UK)	1	IT
63.	Fidelity Investments	1	IT
64.	Fiorano	2	IT
65.	Flipkart	14	IT
66.	Flow Traders(Singapore)	0	BF
67.	Fractal Analytics	1	ANA
68.	Freshworks	1	IT
69.	Futures First	3	BF
70.	GAIL	3	MF
71.	GDRC	6	MBA
72.	GE India	1	IT
73.	Genpact	4	IT
74.	GEP	1	IT
75.	GGK Technologies	1	IT
76.	GMR	1	IF
77.	Goldman Sachs	15	IT
78.	Goodera	21	OT
79.	Grey Orange	5	IT/MF/ET
80.	HCL	1	IT

S.No.	Name of the Company	Number of offers made	Sector
81.	HDFC Life	2	MBA
82.	Here Maps	2	IT
83.	Hindustan Zinc	1	MF
84.	HSBC	10	BF
85.	Hyperdart Technologies	1	IT
86.	IBM	3	IT
87.	ICICI Bank	8	BF
88.	Indiamart	4	ANA
89.	Indus Insights	6	CO
90.	Indus Valley Partners	2	IT
91.	Infor	2	IT
92.	Inmobi	5	OT
93.	Intel	30	ET
94.	IOCL	5	MF
95.	IQVIA	7	BP
96.	ISGEC	2	MF
97.	J P Morgan Services	6	IT
98.	Jarvis Technologies	7	IT
99.	JDA Software	3	IT
100.	John Deere	2	MF
101.	JP Morgan & Chase	9	IT
102.	JP Morgan & Chase-Quant Finance	0	IT
103.	JSW	1	MF
104.	JW Consultants	2	IF
105.	KBR	4	CH
106.	KPIT(Germany)	7	IT
107.	KPMG	9	ANA
108.	Kubric	1	IT
109.	L&T ECC	5	MF/IF
110.	L&T Limited	6	MF/IF
111.	Lavelle Networks	1	MBA
112.	Lowes	4	ANA
113.	Make My Trip	2	MBA
114.	Manpower Group	2	MBA
115.	Manthan Advisors	2	CO
116.	Markets & Markets	5	MBA
117.	Maruti Suzuki	0	MF
118.	Mastercard	1	IT
119.	Mathworks	2	IT
120.	Maybank	5	IT
121.	Mcafee	1	MBA
122.	Media IQ Digital	4	IT

S.No.	Name of the Company	Number of offers made	Sector
123.	Mediatek	1	ET
124.	Merilytics	9	IT
125.	Michilin	2	MF
126.	Microland	2	IT
127.	Microsoft GSMO	4	IT
128.	Microsoft IDC	9	IT
129.	Morning Star	0	BF
130.	Myntra	5	IT
131.	Naggaro	4	IT
132.	National Instruments	6	IT/ET
133.	Nestle	2	MF
134.	NetApp	2	IT
135.	Netcore	3	MBA
136.	Newgen Software	9	MBA
137.	Novartis	9	BP
138.	Nucleus Software	1	IT
139.	Nutanix	6	IT
140.	Nvidia Graphics	4	ET
141.	Ola Cabs	4	IT
142.	Oracle	17	IT
143.	Orbees	7	IT
144.	Oyo Rooms	2	IT
145.	PayPal	6	IT
146.	Petasense	1	IT
147.	Pfizer	4	BP
148.	Pharma Ace Analytics	14	BP
149.	Philips	2	IT
150.	Piramal Group	3	IT
151.	Postman	1	IT
152.	Praj Industries	1	CH
153.	Price Waterhouse Coopers (PwC)	10	IT
154.	Publicis Sapient	8	IT
155.	Q3 Technologies	3	IT
156.	Qualcomm	10	ET
157.	Quantiphi	4	CO
158.	Quantum Phinance	3	BF
159.	Qubole	3	IT
160.	Ramboll	2	IF
161.	Rao IIT	10	OT
162.	Reflexis	1	IT
163.	Reliance Jio	21	IT
164.	Rivigo	3	IT

S.No.	Name of the Company	Number of offers made	Sector
165.	ROHM Semiconductors	1	ET
166.	Rubrik (US)	1	IT
167.	Salesforce	5	IT
168.	Samsung R&D (Semiconductors Division)	10	IT
169.	Samsung Research Institute,Bangalore	27	IT
170.	Samsung Research Institute,Delhi	4	ET
171.	Samsung Research Institute,Noida	3	IT
172.	<u>SAP Labs</u>	9	IT
173.	Schneider Electric	2	MBA
174.	Searce	7	ANA
175.	SlingMedia	1	IT
176.	Society Generale	5	IT
177.	ST Microelectronics	2	ET
178.	Sterling Engineering	5	IF
179.	Strand Life Science	3	BP
180.	Suven	1	BP
181.	Suzlon	2	MF
182.	Swiggy	8	ANA
183.	Synopsys	3	IT
184.	Tata Advanced Systems Limited	3	MF
185.	Tata Steel	2	MF
186.	Tata Technologies	3	MF
187.	Tata Teleservices	5	IT
188.	Tata Trust	9	OT
189.	TCG	2	IT
190.	TCS	1	MBA
191.	Telstra	1	IT
192.	Tesco	5	IT
193.	Tesco Analytics	5	IT
194.	Texas Instruments	2	ET
195.	The Smart Cube	1	MBA
196.	Thermo Fisher	1	ANA
197.	Thornton Tomasetti	1	IF
198.	Times Internet	2	IT
199.	Toshiba	1	IT
200.	Tower Research Capital	1	IT
201.	Tresvista Financial Services	0	BF
202.	Trident	5	MF
203.	TVS Capital	0	BF
204.	Uber	10	IT
205.	UBS	12	IT
206.	Udaan	1	IT

S.No.	Name of the Company	Number of offers made	Sector
207.	Unacademy	1	IT
208.	UST Global	2	IT
209.	Vakil Mehta Seth(VMS) Consultants	1	IF
210.	Viacom18 Media Pvt. Ltd	1	IT
211.	Vidya Mandir Classes	1	OT
212.	VM Ware	2	IT
213.	Wabco Auto	0	MF
214.	Western Digital	10	ET
215.	Whirlpool	5	MF
216.	Wipro	33	IT
217.	WNS	7	BP
218.	Xoxoday	1	IT
219.	ZenDrive	2	IT
220.	Zeotap	1	IT
221.	Zilingo	5	IT
222.	Zinnov	2	ANA
223.	Zomato	11	MBA
224.	ZS Associates	14	CO
225.	Zydus Cadilla	2	CH
Total		1031	

Summary

Total No. of companies: 225

Total No. of appointments offered: 1031

Legend:

ANA	Analytics
BF	Banking and Finance
BP	Bio-Pharma
CH	Chemical
CO	Consulting
ET	Electronics
IT	Information Technology
MBA	Masters in Business Administration
MF	Manufacturing
OT	Other (Teaching etc)

LIST OF PROJECTS COMPLETED UNDER CERTAIN PROJECT-ORIENTED COURSES IN THE YEAR 2019

Second Semester 2018-2019 and First Semester 2019-2020

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
1	AAYUSH ATTRI	HARI OM BANSAL	DESIGN OF ENERGY OPTIMISATION STRATEGIES FOR PLUG IN HYBRID ELECTRIC VEHICLES USING INTELLIGENT TECHNIQUES
2	AAYUSHMAAN THAKUR	S. M. ZAFARUDDIN	ARTIFICIAL EEG DATA GENERATION USING DEEP LEARNING FRAMEWORK
3	ABBAS ALI PANSARI	AK VAISH	PARTNERSHIP CREDIT SCORING PROBLEM: A NEURAL NETWORK APPROACH
4	ABHAY AGARWAL	A K SAINI (CEERI)	DECIDING PRODUCT PRICING BASED ON FREQUENCY OF VISITING THE SITE.
5	ABHIROOP BHATTACHARJEE	KAVINDRA KANDPAL	DESIGN OF CMOS AMPLIFIER FOR HIGH FREQUENCY OPERATION IN UMC-90 NM TECHNOLOGY
6	ABHISHEK AJMERA	SURESH GUPTA	APPLICATION OF DATA ANALYTICS IN CHEMICAL ENGINEERING PROBLEMS
7	ABHISHEK S.B	PAWAN K AJMERA	DESIGNING AND IMPLEMENTATION OF SIGNAL CONDITIONING CIRCUIT FOR ACCELEROMETER SENSOR
8	ABHRAN ANURAG	B V REDDY	CFD MODELLING OF HYDROGEN SEPARATION MEMBRANE REACTOR
9	ACHAL AGARWAL	RAJIV KUMAR	DOMINATION IN GRAPHS
10	ACHAL SHAH	JENNIFER RANJANI J	AND IMPLEMENTATION OF A LIGHTWEIGHT HASH FUNCTION FOR IOT
11	ADIL KHAN	M.S.DASGUPTA	FLUID-STRUCTURE INTERACTION STUDY OF BLOOD-FLOW THROUGH INTERNAL CAROTID ASTERY USING OPEN FOAM
12	ADITCHANDRA	K BABU RAVI TEJA	CMOS IC DESIGN USING AI
13	ADITI AGARWAL	AMIT DUA	AUTOMATIC TASK MIGRATION IN DISTRIBUTED SYSTEMS
14	ADITYA GARG	PRAMOD KUMAR TANWAR (CEERI)	PREDICTIVE MODEL FOR AIR QUALITY MONITORING
15	ADITYA GUPTA	DHEERENDRA SINGH	IMPLEMENTATION OF MACHINE LEARNING ALGORTHMS ON FPGA.
16	ADITYA KHANDELWAL	B K MUKHERJEE	ON TYPE-2 FUZZY CONTROL APPLIED TO SOME FLIGHT CONTROL PROBLEM
17	ADITYA VENIKAR	ANU GUPTA	DESIGN ANALYSIS OF DYNAMIC FREQUENCY SCALING CIRCUIT USING ARTIFICIAL INTELLIGENCE
18	ADITYA WAGH	SUMEET SAURAV (CEERI)	DEEP LEARNING ARCHITECTURE FOR OBJECT DETECTION IN AERIAL IMAGES.
19	AKARSH AGARWAL	ANKUSH C JAHAGIRDAR	DEVELOPMENT OF MODEL PREDICTIVE CONTROL FOR QUADRUPLE TANK SYSTEM
20	AKARSH RASTOGI	D. BANDYOPADHYAY	DESIGN OF CDMSN NANOCLUSTER AND STUDY OF OPTICAL PROPERTIES
21	AKASH SONTH	KK GUPTA	APPLICATION OF HIGH - SPEED IMAGING IN VISION
22	AKSHIT DEEP SINGH	SHIBASISH CHOWDHURY	DESIGNING A SEMI SUPERVISED/ UNSUPERVISED MODEL TO EXPLAIN PREFERENTIAL BIDDING OF MIRNA TO MRNA
23	AKSHIT GOEL	CHANDRA SHEKHAR	DESIGN OF ARITHMETIC CIRCUITS FOR EXECUTION UNITS IN MICROPROCESSOR
24	AKSHIT KUMAR	SURESH GUPTA	DEVELOPMENT OF A COST ANALYSER FOR A CCPP PLANT USING METHODS OF OPTIMISATION AND MACHINE LEARNING
25	AKUL MALHOTRA	ANANTHA KRISHNA C	IMPLEMENTATION OF WAVELET BASED FILTERING

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			USING TMS320C6748/5515
26	ALEX MATHAI	SUMEET SAURAV (CEERI)	NOVELTY DETECTION IN SURVEILLANCE SYSTEMS USING GENERATIVE ADVERSARIAL NEURAL NETWORKS
27	AMAN KALRA	SUREKHA BHANOT	DRN-A DEEP REINFORCEMENT LEARNING FRAMEWORK FOR NEWS RECOMMENDATION
28	AMAN KUMAR RANA	D. BANDYOPADHYAY	DESIGN OF NANOCLUSTER / NANO-TUBE
29	AMIT TIWARY	PANKAJ ARORA	TARGET DETECTION IN IMAGES USING EEG SIGNALS
30	AMITABH SHARMA	B K MUKHERJEE	NONLINEAR CONTROL FOR AUTONOMOUS MANEUVERING OF FIGHTER AIRCRAFT
31	ANIKET AGNIHOTRI	SYAMANTAK MAJUMDER	MODELLING AND PREDATION OF HEART FUNCTION & ASSOCIATED DISEASE WITH THE HELP OF MACHINE & DEEP LEARNING TECHNOLOGIES
32	ANIRUDHA K	J. L. RAHEJA (CEERI)	APPLICATION OF DEEP REINFORCEMENT LEARNING IN ROBOTICS
33	ANKUSH KHETAN	M.S.DASGUPTA	MODELING OF HEAT SOURCE IN PERIPHERAL MILLING
34	ANUBROLU VASUDEV	SUNDARESAN RAMAN	STUDY OF PLANT DISEASES USING DEEP LEARNING
35	ANUSHKA PATHAK	HD MATHUR	IMPLICATIONS OF VEHICLE TO GRID IN MICROGRID SCENARIO HARDWARE IMPLEMENTATION
36	APURVA CHAUDHARY	H K MOHANTA	COMPARISON OF WAVELET NEURAL NETWORK (WNN) WITH ARTIFICIAL NEURAL NETWORK (ANN)
37	ARNAV SETHI	PRABHAT N JHA	IDENTIFICATION MICROBIAL CONSORTIUM BIO MINING AND BIOLEACHING
38	ARVIND SAHU	RAVIKANT MITTAL	IMPROVED SOLUTIONS FOR SIMPLIFIED DESIGN OF SHALLOW FOUNDATION
39	ARYAN SHARMA	SHYAM SUNDER YADAV	DEVELOPING FORTRAN PROGRAM FOR COMPRESSIBLE TWO FLOW WITH PHASE CHANGE
40	ARYAN SHARMA	SURESH GUPTA	USE OF HYBRID METHODS (SOFT COMPUTING + STATISTICAL APPROACH) FOR IMPROVING QUALITY CHECK OF NAPHTHA IN CRUDE DISTILLATION COLUMN".
41	ASHUTOSH GOEL	PRAMOD KUMAR TANWAR (CEERI)	AIR QUALITY MONITORING USING AUTO ML (AUTOMATED MACHINE LEARNING)
42	AVINASH PATI	AJAYA KR. PANI	MODEL DEVELOPMENT FOR SULPHUR CYCLE PREDICTION IN PYRO POCCESS
43	AYUSH MISHRA	M.S.DASGUPTA	SUSTAINABLE DEVELOPMENT OF ELECTRIC VEHICLE MANUFACTURING IN INDIA-A SYSTEM DYNAMICS APPROACH
44	BHAGYA LAKSHMI	RAJEEV SAKHUJA	AXIRIDINE MEDIATED SYNTHESIS OF SHORT PEPTIDES.
45	BHAVESH MUNOT	PANKAJ KUMAR SHARMA	OPTIMIZATION OF IRRIGATION SYSTEM
46	CHAITANYA MAHESHWARI	SHIBASISH CHOWDHURY	DESIGNING A SEMI SUPERVISED/ UNSUPERVISED MODEL TO EXPLAIN PREFERENTIAL BIDDING OF MIRNA TO MRNA
47	DEBARCHAN BASU	H K MOHANTA	ONLINE MONITORING OF WATER TREATMENT IN THERMAL POWER PLANT USING RADIAL BASIS NEURAL NETWORK, SVM & GENETIC ALGORITHM
48	DEV ARORA	KOTA SOLOMON RAJU (CEERI)	DEVELOPMENT OF MULTIPLE APPLICATION LAYER PROTOCOLS FOR IOT APPLICATIONS
49	DEVANSH KAMODIA	K.S.SANGWAN	IMPLEMENTATION OF INDUSTRY 4.0 IN BITS WORSHIP
50	DEVESH NARULA	B K MUKHERJEE	NONLINEAR CONTROL FOR AUTONOMOUS MANEUVERING OF FIGHTER AIRCRAFT
51	DEVYASH PARIHAR	LAVIKA GOEL	BIOGEOGRAPHY BASED OPTIMIZATION WITH EXTINCTION AND EVOLUTION FOR FACE RECOGNITION
52	DIGVIJAY BANSAL	DHEERENDRA SINGH	FABRICATION OF SIC MOSFETS.
53	DIPESH DESHMUKH	RAHUL SINGHAL	DESIGN OF INTEGRATED / TANDEM ORGANIC LED &

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			DYNAMIC SOLAR CELLS
54	DIVYANK PANDEY	PRATIK N SHETH	MACROSCOPIC MODELING AND SIMULATION OF BIOMASS COOK STOVE
55	DIVYANSHU BANSAL	NISHANT ROY	SELECTION OF EXCAVATION SEQUENCE AND SUPPORT MEASURES FOR TUNNELS CONSIDERING VARIABILITY IN GROUND CONDITIONS.
56	DIVYANSHU GUPTA	AJAYA KR. PANI	NEURAL NETWORKS FOR THE PREDICTION OF ORGANIC CHEMISTRY REACTIONS
57	E. VARSHITH	SANDHYA MARATHE	VALIDATING CRISPR- CAS TARGETS IN SALMONELLA
58	GARV SACHDEVA	KAMLESH TIWARI	HI! IAM RAM- MAP MY INDIA (TTS)
59	GAURAV AGRAWAL	B V REDDY	MULTI-SCALE PACKED-BED REACTOR MODELING FOR WATER-GAS-SHIFT REACTION
60	GAURAV BHANDARI	VISHAL SAXENA	PREDICATION OF OBESITY USING MLA
61	GOKUL SRINIVASAN	SAINATH BITRAGUNATA	CO-OPERATIVE QUANTUM COMMUNICATION SYSTEM MODELLING DESIGN AND ANALYSIS
62	HARSH VARDHAN AWASTH	PANKAJ ARORA	PERIODIC STRUCTURE BASED OPTICAL SENSOR
63	HARSHIT GOYAL	VIRENDRA SINGH SHEKHAWAT	DATA DISSEMINATION IN AN INTERNUTTENTLY CONNECTED AD-HOC NETWORK
64	HARSHIT GUPTA	SURESH GUPTA	DEVELOPMENT OF A COST ANALYSER FOR A CCPP PLANT USING METHODS OF OPTIMISATION AND MACHINE LEARNING
65	HET SHAH	DHEERENDRA SINGH	IMPLEMENTATION OF MACHINE LEARNING ALGORITHMS ON FPGA.
66	HIMAGSHU BAID	KUMAR SANKAR BHATTACHARYA	LITERARY WORLD BUILDING
67	HIMANGSHU BAID	RAJIV GUPTA (CIVIL DEPARTMENT)	GIS-BASED WEB APPROACH TO PRECISION AGRICULTURE
68	HIMANSHU TODWAL	M.S.DASGUPTA	DEVELOPING A MODEL OF THE WORKING IN VARIOUS DEPARTMENTS OF AN ORGANIZATION AND STRATEGICALLY OPTIMIZE IT INCORPORATING A COMBINATION OF SUITABLE APPLICATIONS
69	HITESH SAGTANI	PRAMOD KUMAR TANWAR (CEERI)	AIR QUALITY PREDICTION USING (AUTO ML)AUTOMATED MACHINE LEARNING
70	INDLA KARTHIK VARMA	SUMEET SAURAV (CEERI)	A CONVOLUTIONAL COMPRESSIVE SENSING FRAMEWORK BASED ON DEEP LEARNING
71	INDRANEEL GHOSH	SANDHYA MARATHE	MATHEMATICAL MODELLING OF IMMUNE SYSTEM AGAINST SALMONELLA INFECTION
72	ISHAN GUPTA	DHEERENDRA SINGH	FABRICATION OF SILICON CARBIDE MOSFETS (SiC)
73	ISHIKA SOMANI	PRATIK N SHETH	MACROSCOPIC MODELLING AND SIMULATION OF BIOMASS COOK STOVE
74	J HARSHITH REDDY	D BANDYOPADHYAY	DESIGNING OF BRAGG DIFFRACTION OF FCC CRYSTAL USING X-BAND MICROWAVE
75	JAHNAVI SHARMA	SUMITRA SINGH (CEERI)	DEVELOPMENT OF NEW GENERATION NANOMETAL/OXIDE/GRAPHITE POLYMER COMPOSITE MATERIALS FOR USE IN WEARABLE ELECTRONICS
76	JAYANT AGARWAL	ANIL RAI	INDIAN MUSIC AND CULTURE
77	JAYESH AGGARWAL	ANUPAM SINGHAL	ECONOMIC ANALYSIS OF VALUE ADDED PRODUCTS FROM STEEL INDUSTRY WASTE.
78	JAYESH NARAYAN	RAJDEEP CHOWDHURY	PREDICTING CANCER USING MACHINE LEARNING & NEURAL NETWORKS
79	JAYESH SANJAY MASAN	M.S.DASGUPTA	ANALYZING REVERSE LOGISTIC PRACTICES.
80	JOY V PARIKH	ANU GUPTA	EXPLORATION OF AUTOMATED FUNCTIONAL FAULT DETECTION TECHNIQUES IN VLSI DESIGN.
81	KUMAR DEOVRATA	RAJDEEP CHOWDHURY	PREDICTING CANCER USING MACHINE LEARNING & NEURAL NETWORKS
82	KUMAR SARTHAK	HD MATHUR	MACHINE LEARNING APPROACH TO ANALYZE CONTROL ISSUES IN AN ISOLATED MICRO-GRID SYSTEM

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
83	KUMAR SHRESHTHA	SHIBASISH CHOWDHURY	DESIGNING A SEMI SUPERVISED/ UNSUPERVISED MODEL TO EXPLAIN PREFERENTIAL BINDING OF MIRNA TO MRNA
84	LAKSHAY KUMAR	S B SINGH	TO STUDY THE NON LINEAR RESPONSE OF RESTRESSED CONCRETE SKEWED BOX BEAM BRIDGE GIRDER USING LRPF TENDON
85	LAKSHAY SETHI	SURESH GUPTA	DESIGN OF BATTERIES FOR HIGH ENERGY STORAGE
86	MANAM MEHTA	RUPAM GOSWAMI	IN GA AS TFETS FOR BIO - SENSING APPLICATIONS.
87	MANPREET SINGH	M.S.DASGUPTA	EXTENDING THE THERMAL CONTROL CAPABILITIES OF THE COOLING/STORAGE STATION OF THE LEARNING FACTORY AT THE JINGEL
88	MANSI BANSAL	S B SINGH	ANALYSIS AND DESIGN AND STRENGTHENING OF STONE MASONRY STRUCTURES
89	MAYANK BHUTANI	PRASHANT U MANOHAR	VISUALISING VARIOUS CHEMICAL STRUCTURES IN VIRTUAL REALITY USING 3DMOL JS.
90	MAYANK SARAOGI	M.S.DASGUPTA	EXPERIMENTAL STUDIES IN MECHANICS OF CELL
91	MENDU VENKATA SAI SARATH CHANDRA	SUMEET SAURAV (CEERI)	A CONVOLUTIONAL COMPRESSIVE SENSING FRAMEWORK BASED ON DEEP LEARNING
92	MITUL SHARMA	ANU GUPTA	DESIGN OF A VLSI MODULE FOR DATA RECOVERY AT THE RECEIVER END OF A COMMUNICATION SYSTEM
93	MOHIT JAISWANI	SATYENDRA KR. SHARMA	APPLICABILITY OF PERFORMANCE-BASED LOGISTICS IN PASSENGER CAR INDUSTRY
94	MOHITH TS	PAWAN K AJMERA	DESIGN AND IMPLEMENTATION OF DENOISING TECHNIQUES USING WAVELET TRANSFORM AND OTHERS
95	MRIGANKSHI KAPOOR	NAVNEET GOYAL	APPLICATIONS OF NOWCASTING IN PREDICTING NATURAL DISASTERS
96	MUDIT CHANDALIYA	MUKESH KUMAR ROHIL	DETECTION AND IDENTIFICATION OF VARIOUS LOGOS IN A VIDEO
97	MUDIT GATTANI	AMIT JAIN	REVERSE LOGISTICS AND WASTE MANAGEMENT PLANT
98	MUKUL RANA	PRATIK N SHETH	MACROSCOPIC MODELLING AND SIMULATION OF GASIFIER
99	MUSTAJIB MOHAMMED KHAN	H K MOHANTA	DESIGN OF SOFT SENSORS FOR A DISTILLATION SYSTEM USING WAVELET TRANSFORMS
100	N L SAI BHAVESH	KK GUPTA	AMBIENT AIR QUALITY MONITORING AND MAPPING
101	NACHIKET NITIN SANT	M.S.DASGUPTA	DEVELOPMENT OF SLICING ALGORITHM
102	NAVJOT BANSAL	LAVIKA GOEL	CROP RECOMMENDATION SYSTEM USING NATURE INSPIRED TECHNIQUES
103	NIKHIL GOYAL	HD MATHUR	DESIGNING BUSINESS MODEL FOR BITS MICROGRID
104	NIKHIL MADDIPATI	G MUTHUKUMAR	SEISMIC BEHAVIOUR OF RCC SHEAR WALLS UNDER HIGH AXIAL LOADING
105	NIKHIL RANJAN	KAMLESH TIWARI	CONTENT ANALYSER
106	NIPUN GARG	M.S.DASGUPTA	SUPPLY CHAIN OPTIMIZATION BASED ON PREVIOUSLY IDENTIFIED RISKS.
107	NIRANJAN RAO	PAWAN K AJMERA	DESIGN AND IMPLEMENTATION OF DENOISING TECHNIQUES USING WAVELET TRANSFORM AND OTHERS
108	NITANT UPASANI	KRISHNENDRA SHEKHAWAT	UNEQUAL AREA FACILITY LAYOUT PROBLEMS
109	NITHIN BENNY MYPPAN	LAVIKA GOEL	CROP RECOMMENDATION SYSTEM USING NATURE INSPIRED TECHNIQUES
110	NITHIN RAHAV J K	SAINATH BITRAGUNATA	LIFI DESIGN, APPLICATION AND ITS IMPLEMENTATION
111	NITHYA SUNDARAMOORTHY	H K MOHANTA	PROCESS IDENTIFICATION AND CONTROL USING WAVELET TRANSFORMS
112	P. JAGEESH	D BANDYOPADHYAY	DESIGNING OF BRAGG DIFFRACTION OF FCC CRYSTAL USING X-BAND MICROWAVE

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
113	PALLAV SONI	SURESH GUPTA	USE OF HYBRID METHODS (SOFT COMPUTING + STATISTICAL APPROACH) FOR IMPROVING QUALITY CHECK OF NAPHTHA IN CRUDE DISTILLATION COLUMN".
114	PARIKSHIT PARATE	ARUN KUMAR	ALGORITHMIC TRADING STRATEGIES USING QUANTITATIVE ANALYSIS
115	PARTH SHARMA	M.S.DASGUPTA	EXTENDING THE THERMAL CONTROL CAPABILITIES OF THE COOLING
116	PIYUSH DUSAD	VISHAL SAXENA	INFECTIONS DISEASE IDENTIFICATION MACHINE LEARNING
117	PIYUSH RAI	M.S.DASGUPTA	DEVELOPMENT OF SLICING ALGORITHM
118	PRACHI SHARMA	KAVINDRA KANDPAL	STUDY AND SIMULATION OF LNA CIRCUITRY FOR MIMO APPLICATIONS
119	PRAKHAR RANJAN	HD MATHUR	IOT BASED ENERGY MANAGEMENT PLATFORM FOR SMART MICROGRID
120	PRAKHAR SRIVASTAVA	PRAMOD KUMAR TANWAR (CEERI)	PREDICTIVE MODEL FOR AIR QUALITY MONITORING
121	PRAKRITI ROY	ANNUPAMA MITTAL	DESIGNING A STEM CELL BASED PRODUCT FOR HEALING OF DIABETIC WOUNDS
122	PRANAV DESHPANDE	M.S.DASGUPTA	USE OF OPTIMIZATION TECHNIQUE IN PRECHICTIVE MAINTENANCE
123	PRANAV PANDEY	ANKUSH C JAHAGIRDAR	DEVELOPMENT OF MODEL PREDICTIVE CONTROL FOR QUADRUPLE TANK SYSTEM
124	PRANJAL SARIN	MR. RAVINDRA MUKHIYA	DESIGN, MODELING AND SIMULATIONS OF MEM-BASED ENERGY HARVESTER.
125	PRATEEK AGARAWAL	J. L. RAHEJA (CEERI)	APPLICATION OF DEEP REINFORCEMENT LEARNING IN ROBOTICS
126	PRATEEK GOYAL	RAHUL SINGHAL	DESIGN OF A WIRELESS LOCAL AREA NETWORK USING IR TECHNOLOGY.
127	PRATYUSH BHARATI	ANU GUPTA	DESIGN AND SIMULATION OF A MODULAR ANALOG MUSICAL SYNTHESIZER, AND REASIZATION OF CIRCUITS ON AN ANALOG IC
128	PRATYUSH MANOCHA	V.K. CHAUBEY	MODELLING OF CNTFET DEVICES
129	PRATYUSH SAMAL	H K MOHANTA	COMPARISON OF WAVELET NEURAL NETWORK (WNN) WITH ARTIFICIAL NEURAL NETWORK (ANN)
130	PREET SINGH KHALSA	VINAY CHAMOLA	RESOURCE MANAGEMENT FOR 5G CELLULAR NETWORKS
131	PRERNA BARANWAL	B K MUKHERJEE	DESIGN OF FUZZY ATTITUDE CONTROL SYSTEM FOR NANO SATELLITES
132	RAHUL P S S B R	SMITA RAGHUVANSHI	COMPARITIVE STUDIES OF FUEL CELLS USING LCA APPROACH
133	RAVISH GOYAL	M.S.DASGUPTA	WAREHOUSE DATA ANALYSIS AND OPTIMIZATION.
134	RIGVITA SHARMA	J. L. RAHEJA (CEERI)	ROBOT NAVIGATION USING REINFORCEMENT LEARNING IN A SIMULATED ENVIRONMENT
135	RISHABH JAIN	T. G. SARKAR	TOPOLOGICAL ASPECTS OF FLUOQUET SYSTEMS
136	RISHABH MATHUR	CHANDRA SHEKHAR	DESIGN OF A SINGLE CORE MULTI STAGE PIPELINED INTEGER PROCESSOR BASED ON THE RISC-V ISA
137	RISHANK PANDEY	H K MOHANTA	COMPARISON OF WAVELET NEURAL NETWORK (WNN) WITH ARTIFICIAL NEURAL NETWORK (ANN)
138	RISHAV UTKARSH	MURALLI PALLA	CRITICAL EVALUATION OF MICROSTRUCTURE MODELING
139	RITIK JAIN	ANU GUPTA	DESIGN AND ANALYSIS OF A 8-BIT PROCESSOR USING DYNAMIC VOLTAGE SCALING
140	RIYA SRIVASTAVA	K BABU RAVI TEJA	CMOS IC DESIGN USING AI
141	ROBIN ARORA	VISHAL SAXENA	INFECTIONS DISEASE IDENTIFICATION MACHINE LEARNING
142	ROHAN SAXENA	M.S.DASGUPTA	COMPUTER VISION FOR AUTONOMOUS VEHICLES
143	ROHIT MANDAR	V.S.NIRBAN	DESIGN A WEBSITE WHICH CONTAINS INFORMATION OF ALL THE CLUBS, DEPARTMENT,

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			ASSOC'S AND MAJOR EVENTS LIKE BOSM
144	RUPESH RAJ	NISHANT ROY	DEVELOPMENT DESIGN OF GUI USING PYTHON FOR DESIGN OF GEOTECHNICAL STRUCTURES IN OPENSEES
145	SABYASACHI DASH	M.S.DASGUPTA	DEVELOPMENT OF MULTI-LAYER NAVIGATION STACK FOR ONLINE SELF-RECONFIGURATION OF ROBOTS
146	SAKSHAM CONSUL	ANANTHA KRISHNA C	EMOTION CLASSIFICATION USING EEG,ECG AND GSR BIOMEDICAL SIGNALS.
147	SANCHIT BAJAJ	JITENDRA PANWAR	DRUG DELIVERY FOR PARKINSON'S DISEASE USING NANOPARTICLE
148	SANSKRITI SHARMA	JYOTI	HOW BUSINESS CAN LEVERAGE THE NEXT BILLION USERS: EMERGING MARKET OF INTERNET USERS
149	SARTHAK AGARWAL	ASHUTOSH BHATIA	DESIGN AND DEVELOPMENT OF THE CAMPUS WIDE VANET USING RASPBERRY PI , ZIGBEE AND GPS MODULES
150	SARTHAK SRIVASTAVA	KAMLESH TIWARI	RECOGNIZE ROAD SIGNS TEXT (MAP MY INDIA)
151	SARVESH SRINIVASAN	ABHISHEK MISHRA	DESIGN OF QUANTUM ALGORITHMS OPTIMAL FOR PROBLEMS IN VARIOUS COMPLEXITY CLASSES
152	SARVESH SRINIVASAN	J. N. BANDYOPADHYAY	STUDY OF CHAOS IN QUANTUM MANY-BODY SYSTEMS
153	SATYAJEET BAJAJ	M.S.DASGUPTA	MODELING OF HEAT SOURCE IN PERIPHERAL MILLING
154	SAURABH P JAIN	PAWAN K AJMERA	DESIGNING AND IMPLEMENTATION OF SIGNAL CONDITIONING CIRCUIT FOR ACCELEROMETER SENSOR
155	SAURAV SHAKTI BORAH	D. BANDYOPADHYAY	DESIGN OF CDMSN NANOCUSTER AND STUDY OF OPTICAL PROPERTIES
156	SHAH NEEL KAUSHIK	AVINASH GAUTAM	AUCTION-BASED MECHANISM FOR TIMETABLE GENERATION
157	SHAH SHREY AMIYA	ASHISH PATEL	DESIGN OF FPGA BASED FEEDBACK CONTROLLER
158	SHAMBHAVI RANI	KOTA SOLOMON RAJU (CEERI)	DEVELOPMENT OF MULTIPLE APPLICATION LAYER PROTOCOL FOR IOT APPLICATIONS
159	SHANTOM KUMAR BORAH	DHEERENDRA SINGH	IMPLEMENTATION OF MACHINE LEARNING ALGORITHMS ON FPGA.
160	SHIKHAR SHIROMANI	S. M. ZAFARUDDIN	DESIGN OF DEEP LEARNING BASED AUTOENCODER FOR MULTI CARRIER COMMUNICATION SYSTEMS.
161	SHIKHAR SINGH	SHILPI GARG	STRATEGIES & BOTTLENECKS FOR GENE KNOCKOUT
162	SHIVAM JINDAL	ANUPAM SINGHAL	ECONOMIC ANALYSIS OF VALUE ADDED PRODUCTS FROM STEEL INDUSTRY WASTE.
163	SHRAVAN TUMMALA	J. L. RAHEJA (CEERI)	ANDROID APP THAT GIVES DESCRIPTION OF IMAGES IN AUDIO
164	SHREY GOYAL	VISHAL GUPTA	SOLVING A PROBLEM IN SOFTWARE-DEFINED NETWORK ENVIRONMENT
165	SHREY SHAH	MEGHANA TARE	TO STUDY DIABETIC RETINOPATHY & ITS SIGNS IN EYE IMAGES
166	SHRUTI SHARMA	J.L. RAHEJA	ROBOT NAVIGATION USING REINFORCEMENT LEARNING IN A SIMULATED ENVIRONMENT.
167	SHUBHAM JAIN	MADHUKAR MISHRA	DATA ANALYTICS MODEL FOR PARTICLE PHYSICS EVENTS
168	SHYAMAL VERMA	G MUTHUKUMAR	DESIGN OF NORMAL STRENGTH BASALT REINFORCED CONCRETE
169	SHYAMSUNDAR P.I.	AAKASH C. RAI	DESIGN OF A HIGH TEMPERATURE THERMAL ENERGY STORAGE SYSTEM FOR SOLAR THERMAL POWER PLANTS.
170	SIDDHARTH SINGH	J. N. BANDYOPADHYAY	SUPERCONDUCTING CIRCUITS AND THEIR NUMERICAL SIMULATION
171	SIDDHATH AGRAWAL	AMIT JAIN	REVERSE LOGISTICS AND WASTE MANAGEMENT PLANT
172	SOMBUDDHA	VINAY CHAMOLA	DEVELOP WORKING MODEL OF IOT BASED SMART

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
	CHAKRAVARTY		PARKING LOT
173	SOMIL SINGHAI	ANKUSH C JAHAGIRDAR	SMART AIR QUALITY MANAGEMENT SYSTEM.
174	SOUVIK TA	PRATIK N SHETH	LCA STUDY OF HE THERMO-CHEMICAL CONVERSION PROCESS OF BIOMASS
175	SRISHTI BANZAL	NAVNEET GOYAL	USING NOWCASTING TO PREDICT NATURAL DISASTERS
176	SRISHTI BANZAL	AK GIRI	PREDICTING THE ONSET AND CRASH OF SECURITY PRICE BUBBLES IN INDIAN MARKET
177	SUDHIR GUPTA	B V REDDY	FLOW DYNAMICS IN A PACKED-BED REACTOR WITH DIFFERENT CATALYST SHAPES.
178	SURAJ BANSAL	SHILPI GARG	IDENTIFICATION AND ANALYSIS OF DIFFERENT STRAINS FOR THEIR SELF-HEALING CONCRETE PROPERTIES
179	SUSHANT GUPTA	VISHAL SAXENA	PREDICATION OF OBESITY USING MLA
180	SWARUP N	LAVIKA GOEL	DESIGN OF COMPUTATIONAL BASED QUESTION-ANSWERING SYSTEM
181	TANIA NANDI	ANNUPAMA MITTAL	DESIGNING A NANO CARRIER SYSTEM FOR TARGETING DESOMPLASIA IN CANCER
182	TANMAY DIXIT	HARSHAVARDHAN S	CLASSIFICATION USING DEEP LEARNING NEURAL NETWORKS FOR BRAIN TUMORS
183	TANUJ KUMAR	ANU GUPTA	DESIGN OF DIFFERENTIAL POWER ANALYSIS IMMUNE CIRCUITS FOR ROBUST DATA ENCRYPTION
184	TANYARAJ DHALIWAL	M.S.DASGUPTA	COMPARATIVE STUDY OF VARIOUS FORECASTING TECHNIQUES IN MANUFACTURING
185	TARUN KATARIA	RAJAN PANDEY	BEHAVIORAL ECONOMICS (ASSISTING IN COURSEWORK)
186	UMANG GARG	SAINATH BITRAGUNATA	LIFI DESIGN, APPLICATION AND ITS IMPLEMENTATION
187	URUDULA NEGATRON	VENKATESH KP RAO	STUDY OF THERMAL LESIONS INTRODUCED IN LINER CELLS BY FABRICATED MICRO WATER
188	VAIBHAV JADE	M.S.DASGUPTA	COMPUTER VISION FOR AUTONOMOUS VEHICLES
189	VAIBHAV RAJ	M.S.DASGUPTA	ANALYZING REVERSE LOGISTIC PRACTICES.
190	VAIBHAVI RASTOGI	ANU GUPTA	DESIGN OF A VLSI MODULE FOR CLOCK RECOVERY AT THE RECIEVER END OF A COMMUNICATION SYSTEM
191	VAISHNAVI BHARGAWA	KRISHNENDRA SHEKHAWAT	ENUMERATION OF ALL POSSIBLE RECTANGULAR FLOUR PLANS USING GRAPH THEORIC APPROACH
192	VEDANT BAGHEL	A K SAINI (CEERI)	DECIDING PRODUCT PRICING BASED ON FREQUENCY OF VISITING SITE
193	VIDHAN JOLLY	NITIN CHATURVEDI	DESIGN OF NONVOLATILE SRAM CELL FOR STORING MULTIPLE BITS FOR RUNTIME CONTENT SWICHING FOR IOT APPLICATIONS
194	VIDIT JAIN	SUMEET SAURAV (CEERI)	NOVELTY DETECTION IN SURVEILLANCE SYSTEMS USING GANS
195	VIGNESH HEGDE	JENNIFER RANJANI J	DRIVER DROWSINESS DETECTION
196	VISHNU MADHUSUDAN	M.S.DASGUPTA	EXTENDING THE THERMAL CONTROL CAPABILITIES OF THE COOLING/STORAGE STATION OF THE LEARNING FACTORY AT JJNGEL
197	VISHNU P KASHYAP	K BABU RAVI TEJA	CMOS IC DESIGN USING ARTIFICIAL INTELILLIGENCE
198	VIVEK RAJU GOLANI	SUREKHA BHANOT	STACK GAN TEXT TO IMAGE SYNTHESIS USING GENERATIVE ADVERSIAL NETS.
199	YAJAT DAWAR	KRISHNENDRA SHEKHAWAT	ENUMERATION OF ALL POSSIBLE RECTANGULAR FLOUR PLANS USING GRAPH THEORITIC APPROACH
200	CHOPDE EASHAN JAYANT	DEVESH SAMAIYA	DESIGN OF FLASH PROGRAMMER SHIELD FOR ARDUINO
201	NIHAL SANJAY SINGH	MEETHA V. SHENOY	DEVELOPMENT OF A SECURE IOT SYSTEM
202	SHRAY MATHUR	LAVIKA GOEL	CROP RECOMMENDATION SYSTEM USING NATURE INSPIRED TECHNIQUES

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
203	GANDHI ATITH NIKESHKUMAR	LAVIKA GOEL	BIOGEOGRAPHY BASED OPTIMIZATION WITH EXTINCTION AND EVOLUTION FOR FACE RECOGNITION
204	AARYAN KAPOOR	LAVIKA GOEL	DESIGN OF COMPUTATIONAL BASED QUESTION ANSWERING SYSTEM
205	DIVYANSH MANGAL	ANUPAM SINGHAL	EXPLORING THE VIABILITY OF VERTICAL FARMING IN INDIA - THE TECH, ECONOMICS, AND BATTLING CLIMATE CHANGE
206	MOHIT DHAWAN	LAVIKA GOEL	DESIGN OF COMPUTATIONAL BASED QUESTION ANSWERING SYSTEM
207	KSHITIJ ARORA	MAHESH ANGIRA	DESIGN OF RF MEMS TECHNOLOGY BASED SHUNT CAPACITIVE SWITCHES FOR THE PROPOSED FREQUENCY BAND OF 5G SPECTRUM
208	PRAKHAR AGNIHOTRI	PANKAJ ARORA	DEVELOPMENT OF PEROVSKITE SOLAR CELLS
209	BAVISHI PRANIT BHAVESH	ANU GUPTA	DESIGN OF LOW VOLTAGE LOW POWER SELF BIASED CMOS CURRENT AND VOLTAGE REFERENCE
210	SARTHAK SAHU	D BANDYOPADHYAY	DFT STUDY OF SINGLE-WALLED NANOTUBES AND ITS INTERACTION WITH SMALL-SIZED MOLECULES
211	R NIRANJAN	HITESH DATT MATHUR	MACHINE LEARNING BASED FREQUENCY CONTROL FOR MULTIPLE ENERGY STORAGE SYSTEMS
212	RONAK BHATTAD	NITIN CHATURVEDI	DESIGN OF RETENTIVE SRAM FOR IOT PROCESSOR OPERATING ON INTERMITTENT ENERGY.
213	SAHILI V TOTALE	RAJIV GUPTA	SUSTAINABLE WATER MANAGEMENT IN SECONDARY CITIES: AN ECONOMIC AND FINANCIAL ANALYSIS
214	ANANYA SINGH	PRIYA C SANDE	3D CFD SIMULATION OF A MINIATURE FLUIDIZED BED
215	GANDHI YASHAS TEJASKUMAR	P SRINIVASAN	ACCUMULATOR COOLING SYSTEM DESIGN FOR FSAE ELECTRIC VEHICLE
216	MASHRU LUVE SHAILESH	DR. HARE KRISHNA MOHANTA	DESIGNING SOFT SENSORS USING NEURAL NETWORK
217	RIGVITA SHARMA	SUREKHA BHANOT	APPLICATIONS OF GAN AND ITS VARIANTS
218	VIBHU I VERMA	ANU GUPTA	DESIGN AND ANALYSIS OF INTEGRATE AND FIRE NEURON USING CMOS DEVICES
219	AATMAN BORDA	ANU GUPTA	DESIGN OF LOW DROPOUT IC VOLTAGE REGULATOR WITH BANDGAP REFERENCE CIRCUIT
220	ROKADE AMEY RAJENDRA	ANU GUPTA	DESIGN AND ANALYSIS OF HIGH PERFORMANCE CMOS MIXED SIGNAL CIRCUITS.
221	YASH GOSWAMI	D BANDYOPADHYAY	DESIGNING OF PURE AND TRANSITION METAL-DOPED (MG)N NANOCLUSTERS USEFUL FOR HYDROGEN STORAGE. (TRANSITION METAL - COBALT)
222	SAGAR SALUJA	D BANDYOPADHYAY	PHYSICS OF AN ELECTRIC/ACOUSTIC GUITAR
223	NISHANT GUPTA	SAINATH BITRAGUNTA	ENERGY EFFICIENT SATELLITE (CUBESAT) / GREEN SATELLITE COMMUNICATION DESIGN AND ANALYSIS.
224	ASHWIN P	D BANDYOPADHYAY	DESIGN OF PURE AND TRANSITION METAL DOPED (MG)N NANO CLUSTERS USEFUL FOR HYDROGEN STORAGE.(TRANSITION METAL-TITANIUM)
225	VINAY U PAI	MAHESH ANGIRA	DESIGN OF A LOW NOISE AMPLIFIER USING CMOS TECHNOLOGY WITH FOCUS ON A PARAMETER SUCH AS LINEARITY
226	AMEY MUKUND SHITOLE	NITIN CHATURVEDI	SECURING IOT DATA USING BLOCKCHAIN PROTOCOLS (IN COLLABORATION WITH CEERI)
227	SUMUKH NITUNDIL	MAHESH ANGIRA	DESIGN OF A HIGH EFFICIENCY RF POWER AMPLIFIER AND COMPARISON WITH COMMERCIAL RF AND OPTICAL (EDFA) AMPLIFIERS.
228	ANUPAM AGGARWAL	V S SHEKHAWAT	TRAFFIC MONITORING AND ANALYSIS IN SOFTWARE DEFINED NETWORKING.
229	RANADIVE SAHIL	VISHAL GUPTA	DDOS ATTACKS: DETECTION AND MITIGATION IN

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
	ASHISH		SDN
230	NIRAV BHANDARI	S U BELGAMWAR	DESIGN OF ELECTRONICS AND MECHANICAL SYSTEMS OF AN ELECTRIC POWERED WHEEL CHAIR
231	SARTHAK MAHAPATRA	S U BELGAMWAR	DESIGN OF ELECTRONICS AND MECHANICAL SYSTEM OF ELECTRIC POWERED WHEELCHAIR
232	SARTHAK BARAL	S U BELGAMWAR	DESIGN OF THE CONTROLLER AND MECHANICAL SYSTEM OF AN ELECTRIC POWERED WHEEL CHAIR
233	HARSHVARDHAN AGRAWAL	RAHUL SINGHAL	PERFORMANCE ANALYSIS OF FSO SYSTEM WITH 2X2 MIMO TECHNIQUE
234	NAVJOT BANSAL	V S SHEKHAWAT	TRAFFIC MONITORING AND ANALYSIS IN A SDN
235	NAMAN TODWAL	VAIBHAV SONI	LOAD BALANCED CLUSTERING ALGORITHM FOR WIRELESS SENSOR NETWORKS
236	NILAY ARORA	VISHAL GUPTA	DETECTION, MITIGATION, AND PREVENTION OF DDOS ATTACKS IN SDN ENVIRONMENT.
237	DHAIVATA UTKARSH PANDYA	V S SHEKHAWAT	DYNAMIC TASK ALLOCATION FOR EFFICIENT MULTI-ROBOT COORDINATION
238	AAYUSH NAGPAL	AMIT DUA	THE APPLICATION OF BLOCKCHAIN IN REAL-LIFE PROBLEMS
239	PRAKALP TIWARI	AMIT DUA	THE APPLICATION OF BLOCKCHAIN IN REAL-LIFE PROBLEMS
240	PRAKHAR GUPTA	ANKUSH CHANDRAKANT JAHAGIRDAR	IMPLEMENTATION OF FOURIER NEURAL NETWORK
241	SARTHAK BANSAL	S U BELGAMWAR	DESIGNING AND FABRICATION OF A NOZZLE THAT CAN BE FITTED INTO THE TAP TO REDUCE WATER CONSUMPTION.
242	VATSAL JIGNESH BADAMI	NAVNEET GOYAL	IMAGE CAPTIONING
243	APOORVA AGRAWAL	AMIT DUA	DESIGNING RECOMMENDER SYSTEMS USING DEEP LEARNING
244	SHENDE VIJAYENDRA DNYANESHWAR	HARI OM BANSAL	ESTIMATION OF SOC FOR APPLICATION IN BATTERIES OF HYBRID ELECTRIC VEHICLES
245	MUSTANSIR MOHAMMED MAMA	KRISHNENDRA SHEKHAWAT	A STUDY OF GRAPH THEORETIC AND OPTIMISATION TOOLS FOR FLOORPLANNING
246	ABHILASH NEOG	VAIBHAV SONI	OBJECT DETECTION IN AERIAL IMAGES USING DEEP LEARNING
247	DIDWANIA PRANAY RAJESH	KULDIP SINGH SANGWAN	TO DEVELOP DIGITAL TWIN OF THE SEPARATING MODULES OF THE LEARNING FACTORY AT THE JOINT INDO GERMAN EXPERIENCE LAB.
248	PUNEET ANAND	KRISHNENDRA SHEKHAWAT	GRAPH THEORETIC AND OPTIMIZATION TOOLS FOR FLOOR PLANNING
249	APOORVA	SAINATH BITRAGUNTA	DESIGN, MODELLING AND PERFORMANCE ANALYSIS OF HYBRID RF/FSO INTER-SATELLITE LINKS WITH MULTIBEAM SELECTION FOR CUBESATS
250	NIKKI GUPTA	VAIBHAV SONI	COMPUTER VISION IN LOW VISIBILITY
251	K SAI CHAKRADHAR REDDY	J. JENNIFER RANJANI	CONCEALED WEAPON DETECTION AND RECOGNITION USING MACHINE LEARNING/DEEP LEARNING
252	VINAY	DIPENDU BHUNIA	BASE ISOLATION FOR EARTHQUAKE RESISTING DESIGN OF STRUCTURE.
253	AMAN GARG	RAJESH KUMAR	STUDY OF LOW-RANK APPROXIMATION FOR DIMENSIONALITY REDUCTION
254	MADHUR PANWAR	RAJESH KUMAR	STUDY OF LOW RANK APPROXIMATION FOR DIMENSIONALITY REDUCTION
255	SATYAM ANAND	PANKAJ ARORA	PAPER BASED MICROFLUIDIC DEVICES
256	ANUJ ANIL PATEL	ARUN KUMAR JALAN	DEVELOPMENT OF GUI IN MATLAB FROM CODE TO INTERFACE.
257	LAKSHYA KWATRA	YENUGANTI SUJAN	SENSOR-BASED APPLICATION OF PIEZOELECTRIC MATERIALS

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
258	AAYUSH SHARMA	JANARDAN PRASAD MISRA	DESIGN OF INCREMENTAL FUZZY PID CONTROL
259	ARTH ABHINAV ROHATGI	JANARDAN PRASAD MISRA	DESIGN OF INCREMENTAL FUZZY PID CONTROL.
260	AABHAAS VAISH	VINAY CHAMOLA	DESIGN OF A BRAIN COMPUTER INTERFACE SYSTEM FOR CONTROLLING THE NAO HUMANOID BOT
261	KARTIKEYA ARYAN AGARWAL	VINAY CHAMOLA	ML-BASED BCI CONTROLLED HUMANOID DESIGN
262	MANSI BANSAL	RAJESH KUMAR (CIVIL)	THERMAL STABILITY OF RANDOMLY DISTRIBUTED LAMINATED COMPOSITE PLATE
263	ISHAN NIGAM	SYAMANTAK MAJUMDER	BLOOD FLOW MODEL - HAEMODYNAMICS
264	ASHISH KUMAR TRIPATHI	RAJDEEP CHOWDHURY	3D PRINTING TUMOR CELLS AND ITS APPLICATIONS
265	AYUSH KUMAR BOTHRA	RAJDEEP CHOWDHURY	3D PRINTING TUMOR CELLS AND ITS APPLICATIONS
266	UTKARSH TRIPATHI	BIBHAS RANJAN SARKAR	VIRTUAL REALITY ENHANCED MOLECULAR AND STRUCTURE VISUALIZATION
267	PINTO KEVIN ANTHONY	PUNEET MISHRA	IMPLEMENTATION OF SMART HOME TECHNOLOGY USING INTERNET OF THINGS(IOT).
268	ASHWIN PODUVAL	KAVINDRA KANDPAL	DESIGN OF THIRD ORDER GM-C FILTER WITH UMC 90NM CMOS TECHNOLOGY.
269	PIYUSH BHATT	DEVESH SAMAIYA	DESIGN OF FLASH PROGRAMMER SHIELD FOR ARDUINO
270	CHAITANYA CHAUHAN	RAJNEESH KUMAR	DEVELOPMENT OF INTELLECTUAL ENERGY CONCEPT FOR AI TRAINING
271	RAMA TEJA GANDHAM	RAJ KUMAR GUPTA	APPLICATIONS OF IMAGE PROCESSING.
272	ISHA BHORKAR	PRIYA C SANDE	PARTICLE IMAGING IN MULTIPHASE FLOW
273	SHREYA JOHRI	PRIYA C SANDE	PARTICLE IMAGING IN MULTIPHASE FLOW
274	PRITHVI RAJ	JANARDAN PRASAD MISRA	ANALYSING TECHNIQUES FOR IMPROVING ENERGY EFFICIENCY OF DISK STORAGE SYSTEMS AND IMPROVING UPON EXISTING TECHNIQUES USING ALGORITHM DESIGN METHODS
275	NAMAN KANSAL	J S RATHORE	UNDERSTANDING SKIN-FRICTION COEFFICIENT
276	ABHIMANYU RAJ SHEKHAR	SHETH PRATIK N	MACROSCOPIC MODELING AND SIMULATION OF THERMOCHEMICAL CONVERSION OF BIOMASS
277	ADITYA AGRAWAL	HARI OM BANSAL	DESIGNING OF CONTROL STRATEGY FOR ENERGY OPTIMIZATION IN A HYBRID ELECTRIC VEHICLE
278	ANURAG MALLICK	PRAVEEN KUMAR A.V.	STUDIES ON RF RESONATOR BASED SENSORS
279	VISHNU P KATKOORI	AJAYA KUMAR PANI	STUDY AND APPLICATION OF MULTIVARIATE OUTLIER DETECTION TO LARGE SCALE POWER PLANT DATA
280	MANAN AGARWAL	SADHANA JHA	HEART ANOMALY DETECTION BY ANALYZING STETHOSCOPE SOUNDS USING MACHINE LEARNING
281	SUSHANT KUMAR	RAJ KUMAR GUPTA	APPLICATIONS OF IMAGE PROCESSING.
282	ANKITA CHAKRAVARTY	SADHANA JHA	HEART ANOMALY DETECTION BY ANALYZING STETHOSCOPE SOUNDS USING MACHINE LEARNING
283	SARGUN SINGH	KAMLESH TIWARI	QUESTION ANSWERING SYSTEM
284	ANKUR JAIN	PRIYANSH SINGH	STATISTICAL EVALUATION OF DIFFERENT MIXTURE PARAMETERS IN ASPHALT PERFORMANCE
285	SRUJANA N	MUKESH KUMAR ROHIL	DESIGN OF A SYSTEM FOR SANSKRIT TEXT-TO-SPEECH USING AI TECHNIQUES
286	MARATHE SHRIYA AMEY	ASHOKE KUMAR SARKAR	THE CONTRIBUTION OF TRAFFIC PATTERNS TOO VEHICULAR POLLUTION AND POSSIBLE POLICY AND ENGINEERING SOLUTIONS
287	DUBEY SAHIL RAMAKANT	KAMLESH TIWARI	FINGERPRINT COREPOINT DETECTION

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
288	BHASKAR ROKANA	PANKAJ KUMAR SHARMA	DESIGNING ACTIVE LEARNING EXERCISES FOR TEACHING OF EVOLUTIONARY BIOLOGY
289	DEEPANSHU SHARMA	SHETH PRATIK N	MACROSCOPIC MODELLING AND SIMULATIONS OF THERMOCHEMICAL CONVERSION OF BIOMASS
290	ABHISHEK GUPTA	RAJDEEP CHOWDHURY	CANCER METABOLOMICS
291	ABHISHEK GUPTA	RAJDEEP CHOWDHURY	CANCER METABOLOMICS
292	LATURIYA YASH SANJAY	P SRINIVASAN	APPLICATION OF BIOHEAT TRANSFER IN HYPERTHERMIA
293	JAHNAVI TIWARI	AJAYA KUMAR PANI	STUDY AND APPLICATION OF MULTIVARIATE OUTLIER DETECTION TO LARGE SCALE POWER PLANT DATA
294	KANAV PURI	AJAYA KUMAR PANI	PID CONTROLLER AND/OR MODEL PREDICTIVE CONTROL DESIGN FOR LEVEL AND PRESSURE CONTROL SYSTEM
295	AASHISH SINGH	V S SHEKHAWAT	TRAFFIC MONITORING IN SOFTWARE DEFINED NETWORKS
296	AMBUJ UPADHYAY	SHIBASISH CHOWDHURY	UNDERSTANDING THE STRUCTURE-FUNCTION RELATIONSHIP OF MIRNA-MRNA COMPLEX USING MOLECULAR DYNAMIC MODELLING
297	SHIVAM SONI	VIRENDRA S NIRBAN	URBAN-STACK - UNI MOBILITY.
298	DIMPLE	SUSHILA SHEKHAWAT	TO EXPLORE THE INCLUSION OF ENVIRONMENT EDUCATION AS A SUBJECT IN THE SCHOOLS OF PILANI.
299	SAKSHI AGARWAL	PAWAN KAMALKISHOR AJMERA	SPOKEN LANGUAGE RECOGNITION
300	SANCHAY JAIN	RUPAM GOSWAMI	STUDIES AND DESIGN OF AN OFFLINE RANDOM NUMBER GENERATOR BASED ON IMAGE MANIPULATION
301	MANU R SRIVATHSA	ANIL KUMAR	DESIGN AND SYNTHESIS OF PI-CONJUGATED IMIDAZOHETROCYCLES AND STUDY OF THEIR PHOTOPHYSICAL PROPERTIES
302	UTKARSH DIXIT	RAJDEEP CHOWDHURY	CANCER METABOLOMICS
303	AMAN GUPTA	AJAYA KUMAR PANI	USE OF ARTIFICIAL INTELLIGENCE FOR SURFACE ROUGHNESS PREDICTION
304	ACHINTYAA TEWARI	ABHISHEK DHOBLE	MICROBIOMES IN MICROGRAVITY (P008)
305	ARPIT AGARWAL	ABHISHEK DHOBLE	APPLICATION OF MACHINE LEARNING IN CHEMICAL AND BIOSYSTEMS ENGINEERING (CHEMBIOSYS)
306	ANNIE RAWAT	DR NAVNEET GOYAL	APPLYING BAYESIAN PRINCIPLE TO ELIMINATE NOISE FROM ACCELEROMETER SENSOR
307	SOHIT AGGARWAL	SMITA RAGHUVANSHI	VALIDATION OF RATE KINETIC MODELS FOR CO ₂ SEQUESTRATION STUDIES.
308	PALLAV SONI	AJAYA KUMAR PANI	PID CONTROLLER AND/OR MODEL PREDICTIVE CONTROL DESIGN FOR LEVEL AND PRESSURE CONTROL SYSTEM.
309	JOSON MATHEW JOSE	SOMAK CHATTERJEE	SCALE-UP STUDIES OF DIFFERENT FIXED BED ADSORPTION PROCESSES FOR FLUORIDE REMOVAL
310	SHAH NEEL KAUSHIK	RAJESH KUMAR (CS)	EVALUATION OF CYBER-RISK TRANSFER STRATEGIES USING GAME-THEORETIC MODELS
311	AASHISH AGGARWAL	SURESH GUPTA	APPLICATION OF DATA ANALYTICS TO PROCESS INDUSTRIES
312	SOMYA AGRAWAL	SURESH GUPTA	APPLICATION OF DATA ANALYTICS TO PROCESS INDUSTRIES
313	VAGISH GARG	SMITA RAGHUVANSHI	THERMODYNAMIC AND KINETIC ANALYSIS OF EXPERIMENTAL DATA OBTAINED FROM CO ₂ MITIGATION STUDIES.
314	ROHAN KUMAR ROHIL	B K SHARMA	DESIGN AND DEVELOPMENT OF A FINGERPRINT CLASSIFICATION SYSTEM USING QR

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			DECOMPOSITION
315	ADVITYA SAPRA	RAVI KANT MITTAL	OPTIMUM SOLUTION FOR FOUNDATIONS AND RETAINING STRUCTURES
316	AAYUSH DANDI	MUKESH KUMAR ROHIL	DESIGNING A GRAMMAR AND FRACTAL BASED SYSTEM FOR VISUALIZATION OF HERBS
317	CHAITANYA CHAUHAN	NITIN CHATURVEDI	DESIGN AND ANALYSIS OF CACHE ARCHITECTURE AND CACHE COHERENCE PROTOCOLS
318	HONNESH ROHMETRA	PRATIK NARANG	DESIGNING DEEP LEARNING APPROACHES FOR COMPUTER VISION
319	TANYA SYAG	SANGEETA SHARMA	TO UNDERSTAND THE EXISTING MARKETING STRATEGIES AND FACTORS AFFECTING CUSTOMER KNOWLEDGE , SALES AND ULTIMATELY THE PROFIT.
320	PRIYANKA VERMA	N V MURALIDHAR RAO	CAUSAL INFERENCE IN ECONOMICS: TIME SERIES AND MACHINE LEARNING ANALYSIS
321	GAURAV AGRAWAL	SURESH GUPTA	APPLICATION OF DATA ANALYTICS IN PROCESS INDUSTRIES
322	ADITYA SAXENA	MUKESH KUMAR ROHIL	DESIGN OF BUSINESS INTELLIGENCE FOR BETTER VISIBILITY OF STATE OF A SUPPLY CHAIN.
323	ANIRUDH ANILKUMAR GOYAL	MUKESH KUMAR ROHIL	DESIGN OF A SYSTEM TO IMPROVE SUPPLY CHAIN THROUGH BUSINESS INTELLIGENCE
324	APOORV SINGH	TUFAN CHANDRA BERA	COMPUTATIONAL STUDY OF HARDFACING BY USING TIG TORCH.
325	SHARMA PRAKHAR ASHISH	PRATEEK KALA	DEVELOPMENT OF A 3 AXIS CNC TABLE
326	GOYAL RISHABH MANOJ	ABHISHEK DHOBLE	APPLICATION OF MACHINE LEARNING IN CHEMICAL AND BIOSYSTEMS ENGINEERING (CHEMBIOSYS)
327	KUMAR SHIVAM	SOMAK CHATTERJEE	SCALE UP STUDIES OF DIFFERENT FIXED BED ADSORPTION PROCESSES FOR FLUORIDE REMOVAL
328	MAYANK HEMANT KULKARNI	D BANDYOPADHYAY	MODELLING OF NANO-TUBES USEFUL FOR ADSORPTION OF GAS MOLECULES OF ENVIRONMENTAL POLLUTANTS
329	PULLAH BHATNAGAR	RAJESH PRASAD MISHRA	DESIGN FOR RELIABILITY OF ROLLING STOCK
330	PRANAV SINGH RATHORE	SUSHILA SHEKHAWAT	TO EXPLORE THE CINEMATIC STYLE OF FOUR DIFFERENT TYPES OF FILM SCHOOLS AND DESIGN SPECIFIC STYLE BY MAKING A SHORT FILM.
331	REVENTH SHARMA	SURESH GUPTA	APPLICATION OF DATA ANALYTICS IN PROCESS INDUSTRY
332	NITISH BAHL	NITIN CHATURVEDI	INTERFACING BLUETOOTH LOW ENERGY IOT DEVICE TO WINDOWS 10
333	ADITYA LADDHA	ARUN KUMAR VAISH	CREDIT RISK MODELLING
334	YAWALEKAR KAUSTUBH ATUL	VAIDYA RISHIKESH D	GREY WATER RECYCLING SYSTEM(GWRS)
335	KALGAONKAR PARTH SAMEER	S GURUNARAYANAN	DESIGN OF HIGH PERFORMANCE ARITHMETIC CIRCUITS
336	VICHARE SHANTANU SURYAKANT	KAMLESH TIWARI	TRUE FEATURE DETECTION IN FINGERPRINTS
337	PRAKHAR SHARMA	ARVIND KUMAR SHARMA	ENERGY INTEGRATION: THERMODYNAMIC PERSPECTIVES
338	HURKAT PIYUSH RADHESHYAM	P R DEEPA	UNDERSTANDING THE CURRENT STATUS OF RESEARCH AND DEVELOPMENT OF BIO-PLASTICS
339	ADARSHA MANI	PAWAN KAMALKISHOR AJMERA	BIOMEDICAL SIGNAL PROCESSING
340	RUSHI BABARIA	RAKESH CHOUBISA	EXPLORING AND STUDYING CHAOS DATA , AND FINDING FOR THE BEST TYPE OF NEURAL NETWORK TO MODEL IT.
341	BHAVESH RANJIT CHAND	RAKESH CHOUBISA	DEVELOPMENT OF ARTIFICIAL NEURAL NETWORKS FOR ANALYSIS OF CHAOTIC SYSTEMS

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
342	RAGHAVENDRA MAHESHWARI	AMIT DUJA	APPLICATION OF GAME THEORETICAL APPROACH IN REAL LIFE SITUATIONS
343	JAY GOYAL	RAJESH PRASAD MISHRA	DEVELOPMENT OF SAFETY MODEL FOR DESIGNING AND UNDERSTANDING INDUSTRIAL SAFETY BY COMPARING FAULT TREE, BAYESIAN NETWORK AND FRAM APPROACHES
344	NISHAD SAHU	CHANDRA SHEKHAR (EEE)	MODELING AND SIMULATION OF NON - IDEAL CHARACTERISTICS IN ISFET BASED PH SENSOR AND ITS COMPENSATION THROUGH MACHINE LEARNING TECHNIQUES FOR ACCURATE APPLICATIONS.
345	VAIBHAV	ANSHUMAN DALVI	TO DESIGN AND FABRICATE LIQUID CRYOSTAT FOR ELECTRICAL CONDUCTIVITY STUDIES.
346	ASHUTOSH SANCHETI	VINAY CHAMOLA	SECURITY IN ICS IIOT SYSTEMS
347	UMANG GARG	PRAVEEN KUMAR A.V.	STUDIES ON HIGH GAIN DIELECTRIC RESONATOR ANTENNA
348	BHAWANA JAIN	SUJAN YENUGANTI	APPLICATION OF PIEZOELECTRIC SENSORS IN GLUCOSE DETECTION
349	AKSHIT GOEL	CHANDRA SHEKHAR (EEE)	DOMAIN SPECIFIC ARCHITECTURES (PERTAINING TO ARTIFICIAL INTELLIGENCE/MACHINE LEARNING DOMAIN)
350	SANKALP SANJAY SANGLE	V S SHEKHAWAT	REALIZING MPLS BASED TRAFFIC FLOW MANAGEMENT USING SOFTWARE DEFINED NETWORK.
351	ANUVIND BHAT	ABHISHEK MISHRA	VARIABLE NEIGHBORHOOD SEARCH FOR THE SET ORIENTEERING PROBLEM
352	VIGNESH NAGARAJAN	KAVINDRA KANDPAL	SURFACE POTENTIAL MODEL FOR OXIDE THIN-FILM TRANSISTORS
353	AMITABH SHARMA	PUNEET MISHRA	DEVELOPMENT OF ADAPTIVE INTELLIGENT CONTROL SCHEME/S FOR CONTROL APPLICATIONS.
354	AMAN GUPTA	RAHUL SINGHAL	PERFORMANCE ANALYSIS OF THE FSO SYSTEM WITH SISO & MISO TECHNIQUES
355	ABHISHEK JAIN	PRAVEEN KUMAR A.V.	MAXIMIZE CAPTURING OF THE PARTICLES AT THE CAVITY END USING TAPERING OF CAVITY
356	PAVAN R	GAURAV WATTS	ISOGEOMETRIC ANALYSIS OF LAMINATED COMPOSITE STRUCTURES
357	SHIVAM SINGH	ANUPAM SINGHAL	DESIGN OF OPTIMUM DISTRIBUTION NETWORK OF POTABLEWATER AND WASTE WATER RECYCLING
358	SANKET JAIN	RAJESH KUMAR (CIVIL)	VIBRATION ANALYSIS OF CNT-REINFORCED LAMINATED COMPOSITE PLATE.
359	PRITYESH RAJ	RAJESH KUMAR (CIVIL)	VIBRATION ANALYSIS OF CNT-REINFORCED LAMINATED COMPOSITE PLATE
360	NIRANJAN ARUN RAO	RUPAM GOSWAMI	DEEP LEARNING ARCHITECTURE FOR GESTURE RECOGNITION
361	SHREYANSH CHANDAK	PRATIK NARANG	DEEP LEARNING IN COMPUTER VISION
362	ADIL KHAN	SHYAM SUNDER	PERFORMANCE ANALYSIS OF A WANKEL ENGINE USING COMPUTATIONAL TOOLS
363	SAHARSH AGARWAL	KULDIP SINGH SANGWAN	LEARNING FACTORY
364	SANGAM	SUSHILA SHEKHAWAT	TO EXPLORE THE INCLUSION OF ENVIRONMENT AS A SUBJECT IN THE SCHOOLS CURRICULUM.
365	KUNAL GUPTA	PRIYANSH SINGH	STATISTICAL EVALUATION OF DIFFERENT MIXTURE PARAMETERS IN ASPHALT PERFORMANCE.
366	ROHIT MANDAR	SANGEETA SHARMA	TO UNDERSTAND THE EXISTING MODELS FOR MARKETING STRATEGIES AND FACTOR AFFECTING CUSTOMER KNOWLEDGE, SALES AND ULTIMATELY THE PROFIT.
367	ADITYA MAHIL	BHANU VARDHAN REDDY KUNCHARAM	DEVELOPMENT OF CFD MODEL FOR STUDYING MIXING PATTERNS IN PHARMACEUTICAL INDUSTRY.

DESIGN PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
368	MONIKA SAINI	ANIL RAI	FOLK MUSIC OF RAJASTHAN (LOK SANGEET)
369	HRITHIK ADHIKARI	HOLKUNDKAR AMOL RAMDAS SHILPA	NUMERICAL ANALYSIS OF TDSE IN TWO DIMENSIONS.
370	ADITYA SODHANI	KAVINDRA KANDPAL	DESIGN OF HIGH SPEED LOW POWER DYNAMIC COMPARATOR IN UMC 90NM TECHNOLOGY
371	BAL RAM	ANIL RAI	FOLK MUSIC OF RAJASTHAN (LOK SANGEET)
372	ADITYA SHARMA	PRAVEEN GOYAL	EFFECT OF POLITICAL ADVERTISING IN INFLUENCING CONSUMER'S VOTING PATTERN

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
1	AABHAAS VAISH	VINAY CHAMOLA	BRAIN COMPUTER INTERFACE CONTROLLED HUMANOID (2018SS2302)
2	AAYUSH CHUDGAR	NAVNEET GOYAL	GENERATING DESCRIPTIONS FOR VIDEOS
3	ABHAY AGARWAL	DHIRAJ SANGWAN (CEERI)	DAMAGE DETECTION IN BRIDGES USING MACHINE LEARNING
4	ABHAY GUPTA	RAM KINKAR ROY	VERIFICATION OF LINEAR FREE ENERGY RELATIONSHIP (LFER) THROUGH DENSITY FUNCTIONAL REACTIVITY THEORY (DFRT)
5	ABHILASH NEOG	NAVNEET GOYAL	DOMAIN SPECIFIC LANGUAGE DESIGN FOR CLASSIFICATION
6	ABHINAV SINGH	M.S.DASGUPTA	FAILURE ANALYSIS OF VARIOUS COMPONENTS USING CASE STUDIES
7	ABHISHEK GHOSH	B. A. BOTRE (CEERI)	3D MAPPING OF INDOOR AND OUTDOOR ENVIRONMENT USING SLAM ALGORITHM ON UAV.
8	ABHISHEK GUPTA	M.S.DASGUPTA	STUDY OF MACHINE LEARNING ASPECT IN MANUFACTURING
9	ABHYUDAY SHARMA	ANUPAM SINGHAL	CHARACTERIZATION OF ELECTROPLATING SLUDGE AND ITS UTILIZATION
10	ABSHIT BORDIA	RAJIV GUPTA	TRUTHLISE DEFECTION FROM BIHAR MID DAY MEAL DATA. (BINARY CLASSIFICTION)
11	ACHAL AGARWAL	SHAN BALASUBRAMANIAM	DESIGN AND ANALYSIS OF PARALLEL HIERARCHICAL CLUSTERING ALGORITHMS
12	ADITAYA RAJ ROSHAN	DIPENDU BHUNIA	COMPARATIVE STUD OF DIFFERENT CONSTRUCTION MATERIALS WITH VARYING COMPOSITION.
13	ADITI	ANSHUMAN DALVI	ELECTRONIC TRANSPORT IN NASICON- GLASS CERAMICS
14	ADITYA GOYAL	AMIT DUA	STOCHASTIC PROCESS BASED DEMAND RESPONSE MANAGEMENT SYSTEM IN SMART GRID
15	ADITYA MASOOR	MUKESH KUMAR ROHIL	A COMPARATIVE STUDY OF OBJECT DETECTION TECHNIQUES FOR NOISY IMAGES
16	ADITYA VENIKAR	R. K. GUPTA	DEVELOPMENT OF BREWSTER ANGLE MICROSCOPE & ITS APPLICATIONS FOR THIN FILM IMAGING
17	AKANKSHYA MISHRA	NAVNEET GOYAL	MATCHING OF TWEET TEXT TO IMAGE
18	AKASH GOYAL	S B SINGH	POST BUCKLING ANALYSIS OF FIBRE REINFORCED PLATES
19	AKHIL MILUGURI	SHIBANI K JHA	SIGNIFICANCE OF BED ROUGHNESS ON OPEN CHNNEL FLOW CHARACTERISITICS
20	AKSHAT BARANWAL	ANKUSH C JAHAGIRDAR	THE DRIVER DISTRACTION DETECTOR ALGORITHM.
21	AKSHAY MAHAJAN	DIPENDU BHUNIA	COMPARATIVE STUD OF DIFFERENT CONSTRUCTION MATERIALS WITH VARYING COMPOSITION.
22	AMAAYAA GOSWAMI	R. K. GUPTA	ELECTROCHEMICAL STUDIES USING FUNCTIONALISED GRAPHENE LAYER
23	AMAN GUPTA	POONAM GOYAL	DATA STRCUTURES FOR EFFICIENT ANYTIME DATA

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			MINING ALGORITHMS
24	ANIMESH JAIN	M.S.DASGUPTA	TO DEVELOPS A SELF BALANCED BIKE
25	ANKIT AGARWAL	PANKAJ SHARMA	ISDATION OF FLAVONOIDS FROM SELECTED PLANTS
26	ANKIT SINGH	PANKAJ ARORA	DESIGN AND FPGA IMPLEMENTATION OF TURBO DECODING.
27	ANKUR NANGALIA	SANGITA YADAV	NUMERICAL ANALYSIS FOR DIFFERENTIAL EQUATIONS
28	ANNAPURNA S RAO	SMITA RAGHUVANSHI	DEFLUORIDATION STUDIES USING NANO- ADSORBENT IN DRINKING WATER
29	ANNIE RAWAT	A. S. MANDAL (CEERI)	DEEP LEARNING BASED CANCER DRUG DISCOVERY
30	ANOOPAM MISHRA	A. S. MANDAL (CEERI)	DEEP LEARNING BASED CANCER DRUG DISCOVERY
31	ANUBHAV ELHENCE	ANSHUMAN DALVI	ELECTROCHEMICAL STABILITIES OF NASICONS DISPERSED IN POLYMERS
32	ANURAG SHARMA	ASHISH PATEL	SOC ESTIMATION AND LIFETIME ESTIMATION OF LI- ION AND LIP BATTERY FOR ELECTRIC VEHICLES.
33	ANUVIND BHAT	SHAN BALASUBRAMANIAM	AUTOMATIC PARALLELIZATION OF DATA DISTRIBUTION AND DATA STRUCTURES FOR DATA MINING ALGORITHMS
34	ANVSATYA CHOUDHARY	PRASHANT U MANOHAR	DEVELOPMENT OF PORTABLE COMPUTER CODES FOR EVALUATION OF VARIOUS ELECTRONIC ENERGIES (OVERLAPP INTEGRAL KINETIC ENERGY INTEGRAL, UNCLEAR ATTRACTION ENERGY ET.)
35	APOORV LAL	SMITA RAGHUVANSHI	APPLICATION OF CLO ₂ IN CONTROLLING BIO GROWTH OVER HEAT EXCHANGERS AND DEMONSTRATION OF EFFECTIVENESS OF CLO ₂ OVER CL ₂
36	APOORVA GUPTA	SMITA RAGHUVANSHI	APPLICATION OF CLO ₂ IN CONTROLLING BIO GROWTH OVER HEAT EXCHANGERS AND DEMONSTRATION OF EFFECTIVENESS OF CLO ₂ OVER CL ₂
37	ARINDAM KUMAR B	RAJEEV TALIYAN	TO STUDY AND FORMULATION OF NANO-CARRIER BASED DRUG DELIVERY SYSTEM FOR ANTI-PARKINSON AGENTS
38	ARUSHI MADAN	A. S. MANDAL (CEERI)	DEEP LEARNING BASED CANCER DRUG DISCOVERY.
39	ASHUTOSH AGARWAL	SUMEET SAURAV (CEERI)	DRIVER DROWSINESS DETECTION
40	ASHUTOSH SAHOO	SMITA RAGHUVANSHI	DESIGN AND DEVELOPMENT OF BIO-FILTER SYSTEM FOR REMOVAL OF SOX AND NOX
41	ASNANI JAYANT JAGDISH	M.S.DASGUPTA	FAILURE ANALYSIS OF VARIOUS COMPONENTS USING CASE STUDIES
42	AYAN DAS	ARUN KUMAR JALAN	FAULT ANALYSIS OF BEARINGS BY GENETIC ALGORITHM AND STATISTICAL METHODS.
43	AYUSH BANSAL	PAWAN K AJMERA	AI BASED MODEL FOR A SHAPE MEMORY ALLOY WIRE ACTUATOR
44	AYUSHMAAN CHHABRA	RUPAM GOSWAMI	USING MACHINE LEARNING TO DETECT STRUCTURAL DEFECT IN 3D MODELS OF HERITAGE SITE.
45	BHAVESH NAVANDAR	PRIYA C SANDE	PETROLEUM AND PETROLEUM FRACTIONS TEST SETUPS AND METHODS
46	CHIRAG PARIKH	RAJDEEP CHOWDHURY	PREPARATION OF NANOPARTICLES FOR BETTER CANCER THERAPY
47	CHITRA	AK VAISH	PARTNERSHIP CREDIT SCORING CLASSIFICATION PROBLEM: A NEURAL NETWORK APPROACH
48	DEBSHANKAR GHOSH	MEGHANA TARE	EXPERIMENTAL ANALYSIS ON THE EFFECT OF MICROORGANISM ON THE FLY MODEL OF HUNTINGTON'S DISEASE
49	DEEP VIKAS KULKARNI	R. K. GUPTA	DEVELOPMENT OF BREWSTER ANGLE MICROSCOPE & ITS APPLICATIONS FOR THIN FILM IMAGING

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
50	DEEP VIKAS KULKARNI	SUMEET SAURAV (CEERI)	DRIVER DROWSINESS DETECTION
51	DEVANSHU TAK	M.S.DASGUPTA	STUDY OF CAVITATION MACHINING
52	DHAIVATA PANDYA	AVINASH GAUTAM	DYNAMIC TASK ALLOCATION FOR EFFICIENT MULTI-ROBOT COORDINATION
53	DHANYA MAHALAKSHMI	SUNIL KUMAR DUBEY	DEVELOPMENT & EVOLUTION OF DRUG LOADED SUPRAMOLECULAR GEL
54	DHRUV AGARWAL	KRISHNA C ETIKA	NANO COMPOSITE FOR EMI SHIELDING APPLICATION
55	DIVITA GUPTA	GIRISH KANT GARG	INFLUENCE OF FEEDERS ON MACHINE TOOL ENERGY CONSUMPTION IN MACHINING PROCESSES
56	DIVYESAKSHI ROHIL	SAUMI RAY	SYNTHESIS CHARACTERIZATION AND REACTIVITY STUDIES OF METAL COMPLEXES ENCAPSULATED IN ZEOLITE-Y.
57	G SAI. SIRISH	RAJDEEP CHOWDHURY	PREPARATION OF NANOPARTICLES FOR BETTER CANCER THERAPY
58	G SHREYAS	PRIYA C SANDE	PETROLEUM AND PETROLEUM FRACTIONS TEST SETUPS AND METHODS
59	GAUTAM PATHAK	POONAM GOYAL	PARALLELIZATION OF ANYTIME CLUSTERING ALGORITHM
60	GURJEET SINGH	RAVI SAINI (CEERI)	OBJECT DETECTION IN AERIAL IMAGES
61	HARSH JAISWAL	YASHVARDHAN SHARMA	FAKE NEWS DETECTION ON SOCIAL MEDIA
62	HARSH SHETH	J. L. RAHEJA (CEERI)	DETECTING SIGNS OF A SUSPICIOUS PACKAGE
63	HITESH AHUJA	CHANDRA SHEKHAR	SEGMENTATION AND EMAGE ANALYSIS OF ABNORMAL LUNGS AT CT USING DEEP LEARNING TECHNIQUES.
64	I.SAI PRASAD	M.S.DASGUPTA	FABRICATION & DESIGN OF PLA BASED COMPOSITE FOR 3D PRINTING
65	INDLA KARTHIK VARMA	SOMSUKLA MAITI (CEERI)	CLASSIFICATION OF MOTOR IMAGERY EEG SIGNALS USING DEEP LEARNING TECHNIQUES
66	ISHA SAINI	ANSHUMAN DALVI	FAST IONIC GARNATES FOR LI ION POLYMER ELECTROLYTES: STUDIES ON DISPERSION
67	ISHAAN AHUJA	R. K. GUPTA	DEVELOPMENT OF BREWSTER ANGLE MICROSCOPE & ITS APPLICATIONS FOR THIN FILM IMAGING
68	ISHAN BHANUKA	POONAM GOYAL	DESIGN AND IMPLEMENTATION OF PARALLEL ALGORITHM FOR DE NOVO WHOLE GENOME ASSEMBLER
69	JAGADEESH PEESA	ANUPAM SINGHAL	EFFECT OF SURAGE FRAMING ON PILANI CAMPUS
70	JAIRAJ PARUTHY	M.S.DASGUPTA	RISK ASSESSMENT OF ROOFTOP SOLAR AS WELL AS UTILITY SEALED SOLAR PROJECTS IN INDIA.
71	JAYENDRA AGRAWAL	S. MURUGESAN	APPLICATION OF COMPUTATIONAL METHODS IN TARGET IDENTIFICATION OF NCES
72	JAYESH AGARWAL	M.S.DASGUPTA	IMPLEMENTATION OF INDUSTRY 4.0 IN BITS WORKSHOP
73	JIVJYOT SINGH	AMIT JAIN	BIOREMEDIATION OF HEAVY METALS FROM WASTE-ENGINE OIL
74	JOYDEEP NAG	RAVI SAINI (CEERI)	OBJECT DETECTION IN AERIAL IMAGES
75	JYOTI VISHNOI	MUKESH KUMAR ROHIL	VISUALIZATION OF 3D OBJECTS FROM 2D IMAGES - ESTIMATE THE DEPTH FROM GIVEN 2D IMAGE
76	KAMESH KUMAR SAINI	PRATIK N SHETH	STEAM GASIFICATION OF BIOMASS FOR HYDROGEN ENRICHED PRODUCER GAS
77	KANISHQ	ANSHUMAN	ROLE OF WATER CONTENT IN MIX DESIGN OF GEOPOLYMER CONCRETE
78	KANNAN. A	S. MURUGESAN	DESIGN AND STUDY OF NOVEL ANTI HIV AGENTS
79	KANUPRIYA SACHDEVA	ATISH T PAUL	TO STUDY EFFECT OF DIFFERENT ANTI OBESITY COMPOSITION-II USING HFD MICE MODEL
80	KAUSHIK MOUR	S B SINGH	POST BUCKLING ANALYSIS OF FIBRE REINFORCED

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			PLATES
81	KESHAV SINGH	SUNIL KUMAR DUBEY	PK/PD MODELING & SIMULATION OF SELECTED DRUGS USING OPENWARE SOFTWARES
82	KOUSTUBH GUPTA	RAVIKANT MITTAL	SUSTAINABLE UTILIZATION OF COPPER SLAG AS STRUCTURES TAILING
83	KULDEEP SINGH NARUKA	ANUPAM SINGHAL	CHARACTERIZATION OF ELECTROPLATING SLUDGE AND ITS UTILIZATION
84	KUNAL JAIN	AVINASH GAUTAM	IMPLEMENTATION OF A HUMAN-COMPUTER INTERACTION SYSTEM FOR AUTONOMOUS NAVIGATION IN AN INDOOR ENVIRONMENT
85	LAKHSITA BHARGAVA	ATISH T PAUL	TO STUDY EFFECT OF DIFFERENT ANTI OBESITY COMPOSITION-I USING HFD MICE MODEL
86	LAKSHYA GARG	M.S.DASGUPTA	SENSOR FUSION IN AUTONOMOUS VEHICLE SYSTEM
87	M RITWIK VENKAT RATNAM	BIBHAS R SARKAR	STUDIES IN ANIMATION OF ALCOHOLS USING METAL CATALYST.
88	MAHESH KAUSHIK	ANSHUMAN	ROLE OF WATER CONTNT IN MIX DESIGN OF GEOPOLYMER CONCRETE
89	MANISH	GAJENDRA SINGH CHAUHAN	A STUDY OF RELATION AND INFLUENCE BETWEEN MEDIA & POLITICS IN INDIA
90	MANU R SRIVATHSA	ANIL KUMAR	METAL FREE OXIDATIVE FUNCTIONALIZATION OF IMIDAZOHETEROCYCLES VIA CROSS DEHYDROGENATIVE CONPLING
91	MAYANK BHUTANI	BHARTI KHUNGAR	DESIGNING EXPERIMENTS FOR INORGANIC LAB IN CHEMISTRY VIRTUAL LAB SOFTWARE.
92	MEGH THAKKAR	AVINASH GAUTAM	DYNAMIC OBJECT DETECTION AND PATH PLANNING FOR FIREBIRD 6
93	MENDU VENKATA SAI SARATH CHANDRA	SOMSUKLA MAITI (CEERI)	CLASSIFICATION OF MOTOR IMAGERY EEG SIGNALS USING DEEP LEARNING TECHNIQUES
94	MIHIR GARG	DIPENDU BHUNIA	BEHAVIOUR OF VARIOUS STRUCTURAL ELEMENTS SUBJECTED TO EARTHQUAKES
95	MOHIT ANAND	SHIBANI K JHA	SIGNIFICANCE OF BED ROUGHNESS ON OPEN CHNNEL FLOW CHARACTERISITICS
96	MOHIT GOYAL	PANKAJ ARORA	DESIGN AND FPGA IMPLEMENTATION OF TURBO DECODING.
97	MOHIT JAIN	PAWAN K AJMERA	AI BASED MODEL FOR A SHAPE MEMORY ALLOY WIRE ACTUATOR
98	MOHIT VYAS	NITIN CHATURVEDI	DESIGN OF NONVOLATILE SRAM CELL FOR STORING MULTIPLE BITS FOR RUNTIME CONTENT SWICHING FOR IOT
99	MUSKAAN CHUGH	RAM KINKAR ROY	COMPUTATIONAL MODELING OF A WHITE EMISSIVE ORGANIC MOLECULE.
100	MUSTANSIR BARTANWALA	PRAMOD KUMAR TANWAR (CEERI)	AUGMENTED REALITY FOR AUTOMATION OF INDUSTRIAL TRAINING PURPOSE
101	NALIN MITTAL	SANJAY SINGH (CEERI)	FACE ANTI-SPOOFING USING DEEP LEARNING
102	NAMAN TODWAL	SANJAY SINGH (CEERI)	ACTION DETERMINATION IN INDUSTRIAL ENVIRONMENT USING SEMI-SUPERVISED LEARNING
103	NAMBURI GANESH	DIPENDU BHUNIA	STUDY ON BEHAVIOUR OF VARIOUS TYPES OF STRUCTURAL ELEMENTS SUBJECTS TO EARTHQUAKE
104	NAREN	VINAY CHAMOLA	SECURITY PROTOCOLS IN IOT SYSTEMS
105	NISHCHAY AGRAWAL	VIRENDRA SINGH SHEKHAWAT	MULTIPATH ROUTING FOR MULTIPATH TCP
106	NURAJ	ANUPAM SINGHAL	DRINKING WATER QUALITY MONITORING AT VARIOUS SUPPLIES USING LOT.
107	PARTH AJAY MACHE	ASHISH PATEL	CONTROL OF DC/DC CONVERTER FOR INTEGRATION OF SOLAR PV
108	PATEL PARTH	K. HARI BABU	DYNAMIC RESOURCE PROVISIONING IN HYBRID SDNS FOR REAL TIME PROVISIONING
109	PIYUSH DUSAD	MEETHA V SHENOY	IMAGE FUSION BASED ON MACHINE LEARNING FOR

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			ROBOTIC APPLICATION
110	PRAJIT DHARA	ANANTHA KRISHNA C	IMPLEMENTATION OF CEFS TO IMPROVE THE ENCODING THE VOWEL FORMANTS FOR HEARING IMPAIRED LISTENERS
111	PRAKHAR SHARMA	PRATIK N SHETH	STEAM GASIFICATION OF BIOMASS FOR HYDROGEN ENRICHED PRODUCER GAS
112	PRANAV SARASWAT	ASHISH PATEL	SOC ESTIMATION AND LIFETIME ESTIMATION OF LI-ION AND LIP BATTERY FOR ELECTRIC VEHICLES.
113	PRATEEK JAIN	PRATEEK KALA	DESIGN AND FABRICATION OF CARBON-FIBER WHEEL RIN
114	PRATUSH SAMAL	BIBHAS R SARKAR	SYNTHESIS OF METAL RGO CATALYST AND APPLICATIONS.
115	PRATYUSH KHANDELWAL	INAMUR R LASKAR	SYNTHESIS OF NEW AGGREGATION INDUCED EMISSION (AIE) ACTIVE MECHANOLUINI COMPOUND AND STUDY OF STRUCTURE PROPERTY RELATIONSHIP.
116	PRATYUSHA ROY	M M PANDEY	PREPARATION & EVOLUTION OF NANO FORMULATIONS
117	PRITHVI RAJ	SHAN BALASUBRAMANIAM	PARALLELISATION OF CLUSTERING ALGORITHMS ON SPARK ARCHITECTURE
118	PRITYESH RAJ	DIPENDU BHUNIA	COMPARATIVE STUD OF DIFFERENT CONSTRUCTION MATERIALS WITH VARYING COMPOSITION.
119	PUNEET GUPTA	B V REDDY	EXTRACTION OF WATER THROUGH ATMOSPHERE BY IMPROVING THE VAPOUR PERMEABILITY OF MEMBRANES & USING MOF
120	R GIRINATH	NAVNEET GOYAL	DOMAIN SPECIFIC LANGUAGE DESIGN FOR CLASSIFICATION
121	RAGHAV AGRAWAL	DIPENDU BHUNIA	BEHAVIOUR OF VARIOUS STRUCTURAL ELEMENTS WHEN SUBJECTED TO EARTHQUAKES
122	RAHUL KHAPRE	SANJAY SINGH (CEERI)	ACTION DETECTION IN INDUSTRIAL ENVIRONMENT USING SEMI-SUPERVISED LEARNING
123	RAHUL SAXENA	YASHVARDHAN SHARMA	IDENTIFICATION OF FAKE NEWS IN SOCIAL MEDIA TEXT
124	RAM JASHNANI	VISHAL GUPTA	DDOS ATTACK DETECTING AND MITIGATING IN SDN ENVIRONMENT
125	RICKY SHARMA	S. B. SINGH	POST BUCKLING ANALYSIS OF FIBRE REINFORCED PLATE
126	RIJUL KATIYAR	AVINASH GAUTAM	IMPLEMENTATION OF ROUTING AND ROUTE ADVANCEMENT ALGORITHMS FOR NAVIGATION IN AN INDOOR ENVIRONMENT.
127	RISHABH MUNDADA	SMITA RAGHUVANSHI	PRODUCT EXTRACTION STUDIES OF LEACHATE OBTAINED FROM BIO-MITIGATION OF CO2 USING ALGAE
128	RISHAV	SUMEET SAURAV (CEERI)	DEEP IMAGE SEGMENTATION (INSTANCE SEGMENTATION)
129	RITABAN ROY	RAM KINKAR ROY	COMPUTATIONAL MODELING OF A WHITE EMISSIVE ORGANIC MOLECULE.
130	ROHAN GOYAL	DIPENDU BHUNIA	GREEN AND ENERGY EFFICIENT BUILDINGS
131	ROHAN KELA	ASHIS KUMAR DAS	BIOINFORMATICS ANALYSIS & DATA MINING OF HUB GENES FROM PLASMODIUM IN VIVO NETWORKS
132	ROHAN SAXENA	J. L. RAHEJA (CEERI)	APPLICATION OF DEEP REINFORCEMENT LEARNING IN ROBOTICS
133	ROHIT K BHARADWAJ	KAMLESH TIWARI	ADAPTIVE BIOMETRIC AUTHENTICATION WITH AUTOMATIC TEMPLATE UPDATE ON MOBILE DEVICES
134	ROHIT SOHNI	B. A. BOTRE (CEERI)	AI CONTROLLED LINEAR DISPLACEMENT ACTIVATOR
135	RUCHIT RAI	H K MOHANTA	ANALYSIS OF COW URING TO KNOW THE ACTIVE INGREDIENTS PRESENT
136	SABYASACHI DASH	M.S.DASGUPTA	SPATIAL COGNITION FOR AUTONOMOUS VEHICLES

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
137	SACHIN YADAV	SANGITA YADAV	NUMERICAL ANALYSIS FOR DIFFERENTIAL EQUATION
138	SAI HARSHA	DIPENDU BHUNIA	STUDY ON BEHAVIOUR OF VARIOUS TYPES OF STRUCTURAL ELEMENTS SUBJECTS TO EARTHQUAKE
139	SAMPRAS LOPES	B. A. BOTRE (CEERI)	3D MAPPING OF INDOOR AND OUTDOOR ENVIRONMENTS USING SLAM ALGORITHMS AND UAV
140	SANCHIT BAJAJ	H K MOHANTA	ACTIVE INGREDIENTS IN COW URINE
141	SATYAM BHASKAR	B K MUKHERJEE	TO DEVELOP A SELF-BALANCED BIKE
142	SAURABH GUPTA	DHIRAJ SANGWAN (CEERI)	DAMAGE DETECTION IN BRIDGES USING MACHINE LEARNING.
143	SAURABH JAIN	TUFAN CHANDRA BERA	THE STUDY OF CAVITATIONS MACHINING
144	SAYAN KR. DAS	SMITA RAGHUVANSHI	DESIGN & DEVELOPMENT OF BIO-FILTER SYSTEM FOR REMOVAL OF SOX & NOX
145	SHIKHAR SHIROMANI	HARSHAVARDHAN S	CNN-BASED COLOR IMAGE ENCRYPTION ALGORITHM USING DNA SEQUENCE OPERATIONS
146	SHIVAM	GAJENDRA SINGH CHAUHAN	A STUDY OF RELATION AND INFLUENCE BETWEEN MEDIA & POLITICS IN INDIA
147	SHIVAM KUMAR	SRINIVAS APPARI	CATATYSTS DEVELOPMENT IN DRY REFORMING OF METHANE
148	SHIVAM SINGH	ANSHUMAN	ROLE OF WATER CONTENT IN MIN DESIGN OF GEOPOLYMER CONCRETE
149	SHIVAM SOMANI	RUPAM GOSWAMI	USING MACHINE LEARNING TO DETECT STRUCTURAL DEFECT IN 3D MODELS OF HERITAGE SITE.
150	SHIVANI SHUKLA	S. MURUGESAN	COMPUTER AIDED DRUG DESIGN APPROACHES AS TOOL FOR MOLECULAR TARGET IDENTIFICATION OF NEW MOLECULAR ENTITIES
151	SHIVOM KHANDELWAL	BIBHAS R SARKAR	SYNTHESIS & CHARACTERIZATION OF RH & RU NANO PARTICLES & THEIR APPLICATION IN CATALYSIS.
152	SHRAY AGRAWAL	RAVIKANT MITTAL	APPLICATION OF COPPER SLAG AS A STRUCTURAL FIELD MATERIAL IN FOUNDATIONS & EMBANKMENT
153	SHREEYA NASA	SUREKHA BHANOT	ANALYSIS AND IMPEMENTATION OF OPTICAL CHARACTER RECOGNITION
154	SHREY GOYAL	J. L. RAHEJA (CEERI)	DETECTING SIGNS OF A SUSPICIOUS PACKAGE
155	SHREYANSH CHANDAK	PRATIK NARANG	DEEP LEARNING FOR AUTONOMOUS VEHICLES
156	SHUBHAM AGGARWAL	ANUPAM SINGHAL	DRINKING WATER QUALITY MONITORING AT VARIOUS SUPPLIES USING IOT.
157	SHUBHAM RAJ	SYAMANTAK MAJUMDER	STUDYING THE EFFECT OF DIFFERENT HIGH GLUCOSE TREATMENT ON ENDOTHELIAL INFORMATION
158	SIDDHANT JAIN	POONAM GOYAL	PARALLELIZATION OF CLUSTERING PROJECTS
159	SIDDHARTH SINGH	M.S.DASGUPTA	QUANTUM DOTS AND MEDICAL IMAGING
160	SNEHA KUMARI	SMITA RAGHUVANSHI	PRODUCT EXTRACTION STUDIES OF LEACHATE OBTAINED FROM BIO-MITIGATION OF CO2 USING ALGAE
161	SOORYA RETHINASAMY	J. P. MISRA	QUANTUM ARCHITECTURE AND OPERATING SYSTEMS
162	SPARSH DHINGRA	RAM KINKAR ROY	VERIFICATION OF LINEAR FREE ENERGY RELATIONSHIP (LFER) THROUGH DENSITY FUNCTIONAL REACTIVITY THEORY (DFRT)
163	SREEMOYEE GHOSH	ANNUPAMA MITTAL	DESIGNING & EVALUATING A NANOFORMULATION FOR AN ANTICANCER DRUG
164	SRINIVASH M.	VISHAL SAXENA	CHARACTERIZATION OF HYPOTHETICAL PROTEIN FROM PLASMODIUM INVOLVED IN APICOPLAST DIVISION
165	SRISHTI SHARMA	GAUTAM SINGHVI	DESIGN & CHARACTERIZATION OF DRUG DELIVERY SYSTEM FOR WOUND HEALING

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
166	SUSHANT GUPTA	MEETHA V SHENOY	IMAGE FUSION BASED ON MACHINE LEARNING FOR ROBOTIC APPLICATION
167	SUYASH RAJ	LAVIKA GOEL	PLATE TECTONICS BASED OPTIMIZATION
168	TARU KAPOOR	HD MATHUR	IMPLICATION OF VEHICLE -TO -GRID, IN MICROGRID SCENARIO. IOT APPLICATION IN SMART GRID SCENARIO.
169	TARUN KATARIA	SK SHARMA	MITIGATING PROJECTS FINANCIAL RISK
170	UJJWAL SAINI	J. L. RAHEJA (CEERI)	DETECTION SIGNS OF SUSPICIOUS PACKAGE
171	UTSAV LALWANI	M.S.DASGUPTA	LIFE CYCLE ASSESSMENT OF 3D PRINTING PROCESSES
172	VAIBHAV	ANSHUMAN DALVI	FABRICATION OF A LI ION BATTERY USING CONTROLLED ATMOSPHERE
173	VAIBHAV JADE	SUNDARESAN RAMAN	BIOMEDICAL IMAGE ANALYSIS WITH COMPUTER VISION
174	VAIBHAV KAUSHIK	S. M. ZAFARUDDIN	SEMANTIC SOFT SEGMENTATION
175	VAIBHAV SHARMA	KRISHNA C ETIKA	HIGH THERMAL CONDUCTIVITY EPOXY NANOCOMPOSITE SYNTHESIS FOR TIM
176	VARSHITH NAIDU	DIPENDU BHUNIA	STUDY ON BEHAVIOUR OF VARIOUS TYPES OF STRUCTURAL ELEMENTS SUBJECTS TO EARTHQUAKE
177	VATSAL BERIA	MUKESH KUMAR ROHIL	DETERMINATION OF FRESHNESS OF FRUIT USING MACHINE LEARNING AND COMPUTER VISION TECHNIQUES
178	VATSAL JIGNESH BADAMI	KAMLESH TIWARI	ROAD DIVIDER & ROAD WIDTH DETECTION
179	VIDUSHI GUPTA	MUKESH KUMAR ROHIL	IMPLEMENTATION OF SOME FUZZY LOGIC BASED APPROACHES FOR INVARIANT DESCRIPTORS IN CONTEXT OF 3D OBJECT RECOGNITION AND TRACKING
180	VIGNESH JAYARAMAN	SANDHYA MARATHE	STUDY THE ROLE OF SALMONELLA GENES IN PATHOGENICITY
181	VIKRAM WARADPANDE	SHAN BALASUBRAMANIAM	PARALLELIZING AND ADDING SUPPORT FOR GRAPH CLUSTERING ALGORITHMS IN DWARF
182	VISHNU MADHUSUDAN	INAMUR R LASKAR	DESIGN OF GRAPHINE BASED SENSOR USING PDMS SUBSTRACTS.
183	VIVEK NAYAK	SANJAY SINGH (CEERI)	FACE ANTI-SPOOFING USING DEEP LEARNING
184	YAJAT DAWAR	YASHVARDHAN SHARMA	QUESTION AND ANSWERING SYSTEM FOR CLOSED DOMAIN USING DEEP LEARNING TECHNIQUES
185	YASH DEVNANI	DIPENDU BHUNIA	A STUDY ON THE BEHAVIOUR OF VARIOUS STRUCTURE ELEMENTS UNDER EARTHQUAKES.
186	YASH SARAWGI	RUPAM GOSWAMI	USING MACHINE LEARNING TO DETECT STRUCTURAL DEFECT IN 3D MODELS OF HERITAGE SITE.
187	NEELABH SINHA	KARUNESH KR GUPTA	LEAKAGE DETECTION IN PLANTS FOR SMART WATER-GRID SYSTEMS
188	PAVNI JAISWAL	KARUNESH KR GUPTA	LEAKAGE DETECTION IN PLANTS FOR SMART WATER-GRID SYSTEMS
189	RAGHAV BANSAL	MEETHA V. SHENOY	IMPLEMENTATION AND VALIDATION OF NEURAL NETWORK FOR EDGE DEVICE APPLICATION.
190	ACHALLA VAISHNAV PAVAN KUMAR	RAJEEV TALIYAN	HISTONE METHYL TRANSFERASE ROLE IN CANCER
191	SHUBHAM TIWARI	HARI BABU KOTAKULA	MEASUREMENT OF QOS METRICS IN SDN
192	VAIBHAV KAUSHIK	RAKHEE	GAME THEORY BASED TRAFFIC ASSIGNMENT USING QUEUEING NETWORKS
193	AYUSH VACHASPATI	KAMLESH TIWARI	IMAGE SEGMENTATION FOR LINE/POLYGON/POINT FEATURES.
194	ANIK JINDAL	ANSHUMAN	EXPERIMENTAL STUDY ON RE-INFORCED GEOPOLYMER CONCRETE.
195	ABHAS MISHRA	ANSHUMAN	EFFECT OF FIBRE REINFORCEMENT ON THE COMPRESSIVE STRENGTH OF FLY ASH

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			GEOPOLYMER
196	CHOTRANI LAVINA ANILKUMAR	DEVENDRA KUMAR	APPLICATIONS OF CUBIC SPLINES IN SOLVING PARTIAL DIFFERENTIAL EQUATIONS USING MATLAB.
197	ARCHANA	DEVENDRA KUMAR	APPLICATIONS OF CUBIC SPLINE IN SOLVING PARTIAL DIFFERENTIAL EQUATIONS USING MATLAB
198	SANJEET MALHOTRA	V S SHEKHAWAT	PERFORMANCE ANALYSIS OF VARIOUS FAIR QUEUEING ALGORITHMS FOR INTERNET TRAFFIC
199	AMEY MUKUND SHITOLE	V MANJULADEVI	EFFECT OF NANOPARTICLES ON PHYSICAL PROPERTIES OF NEMATIC LIQUID CRYSTALS
200	SANYAM JAIN	LAVIKA GOEL	PLATE TECTONICS BASED OPTIMIZATION
201	NEETHU MARIYA JOY	HARI BABU KOTAKULA	POLLING IN SDN NETWORKS
202	ABHILASH NEOG	NAVNEET GOYAL	DOMAIN SPECIFIC LANGUAGE FOR CLASSIFICATION
203	VISHVADITYA	PRIYANSH SINGH	UTILIZATION OF COPPER TAILING IN GSB PAVEMENT LAYER
204	SATHE OMKAR DHANANJAY	MEETHA V. SHENOY	DEVELOPMENT OF SLAM TECHNIQUES OF INDOOR ROBOT APPLICATIONS
205	AKSHAY SHARMA	MUKUND LAHOTI	FIRE RESISTANCE IN GEO-POLYMER
206	AASHISH SINGH	ASHUTOSH BHATIA	INFORMATION GATHERING OF MOBILE USERS BY ANALYZING ENCRYPTED NETWORK TRAFFIC
207	RAKSHIT NANWANI	V K CHAUBEY	TRAFFIC FLOW ANALYSIS AND VEHICLE COMMUNICATION MODELING
208	ADITYA JOSHI	ETIKA KRISHNA CHAITANYA	SYNTHESIS AND CHARACTERISATION OF EXFOLIATED GRAPHENE NANO PLATELETS(GNP) POLYMER NANOCOMPOSITES.
209	SIDDHARTH BURMAN	ETIKA KRISHNA CHAITANYA	STABILIZATION OF AQUEOUS CARBON NANOTUBES(CNT) USING THERMAL RESPONSIVE POLYMERS
210	AVIRAL SETHI	V S SHEKHAWAT	PERFORMANCE ANALYSIS OF VARIOUS FAIR QUEUEING ALGORITHMS FOR INTERNET TRAFFIC
211	LADDHA SIDDHANT SANJAY	RAJNEESH KUMAR	DEVELOPMENT OF A NEURAL NETWORK/AI BASED NUMERICAL ANALYSIS METHOD FOR MOSFET COMMUTATION LOSSES.
212	HARDIK MAHESHWARI	ANSHUMAN	SELF HEALING CONCRETE FORMATION METHODS : A STUDY.
213	RANADE SOHAM SHAILESH	AVINASH GAUTAM	AUTONOMOUS AIR VEHICLE
214	ANKUR SONI	SHIBANI KHANRA JHA	RESISTIVITY RESPONSE OF SOIL UNDER VARIOUS FLUID INFILTRATION.
215	AYUSH KUMAR	SHIBANI KHANRA JHA	RESISTIVITY RESPONSE OF SOIL UNDER VARIOUS FLUID INFILTRATION.
216	KUNAL MOHTA	ASHUTOSH BHATIA	DEVELOPING AN AUTOMATION FRAMEWORK TO CAPTURE, GENERATE AND ANNOTATE MOBILE APPLICATION TRAFFIC
217	ANIRUDH SRINIVASAN CHAKRAVARTHY	BIJAY KUMAR ROUT	EXPLORATION OF COMPUTER VISION TECHNIQUES FOR AUTONOMOUS VEHICLES
218	DIVYAM GOEL	BIJAY KUMAR ROUT	EXPLORATION OF COMPUTER VISION TECHNIQUES FOR AUTONOMOUS DRIVING
219	RAHUL GUPTA	AMIT DUA	DEVELOPMENT OF PRACTICAL SOLUTIONS FOR MEDICAL PRACTITIONERS USING DEEP LEARNING" WITH FOLLOWING OBJECTIVES
220	VIKRAMJIT SINGH	AMIT DUA	DEVELOPMENT OF PRACTICAL SOLUTIONS FOR MEDICAL PRACTITIONERS USING DEEP LEARNING
221	POOJA TULSYAN	SAUMI RAY	CATALYTIC ACTIVITIES OF SQUARE PLANAR NICKEL COMPLEXES ENTRAPPED WITHIN MICROPOROUS MATERIALS
222	NIKKI GUPTA	POONAM GOYAL	GENOME SEQUENCE ASSEMBLY ALGORITHMS
223	ANUSATYA CHOUDHARY	SAUMI RAY	CONVERSION OF CO2 TO A USEFUL MATERIAL IN THE PRESENCE OF COBALT COMPLEX AS A CATALYST.
224	APURV BAJAJ	POONAM GOYAL	IMAGE UNDERSTANDING WITH THE HELP OF

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			VISUAL, TEXTUAL, AND KNOWLEDGE BASE.
225	ADITI AGARWAL	NAVNEET GOYAL	LANGUAGE DESIGN FOR CLASSIFICATION
226	AAKASH LAKHERA	POONAM GOYAL	VISUAL QUERY ANSWERING SYSTEM
227	AKASH SINGH	SHIBANI KHANRA JHA	RESISTIVITY RESPONSE OF SOIL UNDER VARIOUS FLUID INFILTRATION
228	KHUSHI SAINI	ANSHUMAN DALVI	DISPERSION OF ELECTRONIC GLASSES IN NASICONS FOR CATHODE APPLICATIONS
229	KUMAR SUYASH SANJEEV	RAM KINKAR ROY	GENERATING THE QUALITATIVE TRENDS OF EQUILIBRIUM CONSTANTS OF PSEUDO-FIRST ORDER REACTIONS FROM DENSITY FUNCTIONAL REACTIVITY THEORY (DFRT) BASED DESCRIPTORS
230	JATIN GOYAL	RAM KINKAR ROY	GENERATING THE QUALITATIVE TRENDS OF EQUILIBRIUM CONSTANTS OF PSEUDO-FIRST ORDER REACTIONS FROM DENSITY FUNCTIONAL REACTIVITY THEORY (DFRT) BASED DESCRIPTORS.
231	SHIVANI SINGH	SUROJIT PANDE	ANALYSIS OF SHAPE-DEPENDENT AU NANOPARTICLES COATED ZNO FOR SURFACE ENHANCED RAMAN SPECTROSCOPY
232	HARSHAVARDHANA SHRIRUP	KAMLESH TIWARI	FACE INDEXING
233	SHIVANGI SINGH	SHASHANK GUPTA	IMPLEMENTATION OF A CYBERSECURITY FRAMEWORK TO IDENTIFY MALICIOUS EDGE DEVICE IN FOG COMPUTING AND CLOUD-OF-THINGS ENVIRONMENT
234	KHUSHBOO KUMARI	SHASHANK GUPTA	IMPLEMENTATION OF A CYBERSECURITY FRAMEWORK TO IDENTIFY MALICIOUS EDGE DEVICE IN FOG COMPUTING AND CLOUD-OF-THINGS ENVIRONMENTS
235	NITISH BAHL	BHARTI KHUNGAR	COLORIMETRIC DETECTION OF AN ANALYTE USING A SMARTPHONE
236	BHUMIKA NAYYAR	RAM KINKAR ROY	GENERATING THE QUALITATIVE TRENDS OF EQUILIBRIUM CONSTANTS OF PSEUDO-FIRST ORDER REACTIONS FROM DENSITY FUNCTIONAL REACTIVITY THEORY (DFRT) BASED DESCRIPTORS.
237	JASMINE KUMAR	NAVNEET GUPTA	SIMULATION AND DEVELOPMENT OF CARBON NANO TUBE FIELD EFFECT TRANSISTOR
238	ANUPAM AGGARWAL	NAVNEET GOYAL	DEEP LEARNING BASED OCR FOR SANSKRIT
239	RAJAT MIDDHA	ANSHUMAN	ANALYSIS OF REACTION PRODUCTS OF GEO-POLYMERIZATION PROCESS
240	AMBUJ GARG	ANSHUMAN	EFFECT OF ALKALI ACTIVATION ON SILICA FUME
241	SIDDHANT KHARBANDA	SHASHANK GUPTA	PREDICTION OF HTML5 INJECTION VULNERABILITIES ON THE HTML5 WEB APPLICATION INTEGRATED ON THE INFRASTRUCTURE SETUP OF EDGE NODES OF FOG COMPUTING
242	RAJHANS ROHIT MILIND	NAVNEET GOYAL	DEALING WITH NOISY DATA IN IOT ENVIRONMENTS
243	SIDDHARTH KARANDIKAR	SHIBANI KHANRA JHA	RESISTIVITY RESPONSE OF SOIL UNDER VARIOUS FLUID INFILTRATION
244	ADITYA MITHAL	AVINASH GAUTAM	CONTENT BASED SEARCH ENGINE TO ASSIST ROBOT NAVIGATION
245	KISLAYA KUMAR	BHARTI KHUNGAR	DETECTION OF ANALYTE USING IMIDAZOLIUM BASED CHEMOSENSORS IN WATER
246	JANNU AKASH	PRIYANSH SINGH	UTILIZATION OF COPPER TAILING WASTE IN BITUMINOUS MIXTURE
247	PRAMAY SINGHVI	SYED MOHAMMAD ZAFARUDDIN	CAPSULENET FOR IMAGE CLASSIFICATION
248	JHAVERI AYUSH RAJESH	NAVNEET GOYAL	GENOME SEQUENCE ASSEMBLY ALGORITHMS
249	ARYAN MEHRA	PRATIK NARANG	IMAGE RESTORATION AND ENHANCEMENT FOR COMPUTER VISION IN LOW VISIBILITY
250	SHRAJAL JAIN	RUPAM GOSWAMI	CAPSULENET FOR OBJECT DETECTION
251	ADITYA RUSTAGI	RUPAM GOSWAMI	CAPSULENET FOR OBJECT DETECTION

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
252	SHIVANI SONI	SANDHYA AMOL MARATHE	HOST PATHOGEN INTERACTION
253	R NIRANJAN	SYED MOHAMMAD ZAFARUDDIN	DEEP LEARNING ARCHITECTURE FOR GESTURE DETECTION
254	ANNIE RAWAT	DR MUKESH KUMAR ROHIL	HEART ANOMALY DETECTION BY ANALYZING STETHOSCOPE SOUNDS USING MACHINE LEARNING
255	VISHAKHA	BIJOY KRISHNA MUKHERJEE	FACIAL EXPRESSION RECOGNITION USING DEEP LEARNING
256	HARSH BHOOT	GEETILAXMI MOHAPATRA	MULTILATERAL TRADE IN PHARMACEUTICAL INDUSTRY FOR SOUTH ASIAN ECONOMIES
257	VIDIT JAIN	PRATIK NARANG	FAKE NEWS DETECTION USING DEEP LEARNING
258	NISHANT MAHAJAN	YASHVARDHAN SHARMA	MOBILE APPLICATION DEVELOPMENT PROJECTS(INSTITUTE WIDE)
259	PATEL PARTH	PRATIK NARANG	MOVING OBJECT DETECTION IN AERIAL IMAGES
260	DHRUV SHARMA	I R LASKAR	DESIGN AND SYNTHESIS OF SMALL CONJUGATED ORGANIC COMPOUND FOR EFFICIENT DETECTION OF EXPLOSIVE MATERIALS
261	YATHARTH SINGH	BIBHAS RANJAN SARKAR	IMMOBILIZING CATALYSTS ON POROUS MATERIALS
262	LAVISH SALUJA	DALIP KUMAR	SYNTHESIS AND SPECTRAL STUDIES OF BORON-DIPYRROMETHENE COMPLEXES.
263	DHRUV PARAS MEHTA	BIBHAS RANJAN SARKAR	TRANSFER HYDROGENATION USING METAL CATALYSTS
264	HRIDYANSHU SINGHAL	P CHATTOPADHYAY	NANOPARTICLE STABILIZED CHEMICAL SURFACTANT FOAM FOR ENVIRONMENTAL APPLICATIONS
265	MALAIKA RASTOGI	NAVNEET GOYAL	MULTIMODAL PROFILING OF PEOPLE(IMAGE BASED)
266	SHUBHAM AGGARWAL	MEETHA V. SHENOY	DEVELOPMENT OF AN IOT SYSTEM FOR TRACKING IN INDOOR ENVIRONMENTS
267	TANMAY KHANDELWAL	NITIN CHATURVEDI	OPTIMIZATION AND EMBEDDED IMPLEMENTATION OF DL ARCHITECTURES FOR COMPUTER VISION APPLICATIONS.
268	VISHESH JAIN	MEETHA V. SHENOY	OBJECT RECOGNITION USING MACHINE LEARNING
269	AVICHAL JAIN	PRATIK NARANG	OBJECT DETECTION AND SEGMENTATION IN AERIAL IMAGES
270	JAANVI AGRAWAL	PRIYA C SANDE	INVESTIGATION OF SUITABLE PARTICLE/POWDER CARRIER FOR BIO-BASED AGRO PRODUCTS
271	ANIRUDDHA JAYANT KARAJGI	AMIT DUA	DEVELOPMENT OF PRACTICAL SOLUTIONS FOR MEDICAL PRACTITIONERS USING DEEP LEARNING
272	TATHAGAT SAXENA	HARE KRISHNA MOHANTA	REACTIVE DISTILLATION OF METHYL ACETATE SYSTEM
273	ABHINAV DHAKA	P CHATTOPADHYAY	NANOPARTICLE STABILIZED BIOSURFACTANT FOAM FOR ENVIRONMENTAL APPLICATIONS
274	DIVESH UTTAMCHANDANI	VISHAL GUPTA	SDN BASED DETECTION/MITIGATION OF DDOS ATTACKS
275	HIMANSHU GOYAL	SMITA RAGHUVANSHI	EXPERIMENTAL STUDIES FOR UTILIZATION OF CO2 INTO VALUE ADDED PRODUCTS.
276	VAIDANT AGRAWAL	S GANGOPADHYAY	SEMICONDUCTOR METAL OXIDE THIN FILMS FOR GAS SENSORS APPLICATIONS
277	MOHIT KRIPLANI	SHIBASISH CHOWDHURY	FUNCTIONAL CLASSIFICATION OF LONG NON-CODING RNAs (LNCRNAs) USING BOTH AB-INITIO AND HOMOLOGY APPROACH.
278	PIKLU PAUL	KAMLESH TIWARI	TEXT TO SPEECH SYSTEM
279	BHARAT BHARGAVA	KAMLESH TIWARI	SPEECH TO TEXT SYSTEM
280	ATMADEEP BANERJEE	PRATIK NARANG	ANALYZING HUMAN ACTIVITY USING AERIAL IMAGES
281	ABHISHEK JAIN	SRINIVAS APPARI	CH4 TO METHANOL
282	HIMANSHU GUPTA	S GANGOPADHYAY	METAL OXIDE THIN FILMS FOR GAS SENSOR

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			APPLICATIONS
283	AVIRAL AGRAWAL	YASHVARDHAN SHARMA	DESIGN AND IMPLEMENTATION OF REAL-TIME IDENTITY DETECTION SYSTEM
284	SAURABH P JAIN	NITIN CHATURVEDI	STUDY AND COMPARITIVE ANALYSIS OF DIFFERENT LOGIC IN MEMORY BLOCKS.
285	NAYAN NILESH	NITIN CHATURVEDI	STUDY AND DESIGN OF SPIKING NEURAL NETWORK (SNN) ARCHITECTURES.
286	DUDHAVAT KUNAL MADANKUMAR	NITIN CHATURVEDI	STUDY AND DESIGN OF SPIKING NEURAL NETWORK (SNN) ARCHITECTURES.
287	SHUBHAM RAJ	SUDESHNA MUKHERJEE	USING GRAPH NETWORK THEORY FOR ANALYSIS OF VARIOUS BIOLOGICAL PATHWAYS
288	PRATIK SRIVASTAVA	SMITA RAGHUVANSHI	PHYSICAL AND CHEMICAL ANALYSIS OF WASTEWATER SAMPLES
289	UTKARSH VERMA	SUDESHNA MUKHERJEE	USING GRAPH NETWORK THEORY FOR ANALYSIS OF VARIOUS BIOLOGICAL PATHWAYS.
290	MANU R SRIVATHSA	ETIKA KRISHNA CHAITANYA	SYNTHESIS OF ANISOTROPIC FE ₃ O ₄ NANOPARTICLES
291	ARPIT AGARWAL	MEGHANA TARE	DESIGN AND DEVELOPMENT OF PARALLEL DENOVO ASSEMBLER FOR DISTRIBUTED MEMORY ARCHITECTURES, USING MACHINE LEARNING
292	JAYS JOSE THOMAS	S GANGOPADHYAY	METAL OXIDE THIN FILMS FOR GAS SENSOR APPLICATION
293	UJJAWAL GUPTA	ANIL KUMAR	RH-CATALYZED SYNTHESIS OF IMIDAZO-FUSED HETEROCYCLES
294	PATIL ANWAY DINESH	P CHATTOPADHYAY	STUDY OF FOOD FOAM/EMULSIONS APPLICATION.
295	INZEMAM ALI BEIG	PRASHANT U MANOHAR	TO STUDY PROGRAMMING ASPECTS OF ELECTRONIC STRUCTURE METHODS
296	HONNESH ROHMETRA	BHARTI KHUNGAR	PROPERTY PREDICTION OF A GIVEN MOLECULE USING MACHINE LEARNING ALGORITHMS
297	SALMAAN SHAHID	POONAM GOYAL	MINING TWITTER STREAMS PROBLEM
298	RAGHAV ARORA	PRASHANT U MANOHAR	TO STUDY THE PROGRAMMING ASPECTS OF ELECTRONIC STRUCTURE METHODS
299	DIVYANSH MANGAL	D BANDYOPADHYAY	MODELING OF TRANSITION METAL DOPED SEMICONDUCTOR NANOCLUSTERS.
300	AMAN GOYAL	BHANU VARDHAN REDDY KUNCHARAM	MEMBRANE TESTING
301	AJITABH RAWAT	ASHISH PATEL	WRITING LIBRARIES FOR THE ULTRA-LOW-POWER MODE OF MSP430
302	ASHISH KUMAR TRIPATHI	ETIKA KRISHNA CHAITANYA	SYNTHESIS AND CHARACTERIZATION OF COPPER NANOWIRES VIA GREEN SYNTHESIS ROUTE
303	AKSHINA JINDAL	LAVIKA GOEL	COMPUTATIONAL INTELLIGENCE BASED CROP RECOMMENDER SYSTEM DESIGN FOR RAJASTHAN SATELLITE DATASET
304	SARDA SHRIKUNJ SATYANARAYAN	SHIBASISH CHOWDHURY	FUNCTIONAL CLASSIFICATION OF LONG NON-CODING RNAs(LNCRNAs) USING BOTH AB-INITIO AND HONOLOGY APPROACH
305	PRATIXAN SARMAH	TUFAN CHANDRA BERA	EXPERIMENTAL STUDY OF HARDFACING BY USING TIG TORCH.
306	DOMALE ROHAN VAJNATH	SHILPI GARG	CLONING AND EXPRESSION OF A GENE INVOLVED IN FES CLUSTER BIOGENESIS PATHWAY FROM PLASMODIUM.
307	ANOUSHKA SARASWAT	NITIN CHATURVEDI	DESIGN AND ANALYSIS OF HIGH SPEED ASYNCHRONOUS MULTIPLE INPUT PIPELINE
308	PATIL ADITYA PRAMOD	SANDHYA AMOL MARATHE	ANALYSING THE ROLE OF MICROBIOTA IN NEURODEGENERATIVE DISORDERS
309	PRAGYA CHANDAK	DALIP KUMAR	SYNTHESIS OF A LIGHT-DRIVEN MOTORIZED NANOCAR
310	SAMIKSHA GUPTA	DALIP KUMAR	SYNTHESIS OF A LIGHT-DRIVEN MOTORIZED NANOCAR
311	VINAYAK AGGARWAL	TUFAN CHANDRA BERA	RESEARCH IN TOOL, FIXTURE AND DESIGN.

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
312	ADITYA LADDHA	VAIBHAV SONI	MOTION DETECTION IN AERIAL SCENES.
313	VYOM CHATURVEDI	MANI SANKAR DASGUPTA	EXPERIMENTAL STUDY OF SMART BUILDING CONTROL
314	VYOM CHATURVEDI	MANI SANKAR DASGUPTA	EXPERIMENTAL STUDY OF SMART BUILDING CONTROL
315	SREYAS RAVICHANDRAN	SUNDARESAN RAMAN	MOBILE APP PROTOTYPE
316	AYUSH KUMAR SINHA	SHETH PRATIK N	EXPERIMENTAL STUDY ON DOWNDRAFT BIOMASS GASIFIER
317	SMITH RAJESHKUMAR SHAH	SUNDARESAN RAMAN	OBJECT DETECTION FROM PLANT IMAGES USING DEEP LEARNING
318	VINAYAK DAS	PRATEEK KALA	FABRICATION OF DIFFERENT BIOMATERIALS USING 3D BIOPRINTING.
319	GUPTA ADITYA AJAY	DEVESH SAMAIYA	DESIGN OF FLASH PROGRAMMER SHIELD FOR ARDUINO
320	JAIN SOHAM DUNGERCHAND	DEVESH SAMAIYA	DESIGN OF FLASH PROGRAMMER SHIELD FOR ARDUINO
321	VIVEK RAJU GOLANI	MEETHA V. SHENOY	MACHINE LEARNING ACCELERATOR FOR FPGA AND IOT SECURITY USING BLOCKCHAIN TECHNOLOGY.
322	MANUJ VASHIST	PRASHANT U MANOHAR	IMPLEMENT HARTREE FOCK COMPUTER CODE FOR CLOSED SHELL SYSTEM
323	ABHISHEK GUPTA	SUNDARESAN RAMAN	ANALYSIS OF DISEASES USING RETINAL IMAGES
324	UTKARSH AGRAWAL	SHETH PRATIK N	EXPERIMENTAL STUDY ON DOWNDRAFT BIOMASS GASIFIER
325	DANISH NAYYAR	SYAMANTAK MAJUMDER	EXTENSIVE ANALYSIS OF FLUORESCENT LABELED PROTEINS FOR THEIR CELLULAR LOCALISATION AND INTERACTION USING CONVOLUTION NEURAL NETWORK
326	KALGAONKAR PARTH SAMEER	MEETHA V. SHENOY	IMPLEMENTATION OF ARTIFICIAL NEURAL NETWORK ON ZYNQ-7000 SOC
327	MANAV KAUSHIK	ARUN KUMAR GIRI	APPLICATION OF MACHINE LEARNING IN COMPLEX ECONOMICS AND FINANCIAL NETWORKS
328	JAY GOYAL	TUFAN CHANDRA BERA	TO IMPROVE COMPUTATIONAL PROFICIENCY IN ANSYS
329	NISHAD SAHU	VINAY CHAMOLA	INTERNET OF THINGS (IOT) SECURITY
330	NIRANJAN ARUN RAO	HITESH DATT MATHUR	DEVELOPMENT OF PRICING MODELS FOR EV-POWERED MICROGRID APPLICATIONS
331	GAUTAM PATHAK	POONAM GOYAL	DEVELOPING AN ALGORITHM FOR MANAGING/MINING DATA STREAMS FROM IOT DEVICES
332	AGRAWAL NISHCHAY RAVI	VISHAL GUPTA	DNS DDOS ATTACKS: DETECTION AND MITIGATION IN SDN
333	ARVIND SAHU	ANSHUMAN	ANALYSIS AND DESIGN OF BRACED FRAME STRUCTURE
334	ANUVIND BHAT	POONAM GOYAL	ADAPTATION OF THE K-MEDOIDS ALGORITHM FOR PARALLEL ENVIRONMENTS AND STREAMING DATA
335	AKANKSHYA MISHRA	NAVNEET GOYAL	EVENT DETECTION IN SOCIAL MEDIA STREAMS
336	SHAH HET HEMENDRABHAI	CHANDRA SHEKHAR (EEE)	DESIGN OF LOW NOISE AMPLIFIER AND STUDY OF ADVANCED RF MICROELECTRONICS TOPICS
337	SAHARSH AGARWAL	AVINASH GAUTAM	AUTONOMOUS AIR VEHICLE
338	PRATYUSH MANOCHA	KAVINDRA KANDPAL	OHMIC CONTACTS FOR ZNO-BASED TFT
339	ABHISHEK PANDEY	ANSHUMAN DALVI	SYNTHESIS AND CHARACTERIZATION OF NA+ CONDUCTING POLYMERS AND THEIR APPLICATIONS IN SUPERCAPACITORS
340	KAUSTAV DUTTA	V. MANJULADEVI	STUDY OF CARBON NANOTUBES IN LIQUID CRYSTALS
341	DIVYA PANT	ANSHUMAN DALVI	NASICON DISPERSION IN IONIC GASES
342	DEBSHANKAR GHOSH	MEGHANA TARE	MICROBIOTA INTERACTION WITH THE FLY MODEL OF NEURODEGENERATIVE DISEASES
343	ADITI SINGH	DEEPAK CHITKARA	DEVELOPMENT AND EVALUATION OF

LAB ORIENTED PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			NANOMEDICINES FOR TREATMENT OF GLIOBLASTOMA MULTIFORME
344	SHREYANSH CHANDAK	VAIBHAV SONI	IMPLEMENTATION OF LEACH PROTOCOL FOR WIRELESS MICRO-SENSOR NETWORKS
345	ROHIT PRASAD KULKARNI	ETIKA KRISHNA CHAITANYA	TEMPERATURE RESPONSIVE STABILIZATION OF CARBON NANO-PARTICLES
346	MEHTA AASHAY PINKESH	POONAM GOYAL	ONLINE ALGORITHMS FOR SOCIAL MEDIA
347	NIKHIL KHANDELWAL	MEETHA V. SHENOY	MACHINE LEARNING ACCELERATOR FOR FPGA AND IOT SECURITY USING BLOCKCHAIN TECHNOLOGY.
348	ISHA DOGRA	SMITA RAGHUVANSHI	BIOFILTRATION OF SOX & NOX

SPECIAL PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
1	AARYAN KAPOOR	SHIVI AGARWAL	A STUDY OF THE FUZZY DATA ENVELOPMENT ANALYSIS MODELS AND APPLICATIONS
2	ABHIJEET PANDEY	SAILIJA NANDIGAMA	IMPACT OF CLIMATE CHANGE ON AGRICULTURE IN INDIA
3	ABHIN OSWAL	ASHIS KUMAR DAS	IN-SILICO CHARACTERIZATION OF P. FALCIPARUM & P. VIVAX HUB GENES FROM IN-VIVO NETWORKS
4	ABHINAV SHARMA	JITENDER KUMAR	COMMUTING GRAPHS OF CERTAIN SEMIGROUPS OF TRANSFORMATIONS
5	ABHIROOP PRASAD	SOMSHUKLA MAITI	TARGET DETECTION IN IMAGES USING EEG SIGNALS
6	ADITYA KHANDELWAL	RAJESH KUMAR	FINITE ELEMENT ANALYSIS FOR COAGULATION FRAGMENTATION EQUATIONS
7	AMIT AGRAWAL	M.S.DASGUPTA	STOCKING DECISIONS FOR RETAIL OUTLETS.
8	AMRITANSHU	G MUTHUKUMAR	ANALYSIS AND DESIGN OF TUBUTAR STRUCTURE UDER EARTHQUAKE & WIND LOADING
9	ANMOL NAUGARIA	RAJIV KUMAR	STUDY OF DIFFERENT TECHNIQUES OF COMMUNITY DETECTION IN GRAPHS
10	ANUJ VASHISHTHA	SHUSHILA SHEKHAWAT	CINEMATIC ANALYSIS OF MARVEL CINEMATIC UNIVERSE TILL PHASE - III
11	APRIT AGARWAL	SOMSHUKLA MAITI	MOTOR IMAGERY EEG CLASSIFICATION USING MACHINE LEARNING TECHNIQUES
12	ARUSHI MADAN	DHIRAJ SANGWAN (CEERI)	THREAT OBJECT DETECTION IN X-RAY BAGGAGE SCANNING USING DEEP LEARNING TECHNIQUES
13	AYUSHMAN DWIVEDI	SHILPI GARG	HEAT EXCHANGERS IN FOOD BIOTECHNOLOGY
14	AYUSHMAN DWIVEDI	M.S.DASGUPTA	ANALYSIS OF BIOHEAT TRANSFER IN AN IRRADIATED ELLIPSOIDAL TUMOR TISSUE
15	B. SRI SOURYA SAI	M M PANDEY	CHARACTERIZATION TECHNIQUES FOR SOLID DISPERSION
16	B. TIRUMALA	G MOHAPATRA	IMPACT OF AUTOMATION ON JOB STRUCTURE
17	BHAGYA LAKSHMI	DALIP KUMAR	DIARYLIODONIUM SALTS PROMOTED SYNTHESIS OF ARYLACRIDONES AS ANTICANCER AGENTS.
18	BISWAJIT BISWAS	MADHUKAR MISHRA	STUDIES ON SCATTERING THEORY
19	CH. R. VENKATA M. VIHARI	AJIT PRATAP SINGH	STREAM FLOW SIMULATION OF RIVER BASIN USING SOFT COMPUTING TECHNIQUES
20	CHARU JAIN	SOMSHUKLA MAITI	EEG BASED DRIVER FATIGUE DETECTION USING DEEP LEARNING METHOD
21	CHIRAG PARIKH	M.S.DASGUPTA	STUDY OF SUPPLY CHAIN MODELS TO MINIMIZE THE SUPPLY CHAIN COST IN PHARMACEUTICAL INDUSTRY
22	DHANVI SHEKHAR	GAUTAM SINGHVI	BIOMEDICAL & CHEMICAL WASTE MANAGEMENT AT BITS PILANI
23	DHANYA MAHALAKSHMI M	DALIP KUMAR	CHARACTERIZATION AND QSAR-QSP R STUDIES OF ACRIDONE DERIVTIVES.
24	DIKCHHA AGARWAL	GAUTAM SINGHVI	NATURAL TREATMENT FOR PSORIASIS
25	DOLLY DHARI SINGH	SANDEEP SUNDRIYAL	A SURVEY OF METAL BINDING GROUP IN

SPECIAL PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			MEDICINAL CHEMISTRY
26	G.SAI SIRISH	M.S.DASGUPTA	VIDEO ANALYSIS BASED STUDY OF SPORTS MOVEMENTS
27	HARSH JAISWAL	G MOHAPATRA	IMPACT OF AUTOMATION ON JOB STRUCTURES
28	HARSHIT GUPTA	RAKHEE	A STUDY OF DISCRETE TIME QUEENING MODEL WITH LATE ARRIVAL POLICY
29	HITESH RAGHUVANSHI	M.S.DASGUPTA	DEVELOPMENT OF INVENTORY MANAGEMENT SYSTEM OF GENERIC DRUG AT CONSUMPTION POINT.
30	JASKIRAT KAUR CHOCHAN	M M PANDEY	STUDY OF NASAL DRUG DELIVERY SYSTEM
31	JAY GOYAL	J.S.RATHORE	PREDICTION OF SORTED BREAKDOWN OVER WING GEOMETRIES USING DETACHED-EDDY SIMULATION
32	JAYANT AGARWAL	DEVIKA	BOLLYWOOD CINEMA AS A CULTURAL FACTOR
33	JYOTISHMAAN TRIATHI	SHIVI AGARWAL	A STUDY OF FUZZY MULTI-CRITERIA DECISION MAKING AND ITS APPLICATIONS
34	KOUSTUBH GUPTA	RAJESH KUMAR	FINITE ELEMENT ANALYSIS FOR COAGULATION FRAGMENTATION EQUATIONS
35	MADHUR PANWAR	JITENDER KUMAR	COMMUTING GRAPHS OF CERTAIN SEMIGROUPS OF TRANSFORMATIONS
36	MALLYA AKSHAT SATYANARAYAN	M.S.DASGUPTA	ANALYSIS OF BIOHEAT TRANSFER IN AN IRRADIATED ELLIPSOIDAL TUMOR TISSUE
37	MAYANK	G MUTHUKUMAR	ANALYSIS AND DESIGN OF TUBUTAR STRUCTURE UDER EARTHQUAKE & WIND LOADING
38	MAYANK RAJ	GAURAV DWIVEDI	STUDY OF ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS
39	MITALI JAIN	DEEPAK CHITKARA	MIRNA DELIVERY APPROACH FOR TARGETING GLIOBLASTOMA MULTIFORME: CURRENT STATUS & FUTURE APPLICATION
40	MOHIT JAISWANI	ANIL BHATT	INVESTIGATION INTER-PRICING OF INSURANCE: A BEHAVIOURAL ECONOMICS PERSPECTIVE
41	MOHIT SIDHWANI	M.S.DASGUPTA	DEVELOPMENT OF INVENTORY MANAGEMENT SYSTEM OF GENERIC DRUG AT CONSUMPTION POINT.
42	MUSKAAN CHUGH	RAJEEV SAKHUJA	MECHANISTIC STUDIES IN STAUDINGER PEPTIDE LIGATION.
43	NAREN	MADHUKAR MISHRA	STUDIES ON LOW TEMPERATURE PHYSICS
44	NEHA AGGARWAL	G MOHAPATRA	USE OF ICT IN POVERTY REDUCTION IN INDIA AND ON ECONOMIC GROWTH OF INDIA
45	NIDHEESH .S	S. MURUGESAN	DETAILED STUDY ON ADVANCES IN THE DESIGN AND FABRICATION OF MALARIAL DIAGNOSTIC DEVICES
46	NISHAD SAHU	CHANDRA SHEKHAR	NON IDEAL CHARACTERISTICS MODELING AND COMPENSATION OF ISFET BASED PH SENSORS
47	NISHANK MALIK	ASHIS KUMAR DAS	PATHOGENESIS OF CEREBRAL MALARIA
48	NISHIT GARG	GAURAV DWIVEDI	STUDY OF ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS
49	NITANT UPASANI	SANJAY SINGH	DEVELOPMENT OF ALOGIRTHM FOR RPPG SIGNAL EXTRACTION
50	PARTH AJAY MACHE	SUNITA RAINA	STUDY OF SOCIALIST AND CAPITALIST ECONOMIC HISTORY: A SOCIO POLITICAL APPROACH
51	PRACHI AGARWAL	RAJIV GUPTA	APPLICATION OF AI AND BIM TO MODEL AN ECONOMIC SMART HOUSING AND TO DEVELOP A METHOD FOR DETECTIC OF STRUCTURAL DEFECTS
52	PRACHI SHARMA	KUMAR SANKAR BHATTACHARYA	IMPACT OF FOREIGN INVASIONS ON THE LITERATURE AND CULTURE OF INDIA
53	PRAKHAR KAPOOR	MADHUKAR MISHRA	TRANSVERSE MOMENTUM SPECTRA OF PARTICLE USING HYDRODYNAMICS
54	PRAMETHA CHODEY	AJIT PRATAP SINGH	STREAM GROW SIMULATION OF RIVER BASIS USING SOFT COMPUTING TECHNIQUES
55	PRANAV CHATURVEDI	VISHAL SAXENA	IDENTIFY DIFFERENCES BETWEEN APICOPLAST

SPECIAL PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			GENOMES OF PLASMODIUM SPECIES
56	PRANAV CHATURVEDI	VISHAL SAXENA	TARGETING MALARIA PARASITE USING NANOPARTICLES APPROACH
57	PRATIM PATHAK	KUMAR SANKAR BHATTACHARYA	HISTORY OF HUMAN MARRIAGE
58	RAHUL MOTIYANI	RAJESH MATAI	DEVELOP A MOBILE APPLICATION TO FIND NUMBERS OF TREES IN A PARTICULAR AREA USING MACHINE LEARNING AND STATISTICS
59	RASHI SINGHAL	ANIRUDDHA ROY	GENETIC DATA MINING TO IDENTIFY DRUG TARGETS
60	RASHMI LATHI	SHIVI AGARWAL	APPLICATIONS OF FUZZY DEA IN REAL LIFE SECTORS
61	RASHMILA MITRA	RAJEEV TALIYAN	FIBRILLATION STUDY OF INSULIN
62	RINKESH JAIN	RAJIV KUMAR	STUDY OF DIFFERENT TECHNIQUES OF COMMUNITY DETECTION IN GRAPHS
63	ROHIT KUMAR	HEMANT R JADHAV	ANALYSIS OF EMOTIONAL INTELLIGENCE
64	SAMAKSHI TIWARI	SAILIJA NANDIGAMA	BIODIVERSITY ON BITS CAMPUS: A SOCIO-ECOLOGICAL PERSPECTIVE ON BIRDS AND VEGETATION
65	SAMARTH BHALERAO	RAJESH MATAI	DEVELOP A MOBILE APPLICATION TO FIND NUMBERS OF TREES IN A PARTICULAR AREA USING MACHINE LEARNING AND STATISTICS
66	SANIYA DASOT	HEMANT R JADHAV	CYP1A1 INHIBITORS AS ANTICANCER AGENTS
67	SATYAM BHASKAR	BISWANATH LAYEK	THEORETICAL STUDIES ON COMPACT OBJECTS
68	SATYAM GABA	PRATIK NARANG	REAL-TIME APPLICATION OF UAVS IN COMPUTER VISION
69	SHIVAM KHETAN	AJAYA KR. PANI	MODEL ANALYSIS USING STATISTICAL TECHNIQUES
70	SHREEYA NASA	PRATIK NARANG	REAL-TIME APPLICATIONS OF UAVS IN COMPUTER VISION
71	SHUBHAM BHATT	CHANDRA SHEKHAR	A STUDY OF RETRIAL ATTEMPTS IN MACHINE-REPAIR PROBLEM
72	SHUBHAM RAJ	MEGHANA TARE	DIFFERENT CAUSES & DIAGNOSIS OF NEURODEGENERATIVE DISEASE
73	SUVAM GANGULY	HEMANT R JADHAV	APPLICATION OF VARIOUS BIOLOGICAL MARKERS IN CANCER TOXICOLOGY
74	SUVIGYA VIJAY	K BABU RAVI TEJA	DESIGN OF AN APP FOR ENHANCED LEARNING
75	SUYASH SHARMA	SUNIL KUMAR DUBEY	APPLICATION OF MACHINE LEARNING IN PHARMACEUTICAL INDUSTRY
76	TANAY AGRAWAL	DEVESH SAMAIYA	FOREGROUND SEG,ENTATION IN HEVC ENCODED VIDEOS
77	TANYA AGGARWAL	MADHUKAR MISHRA	STUDIES ON SCATTERING THEORY
78	VEDANSH SURJAN	SHIVI AGARWAL	APPLICATIONS OF FUZZY DEA IN REAL LIFE SECTORS
79	VIBHAV MATHUR	SHIVI AGARWAL	A STUDY OF FUZZY MULTI-CRITERIA DECISION MAKING AND ITS APPLICATIONS
80	VIGNESH HEGDE	TRILOK MATHUR	FRACTIONAL ORDER NEURAL NETWORKS
81	VIJAYALAKXMI WANKHEDE	SOMSHUKLA MAITI	MOTOR IMAGERY CLASSIFICATION USING MACHINE LEARNING TECHNIQUES
82	VIKRAM WARADPANDE	BALRAM DUBEY	DYNAMICS OF BIOLOGICAL SYSTEMS
83	VIPIN ARORA	ANIRUDDHA ROY	AUTOPHAGY MODULATION IN CANCER STEM CELLS AND EFFECT ON DISEASE PROGRESSION
84	VYAM AGARWAL	SHIVI AGARWAL	STUDY OF THE FUZZY DATA EVELOPENT ANALYSIS MODELS AND APPLICATIONS
85	YASHASHVI TIWARI	MANOJ SONI	DESIGN AND FABRICATION OF DIESES ENGINE TEST RINGS
86	ASHWIN PODUVAL	CHANDRA SHEKHAR (EEE)	INVESTIGATION ON DOMAIN SPECIFIC COMPUTER ARCHITECTURES
87	SAAKSHI DIKSHIT	TAPOMOY GUHA SARKAR	CONSTRUCTING DARK ENERGY MODELS USING BARYON ACOUSTIC OSCILLATIONS

SPECIAL PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
88	UDAY GUPTA	RAKHEE	SIMULATING A SCREENING NETWORK USING GAME THEORY AND QUEUEING THEORY
89	MONIS MUSHTAQUE	PANKAJ KUMAR SHARMA	STUDY OF FLAVONOIDS WITH ANTIMICROBIAL ACTIVITIES FROM TRADITIONAL MEDICINAL PLANTS OF RAJASTHAN
90	SAUMITRA VATSAL PANDEY	MUTHUKUMAR G	NEURAL NETWORKS AND FUZZY LOGIC APPLICATION IN CONSTRUCTION MANAGEMENT
91	NIMISH GOYAL	MUTHUKUMAR G	NEURAL NETWORKS AND FUZZY LOGIC APPLICATION IN CONSTRUCTION MANAGEMENT.
92	ROHAN KELA	ASHIS KUMAR DAS	IN-SILICO CHARACTERIZATION OF NETWORK HUB GENES.
93	AMAN AGRAWAL	PRIYANSH SINGH	STUDY OF INDIAN AVIATION SECTOR
94	SHANTOM KUMAR BORAH	D BANDYOPADHYAY	STUDY OF THE E-PLANE AND H-PLANE RADIATION PATTERNS OF DIFFERENT ANTENNAE
95	PRIYADARSHI NIHAL	PRIYANSH SINGH	A STUDY OF INDIAN AVIATION SECTOR
96	ANUBHAV BANSAL	RAJESH KUMAR	NUMERICAL METHODS FOR SOLVING POPULATION BALANCE EQUATIONS
97	SOHIT AGGARWAL	P R DEEPA	SYSTEM BIOLOGY APPROACH TO UNDERSTANDING METABOLIC PATHWAY IN BIOPROCESSES AND BIOLOGICAL CELLS.
98	ANUSATYA CHOUDHARY	MANI SANKAR DASGUPTA	ANALYSIS OF HEATING OF NOSE CONE DESIGN DURING RE-ENTRY AND ITS MATERIAL BEHAVIOUR DURING RE-ENTRY.
99	ATHARVA TANDON	SYAMANTAK MAJUMDER	EPIGENETICS OF PODOCYTE DYSFUNCTION DURING DIABETIC NEPHROPATHY.
100	ANIRUDH BUVANESH	RAJESH KUMAR	NUMERICAL METHODS FOR SOLVING POPULATION BALANCE EQUATIONS
101	SHIVAM AGRAWAL	RAKHEE	MATHEMATICAL MODELLING OF SUPPLY CHAIN
102	K ROHIT SHARADWANATHA	B VANI	BIOLOGICAL HYDROGEN PRODUCTION: PROSPECTS AND CHALLENGES
103	SANJEET MALHOTRA	JITENDER KUMAR	POWER GRAPHS ASSOCIATED WITH SEMI GROUPS.
104	AVISH KHOSLA	SHIBASISH CHOWDHURY	IDENTIFICATION OF CANCER-RELATED MIRNA-LNCRNA BIOMARKERS USING A BASIC MIRNA-LNCRNA NETWORK
105	PRANJAL DAVE	SUMANTA PASARI	STUDY OF AFTER-EFFECTS OF MAJOR DISASTERS IN INDIAN CITIES/STATES USING VIIRS-OLS NIGHT-TIME LIGHT DATA
106	ARYAN A PAREEK	ASHIS KUMAR DAS	SURFACE EXPRESSED ANTIGENS IN PLASMODIUM
107	AMBUJ UPADHYAY	ASHIS KUMAR DAS	MULTISENSORY INTEGRATION
108	RIYA SRIVASTAVA	DEVIKA	PORTRAYAL OF WOMEN IN THE 21ST CE WEB SERIES AND SHOWS
109	MAYANK SINGH	P R DEEPA	ADVANCEMENT IN TISSUE ENGINEERING - 3D MODELS FOR LIFE SCIENCE RESEARCH
110	INDRANEEL GHOSH	MEGHANA TARE	DEEP LEARNING FOR DIAGNOSIS OF DIABETIC RETINOPATHY
111	NISHANK MALIK	ASHIS KUMAR DAS	INNATE IMMUNITY MECHANISMS AGAINST MALARIA
112	SANIDHYA KUMAR PANDEY	SYAMANTAK MAJUMDER	EPIGENETICS OF DIABETES AND ITS ASSOCIATED CARDIOVASCULAR COMPLEXITIES.
113	KUMAR DEOVRATA	MEGHANA TARE	DEEP LEARNING FOR DIAGNOSIS OF DIABETIC RETINOPATHY
114	SHRISTI KUMARI	RAJIV KUMAR	CONNECTED DOMINATING SET
115	SAGAR VERMA	M M PANDEY	STUDY OF VARIOUS INTRANASAL DRUG DELIVERY SYSTEMS
116	ARPIT MITTAL	SANDHYA AMOL MARATHE	ANALYZE THE ENDOGENOUS CRISPR CAS TARGETS OF SALMONELLA
117	SHETH DEEP MILAN	GAUTAM SINGHVI	REVIEW AND ANALYSIS OF EXISTING MOBILE PHONE APPS TO IDENTIFY SKIN DISEASES USING IMAGE PROCESSING, DEEP LEARNING AND SELF-CARE MANAGEMENT USING THE MOBILE APPLICATION RATING SCALE (MARS)

SPECIAL PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
118	TANVI GUPTA	MEGHANA TARE	AYURGENOMICS IN NEURODEGENERATIVE DISORDERS
119	AKRITI GARG	RAJIV KUMAR	CONNECTED DOMINATING SET
120	ANIKET AGNIHOTRI	SYAMANTAK MAJUMDER	ANALYZING THE SIGNALLING MECHANISM INVOLVED IN ALPHA-CELL AND BETA-CELL SPECIFICATION
121	DEEPANSHU AGGARWAL	ASHIS KUMAR DAS	ISOLATION OF EXOSOMES FROM BLOOD: EXOSOMES IN MALARIA
122	SHIVAM ARORA	ASHIS KUMAR DAS	UNDERSTANDING MECHANISM OF DRUG RESISTANCE IN MALARIA
123	MANSI BANSAL	MANOJ KUMAR	FINITE ELEMENT ANALYSIS OF A RECTANGULAR SIMPLY SUPPORTED PLATE SUBJECTED TO PATCH LOAD
124	ROHIT PRASAD KULKARNI	P R DEEPA	UNDERSTANDING ENZYME IMMOBILIZATION AND ITS APPLICATIONS
125	KANISHK RAJVANSHI	P R DEEPA	CLASSIFICATION OF SOFTWARE PACKAGES AVAILABLE FOR LIFE SCIENCES.
126	VINEETH GOWRA	MANOJ KUMAR SONI	MIND CONTROLLED PROSTHETIC ARM
127	SIDDHANT DANGI	MANOJ KUMAR SONI	MIND CONTROLLED PROSTHETIC ARM
128	ATHARVA DUBEY	MANOJ KUMAR SONI	MIND CONTROLLED PROSTHETIC ARM
129	DEEPANSHU GOYAL	MANOJ KUMAR SONI	MIND CONTROLLED PROSTHETIC ARM
130	NISHCHIT SONI	MANOJ KUMAR SONI	MIND CONTROLLED PROSTHETIC ARM
131	ANUSHKA BHARDWAJ	SANGEETA SHARMA	IMPLEMENTATION OF MACHINE LEARNING MODELS IN EVALUATING THE CLAIMS AND POSSIBILITY OF DOMESTIC VIOLENCE IN A GIVEN SITUATION.
132	SHIKHAR SINGH	SHILPI GARG	UNDERSTANDING THE ALTERATIONS IN GENETIC MECHANISMS AT HIGH ALTITUDES
133	ADARSHA MANI	P R DEEPA	INSIGHTS ON SLEEP CIRCADIAN RHYTHMS AND METABOLISM: PHYSIOLOGICAL AND PATHOLOGICAL IMPLICATIONS
134	SATYANSH RAI	S.A. AKBAR	WIRELESS COMMUNICATION IN SHIPS-INDIAN NAVY
135	UMANG GARG	CHANDRA SHEKHAR (EEE)	INVESTIGATION AND IMPLEMENTATION OF ON-CHIP ACTIVE NOISE CANCELLATION AND LOW-LEAKAGE RFIC ARCHITECTURE
136	PAVAN R	AMOL M MARATHE	APPLICATION OF HOMOTOPY ANALYSIS METHOD COMBINED WITH GALERKIN PROJECTIONS TO SOLVE NONLINEAR ELASTICITY PROBLEMS.
137	ADIL KHAN	GAURAV WATTS	FRACTURE ANALYSIS OF COMPOSITE BARS, BEAMS, AND PLATES USING EXTENDED FINITE ELEMENT METHOD
138	ABHISHEK JAIN	D BANDYOPADHYAY	STUDY OF THE E-PLANE AND H-PLANE RADIATION PATTERNS OF DIFFERENT ANTENNAE
139	AMAN GUPTA	RAKHEE	TO STUDY THE GENERAL SERVICE QUEUES.
140	ADITYA SHARMA	PUSHP LATA	ATTITUDE TOWARDS CONTROVERSIAL ADVERTISING:A CASE STUDY OF BITS PILANI
141	ADITYA SODHANI	MEETHA V. SHENOY	DEVELOPMENT OF AN IOT SYSTEM FOR IMAGE CLASSIFICATION ON EDGE DEVICES
142	VISHAL SINGH DEOLEYA	RAKHEE	TO STUDY THE GENERAL SERVICE QUEUES.
143	AKANKSHYA MISHRA	YASHVARDHAN SHARMA	NATURAL LANGUAGE PROCESSING TASKS WITH INDIAN LANGUAGES(FIRE WORKSHOP)
144	ADITI SINGH	UMA S DUBEY	ANTI-CANCER PROPERTY OF CAMEL MILK PROTEIN
145	AKSHIT GOEL	S GURUNARAYANAN	DESIGN OF CACHE MEMORY SYSTEM FOR HIGH PERFORMANCE COMPUTING ARCHITECTURES
146	ANUBHAV GARG	MADHUKAR MISHRA	DARK MATTER AND RELIC NEUTRINOS
147	MONIKA SAINI	SATYENDRA KR SHARMA	STUDY OF DAIRY SUPPLY CHAIN AND TESTING ITS REPLICATION
148	NEHA SAINI	SATYENDRA KR SHARMA	STUDY OF DAIRY SUPPLY CHAIN AND TESTING ITS REPLICATION
149	ARYAN SHARMA	MADHUKAR MISHRA	RESEARCH/STUDY ON NEUTRINO CALCULATIONS VIA WEAK INTERACTIONS

SPECIAL PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
150	SHYAMSUNDAR P I	GAURAV WATTS	ANALYSIS OF WAVE PROPAGATION IN COMPOSITE STRUCTURES USING SPECTRAL ELEMENT METHOD

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
1	AAGRAH SHRIVASTAVA	DHEERENDRA SINGH	MAXIMUM POWER POINT TRACKING FOR PV SYTEM USING FYZZYLOGIC TECHNIQUE
2	AAKASH BIST	R. K. GUPTA	THEORETICAL MODELING AND SIMULATION OF COMPLEX SYSTEM
3	AAKASH LAKHERA	SANJAY SINGH (CEERI)	DRIVER DROWSINESS DETECTION
4	AALAAP NAIR	AMOL M. MARATHE	APPLICATION OF THE HOMOLOGY ANALYSIS METHOD TO NON-LINEAR DISCRETE DYNAMICAL SYSTEMS
5	AARNAV DHUNUKA	TANU SHUKLA	USE OF A1 TO ANALYZE TEACHING EFFICIENCY AND TEACHING OUT COMES
6	AASHISH SINGH	ASHUTOSH BHATIA	INFORMATION GATHERING OF ENCRYPTED DATA FROM MOBILE APPLICATIONS
7	AASHYA	V. MANJULADEVI	OPTICAL COMPUTING
8	AAYUSH AGARWAL	KUMAR NEERAJ SACHDEV	UNDERSTANDING THE PHILOSOPHICAL BASES OF MORAL PSYCHOLOGY
9	AAYUSH ARYA	ARUN KUMAR	ENHANCING THE LEARNING OUTCOME OF GRADUATING STUDENTS
10	AAYUSHI LOHIA	DEEPAK CHITKARA	NANO CARRIERS FOR DELIVERY OF CANCER IMMUNE THERAPEUTICS
11	AAYUSHMAAN THAKUR	GAURAV DWIVEDI	SOBELEV SPACES AND ELLIPTIC BOUNDARY VALUE PROBLEMS
12	ABBAS ALI	JENNIFER RANJANI J	CANCER CELL DETECTION AND SEGMENTATION
13	ABHAY GUPTA	M.S.DASGUPTA	DEMAND FORECASTING USING ANN FOR SELECTED PRODUCTS AT RETAIL OUTLET.
14	ABHIK ROY	M.S.DASGUPTA	DEVELOPING A MODEL FOR DEMAND FORECASTING USING BATH STATISTICAL METHODS AND DEEP LEARNING .
15	ABHIMANYU SINGH SHEKHAWAT	A K SAINI (CEERI)	CLUSTER G OF ENVIRONMENTAL SENSORY DATA
16	ABHINAV CHOUDHARY	DEVESH SAMAIYA	DEVELOPMENT OF DRIVE CONTROL MODULE ON STM32F4 MICROCONTROLLER
17	ABHINAV GUPTA	DHIRAJ SANGWAN (CEERI)	SEMANTIC SEGMENTATION USING DEEP LEARNING APPROACH
18	ABHINAV GUPTA	SATYAM SRIVASTAVA (CEERI)	ALGORITHM FOR GAS CONCENTRATION PREDICTION FOR LOW COST METAL OXIDE BASED SENSORS
19	ABHINAV S	R. R. MISHRA	ADVANCED TOPICS IN QUANTUM MECHANICS
20	ABHINAV SHARMA	RAVI SAINI (CEERI)	RENDERING FOR EMOTIONS EXPRESSION USING DEEP LEARNING
21	ABHINAV SINGH DASOONDI	B. VANI	OSMOSOLUTE ACCUMULATION IN CYANOBACTERIA IN RESPONSE TO SALT STRESS
22	ABHISHEK GUPTA	M.S.DASGUPTA	EXPANDING MODEL ASSEMBLY LINE USING PLC (PROGRAMMABLE LOGIC CONTROLLERS) & PNEUMATIC ACTUATING EQUIPMENT.
23	ABHISHEK GUPTA	J. L. RAHEJA (CEERI)	TRACKING AND DEPTH ANALYSIS OF LUNG CANCER
24	ABHISHEK JAIN	PRAVEEN KUMAR AV	RF PHASE FOCUSING EFFECT IN LOW- ENERGY ACCELERATORS
25	ABHISHEK KRISHNA SHIVAM	M.S.DASGUPTA	VALUE STUDY ON ADDED PRODUCTS AT VILLAGE LEVEL IN FARMER'S PROFITABILITY.
26	ABHISHEK KULKARNI	M.S.DASGUPTA	EFFECT OF SURFACE TESTURING SCALE ON SELF-CLEAN FUNCTION CORRELATION BETWEEN MECHANICAL RESPONSE & WETTING BEHAVIOR
27	ABHISHEK SEBNI	KAMALESH KUMAR	GEOENVIRONMENTALPRACTICS AND SUSTAINABILITY

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
28	ABHISHEK TYAGI	K BABU RAVI TEJA	ORGANIC THIN FILM TRANSISTORS MODELING OF THRESHOLD VOLTAGE
29	ACHAL SHAH	V S NIRBAN	EFFICIENT CONVERSION OF XML SCHEMA TO A DESIRED OBJECT
30	ADARSHA MANI	SYAMANTAK MAJUMDER	EPIGENETICS OF SLEEP DISORDER
31	ADIT SHASTRI	SOMSUKLA MAITI (CEERI)	VISION BASED UAV NAVIGATION
32	ADITI SINGH	SUDESHNA MUKHERJEE	ROLE OF NANOPARTICLES IN CANCER AND ITS CROSS TALK WITH AUTOPHAGY
33	ADITYA MITHAL	AVINASH GAUTAM	MULTI ROBOT - ONLINE TERRAIN COVERAGE
34	ADITYA GARG	J. L. RAHEJA (CEERI)	ANDROID APP THAT GIVES DESCRIPTION OF IMAGE IN AUDIO
35	ADITYA GOYAL	AJAY KR. SAH	METAL ION BINDING AND FUNCTIONALITY IN ENZYMES METALLOENZYMS AND ARTIFICIAL DNA STANDS.
36	ADITYA JAMAN VAYHASIA	M.S.DASGUPTA	MODELING AND SIMULATION OF HYDRODYNAMICS OF NANOSWIMMERS
37	ADITYA LADDHA	SOMSUKLA MAITI (CEERI)	VISION BASED UAV NAVIGATION
38	ADITYA MURARKA	M.S.DASGUPTA	VALUE STUDY ON ADDED PRODUCTS AT VILLAGE LEVEL IN FARMER'S PROFITABILITY.
39	ADITYA PRAMOD NAHATA	NVM RAO	PREDICTING MULTIVARIATE TIME SERIES USING NEURAL NETWORKS
40	ADITYA R BIRADAR	M.S.DASGUPTA	DEVELOPMENT OF FRAMEWORK FOR SIX SIGMA IN SMALL AND MEDIUM SIZED INDIAN MANUFACTURING ENTERPRISES
41	ADITYA RATHI	SUMANTA PASARI	SIGN LANGUAGE RECOGNITION USING DEEP LEARNING
42	ADITYA SANDEEP BHATIA	G MUTHUKUMAR	STRUCTURAL HEALTH MONITORING USING MACHINE LEARNING
43	ADITYA SHARMA	GAJENDRA SINGH CHAUHAN	JOURNEY OF INDIAN ADVERTISING: FROM POST-INDEPENDENCE TO CURRENT ERA
44	ADITYA SHARMA	KK GUPTA	WATER QUALITY ASSESSMENT ALGORITHM
45	ADITYA SHASHIKANT KATYAYAN	NISHANT ROY	APPLICATION OF PRE-CONFINEMENT TECHNIQUE FOR STABLE EXCAVATION OF TUNNELS
46	ADITYA SODHANI	MEETHA V SHENOY	DEVELOPMENT OF AN IOT SYSTEM FOR IMAGE CLASSIFICATION ON EDGE DEVICES
47	ADITYA SONI	M.S.DASGUPTA	BIOPARTICLE SEPARATION BY LIGHT AND SOUND
48	ADVITYA SAPRA	NISHANT ROY	DYNAMIC SLOPE STABILITY CONSIDERING SITE EFFECTS
49	AISHIT JAIN	SRINIVAS APPARI	CATALYSIS FOR METHANE TO METHANOL
50	AKANKSHA GOYAL	SANGEETA SHARMA	A COMPREHENSIVE STUDY AND COMPARISON OF GREEK AND HINDU MYTHOLOGY
51	AKARSH RASTOGI	SUBHASHIS GANGOPADHYAY	FACTORS AFFECTING SOLAR CELL EFFICIENCY OF OF CU ₂ O
52	AKARSHIT JAIN	RAJNEESH CHOUBISA	DETERMINATION OF VOTING BEHAVIOR OF PEOPLE: A POLITICAL PSYCHOLOGICAL INVESTIGATION
53	AKASH GOYAL	DIPENDU BHUNIA	GREEN BUILDING AND ENERGY EFFICIENCY
54	AKASH KABRA	DHIRAJ SANGWAN (CEERI)	SEMANTIC SOFT SEGMENTATION
55	AKHIL AGRAWAL	J. L. RAHEJA (CEERI)	REAL TIME OBJECT DETECTION WITH DEEP LEARNING & OPEN CV
56	AKSHAT MEHTA	ARUN KUMAR	E-LEARNING AND STUDENT'S MOTIVATION: A CASE STUDY ON THE EFFECTIVENESS OF E-LEARNING ON PRIMARY EDUCATION
57	AKSHAY JHANWAR	UDAYAN CHANDA	USING BAYESIAN NETWORK, GAME THEORY AND MONTE CARLO COUNTERFACTUAL REGRET MINIMIZATION MODEL: A POKER PLAYER

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
58	AKSHAY SHARMA	MUKUND LAHOTI	DEVELOPMENT OF FLY ASK BASED GROPOLYMER PAST FOR STRUCTURAL FIRE RESESTANCE APPLICATIONS
59	AKSHAYA	NVM RAO	EFFECT OF SOCIOECONOMIC FACTORS ON INFANT MORTALITY RATE IN INDIA: STATE WISE ANALYSIS
60	AKSHIT ACHARA	J. L. RAHEJA (CEERI)	TRACKING AND DEPTH ANALYSIS OF LUNG CANCER CELLS
61	AKSHIT BOR DIA	KAMALESH KUMAR	GEOENVIRONMENTALPRACTICS AND SUSTAINABILITY
62	ALIHAYA SHARMA	GAJENDRA SINGH CHAUHAN	JOURNEY OF INDIAN ADVERTISING: FROM POST-INDEPENDENCE TO CURRENT ERA
63	AMAN GARG	RAJESH KUMAR	ANALYTICAL SOLUTION FOR COAGULATION FRAGMENTATION EQUATIONS
64	AMAN GUPTA	RAKHEE	A STUDY OF MARKAV CHAIN MONTE CARLO METHODS
65	AMAN MUDGAL	DEVIKA	TO STUDY THE CHANGE IN CULTURE OF CITY OF KANDHAR IN VARIOUS TIMELINE
66	AMAN SANGHI	POONAM GOYAL	DESIGN OF EFFICIENT DATA DISTRIBUTION STRATEGIES FOR PARALLEL DATA MINING ALGORITHMS ON DISTRIBUTED MEMORY ARCHITECTURE
67	AMAN SHUKLA	NITIN CHATURVEDI	STUDY OF SMART ENVIRONMENT MONITORING SYSTEM USING MICROPROCESS/MICROCONTROLLER SOC
68	AMEY ROKADE	PAWAN K AJMERA	AN EVOLUTIONARY SINGLE GABOR KERNEL BASED FILTER APPROACH TO FACE RECOGNITION
69	AMEYA SHRIPAD BHALERAO	PAWAN K AJMERA	STUDY OF BIOMETRIC SYSTEM : FINGERPRINT RECOGNITION
70	AMIT BANSAL	A K SAINI (CEERI)	CLASSIFICATION OF ENVIRONMENTAL DATA
71	AMIT TIWARY	MEGHANA TARE	TO STUDY DIABETIC RETINOPATHY AND DETECT ITS SIGNS IN EYE IMAGES
72	ANANYA SINGH	PRIYA C SANDE	CFD SIMULATION OF RECIRCULATING FLUIDIZED BED
73	ANANYAM DWIVEDI	M.S.DASGUPTA	MICRO STRUCTURE PREDICTION IN ALLOYS DURING ADDITIVE MANUFACTURING
74	ANIMESH GAUR	SANDEEP SUNDRIYAL	DEVELOPMENT & ANALYSIS OF LIBRARY BASED ON UGI REACTION
75	ANIRJIT HOM ROY	S. M. ZAFARUDDIN	RESOURCE ALLOCATION FOR AUTONOMOUS SYSTEMS
76	ANIRUDH CHAKRAVARTHY	SUNDARESAN RAMAN	DETECTION OF PLANT DISEASES USING DEEP LEARNING
77	ANIRUDH GARG	TANU SHUKLA	COMPARITIVE STUDY BETWEEN TEACHER EDUCATION CURRICULUM IN INDIA AND USA
78	ANIRUDHA K	NAVNEET GOYAL	GENERATING DESCRIPTIONS FROM VIDEOS
79	ANISH SABEER	M.S.DASGUPTA	IDENTIFICATION OF CRITICAL FACTORS RESPONSIBLE FOR SUSTAINABLE DEVELOPMENT OF SPORTS-INDUSTRY
80	ANKIT ROY	GAURAV PUROHIT(CEERI)	DESIGN OF A WEB CRAWLER AND STUDY OF GNU RADIO BASED ON PYTHON OOB MODULE
81	ANOUSHKA SARASWAT	ANU GUPTA	DESIGN OF LOW VOLTAGE LOW POWER SELF BIASED CMOS CURRENT SOURCE REFERENCE FOR SUBTHRESHOLD APPLICATIONS
82	ANSHU AGRAWAL	M.S.DASGUPTA	PROCUREMENT ANALYSIS FOR SELECTED COMPONENTS
83	ANUBHAV ELHENCE	R. VAIDYA	ASPECTS OF SYMMETRY IN THEORETICAL PHYSICS
84	ANUBROLU VASUDEV	NAVNEET GOYAL	DOCUMENT ANALYSIS OF SANSKRIT MANUSCRIPTS USING DEEP LEARNING
85	ANUPAM AGGARWAL	NAVNEET GOYAL	SANSKRIT OCR
86	ANURAG MALLICK	PRAVEEN KUMAR AV	RELIABILITY STUDIES ON THE WAVEGUIDE BASED MATERIAL CHARACTERIZATION TECHNIQUES.
87	ANURAG SINGH	M.S.DASGUPTA	TO STUDY CHIASTIC DYNAMICS IN THE CONTEXT

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			OF JOURNAL BEARING SYSTEMS.
88	ANUSHKA DAYAL	RAJDEEP CHOWDHURY	PREDICTING FDA APPROVED DRUGS THAT CAN BE USED FOR CANCER THERAPY
89	ANUSHKA GUPTA	AK VAISH	IN-DEPTH STUDY OF HEDGING TECHNIQUES
90	ANUSHKA JAIN	SYAMANTAK MAJUMDER	UNDERSTANDING HISTONE MODIFICATION ROLE IN MUSCULAR DISFUNCTION UNDER DIABETES USING CHIP SEQUENCING DATA
91	APARNA.M	ANU GUPTA	DESIGN AND ANALYSIS OF NANOMETER SRAM IN SUBTHRESHOLD REGION.
92	APOORV RAJ SINGH	M.S.DASGUPTA	STOCKING DECISIONS RELATED TO SPARE PARTS.
93	APOORVA AGRAWAL	VIRENDRA SINGH SHEKHAWAT	MULTI PATH ROUTING ALGORITHM FOR MULTIPATH TCP IN SDN
94	APURV BAJAJ	POONAM GOYAL	IMAGE UNDERSTANDING WITH THE HELP OF VISUAL, TEXTUAL AND KNOWLEDGE BASE.
95	APURVA SURYA	PARITOSH SHUKLA	ON WATER REACTIONS (A MECHANISTIC STUDY)
96	APURVA SURYA	DEVESH SAMAIYA	BACKGROUND SEG,ENTATION IN HEVC / H265 ENCODED VIDEOS
97	ARJUN DHAR	KAMLESH TIWARI	IMAGE SEGMENTATION FOR LINE/POLYGON/POINT FEATURE
98	ARJUN GUPTA	KAMALESH KUMAR	BIO- AGGREGATES BASED BUILDING MATERIALS
99	ARPIT MUDGAL	RAJNEESH CHOUBISA	REPLICATING THE MILLER'S FORMULA IN INDIAN CONTEXT: AN EXPERIMENTAL ANALYSIS
100	ARTH ABHINAV ROHATGI	JENNIFER RANJANI J	VEHICLE DETECTION AND SPEED TRACKING
101	ARYAN MEHRA	PRATIK NARANG	OBJECT DETECTION IN LOW RESOLUTION FOR SECURITY SURVEILLANCE
102	ARYAN PANKAJ SAWHNEY	ASHUTOSH BHATIA	DEVELOPMENT OF VANET SIMULATION FRAMEWORK OVER MININET.
103	ASHISH DHEK	AJIT PRATAP SINGH	GROUND WATER MANAGEMENT IN SOME SELECTED REGIONS USING MODFLOW
104	ASHISH KUMAR	PANKAJ KUMAR SHARMA	STUDY OF FLAVONOIDS EXTRACTION PROCEDURES FROM PLANTS
105	ASHWIN PODUVAL	V.K. CHAUBEY	ANALYSIS AND IMPLEMENTATION OF DIGITAL LOGIC CIRCUITS USING TFET
106	ASHWIN S SUDARSHAN	MEGHANA TARE	MICRORNA IN NEUROGENERATION
107	AV PAWAN KUMAR	RICHA SRIVASTAVA	CROSSTALK BETWEEN AUTOPHAGY AND REDOX PATHWAYS IMPLICATION IN BREAST CANCER DEVELOPMENT AND PROGRESSION
108	AVI RAI	KOTA SOLOMON RAJU (CEERI)	IMPLEMENTATION OF APPLICATION LAYER PROTOCOL FOR IOT APPLICATION
109	AVICHAL JAIN	SUMEET SAURAV (CEERI)	ACTION RECOGNITION USING UNSUPERVISED LEARNING
110	AVINASH MANOJ SONTAKKE	MANJULADEVI .V	GHOST IMAGING
111	AVIRAL SETHI	RAJAN PANDEY	HIGH FREQUENCY TRADING AND ITS APPLICATION ON EQUITY DERIVATIVES: EVIDENCE FROM INDIAN STOCK MARKET
112	AWANEESH SHUKLA	A.K.DIGALWAR	APPLICATIONS OF FUZZY QFD IN LEAN MANUFACTURING.
113	AYUSH BANSAL	CHANDRA SHEKHAR	PREDICTING THE BEHAVIOUR OF A QUEENEING MODEL USINGH ARTIFICIAL NEURAL NETWORK
114	AYUSH KUMAR	AK GIRI	IMPACT OF MACROECONOMIC INDICATORS ON INDIAN STOCK VOLATILITY
115	AYUSH KUMAR BEHERA	M.S.DASGUPTA	NUMERICAL ANALYSIS AND EXPERIMENTAL VALIDATION OF HEAT TRANSFER ASSOCIATED WITH RADIATORS IN FAE CAR.
116	AYUSH MUNGAD	DHIRAJ SANGWAN (CEERI)	SEMANTIC SOFT SEGMENTATION
117	AYUSH VACHASPATI	KAMLESH TIWARI	DIFFERENCE DETECTION BETWEEN SATELLITE IMAGES OF DIFFERENT VINTAGE
118	AYUSHI AGRAWAL	NVM RAO	AN EMPIRICAL ANALYSIS ON POLLUTION

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S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			ABATEMENT AND EMPLOYMENT
119	B. SRI SOURYA SAI	RAJNEESH CHOUBISA	E-HEALTH AND M-HEALTH: AN INVESTIGATION IN INDIAN CONTEXT
120	BHAGYESH TRIVEDI	M.S.DASGUPTA	DESIGNING AND OPTIMIZATION OF FSAE WHEEL ASSEMBLIES
121	BHARAT BHARGAVA	V.S.NIRBAN	TECHNOLOGY INTERVENTIONS IN GOVERNANCE
122	BHAVIKA GUPTA	KK GUPTA	FEATURE EXTRACTION IN COMPRESSED DOMAIN
123	BISWAJIT BISWAS	SOMSUKLA MAITI (CEERI)	GENERATION OF ARTIFICIAL EEG DATA USING DEEP LEARNING FRAMEWORK
124	CHAITANYA MAHESHWARI	VISHAL SAXENA	ANALYSIS OF PLASMODIUM DATABASE TO DELINEATE PROBABLE CANDIDATES FOR APICOPLAST DIVISION MLA.
125	CHAITANYA PVSK	ANUPAM YADAV	LOGICAL AND EPISTEMOLOGICAL FOUNDATION OF ARTIFICIAL INTELLIGENCE
126	CHANDAK TANMAAY SANDIP	KAMLESH TIWARI	HOMOMORPHIC ENCRYPTION
127	CHANDAN PANDEY	ASHIS KUMAR DAS	ROLE OF EPIGENETICS IN CANCER INITIATION AND PROGRESSION
128	CHESHTA BABBAR	SUDESHNA MUKHERJEE	ROLE OF NON-CODING RNAs DIFFERENTIALLY EXPRESSED ON CYKOTINE MODULATION
129	CHINMAY AGARWAL	J. L. RAHEJA (CEERI)	DRIVERLESS CARS
130	CHITRA	SANGEETA SHARMA	TO STUDY THE EFFECTS OF PESTICIDES USE ON HOUSE SPARROW POPULATION IN INDIA AND TO DEVISE EFFECTIVE METHOD FOR THEIR WNSERVATION
131	CV KRISHNA MURTHY	V.K. CHAUBEY	PHOTONIC BASED POSITIONING SYSTEM
132	D.BALA VADAN	M.S.DASGUPTA	SIMULATING TEMPERATURE DISTRIBUTION IN METALLIC 3.D PRINTING
133	DAKSH	RICHA SRIVASTAVA	ROLE OF OXIDATIVE STRESS IN CHEMOTHERAPEUTIC RESISTANCE IN BREAST CANCER
134	DAKSH GUPTA	NVM RAO	CONSTRUCTING A RISK APPETITE FRAMEWORK FOR PUBLIC SECTOR BANKS
135	DEBARCHAN BASU	ANIL RAI	COMPARATIVE STUDY OF INDIAN AND WESTERN MUSICAL SCALES
136	DEEPAK SINGHANIA	ANU GUPTA	DESIGN AND ANALYSIS OF ENHANCED LINEARITY IN DIGITAL SYSTEM
137	DEEPANKAR K ANAND	AJIT PRATAP SINGH	SIMULATION OF HYDROLOGICAL EVENTS
138	DEEPANSH GOYAL	MAHESH ANGIRA	STUDY OF RF MEMS SWITCHES FOR 5-G APPLICATION
139	DESHMUKH ADVAIT MAHESH	DEVIKA	FEMINISTIC ANALYSIS OF WOMWN IN GREEK MYTHOLOGY
140	DEV RAJ KHANDELWAL	M.S.DASGUPTA	A NOVEL SCHEME FOR BUILDING AUTONOMOUS VEHICLE BY RETROFITTING EXISTING CARS AND SETTING A SMART SURVEILLANCE INFRASTRUCTURE
141	DEVANSHU TAK	M.S.DASGUPTA	DEVELOPMENT OF RCM MODEL FOR ROLLING STOCK
142	DEVESH VASHISHTHA	DIPENDU BHUNIA	RECENT DEVELOPMENT IN THE EARTHQUAKE ENGINEERING FIELD IN TH STRUCTUAL ENGINEERING AREA
143	DEVESH YADAV	M.S.DASGUPTA	C NEEP LIFE PREDICTION OF BOILER TUBES USED IN POWER PLANTS SUBJECTED TO OXIDE SCALE FORMATION
144	DHANVI SHEKHAR	PUSHP LATA	BODY LANGUAGE AS A CULTURAL CONSTRUCT FOR A EFFECTIVE INTERPERSONAL SKILLS
145	DIKSHA KUMARI	AK GIRI	IMPACT OF MACROECONOMIC INDICATORS ON INDIAN STOCK VOLATILITY
146	DIVYA PADTE	PUSHP LATA	STUDYING THE UNIVERSITY OF MANAGERIAL PRINCIPLE BY DRAWING PARALLELS BETWEEN THE MAHABHATATA AND TWENTY FIRST CENTURY

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S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			BUSSINESSES
147	DIVYA PRAKASH	M.S.DASGUPTA	MATHEMATICAL MODELING OF NAN SWIMMERS
148	DIVYAM GOEL	PRATIK NARANG	ADVERSARIAL NETWORKS FOR INTELLIGENT SYSTEMS
149	DIVYAM PATRO	NEETU YADAV	STUDY OF SUSTAINABILITY REPORTING PRACTICES OF TOP 50 COMPANIES
150	DIVYANSH GUPTA	AJAYA KR. PANI	MODEL DEVELOPMENT FOR SULPHUR CYCLE PREDICTION IN PYRO POCCESS
151	DIVYESAKSHI ROHIL	VISHAL GUPTA	DATA STRUCTURES AND ALGORITHMS FOR FLOW TABLES IN SDN SWITCHES
152	DIWANIA PRANAY R	RAJESH KUMAR	STUDY ON OORT-HULST SAFRONOV MODEL
153	G ADITYAN	KAMLESH TIWARI	TRUE FINGERPRINT FEATURE EXTRACTION
154	GARV SACHDEVA	KRISHNENDRA SHEKHAWAT	ENISTANCE OF RECTANGULAR FLOOR PLANS AND THEIR CONSTRUCTION
155	GOURI SAJITH	RAJIV GUPTA	GIS-BASED WEB APPROACH TO PRECISION AGRICULTURE
156	GUNANK SINGH JAKHAR	JENNIFER RANJANI J	CLASSIFYING THE MICROSCOPIC BIOPSY IMAGES FOR CANCER DETECTION
157	HARDIK BHATNAGAR	SHILPI GARG	GENE DRIVE WITH CRISPR-CAS9 TO ERADICATE MALARIA
158	HARSH BHOOOTH	NVM RAO	PREDICTING MULTIVARIATE TIME SERIES USING NEURAL NETWORKS
159	HARSH KHANDELWAL	PRABHAT N JHA	ANALYSIS OF VIRULENCE GENES IN PATHOGENS
160	HARSHAVARDHANA SHRIRUP	KAMLESH TIWARI	HI! IAM RAM
161	HARSHIT GOYAL	RAJIV KUMAR	STUDY OF CONNECTED DOMINATING SET, GRAPHS AND DIGRAPHS
162	HARSHWARDHAN MITTAL	SUROJIT PANDE	TO STUDY AND CATEGORISC CARBON & NON CARBON BASED NANOMATERIALS FOR INDUSTRIAL APPLICATION.
163	HET GALA	DALIP KUMAR	SYNTHESIS STRATEGIES, FICTIONALIZATION, PHOTO PHYSICAL PROPERTIES OF BORON-DIPYRROMETHENES (BODIPYS).
164	HIMANI SHARMA	DEVIKA	FOSTERING THE CULTURE OF POLITICAL READING IN THE SOCIETY STUDY DURING PRE-ELECTION PERIODS OF THE POLITICAL PARTIES
165	HIMANSHU TODWAL	SANGEETA SHARMA	DEVISING STRATEGY TO LEVERAGE THE ALREADY EXISTING PROGRAMS FOR WOMAN EMPOWERMENT
166	HIMESH SOGANI	MANOJ KUMAR	ANALYSIS OF THE BEHAVIOUR OF CABLE STAYED BOX GIRDES BRIDGES
167	HIMUJJAL UPADHYAYA	SUMANTA PASARI	ANALYSIS OF FLOOD FORECASTING TECHNIQUES USING BAYESIAN MODELS
168	HITESH RAGHUVANSHI	M.S.DASGUPTA	DESIGN OF SOLAR THERMAL COOKER
169	HITESH SAGTANI	AK GIRI	PRICING OF WEATHER DERIVATIVES
170	HONNESH ROHMETRA	PRATIK NARANG	SEMANTIC SEGMENTATION FOR REAL-WORLD SCENE ANALYSIS
171	HRIDYANSHU SINGHAL	PRADIPTA C	FOAM STABILITY AND ITS APPLICATIONS
172	HRISHAV RAJ	RAJAN PANDEY	ESTIMATION OF REALIZED VOLATILITY OF INDEX FUTURE TRADED ON INDIAN STOCK MARKETS
173	ISHA BHORKAR	PRIYA C SANDE	REVIEW OF EXPERIMENTAL AND SIMULATION WORKS TO ENHANCE FCC
174	ISHAN JOGLEKAR	KRISHNA M	ANALYSIS OF EFFECTS OF SUPPLY AND DEMAND SHOCKS OF OIL ON MACROECONOMIC VARIABLES PERTAINING TO A NET EXPORTING AND NET IMPORTING COUNTRY
175	ISHAN MANGOTRA	S. GANGOPADHYAY	TRANSITION METAL OXIDE GAS SENSORS
176	ISHAN SINGH RAWAL	SHIBSHISH CHOWDHURY	COMPUTATIONAL AND MATHEMATICAL MODELLING OF NEURAL SYSTEM
177	ITI SINGH	MONIKA GUPTA	JEVON'S PARADOX: A CASE STUDY OF

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S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			ELECTRICITY CONSUMPTION
178	J HARISHITH REDDY	RAVIKANT MITTAL	ECONOMICAL SOLUTION FOR BEARING CAPACITY & SETTLEMENT OF SHALLOW FOUNDATION
179	JAANVI AGRAWAL	B V REDDY	APPLICATION OF MEMBRANES IN BIOLOGICAL SYSTEMS
180	JAI RAWAL	SACHIN U. BELGAMWAR	BIOPARTICLE SEPARATION BY LIGHT AND SOUND
181	JATIN SINGH	PRASHANT U MANOHAR	TO QUANTUM TUNNELING FROM TWO PERSPECTIVES: A. TIME DEPENDENT ASPECTS; B. SYSTEMS WITH DOUBLE WELL POTENTIALS.
182	JITENDRA SINGH	AJIT PRATAP SINGH	LIFE CYCLES ASSESSMENT OF WASTEWATER TREATMENT IN STEEL INDUSTRIES
183	JYOTI VISHNOI	KUMAR NEERAJ SACHDEV	UNDERSTANDING THE ROOTS AND REASONS OF EXISTENCE OF SELECT INDIAN RELIGIONS
184	JYOTISHMAAN TRIPATHI	DEVESH SAMAIYA	BACKGROUND SEGMENTATION IN HEVC ENCODED VIDEOS
185	K SRI RAGHU CHARAN	S.B. SINGH	STUDY OF FIRE RESISTANCE IN FRP AND ITS APPLICATIONS
186	KANIKA SAXENA	DEVESH SAMAIYA	DESIGN OF DISPLAY CONTROLLER FOR LED MATRIX PANEL
187	KARABEE BATTA	KAUSHAR VAIDYA	STUDY OF STAR CLUSTERS USING GAIA DATA
188	KARTIK AGARWAL	SUSHILA SHEKHAWAT	ETHICS IN CONTEMPORARY WORK
189	KARTIK PATIL	AK VAISH	BACK TESTING AND DOCUMENTATION OF CREDIT RISK MODELS
190	KARTIK TYAGI	M.S.DASGUPTA	DEVELOPMENT OF ENERGY EFFICIENCY UNDER FOR MACHINE TOOLS
191	KAUSTAV DUTTA	MANJULADEVI .V	GHOST IMAGING
192	KAUSTUBH YAWALEKAR	MR. RISHIKESH VAIDYA	GREY WATER RECYCLING SYSTEMS (GWRS)
193	KESHAV MAHAJAN	SRINIVAS APPARI	BIOMASS CONVERSION TO VALUE ADDED CHEMICALS
194	KEVAL NANDU	NVM RAO	THE IMPACT OF EDUCATION ON UNEMPLOYMENT AND POVERTY
195	KHUSHBOO KUMARI	AMIT DUA	RECOMMENDER SYSTEM FOR SOCIAL IOT
196	KIRTIRAJ SHRIVASTAVA	S. M. ZAFARUDDIN	SELF-INTERFERENCE CANCELLATION IN FULL DUPLEX COMMUNICATION
197	KOMAL AGARWAL	SUNITA RAINA	SECULARIZATION VS RESACRALIZATION OF THE INDIAN SOCIETY
198	KRITI KUKREJA	MRINMOYEE BASU	STUDY OF APPLICATION AND SYNTHESIS OF NANOMAGNETS
199	KRITI RATHI	M.S.DASGUPTA	VIDEO ANALYSIS BASED STUDY OF SPORTS MOVEMENTS
200	KSHITIJ ARORA	VINAY CHAMOLA	NETWORK PLANNING AND MANAGEMENT FOR 5G CELLULAR NETWORKS
201	KSHITIJ GUPTA	KAMLESH TIWARI	HI! I AM RAM
202	KSHITIJ MIDDWA	M.S.DASGUPTA	BIOMASS SOLAR HYBRID SYSTEM
203	KULKARNI ADITYA YOGESH	SRIKANTA ROUTROY	EXPLORING IMPORTANCE OF INFORMATION & COMMUNICATION TECHNOLOGIES (ICT.) IN AGRICULTURE SUPPLY CHAIN MANAGEMENT DECISIONS
204	KUMAR SHRESHTHA	VISHAL SAXENA	ANALYSIS OF PROBABILISTIC IMMUNE MOLECULES USING MLA
205	LABONI MANDAL	PRADIPTA C	FOAM STABILITY AND ITS APPLICATION
206	LAKSHAY KUMAR	TANU SHUKLA	COMPARITIVE STUDY BETWEEN TEACHER EDUCATION CURRICULUM IN INDIA AND USA
207	LAKSHAYA MAHESHWARI	HARI OM BANSAL	INTEGRATION AND CONTROL OF HYBRID RENEWABLE ENERGY SYSTEM
208	LAKSHYA KWATRA	RUPAM GOSWAMI	STUDY AND MATHEMATICAL ANALYSIS OF A MOS CAPACITOR AS BIOSENSORS
209	LISHA LAMBA	SUSHILA SHEKHAWAT	TO STUDY THE PRE-PRODUCTION, PRODUCTION

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S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			AND THE POST PRODUCTION PROCESS OF DOCUMENTRY FILM MAKING
210	LITESH	RAVIKANT MITTAL	DESIGN OF FOUNDATION FOR STATIC AND DYNAMIC LOAD
211	LOHITH KARLAPUDI	PUSHP LATA	CULTURE AS DENOMINATOR FOR SUCCESS AND FAILURE OF INDIAN COMPANIES IN INDIA AND ABROAD
212	M RITHWIK VENKAT RATNAM	RAVIKANT MITTAL	ECONOMICAL SOLUTIONS FOR SHALLOW AND DEER FOUNDATIONS
213	MADHUR WADHWA	R. K. GUPTA	COMPUTER/THEORETICAL MODELING AND SIMULATION OF COMPLEX SYSTEM
214	MADIHA MANZOOR	KUMAR NEERAJ SACHDEV	UNDERSTANDING THE ROOTS AND REASONS OF EXISTENCE OF SELECT INDIAN RELIGIONS
215	MADIHA MANZOOR	SAILIJA NANDIGAMA	BIODIVERSITY ON BITS CAMPUS: A SOCIO-ECOLOGICAL PERSPECTIVE ON BIRDS AND VEGETATION
216	MANAL GARG	SUMANTA PASARI	FORECASTING EARTHQUAKE OCCURRENCE USING BAYESIAN MOLDELS
217	MANAN GARG	SYAMANTAK MAJUMDER	EPIGENETICS IN CONTEXT WITH PANCREATIC B CELLS
218	MANAV FAKEY	SATYENDRA KR. SHARMA	SUPPLY CHAIN RISK ASSESSMENT
219	MANAV KAUSHIK	NVM RAO	STUDY AND ANALYSIS OF PREDICTIVE ALGORITHMS FOR MARKET RISK MODELING
220	MAYANK AGGARWAL	ASHUTOSH BHATIA	EXPLOITING MULTIPLE PATHS IN MULTI-HOP CO-OPERATIVE AD-HOC NETWORKS FOR PROVIDING SECURITY WITHOUT TRUSTED THIRD PARTY
221	MAYANK RAJ	M.S.DASGUPTA	DEVELOPMENT OF STRATEGIC FIT ALONG PRODUCT LIFECYCLE
222	MAYUR DHWAJ SINGH	KRISHNA M	HISTORICAL PATTERNS AND DYNAMICS OF PUBLIC DEBT
223	MD ADNAN SHAFIQUE	INDRESH KUMAR	A STUDY ON THE SYNTHESIS AND BIOLOGICAL APPLICATIONS OF TRIAJCHIC OXAZEPINES.
224	MD. ADNAN KHAN	SRINIVAS APPARI	CATALYSTS FOR METHANE TO ETHYLENE
225	MD. ADRAAN SHAFIQUE	S.B. SINGH	STUDY OF FIRE RESISTANCE IN FRP AND ITS APPLICATIONS
226	MEHAK BINDRA	DHIRAJ SANGWAN (CEERI)	THREAT OBJECT DETECTION IN X-RAY BAGGAGE SCANNING USING DEEP LEARNING TECHNIQUES
227	MEHTA AASHAY PINKESH	POONAM GOYAL	EVENT DETECTION FOR STREAMING DATA
228	MEHUL GOYAL	SAUMI RAY	STUDY OF SYNTHESIS AND PROPERTIES OF CARBON NANO TUBES AND CARBON FIBRES.
229	MEHUL GOYAL	NISHANT ROY	EFFECSS OF BLAST INDUCED VILITATIONS ON SHE STABILITY OF UNDERGROUND STRUCTURES
230	MIHIR AJAY CHAVARKAR	NITIN CHATURVEDI	STUDY OF ELDERLY CARE MONITORING EVENT MONITORING USING MICROPROCESSOR BASED SYSTEM.
231	MIHIR PRATAP SINGH	AK GIRI	GAME THEORY AND ITS APPLICATION IN FINANCE
232	MINAL GARG	M.S.DASGUPTA	ANALYSIS OF ROOFTOP SOLAR INSTALLATIONS FOR LOAD REDUCTION ON GRID
233	MITUL SHARMA	NILADRI SARKAR	STUDY IN ELASTIC SCATTERING MECHANISM IN CNT- BASED MOSFETS
234	MOHAMMAD ZUBAIR	AJIT PRATAP SINGH	LIFE CYCLES ASSESSMENT OF WASTEWTER TREATMENT IN STEEL INDUSTRIES
235	MOHIT BHATIA	HD MATHUR	OPTIMIZING PID PARAMETERS USING MACHINE LEARNING
236	MOHIT JAIN	GAURAV DWIVEDI	SOBELEV SPACES AND ELLIPTIC BOUNDARY VALUE PROBLEMS
237	MOHIT KRIPLANI	SHIBASISH CHOWDHURY	PREDICTION OF TARGET OF LONG-CODING RNA (INC RNA) USING AI
238	MOHIT SIDHWANI	M.S.DASGUPTA	DESIGN AND DEVELOPMENT OF SOLAR STEAM

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S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			GENERATORS
239	MONIKA SAINI	RAJNEESH CHOUBISA	GAMES AND MENTAL HEALTH: AN INVESTIGATION WITH COLLEGE STUDENTS
240	MRIGANKSHI KAPOOR	AK GIRI	PREDICTING THE ONSET OF CRASH OF SECURITY PRICE BUBBLES IN INDIAN MARKET
241	MUKUL SINGLA	TANU SHUKLA	TO EXAMINE CLASSROOM INTERACTION AND ITS PERTINENT EFFECTS AND ACHIEVEMENT
242	MURRCL SALDANHA	MEGHANA TARE	STUDY OF THE DROSOPHILA GENOME. SUMOYLATION AND ITS EFFECT ON HUNTINGTON'S DISEASE
243	MUSKAN BHAN	SAILIJA NANDIGAMA	DEPENDENCY THEORY IN THE CONTEXT OF LATIN AMERICA
244	MUSTANSIR BARTANWALA	AK GIRI	PRICING OF WEATHER DERIVATIVES
245	MUSTANSIR MOHAMMED MAMA	ABHISHEK MISHRA	ALGORITHMIC GAME THEORY
246	N.C.SAKETH	M.S.DASGUPTA	DETERMINING THE OPTIMUM PROCESS PARAMETER FOR ECO EFFICIENCY OF MACHINING PROCESS
247	NALIN SHARMA	SANJAY SINGH (CEERI)	DRIVER DROWSINESS DETECTION
248	NAMAN WADHWA	M.S.DASGUPTA	A CONCEPTUAL MODEL FOR THE DEPLOYMENT OF LEAN SIX SIGMA
249	NAVEEN UNNIKRISHNAN	ABHISHEK MISHRA	ALGORITHMIC GAME THEORY
250	NEETHU MARIYA JOY	K. HARI BABU	INCREMENTAL SDN DEPLOYMENT IN ENTERPRISE NETWORK
251	NEHA AGGARWAL	ARUN KUMAR	PATANJALI: A CASE APPROACH
252	NEHA SAINI	RAJNEESH CHOUBISA	GAMES AND MENTAL HEALTH: AN INVESTIGATION WITH COLLEGE STUDENTS
253	NIDISH GARG	MANOJ KANNAN	APPLICATION OF MACHINE LEARNING & AI IN BIOLOGY
254	NIHAL SINGH	HD MATHUR	INTEGRATION AND CHARGING OF ELECTRIC VEHICLES IN MICROGRID SCENARIOS
255	NIKUNJ AGARWAL	ARUN KUMAR	ALGORITHMIC TRADING STRATEGIES USING QUANTITATIVE ANALYSIS
256	NIKUNJ AGARWAL	PRAMOD KUMAR TANWAR (CEERI)	AUGMENTED REALITY FOR AUTOMATION OF INDUSTRIAL TRAINING PURPOSE
257	NIPUN NEIL	M.S.DASGUPTA	REGIONAL FEASIBILITY STUDY OF VEHICLE-TO-GRID SYSTEMS.
258	NIRLIPTA PANDE	MONIKA GUPTA	JEVON'S PARADOX: A CASE STUDY OF ELECTRICITY CONSUMPTION
259	NISHANT GUPTA	NAVNEET GUPTA	QUANTUM CAPACITANCE MODELING OF CARBON NANOTUBE FIELD-EFFECT TRANSISTOR (CNFET)
260	NOEL SAM JOHN	A.R.HARIKRISHNAN	THERMAL TRANSPORT AND ELECTRO-HYDRODYNAMICS OF NON-NEWTONIAN FLUID FLOW THROUGH NANOCHANNELS.
261	OM KAMLESH PATEL	M.S.DASGUPTA	BLOCK CHAIN APPLICATION IN AGRIC SUPPLY CHAIN
262	OMKAR SATHE	MEETHA V SHENOY	SENSOR FUSION FOR ROBOTIC LOCALIZATION
263	P RIJU JACOB	SATYAM SRIVASTAVA (CEERI)	QUANTIFICATION AND CLASSIFICATION ALGO. IMPLEMENTATION FOR HEAVY METAL DETECTION IN WATER SAMP.
264	PANKAJ TAWALE	KAMALESH KUMAR	BIO-AGGREGATES BASED BUILDING MATERIALS
265	PARITOSH ASHUTOSH SHARMA	DEVIKA	ANALYSIS OF POST MODERN TEXT TO TRACE THE CURRENT PATTERN OF RELATIONSHIP (FEMINIST TEXT)
266	PARTH GOYAL	A K SAINI (CEERI)	CLASSIFICATION OF ENVIRONMENTAL SENSORY DATA
267	PARTH GOYAL	NVM RAO	STUDY AND ANALYSIS OF PREDICTIVE ALGORITHMS FOR MARKET RISK MODELING
268	PARTH SAMNANI	ANUPAM YADAV	PHILOSOPHICAL AND ETHICAL ISSUES OF

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			ARTIFICIAL INTELLIGENCE
269	PARV V. PANTHARI	KRISHNA M	ANALYSIS OF EFFECTS OF SUPPLY AND DEMAND SHOCKS OF OIL ON MACROECONOMIC VARIABLES PERTAINING TO A NET EXPORTING AND NET IMPORTING COUNTRY
270	PAVAN R	M.S.DASGUPTA	CREEP MODELING OF ALLOY 617 FOR ULTRA-SUPERCRITICAL POWER PLANTS
271	PIKLU PAUL	V.S.NIRBAN	TECHNOLOGY INSERVENTION IN SOCIAL SECTORS
272	PIYUSH GARG	A K SAINI (CEERI)	DRIFT COMPENSATION AND SIGNAL PROCESSING FOR SENSORY DATA
273	PIYUSH JAIN	S. GANGOPADHYAY	GRAPHENE INKS FOR PRINTED FLEXIBLE ELECTRONICS
274	PIYUSH MISHRA	P SRINIVASAN	TO SIMULATE AND ANALYSE ABLATION PHEROMONE DURING REENTRY OF SPARE VEHICLES INTO ATMOSPHERE FOR VARIOUS SHAPES WITH VARYING ANGLE OF DESCENT
275	PRAKHAR	ARUN KUMAR	STATISTICAL ANALYSIS OF TEACHING EFFECTIVENESS IN BITS PILANI USING REGRESSION ANALYSIS
276	PRANAV BANSAL	M.S.DASGUPTA	VSM OF WASTE GENERATED FROM SPECKLING PROCESS
277	PRANAV CHATURVEDI	M.S.DASGUPTA	TO DESIGN A SOLAR THERMAL CROKER WINE THERMAL STORAGE
278	PRANIT BHAVISHI	AK GIRI	FINANCIAL CRISIS: ANALYSIS, FORECASTING AND POLICY EFFECTS
279	PRANJAL SARIN	M.S.DASGUPTA	IDENTIFICATION OF SCOPE OF MACHINE LEARNING IN THE PROCESS OF WELDING
280	PRASHANT KHANDLWAL	RAJIV KUMAR	DOMINANTION IN GRAPHS
281	PRATIK SRIVASTAVA	B V REDDY	APPLICATION OF MOF IN WASTEWATER PURIFICATION
282	PRATIM PATHAK	KUMAR NEERAJ SACHDEV	AN ACCOUNT OF THE RELATION BETWEEN PROFESSIONAL ETHICS AND PROFESSIONAL WORK EXPERIENCE
283	PRATUSH SINHA	B. VANI	BIODEGRADATION OF PLASTICS
284	PREET SINGH KHALSA	JYOTI	STUDY OF INDUSTRIES PENETRABLE THROUGH BLOCKI CHAIN TECHNOLOGY FROM A START-UPS PERSPECTIVE
285	PRIYANKA VERMA	NAVNEET GOYAL	NOWCASTING AND ITS APPLICATION IN ECONOMICS
286	PRIYANSH GATTANI	M.S.DASGUPTA	ASSESSMENT OF RAMS FOR ROLLING STOCK.
287	PULKIT AGARWAL	SUSHILA SHEKHAWAT	TO STUDY THE PRE-PRODUCTION, PRODUCTION AND THE POST PRODUCTION PROCESS OF DOCUMENTRY FILM MAKING
288	PULKIT SHARMA	AJAYA KR. PANI	STUDY AND APPLICATION OF VARIABLE SELECTION TECHNIQUES
289	PUNEET ANAND	DHIRAJ SANGWAN (CEERI)	SOFT SEMANTIC SEGMENTATION
290	PURU POURUSH	ARUN KUMAR	E-LEARNING AND STUDENT MOTIVATION: A RESEARCH STUDY ON THE EFFECT OF E-LEARNING ON PRIMARY EDUCATION
291	PURUSHARTH SONI	SUREKHA BHANOT	ABSTRACTIVE TEXT SUMMARIZATION USING LSTM
292	PUSHKAR GUPTA	KOTA SOLOMON RAJU (CEERI)	IMPLEMENTATION OF APPLICATION LAYER PROTOCOLS FOR IOT APPLICATIONS
293	R NIRANJAN	MEETHA V SHENOY	IMAGE FUSION FOR ROBOTIC APPLICATIONS
294	RAGHAV SETH	HARI OM BANSAL	DESIGN & DEVELOPMENT OF VEHICLE TO GRID (V2G) TECHNOLOGY (2018SS0703)
295	RAHUL BOTHRA	PRAMOD KUMAR TANWAR (CEERI)	HUMAN OPTICAL ILLUSION GENERATION AND ITS DETECTION BY IMAGE RECOGNITION SYSTEMS
296	RAHUL DUA	SURESH KUMAR	STUDY OF OBSERVATIONAL CONSTRAINTS ON SCALAR FIELD COSMOLOGICAL MODELS

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297	RAHUL GUPTA	SUMEET SAURAV (CEERI)	HUMAN ACTION RECOGNITION USING DEEP LEARNING
298	RAHUL KHANDELWAL	A K SAINI (CEERI)	CLUSTERING OF ENVIRONMENTAL SENSORY DATA
299	RAHUL MOTIYANI	ANIL BHATT	FEASIBILITY AND VIABILITY ANALYSIS OF INSURANCE OF HEALTH POLICIES FLOATED BY THE GOVERNMENT OF INDIA
300	RAHUL.T	M.S.DASGUPTA	APPLICATIONS OF MCDA METHODS IN LEAN MANUFACTURING.
301	RAIHAN MOHAMMED RIAZ	RAJAN PANDEY	EFFECTIVENESS OF HEDGING STRATEGIES ADOPTED BY INDIAN COMPANIES
302	RAJAT JAIN	RAVI SAINI (CEERI)	RENDERING OF EMOTIONS EXPRESSION USING DEEP LEARNING
303	RAKESH SINGH SHEKHAWAT	GAJENDRA SINGH CHAUHAN	JOURNEY OF INDIAN ADVERTISING: FROM POST-INDEPENDENCE TO CURRENT ERA
304	RAKSHIT GULATI	M.S.DASGUPTA	MODELING AND SIMULATION OF CENTRIFUGAL PUMPS FABRICATED FROM COMPOSITE MATERIALS, USING FLOWN ON SOFTWARE AND DOING UR ANALYSIS
305	RAKSHIT NANWANI	PRAVEEN KUMAR AV	COMPUTATION OF RADIATION PATTERN OF LOW PROFILE ANTENNAS
306	RAM JASHNANI	K. HARI BABU	COLLECTION OF NETWORK STATISTICS IN REAL TIME IN HYBRID SDN AND SDN
307	RANADE SHUBHANKAR PRASAD	VIRENDRA SINGH SHEKHAWAT	APPLICATION DESIGN USING WI-FI DIRECT BASED AD-HOC NETWORK
308	RANJAN TRIPATHI	S . B. SINGH	BIONEUTRALIZATION OF ALKALINE RED MUD
309	RASHMI LATHI	DHIRAJ SANGWAN (CEERI)	THREAT OBJECT DETECTION IN X-RAY BAGGAGE SCANNING USING DEEP LEARNING TECHNIQUES
310	RAUNAQ ARORA	DEVIKA	SEPARATING ART FROM THE ARTIST
311	RAUNAQ JIANDANI	B V REDDY	APPLICATION OF MOF IN WASTEWATER PURIFICATION
312	RISHABH JAIN	DHIRAJ SANGWAN (CEERI)	REGION SEGMENTATION AND DAMAGE IDENTIFICATION IN HERITAGE STRUCTURES
313	RISHABH JAIN	GAURAV PUROHIT(CEERI)	DESIGN OF WEB CRAWLER AND STUDY OF GNU RADIO BASED ON PYTHON OOB MODULE
314	RITABAN ROY	RAJEEV SAKHUJA	ADVANCEMENT IN NATIVE PEPTIDE LIGATION VIA LIGATION DESULFURIZATION TECHNIQUE.
315	RITIK JAIN	NILADRI SARKAR	APPLICATION OF NEGF METHODS ON NANOSCALE DEVICES(NANO MOSFETS)
316	RIYA GUPTA	PRIYA C SANDE	REVIEW OF PIV ON MULTI PHASE FLOW SYSTEMS
317	ROHAN AGARWAL	SHILPI GARG	WHEATGRASS AND ITS IMPACT ON HUMAN HEALTH
318	ROHIT GAUR	NEETU YADAV	STUDY OF SUSTAINABILITY REPORTING PRACTICES OF TOP 50 COMPANIES
319	ROHIT MILIND RAJHANS	YASHVARDHAN SHARMA	BITS WEBSITE DESIGN AND DEVELOPMENT
320	ROHIT SOHNI	SAMARTH SINGH (CEERI)	PATH PLANNING IN UNMANNED AERIAL VEHICLES
321	ROSHAN ROY	JENNIFER RANJANI J	ORGAN SEGMENTATION AND LABELLING IN MRI IMAGES
322	RUMANDEEP SINGH	NISHANT ROY	SEISMIC TRAGILY CURVES FOR GEOTECHNICAL STRUCTURES
323	RUSHIKESH ZAWAR	MANOJ KANNAN	APPLICATION OF MACHINE LEARNING & AI IN BIOLOGY
324	S KAUSHIK SRINIVASAN	MADHUKAR MISHRA	QUANTIZATION OF FIELDS
325	SAAKSHI DIKSHIT	J. N. BANDYOPADHYAY	QUANTUM OPTICAL COMMUNICATION
326	SADRISHYA AGARWAL	GAURAV DWIVEDI	INTRODUCTION TO DISTRIBUTION THEORY AND SOBOLEV SPACES
327	SAGAR SRIVASTAVA	SATYAM SRIVASTAVA (CEERI)	EXPLORATION OF DIFFERENT DATA FUSION ARCHITECTURES FOR NON-CONTACT SENSING TECHNIQUES

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328	SAGAR VERMA	TANU SHUKLA	CREATIVE PERFORMANCE IN EDUCATION
329	SAHIL DUBEY	KAMLESH TIWARI	HI! IAM RAM
330	SAHIL MEHRA	KK GUPTA	FINGERPRINT INDEXING
331	SAHIL RANADIVE	AMIT DUA	EFFICIENT TASK MIGRATION USING DOCKERS
332	SAJJA HARI KESAV	M.S.DASGUPTA	CRITICAL REVIEW OF RAPID TOOLING METHOD AVAILABLE FOR EDM ELECTRODE MANUFACTURING.
333	SAKSHAM GUPTA	J. L. RAHEJA (CEERI)	DRIVERLESS CAR
334	SAMAN SINGH	PRAMOD KUMAR TANWAR (CEERI)	HUMAN OPTICAL ILLUSION GENERATION AND ITS DETECTION BY IMAGE RECOGNITION SYSTEMS
335	SAMANE NAGESH SANJAY	ARNAB HAZRA	STUDY ON GRAPHENE COMPOSITE FIELD EFFECT TRANSISTORS FOR GAS SENSING APPLICATION
336	SAMARTH GUPTA	TANU SHUKLA	EDUCATION PSYCHOLOGY METHOD
337	SAMRIDHI	NIRAJ KUMAR (CEERI)	STUDY OF PLASMA PARAMETER INSIDE THE INTERACTION STRUCTURE OF THZ SOURCE
338	SANCHIT MAHESHWARI	ASHISH PATEL	DESIGN AND SIMULATION OF FUZZY LOGIC BASED CONTROLLER FOR POWER CONVERTERS
339	SANCHIT SHRIVASTAVA	YASHVARDHAN SHARMA	PLATFORM FOR MONITORING AND FACILITATING COLLABORATIVE SOFTWARE DEVELOPMENT IN ACADEMIC ENVIRONMENT
340	SANGAM	ANIL RAI	FOLK MUSICAL FORMS OF RAJASTHAN
341	SANIA DASOT	V S NIRBAN	A STUDY ON THE EFFECTS OF PROLONGED INTERNET USAGE ON MENTAL HEALTH AND GENERAL WELL-BEING, FOCUSING ON ONLINE SOCIAL MEDIA PLATFORMS AND RELATED VARIANTS
342	SANIDHYA SHARMA	M.S.DASGUPTA	COMESTIBLE FLOW OF CO ₂ THROUGH AN EJECTOR USING ANSYS FLUORIC/CFX
343	SANJANA JAIN	AK VAISH	EQUITY ANALYSIS OF AUTOMOBILE INDUSTRY
344	SANKET JAIN	RAVIKANT MITTAL	EARTHQUAKE RESISTANT DESIGN OF DEEP FOUNDATIONS
345	SANKISH SANJAY WAIRAGADE	M.S.DASGUPTA	ASSESSMENT OF RAMS FOR ROLLING STOCK.
346	SANSKRITI SHARMA	SOMSUKLA MAITI (CEERI)	DETECTING DRIVER FATIGUE THROUGH EEG SIGNALS
347	SANYA VOHRA	R. MAHESH	BIO-CHEMICAL/CELLULAR PATHWAYS AND THEIR INVOLVEMENT IN THE EXPRESSION OF NEURODEGENERATIVE DISEASE AND THEIR RELATION TO SEROTONIN MODULATION
348	SAPTARSHI BHATTACHARJEE	ASHUTOSH BHATIA	EXPLOITING MULTIPLE PATHS IN MULTI-HOP CO-OPERATIVE AD-HOC NETWORKS FOR PROVIDING SECURITY WITHOUT TRUSTED THIRD PARTY
349	SARGUN	KAMLESH TIWARI	HI! IAM RAM
350	SATYAM MALHOTRA	M.S.DASGUPTA	HEAT TRANSFER SIMULATION AND ANALYTICAL SOLUTION TO PREDICT MELTING AND SOLIDIFICATION BEHAVIOR OF HIGH TEMPERATURE EUTECTIC ALLOYS
351	SATYAM PALIWAL	ANIRUDDHA ROY	NANOPARTICLES MEDIATED VACCINE DELIVERY AND ANALYSIS OF EFFICACY
352	SAUHARD AGGARWAL	DEVESH SAMAIYA	DESIGN OF DISPLAY CONTROLLER FOR LED MATRIX PANEL
353	SAUMITRA KAPOOR	RAJEEV TALIYAN	SOFTWARE AND HARDWARE DESIGN FOR EFFICIENT DETERMINATION OF AMYLOID B AND TAM IN SALIVA AND URINE FOR EARLY DIAGNOSIS OF ALZHEIMER DISEASE
354	SAURABH GUPTA	J. L. RAHEJA (CEERI)	REAL TIME OBJECT DETECTION WITH DEEP LEARNING.
355	SAURABH JAIN	M.S.DASGUPTA	DEVELOPMENT OF RCM MODEL FOR ROLLING STOCK
356	SAURABH VERMA	ARVIND KR. SHARMA	THERMODYNAMIC ANALYSIS OF BIO-PROCESSES
357	SHANMUKH SRIPADA	SHARAD	MESH LESS EFG SIMULATION OF LINEAR ELASTIC

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		SHRIVASTAVA	FRACTURE PROPAGATION UNDER VARIOUS LOADINGS.
358	SHANTANU JAISWAL	RAVIKANT MITTAL	EARTHQUAKE RESISTANT DESIGN OF SHALLOW FOUNDATION
359	SHANTANU NIGAM	VINAY CHAMOLA	VEHICLE TO GRID (V2G) INFRASTRUCTURE AND SERVICE MANAGEMENT
360	SHANTANU TOMER	NVM RAO	CONSTRUCTING A RISK APPETITE FRAMEWORK FOR PUBLIC SECTOR BANKS
361	SHARVARI GARG	PRASHANT U MANOHAR	ROLE OF QUANTUM TUNNELING IN THE MAGNETIC BEHAVIOR OF MATERIALS.
362	SHAURYA SINGH	ANUPAM SINGH	TO STUDY MANAGEMENT OF E-WASTE IN CONTEXT OF INDIA
363	SHIVANI SONI	SANDHYA MARATHE	STUDY HOST PATHOGEN INTERACTION AT MOLECULAR LEVEL
364	SHORYA JAIN	M.S.DASGUPTA	MESHING AND CFD ANALYSIS OF FLOW THROUGH ARTERIES USING ANNOYS ICEM CFD AND FLUENT
365	SHREY SHAH	SOMSUKLA MAITI (CEERI)	TARGET DETECTION IN IMAGES USING EEG SIGNALS
366	SHREYA JOHRI	PRIYA C SANDE	REVIEW OF PARTICLE IMAGE VELOCIMETRY (PIV) INVESTIGATIONS ON MULTI-PHASE FLOW SYSTEMS
367	SHRIKUNJ SARDA	SHIBASISH CHOWDHURY	UNDERSTANDING INTERACTION, NETWORKING AND ANALYSIS OF MRNA, LNC RNA IN VARIOUS BIOLOGICAL PROCESSES
368	SHRIVAS CHATERJI	ASHIS KUMAR DAS	A STUDY OF TYPE-I HYPERSENSITIVITY WITH A FOCUS ON STRESS RELATED CAUSES AND THEIR PREVENTION
369	SHRIYA AMEY MARATHE	ANSHUMAN	EVALUATION OF PROPERTIES OF A PIECE OF CONCRETE REINFORCED WITH BAMBOO AND COB
370	SHUBHAM AGGARWAL	MEETHA V SHENOY	EXPLORATION OF MODEL BASED APPROACH FOR PROTOTYPING AND EMBEDDED SYSTEM
371	SHUBHAM BHATT	PRADIPTA C	TREATMENT OF OIL SPILLS IN WATER
372	SHUBHAM KHANDELWAL	RAJESH P MISHRA	ANALYSIS OF STARTER MOTOR
373	SHUBHAM LATHER	A K SAINI (CEERI)	DRIFT COMPENSATION AND SIGNAL PROCESSING FOR SENSORY DATA
374	SHUBHAM SHANKER	AK GIRI	FINANCIAL CRISIS: ANALYSIS, FORECASTING AND POLICY EFFECTS
375	SHUBHAM TIWARI	K. HARI BABU	DEFINING THE POLLING FREQUENCY FOR ITERATIVE RUNS IN SDN
376	SHUBHENDU KUMAR TRIPATHI	RAJDEEP CHOWDHURY	UNDERSTANDING THE CHEMICAL COMPOSITION OF METRIC IN TUMORS
377	SIDDHANT KHARBANDA	VIRENDRA SINGH SHEKHAWAT	IMPLEMENTATION OF MPLS FEATURES IN SDN
378	SIDDHARTH AGRAWAL	M.S.DASGUPTA	APPLICATIONS OF LEAN TOOLS FOR WASTE REDUCTION AND PRODUCTIVITY IMPROVEMENT IN AUTOMOBILE INDUSTRY.
379	SIDDHARTH MEHTA	KK GUPTA	COMPRESSED DOMAIN VIDEO ANALYSIS
380	SIDDHARTH SAMBARU	ANIL JINDAL	NANOPARTICLE BASED TARGETED DELIVERY OF ANTIMALARIAL DRUGS
381	SNEHA KHANDELWAL	RAJAN PANDEY	ARE INDIAN IPO'S EFFICIENTLY PRICED: EVIDENCE FROM INITIAL TRADING ACTIVITIES
382	SNEHASHISH CHOUDHARY	UMA S. DUBEY	BIOINFORMATICS ANALYSIS OF CAMEL MILK PROTEINS
383	SOHAM RANADE	B.K.ROUT	STUDY AND ANALYSIS OF QUAD COUPLER DYNAMICS AND DESIGNING A CONTROLLER FOR ACCIDENT PRECAUTION AND AUTONOMOUS FLIGHT STABILITY
384	SOMIL SHARMA	AMOL HOLKUNDKAR	STUDY OF HIGHER HARMONIC GENERATION BY LASER-PLASMA INTERACTION
385	SOORYA RETHINASAMY	ABHISHEK MISHRA	QUANTUM FINITE AUTOMATA
386	SPARSH SHARMA	SHILPI GARG	EVOLUTIONARY DIFFERENCES IN APICOPLAST GENOME INHERITANCE AMONG APICOMPLEXANS

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S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
387	SRIJAN VERMA	SUNIL KUMAR DUBEY	PHYSIOLOGICALLY BASED PHARMACOKINETICS (PBPK)MODELING AND SIMULATION STUDIES
388	SRINIVAS NAVEEN LAGHUVARAPU	PRADIPTA C	SYNTHESIS AND APPLICATIONS OF SURFACTANTS
389	SRISHTI SHARMA	SUDESHNA MUKHERJEE	ROLE OF CYTOKINES IN REGULATING AUTOPHAGY AND CANCER
390	SRUJANA N	AMIT DUA	REALTIME APPLICATION OF BLOCKCHAIN
391	SUMUKH NITUNDIL	SAINATH BITRAGUNATA	MODELLING, DESIGN AND PERFORMANCE ANALYSIS OF OPTICAL INTER SATELLITE LINK
392	SUPRATIK BHATTACHARYA	SHAMIK CHAKRABORTY	TO STUDY OLFACTION AT THE MOLECULAR LEVEL.
393	SURAJ BANSAL	S.B. SINGH	STRUCTURAL HEALTH MONITORING AND ASSESSEMENT
394	SURAJ SINGH	ASHIS KUMAR DAS	PSORIASIS: A T-CELLS MEDIATED AUTOIMMUNE DISEASE
395	SURAKSHIT SONI	M.S.DASGUPTA	DEMAND FORECASTING USING ANN FOR SELECTED PRODUCTS AT RETAIL OUTLET.
396	SURYA SUMANTH MEESALA	SHASHANK GUPTA	"EVALUATION AND MONITORING OF RECENT STATE-OF-ART RELATED TO 'BLOCKCHAIN' TECHNOLOGY"
397	SUSMITHA CHITTINENI	AK GIRI	GAME THEORY AND ITS APPLICATION IN FINANCE
398	SWARNESH JHA	AJAYA KR. PANI	STUDY AND APPLICATION OF VARIABLE SELECTION TECHNIQUES
399	TANAY AGARWAL	SUMANTA PASARI	SELECTION OF WIND ENERGY SITES: AN APPLICATION TO NEURAL NETWORKS
400	TANMAY KHANDELWAL	NITIN CHATURVEDI	STUDY OF RASPBERRY PI & ARDUIO BASED SYSTEM DESIGN FOR WATER/ ENVIRONMENT MONITORING
401	TANMAY MANOJ AGARWAL	PRABHAT N JHA	BIOFUEL
402	TANUJ KUMAR	MRINMOYEE BASU	STUDY OF MATERIALS SUITABLE FOR USE IN ELECTRONICS IN RADIATION ENVIRONMENTS.
403	TANYA SIYAG	SANGEETA SHARMA	INTERNET MARKETING
404	TARUN KUMAR	SUMEET SAURAV (CEERI)	ACTION RECOGNITION USING UNSUPERVISED LEARNING.
405	TARUN TAWAR	V.S.NIRBAN	SOCIAL MEDIA CONTENT ANALYSIS TO UNDERSTAND USER BEHAVIOUR IN A VIRTUAL CULTURAL COMMUNITY
406	TATHAGAT SAXENA	ARVIND KR. SHARMA	THERMODYNAMIC ANALYSIS OF BIOPROCESSES
407	TRANJOT SINGH	AK VAISH	PROJECT FINANCING: A CASE OF RENEWABLE ENERGY SECTOR IN INDIA
408	TRIVENDRA SINGH	RAJNEESH CHOUBISA	INATTENTIONAL BLINDNESS: AN EXPERIMENTAL ANYALIS
409	TRIVIKRAM CHOUDHARY	SUMANTA PASARI	A COMPARISON BETWEEN NOWCASTING AND FORECASTING OF EARTHQUAKES
410	TULIKA GANGULY	MANJULADEVI .V	GHOST IMAGING
411	UDAY GUPTA	J. L. RAHEJA (CEERI)	TRACKING AND DEPTH ANALYSIS OF LUNG CANCER
412	UJJAVAL GUPTA	ANIL KUMAR	TO UNDERSTAND THE APPLICATION OF COMPUTATIONAL STUDY IN TRANSITION METALS ASSISTED C-H BOND FICTIONALIZATION.
413	UJJWAL PANDA	SHAMIK CHAKRABORTY	UNDERSTANDING THE INTERACTION OF COSMIC RAYS WITH MOLECULES IN PLANETARY ATMOSPHERES.
414	UMANG SIMONIHA	M.S.DASGUPTA	VSM OF WASTE GENERATED FROM SPECKLING PROCESS
415	UTKARSH AGARWAL	SAUMI RAY	SPECTROSCOPY IN CHEMISTRY: THEORY, TECHNIQUES AND ANALYSIS.
416	UTKARSH AGARWAL	SUMEET SAURAV (CEERI)	ACTION RECOGNITION USING UNSUPERVISED LEARNING
417	UTKARSH AGRAWAL	ARUN KUMAR	STATISTICAL ANALYSIS OF TEACHING EFFECTIVENESS IN BITS PILANI USING

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			REGRESSION ANALYSIS
418	UTKARSH AGRAWAL	PRAMOD KUMAR TANWAR (CEERI)	AUGUMENTED REALITY FOR AUTOMATION OF INDUSTRIAL TRAINING PURPOSE
419	UTKARSH AWASTHI	RAJDEEP CHOWDHURY	CANCER DRUG RESISTANCE AND AUTOPHAGY
420	UTKARSH DIXIT	PRABHAT N JHA	BACTERIAL SYNTHESIS OF BIOPLASTICS AND RESEARCH UPDATES
421	UTSAV AJAY	DIPENDU BHUNIA	STUDY ON THE BEHAVIOUR OF SRUCTURES USING VARIOUS TYPES OF DAMPERS
422	VAIBHAV MATHUR	HARSHAVARDHAN S	TO STUDY ALGORITHMS BASED ON DETECTION OF STEADY- STATE VISUALLY EVOKED POTENTIALS BASED ON TEMPLATE MATCHING APPROACH.
423	VAIBHAV RAJ	AK VAISH	PROJECT FINANCING: A CASE OF RENEWABLE ENERGY SECTOR IN INDIA
424	VAIBHAVI RASTOGI	MADHUKAR MISHRA	QUARKONIUM DISSOUATION TEMPERATURE USING SCHRADINGER WAVE EQUATION
425	VALAY CHHEDA	B V REDDY	APPLICATION OF MOF IN WASTEWATER PURIFICATION
426	VANSHIKA SINGH	AK GIRI	IMPACT EVALUATION OF MICROFINANCE AND SHG'S IN INDIA
427	VANSHIKA SINGH	HARI OM BANSAL	DESIGN OF ENERGY OPTIMIZATION STRATEGIES FOR PLUG-IN HYBRID ELECTRIC VEHICLES
428	VARSHA SINGHANIA	NITIN CHATURVEDI	STUDY AND ANALYSIS ON THE POTENTIALS OF FIN FETS FOR MEMORY DESIGN
429	VARUN GORADIA	SUREKHA BHANOT	SMART PHONE BASED GUIDING APP FOR VISUALLY IMPAIRED PEOPLE
430	VEDANT PATWARY	A K SAINI (CEERI)	CLUSTERING OF ENVIRONMENTAL SENSORY DATA
431	VELURI DAI MANESH	MUKUND LAHOTI	DEVELOPMENT OF SELF HEALING GEOOLYMER
432	VENKAT SIDDARTHA REDDY NALLA	ASHUTOSH BHATIA	INFORMATION GATHERING OF ENCRYPTED DATA FROM MOBILE APPLICATIONS
433	VIBHAV OSWAL	DHIRAJ SANGWAN (CEERI)	REGION SEGMENTATION & DAMAGE IDENTIFICATION IN HERITAGE STRUCTURES
434	VIBHOR SHARMA	TRILOK MATHUR	THE STUDY OF FRACTAL GEOMETRY AND ITS APPLICATION IN FINANCE
435	VIDHAN JOLLY	ANU GUPTA	DESIGN OF LOW VOLTAGE LOW POWER SELF BIASED CMOS REFERENCE USING SELF CASCODE MOSFET
436	VIDHITA AGARWAL	R. MAHESH	UNDERSTANDING ANATOMICAL CHANGES THAT IMPLICATE PRECIPITATION OF VARIOUS NEURODEGENERATIVE DISORDERS MUCH EARLIER
437	VIDIT JHA	V.K. CHAUBEY	DESIGN AND DEVELOPMENT OF EDFAS
438	VIGNESH NAGARAJAN	ANU GUPTA	A NOVEL CMOS OPERATIONAL TRANS - CONDUCTANCE AMPLIFIER BASED ON MOBILITY COMPENSATION TECHNIQUE
439	VIGYNESH BHATT	AK GIRI	EMPIRICAL EVALUATION OF MERGERS AND ACQUISITIONS IN INDIAN CONTEXT
440	VIJAYENDRA SHENDE	PAWAN K AJMERA	BIOMETRIC RECOGNITION USING CNN
441	VIKRAMJIT SINGH	SUMEET SAURAV (CEERI)	HUMAN MOVEMENT RECOGNITION
442	VINAY	MUKUND LAHOTI	DEVELOPING GEOPOLYMER AS AN INNOVATIVE MATERIAL FOR CEMENT AND CONCRETE APPLICATION
443	VINAYAK AGGARWAL	GAJENDRA SINGH CHAUHAN	RESEARCH ON CHATBOX MARKETING
444	VIRAL PATANGIYA	KAMALESH KUMAR	GEOENVIRONMENTALPRACTICS AND SUSTAINABILITY
445	VISHAKHA	RAJAN PANDEY	A STUDY OF THE EFFICIENCY OF THE INDIAN STOCK MARKETS USING FINANCIAL DERIVATIVES
446	VISHAL SINGH DEOLEYA	RAKHEE	BAYESAN INFERENCE: APPLICATIONS TO NETWORKS
447	VISHAL VERMA	DIPENDU BHUNIA	RECENT DEVELOPMENT IN THE EARTHQUAKE

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			ENGINEERING FIELD IN TH STRUCTUAL ENGINEERING AREA
448	VISHESH GARG	SUMEET SAURAV (CEERI)	HUMAN ACTION RECOGNITION USING DEEP LEARNING
449	VRATIKA JAIN	ANU GUPTA	A NOVEL CMOS OPERATIONAL TRANS - CONDUCTANCE AMPLIFIER BASED ON MOBILITY COMPENSATION TECHNIQUE
450	Y NITHEESH	ANIL JINDAL	NANOPARTICLE BASED TARGETED DELIVERY OF ANTITRYPANOSOMAL DRUGS
451	YASH AKHAURI	SUREKHA BHANOT	SUM FACTORIZATION APPROXIMATIONS FOR QUANTIZED NEURAL NETWORKS
452	UTSAV AKHAURY	PRAVEEN KUMAR A.V.	COMPUTATIONAL ELECTROMAGNETICS (CODING AND CODE CONVERSION)
453	ANMOL GUPTA	RICHA SHRIVASTAVA	NOVEL STRATEGIES FOR TARGETING CHEMOTHERAPEUTIC RESISTANCE IN BREAST CANCER
454	YATHARTH SREEDHARAN	CHANDRA SHEKHAR (EEE)	HANDLING EXTERNAL INTERRUPTS THROUGH UNIVERSAL INPUT/OUTPUT(UIO) DRIVERS
455	VISHNU NARAYANAN	BIJOY KRISHNA MUKHERJEE	NONLINEAR CONTROL FOR AUTONOMOUS MANEUVERING OF FIGHTER AIRCRAFT
456	M HARI HARA NITHIN REDDY	RICHA SHRIVASTAVA	REDOX SIGNALING IN BREAST CANCER
457	YASH GOSWAMI	MADHUKAR MISHRA	STUDIES ON INTRODUCTORY CONCEPTS OF GENERAL THEORY OF RELATIVITY
458	PRADHIT ONGOLE	PAWAN KAMALKISHOR AJMERA	BIOMETRIC SYSTEM: IRIS RECOGNITION
459	SHUBHAM SINGH	MADHUKAR MISHRA	QUARK-GLUON PLASMA
460	ARPAN BUMB	SANGEETA SHARMA	CREATIVITY IN ADVERTISEMENT: IMPACT ON CUSTOMERS
461	DEBABRATA CHAUDHURY	CHANDRA SHEKHAR (EEE)	COMPUTER ARCHITECTURE
462	ADITYA RUSTAGI	VINAY CHAMOLA	MACHINE LEARNING IN INDUSTRIAL APPLICATIONS
463	VISHNU C VENKATESH	PANKAJ ARORA	DESIGN OF PERIODIC NANOSTRUCTURES FOR OPTICAL SENSOR
464	BHAGYAM GUPTA	ARNAB HAZRA	STUDY ON GRAPHENE FIELD EFFECT TRANSISTORS FOR GAS-SENSING APPLICATION
465	AMOD GUPTA	RAJIV GUPTA	DEVELOPING LOW COST WATER FILTER MACHINE.
466	HARI RAGHAVENDRAN B	P SRINIVASAN	DESIGN AND OPERATIONS OF BOILER.
467	ASHER NIRAV YOGESH	ANIL JINDAL	NANOPARTICLE BASED TARGETED DELIVERY OF ANTIMALARIAL DRUGS
468	KUMAR SHIVAM	MADHUKAR MISHRA	STUDIES IN PHASE TRANSITION IN QCD MATTER
469	SAKSHI GUPTA	ANIL JINDAL	METHODS OF MONITORING OF CELLULAR UPTAKE OF NANO-PARTICLES
470	KAUSTUV BANERJEE	V S SHEKHAWAT	CONGESTION AWARE DATA FORWARDING AND ROUTING IN DELAY TOLERANT NETWORKS
471	SUBHAM KUMAR DASH	ASHUTOSH BHATIA	CLASSIFYING ENCRYPTED NETWORK TRAFFIC OF MOBILE DEVICES
472	RITIK KANDORIA	ASHUTOSH BHATIA	CLASSIFYING ENCRYPTED NETWORK TRAFFIC OF MOBILE DEVICES
473	APOORAV DHINGRA	RAKHEE	SUSTAINABLE SUPPLY CHAIN
474	SHRAJATI TANDON	KULDIP SINGH SANGWAN	IMPLEMENTATION OF CYBER PHYSICAL PRODUCTION SYSTEM IN MANUFACTURING FOR ENERGY EFFICIENT MANUFACTURING
475	GARVIT TANEJA	PAWAN KAMALKISHOR AJMERA	VOICE TRANSFORMATION
476	ISHAAN TIWARI	SYED MOHAMMAD ZAFARUDDIN	DEVELOPMENT OF DEEP LEARNING ALGORITHMS FOR MASSIVE MIMO WIRELESS CHANNELS
477	SWASTIK MOHANTY	DEVIKA	THE ANALYSIS OF COMMON CHARACTER ARCHETYPES FOCUSING MAJORLY ON THE HERO

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
			AND THE VILLAIN
478	SATVIK GOLECHHA	DEVIKA	ON THE MERITS OF PROSE - WHAT MAKES A GOOD NARRATIVE IN LITERATURE
479	DHIVAM PAWAR	PRIYANSH SINGH	PRINCIPAL COMPONENT ANALYSIS
480	ARYAMICK SINGH	KAVINDRA KANDPAL	THRESHOLD VOLTAGE INSENSITIVE PIXEL DRIVER CIRCUIT.
481	ISHANI RAJPUT	ASHISH PATEL	DESIGN AND SIMULATION OF FUZZY LOGIC BASED CONTROLLER FOR POWER CONVERTERS
482	SAKSHI PALIWAL	ASHISH PATEL	DESIGN AND SIMULATION OF FUZZY LOGIC BASED CONTROLLER FOR POWER CONVERTERS
483	PARTH GOVIL	PUNEET MISHRA	DESIGN OF BIO-MIMICRY BASED GLOBAL OPTIMIZATION ALGORITHMS
484	SIMRAN SEHGAL	PAWAN KAMALKISHOR AJMERA	TO CLASSIFY THE EMOTIONAL CAPABILITY OF A GIVEN PAIR OF SPEECH AND VIDEO SIGNAL AND CATEGORIZE IT IN THE EMOTION SPECTRUM.
485	PRERNA BARANWAL	DEVENDRA KUMAR	APPLICATION OF HAAR WAVELET METHODS FOR SOLVING PARTIAL DIFFERENTIAL EQUATIONS USING MATLAB.
486	ANKITA CHAKRAVARTY	V MANJULADEVI	QUANTUM IMAGING
487	KOPARKAR SHRIDEEP PRASHANT	PANKAJ ARORA	DEVELOPMENT OF PEROVSKITE BASED SOLAR CELLS
488	DESHMUKH ONKAR GOVIND	PAWAN KAMALKISHOR AJMERA	STUDY OF BIOMETRIC SYSTEM: FINGERPRINT RECOGNITION
489	DHRUV MODI	DEVESH SAMAIYA	DESIGN OF DISPLAY CONTROLLER FOR LED MATRIX PANELS
490	G SUNDAR	AMOL M MARATHE	MODAL ANALYSIS AND CLASSIFICATION OF MODES OF VIBRATION OF A NANOSATELLITE STRUCTURE
491	PURVA JAIN	BIJOY KRISHNA MUKHERJEE	NONLINEAR CONTROL FOR AUTONOMOUS MANEUVERING OF FIGHTER AIRCRAFT
492	SHANTANU TOMER	PUNEET MISHRA	TO STUDY,IMPLEMENT AND IMPROVE PERFORMANCE OF BIO MIMICRY ALGORITHMS
493	DESAI MOHIL SANDIP	KAVINDRA KANDPAL	COMPACT MODELLING OF OXIDE THIN FILM TRANSISTOR FOR DISPLAY APPLICATIONS
494	ATEEKSHA MITTAL	ANKUSH CHANDRAKANT JAHAGIRDAR	ON MODEL PREDICTIVE CONTROLLER (MPC) TUNING
495	ANUSHA KUMAR	PUNEET MISHRA	I-P CONTROLLER : DESIGN AND APPLICATIONS
496	ABHINAV RAMACHANDRAN	AVINASH GAUTAM	STUDY AND IMPLEMENTATION OF MOTION PLANNING ALGORITHMS FOR NAVIGATION OF A MOBILE ROBOT IN A DYNAMIC INDOOR ENVIRONMENT.
497	ADITYA VASUDEVAN	AVINASH GAUTAM	STUDY AND IMPLEMENTATION OF MOTION PLANNING ALGORITHMS FOR NAVIGATION OF A MOBILE ROBOT IN A DYNAMIC INDOOR ENVIRONMENT
498	BHAVYA PANDEY	KAVINDRA KANDPAL	COMPACT MODELLING OF OXIDE TFT FOR DISPLAY APPLICATIONS PART 2
499	MAYANK SINGH	SYED MOHAMMAD ZAFARUDDIN	DEEP REINFORCEMENT LEARNING FOR HIGH SPEED V2V COMMUNICATIONS
500	PRAJJWAL BAGGA	SYED MOHAMMAD ZAFARUDDIN	SIGNAL PROCESSING TECHNIQUES FOR HIGH SPEED V2V COMMUNICATION
501	SAKSHAM CHHABRA	PRAVEEN KUMAR A.V.	COMPUTATIONAL ELECTROMAGNETICS (CODING AND CODE CONVERSION)
502	VAIBHAV KAUSHIK	V K CHAUBEY	DATA TRANSMISSION USING IOT IN MACHINE TO MACHINE COMMUNICATION NETWORKS
503	NISHANK MALIK	KULDIP SINGH SANGWAN	PRODUCTION PLANNING USING GENETIC ALGORITHMS
504	AKSHAY BHATNAGAR	RICHA SHRIVASTAVA	RESENSITIZATION OF RESISTANT CANCER CELLS VIA EPIGENETIC APPROACH.
505	UTKARSH GUPTA	ANKUSH	MODEL PREDICTIVE CONTROLLER (MPC) TUNING

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S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
		CHANDRAKANT JAHAGIRDAR	
506	AGASTYA SAMPATH	PAWAN KAMALKISHOR AJMERA	STUDY OF BIOMETRIC SYSTEM : FACE RECOGNITION
507	MALDE CHINTAN KIRIT	AMOL M MARATHE	MODAL ANALYSIS AND CLASSIFICATION OF MODES OF VIBRATION OF A NANOSATELLITE STRUCTURE
508	DISHA SINGLA	ASHISH PATEL	ADVANCED AI BASED CONTROLLERS FOR POWER CONVERTERS.
509	KARTIK WARDHAN	SYED MOHAMMAD ZAFARUDDIN	ENERGY EFFICIENCY OF MIMO OPTICAL WIRELESS COMMUNICATIONS UNDER ATMOSPHERIC TURBULENCE
510	NISHCHAY GOYAL	RAVI KANT MITTAL	ECONOMICAL DESIGN OF FOUNDATIONS
511	MANIT BASER	DEVESH SAMAIYA	BACKGROUND SEGMENTATION TECHNIQUES IN H.265/ HEVC COMPRESSED VIDEOS.
512	AVISH KHOSLA	RAJNEESH KUMAR	DEVELOPMENT OF INTELLECTUAL ENERGY CONCEPT FOR AI TRAINING
513	GAURAV SHARMA	TAPOMOY GUHA SARKAR	COSMOLOGICAL STRUCTURE FORMATION
514	GUPTA ANSH NITIN	RAJNEESH KUMAR	DEVELOPMENT OF INTELLECTUAL ENERGY CONCEPT FOR AI TRAINING - 2019FS1201
515	SHYAMAL SHARMA	DIPENDU BHUNIA	EARTHQUAKE RESISTANT DESIGN OF STRUCTURES
516	NITIN	TAPOMOY GUHA SARKAR	CONSTRAINING DARK ENERGY USING MATTER POWER SPECTRUM
517	SAURAV SHENOY P	ANEESH A M	FLUID INTERFACE CAPTURING USING LEVEL SET METHODS
518	RUSHABHA B	ANU GUPTA	ANALOG SYSTEM DESIGN: STUDY AND ANALYSIS OF VOLTAGE REGULATORS
519	PRANAV DINESH KUMAR	ANEESH A M	FLUID INTERFACE CAPTURING USING LEVEL SET METHODS
520	ADITI MANDLOI	NAVNEET GOYAL	FILTERING ACADEMIC CONTENT BASED ON USER PREFERENCE
521	ROHAN DUDEJA	RAJESH KUMAR	FIXED PIVOT METHOD FOR POPULATION BALANCE EQUATIONS
522	VISHESH GARG	RAJESH KUMAR	FIXED PIVOT METHOD FOR POPULATION BALANCE EQUATIONS
523	HARSHVARDHAN AGRAWAL	RAKHEE	SIMULATING A SCREENING NETWORK USING GAME THEORY AND QUEUING THEORY
524	SURAJ KUMAR	RUPAM GOSWAMI	MODELING OF MOS STRUCTURES
525	NANDU KEVAL DEEPAK	MAHESH ANGIRA	STUDY OF LNA FOR LOW NOISE
526	ANIKET AVINASH GAIKWAD	MAHESH ANGIRA	STUDY OF LNA FOR HIGH LINEARITY
527	MASHRU LUVE SHAIKESH	PARITOSH SHUKLA	ANTI-ALZHEIMER DRUGS DOCKING
528	RAHUL SUNDARESHWARAN	PANKAJ ARORA	PAPER BASED MICROFLUIDIC DEVICES
529	ADITYA UPADHYAY	AVINASH GAUTAM	USING VISUAL FEEDBACK FOR REAL-TIME OBJECT TRACKING AND CONTROL OF A ROBOT HEAD.
530	KISHORE SUNDARA MOORTHY	RUPAM GOSWAMI	TFET ARCHITECTURE FOR ENHANCED PERFORMANCE IN LOW POWER APPLICATION
531	DHRUV PATEL	RAJIV KUMAR	GRAPH CLUSTERING USING LOW RANK APPROXIMATIONS AND SOCIAL NETWORK ANALYSIS
532	PRAKHAR AGRAWAL	ASHISH TIWARI	SOLUTE DISPERSION IN BLOOD FLOW
533	SUMEDHA KOUL	NISHANT ROY	ANALYSIS OF STRUCTURAL COMPONENT FOR CUT AND COVER TUNNELS
534	MOHIT KUMAR JANGIR	ARUN KUMAR GIRI	FIAT CURRENCY
535	MEDHA BHAT	ANIRUDDHA ROY	ROLE OF TUMOUR MICROENVIRONMENT FOR TUMOUR SURVIVAL AND PROGRESSION: SPECIAL EMPHASIS ON FIBROBLAST-TUMOUR INTERACTION.

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S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
536	SHREYA MAHESHWARI	ANIRUDDHA ROY	ROLE OF TUMOR MICROENVIRONMENT FOR TUMOR SURVIVAL AND PROGRESSION- SPECIAL EMPHASIS ON MACROPHAGE-TUMOR INTERACTION.
537	ARUSHI CHOUDHARY	PARITOSH SHUKLA	NICKEL CATALYSED CYCLIZATION REACTION
538	MILONI MITTAL	DEVESH SAMAIYA	FOREGROUND SEGMENTATION TECHNIQUES IN H.265/ HEVC COMPRESSED VIDEOS
539	AYUSH VACHASPATI	ARUN KUMAR VAISH	CREDIT DEFAULT RISK ASSESSMENT FOR PEOPLE WITHOUT CREDIT HISTORIES.
540	SAUMITRA VATSAL PANDEY	ARUN KUMAR GIRI	DEVELOPMENT MODEL FOR INDIA THROUGH HISTORICAL INTROSPECTION AND INVESTIGATION - DEVELOPMENT ECONOMICS
541	PRATIXAN SARMAH	BISWANATH LAYEK	THEORETICAL STUDIES ON NEUTRON STAR.
542	SHIKHAR SINGH	DHEERENDRA SINGH	STUDY OF GRAPHENE BASED NANO-BIOSENSOR FOR PATHOGEN DETECTION
543	ANIKET AGNIHOTRI	DHEERENDRA SINGH	STUDY OF MOSFET BASED NANO-BIOSENSOR FOR PATHOGEN DETECTION.
544	TEJAS NIMISH SHAH	ASHISH PATEL	ADVANCED AI-BASED CONTROLLERS FOR POWER CONVERTERS
545	RITHIK DILIP RATHI	RUPAM GOSWAMI	MATHEMETICAL MODELLING AND STUDIES OF ORGANIC MEMRISTORS
546	NEELABH SINHA	RAJ KUMAR GUPTA	ANALYSIS OF SURFACE PLASMON RESONANCE USING FINITE-DIFFERENCE TIME-DOMAIN TECHNIQUE
547	SHAH PRATULYA BIMAL	PRABHAT NATH JHA	APPLICATIONS OF SYNTHETIC BIOLOGY IN AGRICULTURE AND DIAGNOSTICS
548	ABHISHEK S B	KARRI BABU RAVI TEJA	FPGA IMPLEMENTATION OF RNS BASED DSP SYSTEMS
549	RAJEBHOSALE OMKAR VEERSINGH	V K CHAUBEY	PLASMONIC DEVICES FOR COMMUNICATION
550	LIKITHA MADALA	KUMAR NEERAJ SACHDEV	A STUDY OF THE ROLE OF ETHICAL VALUES IN THE INDIAN EDUCATION SYSTEM
551	AKSHIKA GOEL	RAJ KUMAR GUPTA	ANALYSIS OF SURFACE PLASMON RESONANCE USING FINITE-DIFFERENCE TIME-DOMAIN TECHNIQUE
552	SIDDHANT DWIVEDI	N V MURALIDHAR RAO	AN EXPLANATORY STUDY ON REGIONAL RURAL DEVELOPMENT POLICIES FOR THE STATE OF RAJASTHAN.
553	HARSHIT SHRIVASTAVA	DIPENDU BHUNIA	INVESTIGATION OF DURABILITY OF RC STRUCTURES USING SUPPLEMENTARY CEMENTITIOUS MATERIALS (SCMS).
554	V ARAVINDAN	RAJIV KUMAR	STUDY OF MATRICES, NUMERICAL LINEAR ALGEBRA AND GRAPH THEORY
555	ABHINAW KUMAR	DIPENDU BHUNIA	INVESTIGATION OF DURABILITY OF RC STRUCTURES WITH DIFFERENT SUPPLEMENTARY CEMENTITIOUS MATERIALS.
556	VISHVADITYA	MUKUND LAHOTI	GEO-POLYMER STRAIN HARDENING COMPOSITES.
557	VINAY VEERASANGAPPA KANAKERI	NAVNEET GUPTA	STUDYING THE ELECTRONIC BEHAVIOR OF ORGANIC THIN FILM TRANSISTOR.
558	SHAH RAJ SANJAY	ASHUTOSH BHATIA	DATA ANALYSIS BY GRAPHING BITCOIN TRANSACTIONS AND IDENTIFYING PARTICULAR ANOMALIES.
559	SHANKARA NARAYANAN V	BIJAY KUMAR ROUT	AUTONOMOUS DRIVING
560	LAKSH SINGLA	ASHUTOSH BHATIA	IMPLEMENTING AND RUNNING MICROSERVICES OVER RASPBERRY PI
561	DARSHAN AGRAWAL	J. JENNIFER RANJANI	ULTRASOUND SPECKLE REMOVAL USING DEEP LEARNING
562	ANSHUMAN SRIVASTAVA	NAVNEET GUPTA	MODELING AND SIMULATION OF METAMATERIAL BASED ANTENNAS.
563	AMISHA KOTHARI	ANU GUPTA	DESIGN OF AN IOT SYSTEM FOR SMART PROJECT MANAGEMENT

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
564	KHIMANI ABDULKADIR SALIM	RAJIV KUMAR	GRAPH CLUSTERING USING LOW RANK APPROXIMATIONS, AND SOCIAL NETWORK ANALYSIS.
565	ROHAN GOYAL	HARI BABU KOTAKULA	DETECTION OF MALICIOUS HOSTS IN NDC NETWORKS
566	UJJWAL GANDHI	HARI BABU KOTAKULA	CONSISTENT STATISTICS COLLECTION IN SDN
567	UJJWAL GANDHI	HARI BABU KOTAKULA	CONSISTENT STATISTICS COLLECTION IN SDN
568	SHRISTI KUMARI	HARI BABU KOTAKULA	ACHIEVING WAYPOINT ENFORCEMENT IN HYBRID SDN USING TUNNELING BETWEEN 2 SDN SWITCHES
569	ADITYA RAMACHANDRAN	PANKAJ ARORA	DESIGN OF PERIODIC NANO-STRUCTURES FOR OPTICAL SENSOR
570	ANWESH BHATTACHARYA	VAIDYA RISHIKESH D	SPECIAL TOPICS IN QUANTUM MECHANICS
571	VAIBHAV GANDOTRA	KARUNESH KR GUPTA	STRUCTURAL HEALTH MONITORING
572	RIYA GUPTA	NIRANKUSH DUTTA	USE OF SOCIAL MEDIA AS A DRIVER FOR INNOVATION IN HIGHER EDUCATION IN INDIA
573	MANAV KAUSHIK	SUREKHA BHANOT	APPLICATIONS OF CONTEMPORARY NEURAL NETWORKS LIKE GANS, LSTM, AND CNN.
574	KUSHAGRA AGRAWAL	NAVNEET GOYAL	DEEP LEARNING MODELS FOR MULTIVARIATE TIME SERIES ANALYSIS
575	RAKSHIT NANWANI	S K CHOUDHARY	ANALYZING NEWSPAPER BLOGS- EDITORIALS AND FEATURE ARTICLES
576	RISHABH AGARWAL	ABHIJEET KESHAORAO DIGALWAR	APPLICATION OF MULTICRITERION DECISION MAKING IN SUPPLY CHAIN MANAGEMENT
577	SUYASH AGARWAL	ABHIJEET KESHAORAO DIGALWAR	APPLICATION OF INTEGRATED QFD APPROACH ON NEW PRODUCT DEVELOPMENT
578	BHASKAR ROKANA	KAMALESH KUMAR	JUTE TEXTILES AND THEIR APPLICATIONS IN CIVIL ENGINEERING
579	KUMAR SUYASH SANJEEV	VINAY CHAMOLA	OPTIMIZATION TECHNIQUE FOR IOT SECURITY
580	DALAL AMOL	RAJESH PRASAD MISHRA	RELIABILITY, AVAILABILITY, MAINTAINABILITY AND SAFETY (RAMS) ANALYSIS OF MECHANICAL COMPONENTS
581	SEEPANA TIRUMALA RAO	KAMALESH KUMAR	SMART ENERGY CONTROL SYSTEMS FOR SUSTAINABLE BUILDINGS.
582	SUSHANT KUMAR	RAKESH CHOUBISA	APPLICATION OF CHAOS THEORY IN CRYPTOGRAPHY.
583	ROHAN KELA	KAMLESH TIWARI	REAL TIME TURN-TO-TURN ROUTE RECOMMENDATION SYSTEM BASED ON USER PREFERENCES.
584	ARPIT MUDGAL	ANKUSH CHANDRAKANT JAHAGIRDAR	ON IMPLEMENTATION OF FOURIER NEURAL NETWORKS/ WAVELET NEURAL NETWORKS
585	MOHIT WANVAT	RAJESH PRASAD MISHRA	OPTIMIZATION ALGORITHMS AND TECHNIQUES FOR RAMS APPLICATIONS
586	ANTRIKSH JAIN	RAJESH PRASAD MISHRA	OPTIMIZATION ALGORITHMS AND TECHNIQUES FOR RAMS APPLICATIONS
587	HARDIK MAHESHWARI	ASHIS KUMAR DAS	STUDY OF MICP BACTERIA USING DIFFERENT COMPUTATIONAL TOOLS.
588	UTKARSH AGARWAL	SATYENDRA KR SHARMA	DEMAND FORECASTING IN SUPPLY CHAIN MANAGEMENT USING DEEP LEARNING MULTIVARIATE TIME SERIES ANALYSIS.
589	AMAN AGRAWAL	N V MURALIDHAR RAO	FORECASTING THE DEMAND OF THE AVIATION INDUSTRY USING HYBRID TIME SERIES SARIMA-SVR APPROACH
590	SHUKLA SHUBHAM PREMPRAKASH	DIPENDU BHUNIA	WIND RESISTANT STRUCTURAL DESIGN.
591	SUMEET KUMAR SINGH	SANGITA YADAV	REMOTE SENSING AND IMAGE PROCESSING USING PARTIAL DIFFERENTIAL EQUATION

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S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
592	ANKUR SONI	KAMALESH KUMAR	SMART ENERGY CONTROL SYSTEMS FOR SUSTAINABLE BUILDINGS(SELECTED TOPICS).
593	AYUSH KUMAR	ARUN KUMAR GIRI	IMPACT OF MACRO-ECONOMIC INDICATORS ON INDIAN STOCK VOLATILITY
594	MEET KANANI	ASHUTOSH BHATIA	BLOCKCHAIN
595	KARAN ANIL GUPTA	MUKUND LAHOTI	A FEASIBILITY STUDY ON GEOPOLYMERS FOR USE IN PAVEMENT APPLICATIONS.
596	ISHITA AGRAWAL	PRABHAT NATH JHA	ALTERNATIVE DRUGS TO ANTIBIOTICS: DISCOVERY AND MECHANISTIC HIGHLIGHTS
597	SIDDHARTH PUROHIT	RAHUL SINGHAL	2D PORTABLE SCANNER USING A DISCARDED MOBILE PHONE CAMERA.
598	PRAVEEN RAVIRATHINAM	J. JENNIFER RANJANI	DESPECKLING OF SAR IMAGES USING DEEP LEARNING
599	MANAS SRIVASTAVA	N V MURALIDHAR RAO	STUDY ON THE ROLE OF ECONOMIC PARAMETERS IN ELECTIONS
600	JATIN GOYAL	SAUMI RAY	PREDICTION OF PROPERTIES OF SEMICONDUCTORS BY THEIR CONSTITUENT CHEMICAL ENTITIES
601	PRATYUSH PARETA	DIPENDU BHUNIA	EARTHQUAKE RESISTANT DESIGNING OF STRUCTURE
602	PARTH MISRA	RAKESH CHOUBISA	ANALYSING CHAOTIC SYSTEMS USING NEURAL NETWORKS.
603	SAMEER AGARWAL	RAKESH CHOUBISA	ANALYZING CHAOTIC SYSTEMS USING NEURAL NETWORK
604	SAHILI V TOTALE	ARUN KUMAR VAISH	DEVELOPING A PREDICTIVE STOCK MARKET ALGORITHM USING FUNDAMENTAL AND TECHNICAL ANALYSIS
605	PRIYESH AGARWAL	BIJOY KRISHNA MUKHERJEE	NONLINEAR CONTROL FOR AUTOMOMOUS MANEUVERING OF FIGHTER AIRCRAFT
606	APURV BAJAJ	ARUN KUMAR GIRI	A VALUATION MODEL ON MERGERS AND ACQUISITIONS
607	MANASVI AGARWAL	MEETHA V. SHENOY	IMPLEMENTATION OF ARTIFICIAL NEURAL NETWORKS IN HARDWARE.
608	NAVONEEL DE	ANIRUDDHA ROY	UNDERSTANDING PHOTODYNAMIC THERAPY IN CANCER TREATMENT
609	UDAYRAJ SINGH	PRIYANSH SINGH	PRINCIPAL COMPONENT ANALYSIS
610	DEEPAK CHAHAR	ASHUTOSH BHATIA	NETWORK SECURITY + MACHINE LEARNING
611	M YOGI ADITYA	P SRINIVASAN	STUDY ON TECHNOECONOMIC VIABILILY OF IMPLEMENTING AIR SEPARATION UNIT IN A COAL BASED THERMAL POWER PLANT IN INDIA FOR OXY-FUEL COMBUSTION WITH FGR AND CCS
612	GOVIND SINGH	KAMLESH TIWARI	INDEXING PALMPRINT DATABASE
613	UTKARSH KEDIA	V MANJULADEVI	INSTRUMENTATION OF HOME SENSORS MOSTLY OPTICAL, THERMAL AND MECHANICAL
614	ISHAAN	DEBI DATT PANT	ESTIMATION OF DIPOLE MOMENT OF MOLECULES USING FLUORESCENCE SPECTROSCOPY
615	ABHAY KANODIA	SUNIL KUMAR DUBEY	PHOTODYNAMICS IN CANCER THERAPY
616	RIYA SHAH	RAHUL SINGHAL	EQUIVALENT CIRCUIT MODELLING OF FREQUENCY SELECTIVE SURFACES
617	SAMAN SINGH	SUNITA RAINA	EXPLORING THE RELEVANCE OF CLASSICAL THEORIES OF SOCIAL CHANGE TO CONTEMPORARY SOCIETIES
618	MANTHAN ATULBHAI MEHTA	KULDIP SINGH SANGWAN	CPPS IMPLEMENTATION IN LEARNING FACTORY.
619	MAINAK MANDAL	NAVNEET GUPTA	PERFORMANCE ANALYSIS OF FLEXIBLE AND STRETCHABLE (FSE) TFTS ON THE BASIS OF HIGH-K DIELECTRICS
620	RIJU KUSHWAHA	TAPOMOY GUHA SARKAR	CANONICAL PERTURBATION THEORY AND KAM THEOREM; TOWARDS HAMILTONIAN CHAOS
621	YATHARTH SINGH	ANSHUMAN	ANALYSIS OF DURABILITY OF ALKALI-ACTIVATED SILICA FUME

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
622	UTKARSH BAJAJ	VAIBHAV SONI	DEEP LEARNING PROJECT ON AERIAL IMAGERY.
623	ABHISHEK JHA	DURGESH VIKRAM	ESTIMATION OF PASSENGER CAR EQUIVALENCE ON TWO-LANE TWO-WAY ROADS
624	MAANVESH JINDAL	SUREKHA BHANOT	AI TECHNIQUES IN ENVIRONMENT MONITORING & CONTROL
625	SAURABH P JAIN	ANKUSH CHANDRAKANT JAHAGIRDAR	SIMULATION STUDY OF SLIDING MODE CONTROL
626	SUMAN GHOSH	ANEESH A M	NUMERICAL MODELLING AND ANALYSIS OF THE HUMAN PHONATION SYSTEM
627	NEHA MAHESHWARI	ANIL RAI	VARIOUS STYLES OF VOCAL MUSIC
628	JONNALAGADDA SADHANA	MEGHANA TARE	STUDY OF VARIOUS CELL RESPONSE MECHANISMS TO INJURY AND THE ROLE OF APOPTOSIS IN NEURODEGENERATIVE DISORDERS.
629	PATIL ATHARVA RAVINDRA	ABHIJEET KESHAORAO DIGALWAR	SMART DIE CASTING USING MODERN TECHNOLOGY
630	BAHETI SHIVAM NARAYAN	P SRINIVASAN	POWER PLANT ECONOMICS
631	NAYAN JAIN	MAHESH ANGIRA	USE OF VARIOUS METHODS OF SELECTION OF MATERIALS FOR IMPROVING CAPACITIVE SWITCHES.
632	DHRUV JAIN	MAHESH ANGIRA	USE OF VARIOUS METHODS OF SELECTION OF MATERIALS FOR IMPROVING OHMIC SWITCHES
633	SUMIT BISHT	KRISHNENDRA SHEKHAWAT	A STUDY OF RECTANGULAR FLOOR PLANS
634	SIDDHANT JAIN	POONAM GOYAL	PARALLELIZATION OF CLUSTERING ALGORITHMS
635	PRAMAY SINGHVI	INDRESH KUMAR	DESIGNING A VERTICAL TURBINE
636	RACHIT AGRAWAL	INDRESH KUMAR	DESIGNING OF VERTICAL TURBINE
637	B ADHITHYA ROKHITH	ABHIJEET KESHAORAO DIGALWAR	ASSESSMENT OF ELECTRICAL VEHICLES IN INDIA FOR SUSTAINABILITY
638	MUNGAD AYUSH RAJENDRA	N V MURALIDHAR RAO	A NEURAL NETWORK BASED LINEAR ENSEMBLE FRAMEWORK FOR TIME SERIES FORECASTING
639	CHINMAY GARG	MANOJ KUMAR SONI	DESIGN AND PERFORMANCE EVALUATION OF FRESNEL SOLAR COOKER
640	RAHUL JHA	ASHUTOSH BHATIA	PROFILING OF MOBILE USERS BY ANALYSING THEIR ENCRYPTED USER TRAFFIC
641	AYUSH GARG	ASHUTOSH BHATIA	PROFILING OF MOBILE USERS BY ANALYSING THEIR ENCRYPTED NETWORK TRAFFIC
642	MAHESH BANSAL	INDRESH KUMAR	DESIGNING A VERTICAL TURBINE
643	BHAVESH RANJIT CHAND	POONAM GOYAL	DESIGN AND DEVELOPMENT OF PARALLEL SPACIAL CLUSTERING ALGORITHMS FOR DATA MINING
644	VIGYNESH BHATT	V K CHAUBEY	INTEGRATION OF LOS AND NLOS CAR TO CAR COMMUNICATION TECHNOLOGIES FOR IMPLEMENTATION IN INTELLIGENT TRANSPORTATION SYSTEMS.
645	JASPREET KAUR PAWA	PAWAN KAMALKISHOR AJMERA	MUSIC NOTE RECOGNITION
646	SANYAM JAIN	M M PANDEY	ENHANCEMENT OF SOLUBILITY IN DRUGS BY SOLID DISPERSION
647	SUYASH RAJ	ASHUTOSH BHATIA	INVESTIGATING THE LEARNING CAPABILITIES OF RECURRENT NEURAL NETWORKS: A CRYPTOGRAPHIC PERSPECTIVE
648	AKRITI GARG	NAVNEET GOYAL	IDENTIFYING KINSHIP USING FACE IMAGES
649	MEGHA PALIWAL	DHEERENDRA SINGH	STUDY OF REAL-TIME DETERMINATION OF BINDING KINETICS OF DNA HYBRIDIZATION USING GRAPHENE BIOSENSOR
650	MAHESH PRASAD MOHAPATRA	ANUPAM SINGHAL	TO STUDY THE TREATMENT TECHNIQUES FOR WASTE WATER.

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
651	AMAN SHUKLA	K S BHATTACHARYA	LOCATING AND ANALYZING ART AS CULTURAL SIGNPOSTS IN BOLLYWOOD MOVIES FROM 1960-1980
652	SAGAR SINGHAL	GAURAV WATTS	ANALYSIS OF LAMINATED COMPOSITE STRUCTURES USING SMOOTHED FINITE ELEMENT METHOD
653	PATIL RITURAJ MAHENDRA	ABHIJEET KESHAORAO DIGALWAR	INTEGRATION OF LEAN MANUFACTURING AND INDUSTRY 4.0.
654	MANGLUNIA RISHABH RAJKUMAR	MANOJ KUMAR	APPLICATION OF FEM IN THE ANALYSIS OF RCC STRUCTURES
655	RAHIL N JAIN`	KRISHNENDRA SHEKHAWAT	A STUDY OF ORTHOGONAL FLOORPLANS
656	LAWANKAR SAMEER MANISH	NISHANT ROY	SLOPE STABILIZATION IN MOUNTAINOUS AREAS USING MICROPILES
657	KOMAL VASUDEVA	KAMLESH TIWARI	QUESTION ANSWERING SYSTEM USING MACHINE LEARNING
658	AKSHINA JINDAL	MEGHANA TARE	AYURGENOMICS: IS IT A PLAUSIBLE SUBSTITUTE TO ALLOPATHIC MEDICINE?
659	ATHARVA TANDON	HARSHAVARDHAN SETTIBHAKTINI	EFFICIENT PEDESTRIAN DETECTION IN FAR IR NIGHT VISION
660	SAURAV VIRMANI	SHASHANK GUPTA	CREATION OF A PROOF OF CONCEPT TO ENABLE LOW POWER, RESOURCE-CONSTRAINED IOT END-DEVICES ACCESSING A BLOCKCHAIN-BASED INFRASTRUCTURE.
661	DHANANJAY SINGH SAWNER	HITESH DATT MATHUR	DETERMINATION OF PRICING POLICY FOR EV OWNERS IN INDIAN CONTEXT.
662	SRISHTI GUPTA	HITESH DATT MATHUR	DETERMINATION OF PRICING POLICY FOR EV OWNERS IN INDIAN CONTEXT.
663	ANIRUDDH SHARMA	RAJIV GUPTA	GIS AND AI FOR PRECISION AGRICULTURE
664	ASHISH GUPTA	ARUN KUMAR GIRI	IMPLICATIONS OF CORPORATE FARMING IN INDIA.
665	NEETIGYA SETHI	RAJESH KUMAR (CIVIL)	VIBRATION ANALYSIS OF ISOTROPIC PLATE AND SHELL
666	SANIDHYA KUMAR PANDEY	ANSHUMAN	DETAILED STUDY OF SELF HEALING CONCRETE USING BACTERIA AND/OR OTHER MICROORGANISMS
667	AMAN SAXENA	AJAY KUMAR SAH	BIOCHEMISTRY OF DIABETES
668	ARPAN CHATTOPADHYAY	RUPAM GOSWAMI	P-N JUNCTION DEVICES FOR BIO-SENSING APPLICATIONS
669	MEHUL JAIN	ASHIS KUMAR DAS	INVASION OF ERYTHROCYTES BY MALARIA PARASITE
670	RAJAT MIDDHA	BIBHAS RANJAN SARKAR	STUDY OF SYNTHESIS AND APPLICATION OF ZEOLITES AND OTHER MICROPOROUS MATERIALS.
671	UDAYRAJ SINGH	PRIYANSH SINGH	PRINCIPAL COMPONENT ANALYSIS
672	AMBUJ GARG	BIBHAS RANJAN SARKAR	STUDY SYNTHESIS AND APPLICATIONS OF ZEOLITE AND MESOPOROUS MATERIALS.
673	RASHI YADAV	SAILAJA NANDIGAMA	AIR QUALITY AND PROBLEMS OF CROP BURNING IN PUNJAB AN HARYANA
674	SAMARTH TIWARI	MEGHANA TARE	MATHEMATICAL MODELING OF CELL APOPTOSIS DURING DISEASED CONDITION
675	PRATEEK SINGH	ANIL KUMAR	STUDY OF ORGANIC-BASED MOLECULAR SWITCHES
676	PARTH GUPTA	AJAY KUMAR SAH	STUDY ON BIODEGRADABLE PLASTICS
677	ADITI VASHISHTHA	AMOL HOLKUNDKAR	ATTOSECOND PULSE GENERATION BY LASER-ATOM INTERACTION
678	ANJALI MAHESHWARI	AMIT JAIN	STUDIES ON BIOALCOHOL PRODUCTION
679	AMOL AGARWAL	ARVIND KUMAR SHARMA	ENERGY INTEGRATION - THERMODYNAMIC PRINCIPLES
680	ADITYA JAIN	DURGESH VIKRAM	ESTIMATION OF PASSENGER CAR EQUIVALENCE ON TWO-LANE TWO-WAY ROADS

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S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
681	NIDISH GARG	KULDIP SINGH SANGWAN	PRODUCTION PLANNING
682	KABRA AKASH PRASAD	N V MURALIDHAR RAO	A NEURAL NETWORK BASED LINEAR ENSEMBLE FRAMEWORK FOR TIME SERIES FORECASTING
683	SANJAY MALHOTRA	J. JENNIFER RANJANI	VERIFYING MEDICAL IMAGE INTEGRITY USING DEEP LEARNING TECHNIQUES
684	P G PADMA VILOCHANI	ABHIJEET KESHAORAO DIGALWAR	APPLICATION OF LEAN THINKING PRINCIPLES ON INDIAN HEALTH CARE SERVICES.
685	SAI SHRAVANTH REDDY M	N V MURALIDHAR RAO	STUDY OF HUMAN DEVELOPMENT AND ECONOMIC GROWTH IN INDIA
686	AKSHAT BHATNAGAR	G S CHAUHAN	LINGUISTICS OF POLITICAL DISCOURSE.
687	TUSHAR GOEL	J. JENNIFER RANJANI	VERIFYING MEDICAL IMAGE INTEGRITY USING DEEP LEARNING TECHNIQUES
688	SEHAJDEEP SINGH ARORA	NISHANT ROY	FRAGILITY ASSESSMENT OF TUNNELS CONSIDERING LOCAL SITE EFFECTS
689	AMBUJ SAXENA	G S CHAUHAN	TO STUDY THE SIGNIFICANCE OF SOFT-SKILLS FOR A TECHNICAL GRADUATE.
690	ADARKAR SAUJAS	KAMLESH TIWARI	TRUE FEATURE DETECTION IN FINGERPRINTS
691	SANCHIT AHUJA	AVINASH GAUTAM	MODELLING OF MULTI ROBOT EXPLORATION AS A PURSUIT EVASION PROBLEM
692	KRUTARTH LALIT SARASWAT	ANEESH A M	STUDY OF INEFFECTIVENESS DUE TO FLOW MAL-DISTRIBUTION AND AXIAL CONDUCTION IN PRINTED CIRCUIT HEAT EXCHANGER
693	KSHITIJ GUPTA	ARUN KUMAR GIRI	IMPLICATION OF CORPORATE FARMING IN INDIA
694	ANKIT KUMAR PATRA	RAHUL SINGHAL	RADIATION MODES OF HEXAGONAL PATCH ANTENNA
695	DIPAM GOSWAMI	KRISHNENDRA SHEKHAWAT	DIMENSIONED FLOOR PLANS
696	KRISHNA VEERESH	SATYENDRA KR SHARMA	SUPPLY CHAIN MANAGEMENT IN E-COMMERCE COMPANIES (INDIA SPECIFIC)
697	MAYANK HEMANT KULKARNI	SATYENDRA KR SHARMA	SUPPLY CHAIN MANAGEMENT IN E-COMMERCE COMPANIES (INDIA SPECIFIC)
698	VIKRAMJIT SINGH	N V MURALIDHAR RAO	EFFECT OF GDP PER CAPITA ON LIFE EXPECTANCY
699	AKASH SINGH	N V MURALIDHAR RAO	GOVERNANCE ASPECTS OF STUDENT UNION OF BITS PILANI
700	ABHISHEK GUPTA	N V MURALIDHAR RAO	ASSESSMENT OF HOME LOAN DEFAULT RISK
701	UJJWAL AGGARWAL	SAUMI RAY	STUDY OF HETERO-DIELS-ALDER REACTION USING SPECTROSCOPIC TECHNIQUES LIKE NMR.
702	MANAN AGARWAL	KAUSHAR VAIDYA	GAIA BASED STUDY OF STAR CLUSTERS
703	UJJWAL SHARMA	ARUN KUMAR VAISH	MICROFINANCE: ITS PRODUCTS, AND THE INDIAN SECURITY MARKET.
704	P ARUN KUMAR REDDY	BIJAY KUMAR ROUT	AUTONOMOUS DRIVING
705	DIVESH UTTAMCHANDANI	HARI BABU KOTAKULA	P4 PROGRAMMING IN SDN NETWORKS
706	JIVAT NEET KAUR	VANDANA AGARWAL	ACTIVITY RECOGNITION IN VIDEO IMAGES
707	MEENAL MANSINGHANI	ABHISHEK DHOBLE	MILK FOAMS AND MILK QUALITY EVALUATION
708	HAMAYAL SHARMA	ANIRUDDHA ROY	USE OF IMMUNOTHERAPY FOR THE TREATMENT OF MULTI-DRUG RESISTANT TUMORS
709	VIBHOR JAIN	SATYENDRA KR SHARMA	RISK MANAGEMENT
710	RAKSHIT MISHRA	NISHANT ROY	ASSESSMENT OF COMPLEX ROCK SLOPE FAILURE AND DEFORMATION USING NUMERICAL SIMULATION.
711	ABHITH KRISHNA	J N BANDYOPADHYAY	QUANTUM COMPUTATION AND INFORMATION.
712	ANSHUMAN MISHRA	ABHIJIT RAMESHWAR ASATI	MAKING TEMPERATURE SENSOR GIVING REAL-TIME REPORTS ON MOBILE
713	ANUBHAV BANSAL	NAVNEET GOYAL	BIODIVERSITY DISTRIBUTION USING MACHINE LEARNING ALGORITHMS
714	ADITHYA SHANKAR	KAMLESH TIWARI	SATELLITE IMAGE SEGMENTATION.

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
	BHATTIPROLU		
715	VIPIN BASWAN	KAMLESH TIWARI	SATELLITE IMAGE SEGMENTATION
716	HITESH SETHI	AJAY KUMAR SAH	STUDY OF DYE SENSITIZED SOLAR CELLS
717	MAYANK JASORIA	SYAMANTAK MAJUMDER	EPIGENETICS OF DIABETES AND ITS ASSOCIATED CARDIOVASCULAR COMPLEXITIES.
718	KAVYA GUPTA	NAVNEET GOYAL	BIODIVERSITY DISTRIBUTION USING MACHINE LEARNING ALGORITHMS
719	HASAN NAQVI	VAIDYA RISHIKESH D	SPECIAL TOPICS IN QUANTUM MECHANICS
720	MUKKAMALA VENKAT SAI RAM	J. JENNIFER RANJANI	STEGANOGRAPHY USING DEEP CONVOLUTIONAL NEURAL NETWORKS
721	DISHA JAIN	SMITA RAGHUVANSHI	LOW COST SANITATION SYSTEM IN THE INDIAN CONTEXT
722	MANJOT SINGH	AMIT JAIN	STUDIES ON BIOALCOHOL PRODUCTION
723	LATURIYA YASH SANJAY	S K VERMA	BIOSENSOR TECHNOLOGY FOR DETERMINATION OF BIOCHEMICAL OXYGEN DEMAND (BOD)
724	ASHUTOSH KUMAR	DIPENDU BHUNIA	WIND RESISTANT STRUCTURAL DESIGN
725	SWADESH VAIBHAV	KAMLESH TIWARI	ROADSIDE SIGN AND TEXT DETECTION IN MOVING VEHICLE USING MACHINE LEARNING
726	VINAYAK AGGARWAL	ABHIJEET KESHAORAO DIGALWAR	RESEARCH OF LEAN MANUFACTURING PRINCIPLES
727	MANTRA MANAN SARASWAT	RAJESH KUMAR (CIVIL)	TUNNELING INDUCED SUBSIDENCE IN URBAN AREAS AND ITS IMPACT ON BUILDINGS.
728	RAMACHANDREN SHANKAR	J. JENNIFER RANJANI	STEGANOGRAPHY USING DEEP CONVOLUTIONAL NEURAL NETWORKS
729	SHETH DEEP MILAN	M M PANDEY	A STUDY ON APPLICATION OF MATHEMATICAL TOOLS IN PHARMACOECONOMICS
730	KUSHAL SINGHI	NISHANT ROY	SEISMIC PERFORMANCE OF TUNNELS IN MOUNTAINOUS REGIONS
731	ADITYA VARSHNEY	PANKAJ ARORA	1)DESIGN OF PERIODIC NANO- STRUCTURES FOR OPTICAL SENSOR
732	YASH JAIN	RAJESH KUMAR (CIVIL)	ANALYSIS AND DESIGN OF STRUCTURAL COMPONENTS OF METRO TUNNEL
733	MADHUR PANWAR	POONAM GOYAL	VISUAL QUESTION ANSWERING(VQA) ON SPORTS IMAGES USING EXTERNAL KNOWLEDGE
734	VAIDANT AGRAWAL	RAJESH KUMAR (CIVIL)	SELECTION OF PROPER STRUCTURAL SUPPORT SYSTEMS FOR TUNNELS IN DIFFICULT GROUND CONDITIONS
735	KUNDA SATYANARAYANA	KUMAR NEERAJ SACHDEV	A STUDY OF SELECT PHILOSOPHICAL PERSPECTIVES AND THEIR APPLICATIONS
736	KANDREGULA BHASKAR	RAJEEV TALIYAN	ROLE AND THERAPEUTIC POTENTIAL OF STEM CELLS IN CANCER
737	MAHIMA SHARMA	RAJEEV TALIYAN	POST STROKE ANALYSIS AND RECOVERY POTENTIAL
738	DHAIRYA BHORANIA	YENUGANTI SUJAN	DESIGN AND SIMULATION OF A SMALL SCALE WIND ENERGY HARVESTER USING PIEZO-ELECTRIC CANTILEVER GENERATOR
739	AVANI SHARMA	BIBHAS RANJAN SARKAR	CONVERSION OF CARBON DIOXIDE INTO CHEMICALS
740	PRATEEK MAHAJAN	RUPAM GOSWAMI	STUDY AND ANALYSIS OF MATHEMATICAL MODELS IN ORGANIC MEMRISTORS
741	PANCHUMARTHI PRANAV	ANUPAM YADAV	RECOGNIZING HUMAN ACTIVITY USING MULTI-MODAL SENSORS AND ITS APPLICATION IN IDENTIFYING SUICIDAL TENDENCIES
742	RAYAPATI YASWANTH KUMAR	ANUPAM YADAV	RECOGNIZING HUMAN ACTIVITY USING MULTI-MODAL SENSORS AND ITS APPLICATION IN IDENTIFYING SUICIDAL TENDENCIES
743	RANGA SRIRAM	SHIBASISH CHOWDHURY	BIO MARKERS IN CANCER CELLS
744	SHIVANSH AGARWAL	ABHIJEET KESHAORAO	ELECTRIC VEHICLE MANUFACTURING PROFILE IN TATA MOTORS

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
		DIGALWAR	
745	SAMYAK JAIN	MUTHUKUMAR G	RESEARCH AND DEVELOPMENT OF SUPER-CITIES
746	ASHWIN P	A R HARIKRISHNAN	MOLECULAR DYNAMICS STUDY ON THERMO-HYDRODYNAMICS OF CONFINED NANOCANNEL FLOWS.
747	STUTI BHATTACHARYYA	PAUL ATISH TULSHIRAM	TO STUDY THE NATURAL DRUGS OF AYUVEMBU
748	SARKAR BHARAT A WARESH	SHASHANK GUPTA	CREATION OF A PROOF OF CONCEPT TO ENABLE LOW POWER RESOURCE CONSTRAINED IOT END DEVICES ACCESSING A BLOCKCHAIN BASED INFRASTRUCTURE.
749	JOYOTI DISHA RAJBONGSHI	HARI OM BANSAL	STUDY ON CHARGING INFRASTRUCTURE FOR PHEVS
750	SIDDHANT SINGH	RISHIKESH VAIDYA	SPECIAL TOPICS IN QUANTUM MECHANICS
751	SAUMYA GARG	KAVINDRA KANDPAL	GATE DIELECTRIC MATERIAL SELECTION FOR SIC POWER TRANSISTOR
752	K ROHIT SHARADWANTHA	ABHIJEET KESHAORAO DIGALWAR	IMPACT ASSESSMENT OF TECHNOLOGY ON INDIAN MANUFACTURING INDUSTRY
753	KUSHAGRA MISHRA	J N BANDYOPADHYAY	TO STUDY HOW CHAOTIC CLASSICAL DYNAMICAL SYSTEMS CAN BE DESCRIBED IN TERMS OF QUANTUM THEORY-QUANTUM CHAOS
754	RISHABH ANEJA	RAVI KANT MITTAL	TO STUDY STRENGTH CHARACTERISTICS OF FIBER REINFORCED SOIL AND ITS TECHNO-ECONOMIC ANALYSIS
755	TANVI GUPTA	ABHISHEK DHOBLE	MICROBIOMES IN MICROGRAVITY
756	ABHISHEK AGARWAL	YASHVARDHAN SHARMA	QUESTION AND ANSWERING RANKING SYSTEM
757	JAYS JOSE THOMAS	RAKESH CHOUBISA	APPLICATION OF CHAOS THEORY IN CRYPTOGRAPHY
758	KIRTI SHARMA	GIRISH KANT GARG	DEVELOPMENT OF AN EMPIRICAL MODEL FOR THE PREDICTION OF ENERGY CONSUMPTION IN THE TURNING PROCESS
759	U ASWATHY	GIRISH KANT GARG	DEVELOPMENT OF EMPIRICAL MODEL FOR PREDICTION OF ENERGY CONSUMPTION IN MILLING PROCESS
760	HARSHIT AWASTHI	ANIL KUMAR	DEGRADATION OF POLYETHYLENE TEREPHTHALATE (PET) USING IONIC LIQUIDS
761	ARCHANA	GIRISH KANT GARG	OPTIMIZATION OF PROCESS PARAMETERS FOR IMPROVING MACHINING PERFORMANCE USING DIFFERENT MACHINE LEARNING APPROACHES
762	PAVNI JAISWAL	DEVIKA	ANALYSIS OF POETRY-BASED ON MODES OF THINKING
763	UTKARSH AGARWAL	GIRISH KANT GARG	MODELLING OF TRANSIENT STATE OF ENERGY CONSUMPTION FOR MACHINE TOOLS
764	VISHESH MANGLA	SANGITA YADAV	SOLVING WHITHAM–BROER–KAUP EQUATIONS USING FINITE ELEMENT METHOD
765	RATHI VEDIKA ISHWAR	TAPOMOY GUHA SARKAR	BIG BANG COSMOLOGY-EARLY UNIVERSE
766	APOORVA ROSE	PRASHANT U MANOHAR	QUANTUM TUNNELING AND MAGNETISM
767	DIVYESH NARAYANAN	SANGEETA SHARMA	ROLE OF TECHNOLOGY IN PROVIDING QUALITY HEALTHCARE
768	NIMISH GOYAL	GAURAV DWIVEDI	APPLICATION OF PARTIAL DIFFERENTIAL EQUATIONS.
769	ASRITA VENKATA MANDALAM	YASHVARDHAN SHARMA	MORPHEME EXTRACTION FOR INDIAN LANGUAGES
770	SAMARTH GUPTA	YASHVARDHAN SHARMA	DESIGN AND IMPLEMENTATION OF REAL-TIME IDENTITY DETECTION SYSTEM
771	OM KAMLESH PATEL	ARYA KUMAR	DETERMINANTS OF CAPITAL STRUCTURE IN INDIAN PHARMACEUTICAL COMPANIES

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
772	HARSHWARDHAN MUKUL MITTAL	MURALI P	INTRODUCTION TO MOLECULAR DYNAMICS AND MATERIAL SIMULATION
773	AAYUSH AGARWAL	NILADRI SARKAR	STUDY OF FINITE DIFFERENCE TIME DOMAIN METHODS AND ITS APPLICATION ON QUANTUM MECHANICS
774	SHIVAM AGRAWAL	MURALI P	"INTRODUCTION TO MOLECULAR DYNAMICS AND MATERIAL SIMULATION"
775	AASHISH AGGARWAL	N V MURALIDHAR RAO	AN EMPIRICAL STUDY ON STOCK PRICE PREDICTION USING MACHINE LEARNING ALGORITHMS
776	RAGHU BOYALLA	MUTHUKUMAR G	TRANSFORMATION OF DESIGN INTO CONSTRUCTION
777	GAURAV SHARMA	SUSHILA SHEKHAWAT	TO STUDY THE FILM ADAPTABILITY OF A NOVEL
778	AYUSH JAIN	PRATIK NARANG	HUMAN ACTIVITY RECOGNITION IN AERIAL IMAGES USING DEEP LEARNING
779	HARPINDER JOT SINGH	YASHVARDHAN SHARMA	FAKE NEWS DETECTION IN SOCIAL MEDIA
780	VISHAL MITTAL	YASHVARDHAN SHARMA	CONTEXT IDENTIFICATION FOR QUESTIONS THROUGH KNOWLEDGE BASE
781	SHAILY BHATT	YASHVARDHAN SHARMA	FAKE NEWS DETECTION IN SOCIAL MEDIA
782	UMANG AGARWALA	MUKUND LAHOTI	ROLE OF GEOPOLYMER CONCRETE FOR CONSTRUCTION IN ROAD PAVEMENT.
783	ATHARVA ASHISH MIRAJKAR	MANOJ KUMAR	FINITE ELEMENT ANALYSIS OF CIVIL STRUCTURES
784	GODHAT PRIYANK JAYANTILAL	MUKUND LAHOTI	COST ESTIMATION AND ENVIRONMENT IMPACT OF GEOPOLYMER CEMENT
785	PARAMTAP LAL	MUKUND LAHOTI	EFFECT OF PARTIAL REPLACEMENT OF CEMENT BY COPPER TAILING AND MARBLE DUST.
786	KATTA SIVA KUMAR	KUMAR NEERAJ SACHDEV	A STUDY OF SOME SELECT ISSUES IN INDIAN PHILOSOPHY
787	NIMISHA JAIN	ARVIND KUMAR SHARMA	FLUIDIZED BED ADSORPTION OF POLLUTANTS FROM WATER AND WASTEWATER
788	JHA UJJWAL RAKESH	ABHISHEK DHOBLE	BIODEGRADABLE PLASTICS
789	PALASH DHAKAR	KAMLESH TIWARI	DETERMINING OPTIMAL FISCAL POLICY USING MACHINE LEARNING TECHNIQUES
790	SAHIB AGGARWAL	MONIKA GUPTA	ESTIMATION OF SOCIAL COSTS OF ROAD TRANSPORTATION IN INDIA
791	SHIVAM ARORA	SOMAK CHATTERJEE	STUDY ON DIFFERENT WATER SOLUBLE ADHESIVES
792	PARTH BATRA	NAVNEET GOYAL	DEEP LEARNING BASED SANSKRIT-OCR
793	RIYA SRIVASTAVA	N V MURALIDHAR RAO	A SYNERGY BETWEEN E-GOVERNANCE AND E-PARTICIPATION
794	AMOL AGARWAL	ARVIND KUMAR SHARMA	ENERGY INTEGRATION - THERMODYNAMIC PERSPECTIVES
795	DHRUV MALHOTRA	NILADRI SARKAR	STUDY OF FINITE DIFFERENCE TIME DOMAIN METHODS AND ITS APPLICATION ON MAXWELLS CURL EQUATIONS.
796	DAKSH GUPTA	SADHANA JHA	EYE STATE RECOGNITION FOR DRIVERS DROWSINESS DETECTION
797	ISHAN SANJAY JOGLEKAR	SADHANA JHA	MOUTH STATE RECOGNITION FOR DRIVER DROWSINESS DETECTION
798	ANIRUDH VIJAY	SADHANA JHA	EYE STATE RECOGNITION FOR DRIVERS DROWSINESS DETECTION
799	WAGHMARE SUKRUT PRASANNA	SYED MOHAMMAD ZAFARUDDIN	ENERGY EFFICIENCY OF CELL-FREE MASSIVE MIMO WIRELESS COMMUNICATION
800	PRANJAL DAVE	SYED MOHAMMAD ZAFARUDDIN	PERFORMANCE ANALYSIS OF CELL-FREE MASSIVE MIMO WIRELESS COMMUNICATIONS UNDER FADING CHANNELS
801	KANISHK RAJVANSHI	PRIYANSH SINGH	INTERPRETATION OF PAVEMENT USING BIG DATA ANALYSIS.

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
802	RITIK GUPTA	AMIT JAIN	STUDIES ON BIOHYDROGEN PRODUCTION
803	AYUSH NAIR	RAJDEEP CHOWDHURY	EFFECT OF PHOTOSENSITIZATION OF LIGHT ON TUMOUR CELLS
804	ANSHUL GARG	HARIKRISHNAN GOPINADHAN NAIR	A SURVEY OF LITERATURE ON THE HISTORY OF UNIVERSITIES IN MODERN INDIA 1857-1947
805	SAKSHI CHOUDHARY	ANUPAM SINGHAL	ADVANCEMENTS IN THE FIELD OF BIOGAS GENERATION.
806	MAYANK PRASAD	ANUPAM SINGHAL	ADVANCEMENTS IN THE FIELD OF BIOGAS GENERATION
807	PALLAVI PARASHAR	NILADRI SARKAR	STUDY OF ELECTROMAGNETIC WAVE PROPAGATION IN DIELECTRIC MEDIUM
808	ANISHKUMAR S S	J. JENNIFER RANJANI	POWER LINE SEGMENTATION IN AERIAL IMAGES
809	VAGISH GARG	N V MURALIDHAR RAO	FINANCIAL INCLUSION AND ITS DETERMINANTS IN INDIA
810	SALMAAN SHAHID	ABHISHEK MISHRA	PERFORMANCE EVALUATION OF FACTORIZATION ALGORITHMS
811	AMAN GUPTA	HARE KRISHNA MOHANTA	APPLYING DEEP LEARNING TO PETROLEUM WELL DATA
812	SHREYANSH SINGHVI	NEETU YADAV	THE EMERGENCE AND EVOLUTION OF BLUE OCEAN STRATEGY IN INDIA.
813	KUMAR DEOVRATA	SUNDARESAN RAMAN	IDENTIFYING DIFFERENT DISEASES OCCURRING IN PLANTS IN INDIA AND FINDING TECHNIQUES AND DIFFERENT MACHINE LEARNING MODELS TO IDENTIFY THEM.
814	PRANAV SINGH RATHORE	ANIL RAI	FILM MUSIC
815	NAMAN DEEP SRIVASTAVA	YASHVARDHAN SHARMA	NATURAL LANGUAGE PROCESSING TOOLS FOR INDIAN LANGUAGES(FIRE WORKSHOP)
816	HIMANSHU AGARWAL	RAJAN PANDEY	APPLICATION OF HIGH-FREQUENCY DATA IN MODELING AND PREDICTING SHORT-TERM VOLATILITY IN THE STOCK MARKET AND TO STUDY THE LITERATURE ON BEHAVIORAL FINANCE.
817	JYOTIRADITYA SINGH	P SRINIVASAN	POWER PLANT ECONOMICS.
818	MANNAT KHURANA	SHAMIK CHAKRABORTY	INVESTIGATION OF HYDROGEN BONDING AND HALOGEN BONDING INTERACTION IN BIO-MOLECULES.
819	LAVANYA SONI	KAMLESH TIWARI	ANALYSIS OF ENCRYPTED TRAFFIC DATA
820	CHITRANJAN JAIN	RAJAN PANDEY	IS MICROFINANCE AN EFFECTIVE POVERTY ALLEVIATION TOOL?
821	GAURAV RATHI	PUSHP LATA	A SOCIO-CULTURAL APPRAISAL OF IMMIGRANTS
822	JAI RAWAL	PUSHP LATA	A SOCIO-CULTURAL APPRAISAL OF IMMIGRANTS
823	V ABISHEK BALAJI	MUTHUKUMAR G	TRANSFORMATION OF DESIGN INTO CONSTRUCTION
824	SIDDHANT KHANDELWAL	KAMLESH TIWARI	ROAD SIGN AND TEXT DETECTION
825	MANAN SONI	SUNDARESAN RAMAN	COMPARATIVE ANALYSIS OF DEEP LEARNING MODELS FOR IDENTIFYING DISEASES IN PLANTS
826	KUMAR MALLIKARJUNA	RAJIV KUMAR	SOME STUDIES IN LINEAR ALGEBRA
827	SHARMA PARITOSH ASHUTOSH	GAURAV WATTS	FLUTTER ANALYSIS OF AN AIRCRAFT WING
828	SOMYA UPADHYAY	NILADRI SARKAR	STUDY OF PROPAGATION OF ELECTROMAGNETIC WAVES IN PLASMA USING F.D.T.D. METHOD
829	PARTH VIVEKANAND KHARADE	ANU GUPTA	HIGH FREQUENCY ANALOG CIRCUIT DESIGN
830	KSHITIJ KARUNESH	MRINMOYEE BASU	ELECTROCHEMICAL STUDY OF ELECTRODES
831	CHETAN SHARMA	AVINASH GAUTAM	MR IN ADVERSARIAL COVERAGE AND PURSUIT EVASION
832	HIMANSHU AGARWAL	RAJAN PANDEY	UNDERPRICING OF IPOs IN THE INDIAN CONTEXT
833	RASTOGI AAMIL ASHUTOSH	ASHOKE KUMAR SARKAR	APPROPRIATE TRAFFIC CALMING MEASURES FOR ACADEMIC CAMPUS: A CASE STUDY

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
834	ADITYA BHANJA	ASHOKE KUMAR SARKAR	APPROPRIATE TRAFFIC CALMING MEASURES FOR ACADEMIC CAMPUS: A CASE STUDY
835	ANUSHKA BHARDWAJ	MADHURIMA DAS	EVALUATING THE SCOPE OF ARTIFICIAL NEURAL NETWORKS IN MOTHERING AND ELEMENTARY EDUCATION.
836	SHASHANK PRASAD	PUSHP LATA	NEED ASSESSMENT OF CROSS-CULTURAL SKILLS AMONG INDIAN GRADUATES
837	JAIN SOHAM DUNGERCHAND	NAVNEET GUPTA	STUDY OF ELECTRICAL PROPERTIES OF SWNT UNDER THE PRESENCE OF VARIOUS GASES FOR GAS SENSOR DEVELOPMENT.
838	SRISHTI JAIN	DR ARGHYA BANERJEE	DEVELOPMENT OF CATALYSTS FOR PYROLYSIS DERIVED BIO-OIL UPGRADATION
839	AASTHA MISRA	DR ARGHYA BANERJEE	REVIEW ON CATALYSTS USED FOR CONVERSION OF SYNGAS/CO ₂ TO CHEMICALS (METHANOL/DME/OLEFINS)
840	AMISHA SRIVASTAVA	ASHOKE KUMAR SARKAR	IMPACT OF ROADS ON RURAL AREAS
841	ASHISH KUMAR	VAIBHAV SONI	MULTI-MODAL HUMAN ACTIVITY RECOGNITION
842	HURKAT PIYUSH RADHESHYAM	SMITA RAGHUVANSHI	STUDY ON LOW COST SANITATION SYSTEMS IN INDIAN CONTEXT
843	PRIYADARSHI NIHAL	N V MURALIDHAR RAO	FINANCIAL INCLUSION AND ITS DETERMINANTS IN INDIA
844	VAIBHAV	RASHMI RANJAN MISHRA	TO STUDY THE CONCEPTS OF THEORY OF RELATIVITY
845	BAL RAM	RAKHEE	A STUDY OF DISCRETE TIME QUEUING MODELS
846	G Y SAKET REDDY	MUTHUKUMAR G	EARTHQUAKE RESISTANT ANALYSIS AND DESIGN OF CONCRETE STRUCTURES. OR ANY OTHER DESIGN RELATED PROJECTS.
847	ANSHUMAN RAJ	G S CHAUHAN	AN EVALUATION OF THE FACTORS PREDICTING THE EFFECTIVENESS OF CELEBRITY ENDORSEMENT ADVERTISEMENTS.
848	SHRAMAY PALTA	VISHAL GUPTA	DARKNET INSIGHTS USING R
849	ABHISHEK B CHAKRAVARTHI	SUREKHA BHANOT	STUDYING DIFFERENT TYPES OF GANS AND ANALYZING THEIR APPLICATIONS
850	VISHAL SINGH DEOLEYA	CHANDRA SHEKHAR (EEE)	REPRESENTATION AND PROCESSING OF REAL NUMBERS FOR DIGITAL COMPUTERS
851	YASH WARDHAN SHYAM	PUSHP LATA	AN IMPACT OF RTE AND ITS IMPLEMENTATION: A CASE STUDY OF PILANI AND NEARBY AREAS
852	ARPAN PARIKH	VANDANA AGARWAL	ACTIVITY RECOGNITION IN VIDEO IMAGES
853	JASVEER SINGH	GAUTAM SINGHVI	NATURAL POLYMERS AND ITS APPLICATION IN DRUG DELIVERY.
854	AKRITI SRIVASTAVA	PRABHAT NATH JHA	DEVELOPMENTS IN ANTIBIOTIC THERAPY: CONVENTIONAL AND ALTERNATIVE TARGETS
855	ROHIT MANDAR	G S CHAUHAN	IPL: A STUDY OF ITS BUSINESS MODEL AND POPULARITY
856	PRAKHAR GUPTA	SANGITA YADAV	APPLICATION OF WEAK GALERKIN FINITE ELEMENT METHOD
857	KRITI RATHI	P SRINIVASAN	ANALYSIS OF CRACK PROPAGATION IN AEROSPACE MATERIALS
858	SHAH HET HEMENDRABHAI	HITESH DATT MATHUR	SMART INTEGRATION OF RENEWABLE SOURCES OF ENERGY
859	KHUSHI UPESH DOSHI	ASHIS KUMAR DAS	BIOSENSORS
860	LAKSHYA AGARWAL	KRISHNENDRA SHEKHAWAT	A STUDY OF ORTHOGONAL FLOOR PLAN
861	SAHIL MEHRA	VAIBHAV SONI	MOVING OBJECT DETECTION IN AERIAL IMAGES
862	GUDDATI SRI SOWMYA	S K CHOUDHARY	ANALYSIS OF WORLD OPINION ON TERRORISM
863	SALDANHA MURREL FRANCIS	ANIRUDDHA ROY	EFFECT OF GENETIC VARIATION ON DRUG METABOLISM
864	PARV V PANTHARI	MAHESH ANGIRA	STUDY OF HIGH FREQUENCY BASED LOCAL OSCILLATORS.

STUDY PROJECT			
S.NO	NAME OF STUDENTS	FACULTY NAME	PROJECT TITLE
865	SHIVAM BHALLA	SUDESHNA MUKHERJEE	USING GRAPH NETWORK THEORY FOR BIOLOGICAL PATHWAY ANALYSIS
866	APURU BHASWANATH	N V MURALIDHAR RAO	ANALYSIS OF INDIAN MANUFACTURING INDUSTRY : PROSPECTS AND TECHNOLOGY STATUS
867	GIRINATH.R	SADHANA JHA	GENERATING SKETCH TO REALISTIC IMAGES USING GANS
868	JITENDRA SINGH RATHORE	ANIL RAI	FILM MUSIC
869	NEHA SAINI	JAYASHREE MAHESH	THE EXPECTATION OF POST-MILLENNIAL STUDENTS FROM FUTURE WORKPLACES
870	ARYAN SHARMA	RASHMI RANJAN MISHRA	SELECTED/ADVANCED TOPICS ON GENERAL THEORY OF RELATIVITY AND GRAVITATION
871	DEV ARORA	RAJAN PANDEY	TO STUDY THE IMPACT OF UNDERPRICING OF IPO IN THE INDIAN MARKET
872	PRANAV SARASWAT	RUPAM GOSWAMI	MODELLING OF SEMICOUNDUCTOR DEVICES USING FEM

NEW COURSES / PROGRAMMES INTRODUCED IN THE YEAR 2019**1. New / Modified Courses:**

S.No.	Course No.	Course Title	L	P	U
1	BITS F226	Soft Skills for Professionals	3	0	3
2	BITS F322	Venture Team Development and Organization	3	0	3
3	BITS F323	Venture Finance	3	0	3
4	BITS F324	Strategy for Entrepreneurs	3	0	3
5	BITS F325	New Product and Service Design	3	0	3
6	BITS F326	Design Thinking for Innovation & Entrepreneurship	3	0	3
7	BITS F327	Artificial Intelligence for Robotics	2	1	3
8	BITS F427	Digital Marketing	3	0	3
9	BITS F433	Supply Chain Analytics	3	1	4
10	BITS G518	Writing Seminar	3	2	5
11	CE F325	Fundamentals of Rock Mechanics	3	0	3
12	CE G563	Stochastic Methods in Civil Engineering	3	1	4
13	CE G564	Structural Health Assessment And Rehabilitation	3	1	4
14	CE G565	Transportation Planning	3	1	4
15	CE G566	Public Transportation	3	1	4
16	CE G567	Highway Design	3	1	4
17	CE G568	Traffic Systems Analysis	3	1	4
18	CE G569	Transportation Economics	3	1	4
19	CE G570	Highway Construction Technology	3	1	4
20	CE G571	Road Asset Management	3	1	4
21	CE G572	Transportation Data Analytics	3	1	4
22	CE G573	Road Safety and Accident Analysis	3	1	4
23	CE G574	Pavement Maintenance	3	1	4
24	CE G575	Freight Transportation	3	1	4
25	CHE F423	Membrane Science and Engineering	3	0	3
26	CHE F424	Rheology of complex Fluids	3	0	3
27	EEE F436	Electromagnetic Compatibility	3	1	4
28	HSS F242	Introduction to Phonology	3	0	3
29	HSS F243	Introduction to Critical Pedagogy	3	0	3
30	HSS F244	Crime and New Media	3	0	3
31	HSS F245	Gender, Science and Technology	3	0	3
32	HSS F246	Philosophy of Nāgārjuna	3	0	3
33	HSS F371	Cities-Life, Issues and Conflicts	3	0	3
34	HSS F372	Introduction to Social Psychology	3	0	3
35	HSS F373	Shakespeare and Popular Culture	3	0	3
36	HSS F374	Urban Modernity and the Renewal of Paris	3	0	3
37	HSS G511	Philosophical Foundations of Liberal Studies	3	2	5
38	HSS G512	Theoretical Approaches to Liberal Studies	3	2	5
39	MBA G543	Leading Modern Organizations	3	0	3
40	MBA G544	Organizational Theory & Behaviour	3	0	3
41	MBA G545	Management Science	3	0	3
42	MBA G546	Business Statistics	3	0	3
43	MBA G547	Accounting for Managers	3	0	3
44	MBA G548	Strategic Marketing	3	0	3
45	MBA G549	Introduction to Systems & Sustainability	3	0	3
46	MBA G550	Critical and Design Thinking	3	0	3
47	MBA G557	Economic Environment of Business	3	0	3
48	MBA G558	Operations and Supply Chain Management	3	0	3
49	MBA G559	Corporate Finance	3	0	3

S.No.	Course No.	Course Title	L	P	U
50	MBA G560	Marketing Research & Metrics	3	0	3
51	MBA G561	Business Analytics	3	0	3
52	MBA G564	Decision Making	3	0	3
53	MBA G565	Information & Knowledge Management Systems	3	0	3
54	MBA G566	Strategic Management	3	0	3
55	MBA G567	Technology Innovation & Entrepreneurship	3	0	3
56	MBA G568	International Business Strategy & Operations	3	0	3
57	MBA G576	Digital Marketing	3	0	3
58	MBA G577	Supply Chain Analytics	3	1	4
59	MBA G578	Game Theory And Business Strategy	3	0	3
60	MBA G579	Management Practice			3*
61	ME F424	Energy Management	3	0	3
62	ME F425	Additive Manufacturing	3	0	3
63	ME F426	Industry 4.0 in Manufacturing	3	0	3
64	PHY F317	Introduction to Radio Astronomy	3	0	3
65	PHY F428	Quantum Information Theory	3	0	3
66	SAN G511	Sanitation Technology	3	2	5
67	SAN G512	Sanitation and Public Health	3	2	5
68	SAN G513	Sanitation Governance, Behaviour Change and Advocacy			5*
69	SAN G514	Sanitation Financing and Project Management			5*
70	SAN G515	Emergency Sanitation and Leadership			5*

2. New / Modified Programs:

A. A new programme in M.Phil. in Liberal Studies

Name of the Program	M.Phil. in Liberal Studies
Preamble	BITS Pilani offers a number of courses at First Degree level in the areas of Philosophy, Psychology, Language, Literature, Cinema, International relations, Cultural Studies etc. to First Degree students. The Department of Humanities and Social Sciences also offers Ph. D. programme in these areas. Over the last few years the department has been working towards enhancing its capabilities in research and has been recruiting qualified faculty in these areas. The Department has been evaluating the possibility of introducing a Higher Degree programme in these areas of faculty expertise. After extensive deliberations, the Department proposes to introduce an M.Phil. program in Liberal Studies as given below. The programme is designed in such a way that it prepares students for both employment (in social sector, NGOs, and corporate sector) and/or admission to Doctoral programmes.

B. A new programme in M.E. Sanitation Science, Technology and Management

Name of the Program	M.E. Sanitation Science, Technology and Management
Preamble	Sustainable Development Goal 6 (SDG 6) focusses on Water and Sanitation and the tasks mentioned in SDG 6. Sanitation is also high on agenda of the Indian Government. Trained Postgraduate and working professionals are of high demand. Bill and Melinda Gates foundation had significantly invested in Water, Sanitation and Hygiene programme and they had funded UNESCO IHE and its 8 partners in developing e learning alliance. The foundation's investment strategy in sanitation requires qualified and trained professionals. International Water Association (IWA) is an association of water professionals around the world and they too predicted the requirement of professional capacity needs in Water and Sanitation. In partnership with the Bill & Melinda Gates Foundation, IHE Delft has launched a new Master of Science Program in Sanitation. Gates foundation through IHE, Delft would like to transfer this programme to other universities in other countries with partial funding through IHE Delft. The programme is designed in such a way that it prepares students for both employment (in social sector, NGOs, and corporate sector) and/or admission to Doctoral programmes.

C. Revision of ME Civil with specialization in Transportation Engineering Curriculum

The curriculum for ME Civil with specialization in Transportation Engineering was reviewed by experts invited from Industry and Academia that includes BITS Pilani alumni. The objective of this review was to make the courses application-oriented so that our students are industry-ready, keeping in view the future transportation scenario in India and abroad.

D. Revision of MBA Curriculum

MBA programme was started in year 2006 which was transitioned from Master of Management Studies (MMS) program. Accordingly, the MBA curriculum was formulated in 2006 at that time. It's been more than a decade, the MBA curriculum has not been updated and revised. Keeping in mind the change in trends and future requirements in market there was an urgent need to update and revise the MBA curriculum. In the meetings of Department with Vice Chancellor, BITS Pilani and Director, Pilani Campus on January 7, 2014 and April 15, 2014, upgrading the quality of MBA Program and revamping of MBA was discussed and initiated. Following which, certain initiatives were taken as introducing of Harvard cases & electives under human resource domain and department started working on MBA curriculum review. Department of management has been continuously working on to strengthen MBA curriculum for a long time.

As per recommendations received in 191st Senate meeting held on 1st October 2019, and feedback received from the experts, the curriculum has been reviewed and got approval. From August 2020, the revised curriculum of MBA will be implemented.

3. Two New Minor Programs:

S.No.	Name	Description
1.	Minor in Entrepreneurship	Entrepreneurship has tremendous impact on development of economy as well as society addressing various market & societal problems through continuous value creation in terms of innovations and job creation. The minor in entrepreneurship aims to equip students from different disciplines with better understanding of entrepreneurial process, necessary skills and experience to translate ideas into real innovative products/services to new entrepreneurial ventures. In this programme, hands-on experiential learning is emphasized giving students an opportunity to learn in a team environment, design innovative products/services and create their own businesses. This will motivate students to pursue entrepreneurship as their career choice.
2.	Minor in Robotics and Automation	This minor aims to impart specialized knowledge and skills in robotics and automation required by engineers to the current demands of various industrial sectors. Automobile, aerospace & defense, logistics engineering and factory automation companies are currently asking for engineering graduates with add-on skills in these areas. Feedback has established that several sectors of industry need the newly recruited employees with knowledge and skills in 'automation', 'robotics', and 'mechatronics'. Currently, the need of core courses of any B.E. programme of the Institute limits sufficient coverage of these topics in the existing core and hence the only way students can complement their learning with these specialized courses is through a minor programme. This minor programme has been designed by keeping that need in focus. This minor programme consists of a fairly generic core so as to be relevant to students of any discipline and a broad set of elective courses covering application of the fundamentals of robotics and automation to various industry sectors.

LIST OF FIRST DEGREE THESIS COMPLETED DURING THE YEAR 2019

II Semester 2018-19					
S.No.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
1	2014B1A10221P	SUHAIL KHAN	CONTROL AND HUMAN INTERFACE IF AN AUTOMATED HYDROPONICS PLANT.	PRABHAT N JHA	BIO
2	2014B1AB0054P	RAJARAM ARUN	PHARMACOKINETIC PHARMACODYNAMICS MODELLING AND SIMULATION OF SELECTED ANTI-MICROBIAL DRUGS	PRABHAT N JHA	BIO
3	2014B1AB0350P	YASH JAKHETE	THE CHARACTERIZATION OF HYPOTHETICAL / PUTATIVE PROTEIN FROM PLASMODIUM	SHILPI GARG	BIO
4	2014B1A30245P	RAJAT PANDEY	TUBULIN ISOLATION & EFFECT OF DIFFERENT COMPOUNDS ON TUBULIN	SHILPI GARG	BIO
5	2014B1A40847P	SAHIL TYAGI	STUDY OF CONTRIBUTION OF LIFE STYLE HABITS ON TYPE 2 DIABETES	SHIBASHISH CHOWDHURY	BIO
6	2014B1A80260P	PALASH SETHI	IN SILICO CHARACTERIZATION OF CRISPR-CAS TARGETS IN SALMONELLA	SANDHYA MARATHE	BIO
7	2014B1A20562P	AKSHAT MISHRA	BIO CEMENTATION: ISOLATION OF IDENTIFICATION OF BACTERIAL SPECIES IN LIQUEFIABLE SOIL TO IMPROVE MECHANICAL PROPERTY OF SOIL USING UREASE ENZYME ACTIVITY	VISHAL SAXENA	BIO
8	2014B1A20345P	SHIVANGI ARORA	APPLICATION OF ML/ NEURAL NETWORK TECHNIQUES	SHIBASHISH CHOWDHURY	BIO
9	2014B1A10510P	KRITI KHANDELWAL	MACHINE LEARNING FOR EPIGENETICS AND FURTHER MEDICAL APPLICATIONS	SYAMANTAK MAJUMDER	BIO
10	2014B1A10470P	NIPUN VATS	IMAGE PROCESSING USING CLASSIFICATION TECHNIQUES TO DETECT MALARIA PARASITES OR STAGES	A K DAS	BIO
11	2014B1A40552P	SAHIL SHARMA	MOSQUITO HABITAT PREDICTION	VISHAL SAXENA	BIO
12	2014B1TS0169P	ANURAG	DESIGN ACTIVITIES AND OTHER INITIATIVES TO INVOKE ENVIRONMENTAL AWARENESS IN COMMUNITY.	PANKAJ K SHARMA	BIO
13	2014B1A20655P	SANYUKTA SINGHAL	CHARACTERIZATION OF HIGH TEMPERATURE TOLERANT MUTANTS IN CROP PLANTS	B. VANI	BIO
14	2014B1A30373P	RACHIT AGARWAL	EFFECT OF HIGH GLUCOSE ON PANCREATIC CANCER CELLS	RAJDEEP CHOWDHURY	BIO
15	2014B1A10846P	AYUSH GUPTA	ANALYSIS OF ANTOPHAGY PROTEINS IN UNINFECTED AND INFECTED RBCS	VISHAL SAXENA	BIO
16	2014B1A10492P	AESHVARYA MITTAL	STUDYING OF EFFECT OF DIFFERENTIAL HEMODYNAMICS ON EPIGENETIC MECHANISM OF ENDOTHELIAL INFECTION	SYAMANTAK MAJUMDER	BIO
17	2014B1AB0777P	KEERTI P	ANALYSIS & DATE MEANING OF BY HUB GENES FROM A TRANSCRIPTOMIC NETWORK	A K DAS	BIO
18	2014B1A20347P	MARAMREDDY RAHUL REDDY	MOLECULAR DYNAMICS SIMULATIONS OF MI-RNA	SHIBASHISH CHOWDHURY	BIO
19	2014B1AB0058P	ATUL JALA	DESIGN & DATA ACQUISITION OF AN AUTOMATED HYDROPONICS PLANTS	PRABHAT N JHA	BIO

II Semester 2018-19					
S.No.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
20	2015B1TS0977P	HARSHITA VERMA	METABOLIC EFFECT OF APICOPLAST MEDIATED DELAYED DEATH IN TOXOPLASMA GONDII	DHANASEKARAN SHANMUGAM	BIO
21	2014B1A80472P	MIHIR DESHMUKH	DEEP LEARNING OF DIABETIC RETINOPATHY & OTHER RELATED PATHOLOGIES	CHANDRA SEKHAR SEELAMANTULA	BIO
22	2014B1A10422P	STUTI MAHESHWARI	USING DEFORMABILITY CYTOMETRY FOR STUDYING MECHANICAL PROPERTIES OF VARIOUS CELLS & THEIR RESPONSE TO COMMERCIAL DRUGS	PROSENJIT SEN	BIO
23	2014B5A20872P	ROUNAK S SURANSHE	STATIC AND DYNAMIC RESPONSE OF TRIP-CHIP REINFORCED SOIL AND WASTE MINE PRODUCTS	RAVIKANT MITTAL	CE
24	2014B3A20741P	ASHIMA AILWADI	EARTHQUAKE ANALYSIS OF BUILDINGS WITH WALL STIFFNESS	DIPENDU BHUNIA	CE
25	2014B2A20150P	ABSHISHEK SINGH	PREDICTIVE MODELING OF BUILDING FIRE RISKS	G MUTHUKUMAR	CE
26	2015A2PS0510P	ADITYA CHOUDHARY	SOLID WASTE MANAGEMENT OF A METROPOLITAN	ANUPAM SINGHAL	CE
27	2014B4A20610P	NAVANDAR VEDANT SHRIHARI	DESIGN AND ANALYSIS OF A NET ZERO ENERGY BUILDING	DIPENDU BHUNIA	CE
28	2014B4A20558P	ROHIT GUPTA	ANALYSIS OF CEMENT CHARACTERISTICS UPON CHANGES IN QUALITY OF FLY ASH WITH CONCRETE IN CEMENT.	DIPENDU BHUNIA	CE
29	2014B2A20692P	TANMAY JAISWAL	STRESS SENSOR USING AGGREGATION INDUCED EMISSION ACTIVE MECHANOLUMINESCENCE MATERIAL FOR STRUCTURAL HEALTH MONITORING	DIPENDU BHUNIA	CE
30	2014B2A20806P	ADITYA SHARMA	ASSESSMENT OF NON POINT SOURCE OF POLLUTION IN GANGA RIVER BASIN	AJIT PRATAP SINGH	CE
31	2015A2PS0812P	DHANANJAY NAHATA	MACHINE LEARNING APPLICATION IN CIVIL ENGINEERING	G MUTHUKUMAR	CE
32	2015A2PS0779P	PADIGAPUTI SAI KUCHANA REDDY	FIRE RESISTANCE OF STRUCTURES AND ANALYSIS FOR STRUCTURAL STRENGTH OF STRUCTURES UNDER FIRE FOR A GIVEN TIME PERIOD.	SHAMSHER BAHADUR SINGH	CE
33	2014B1A10297P	UMANG GARG	TREATMENT OF WASTE WATER BIO FILTRATION	SURESH GUPTA	CHE
34	2014B3A10709P	ASHIT SHRIVASTAVA	DEEP CONVOLUTIONAL NEURAL NETWORK MODEL BASED CHEMICAL PROCESS FAULT DIAGNOSIS.	AJAYA KR. PANI	CHE
35	2015A1TS0509P	ANINDYA SEN	OPTIMAL DESIGN OF PAPER-BASED BIOSENSOR FOR ENHANCED CAPTURE OF ANTIGENS.	ARVIND KR. SHARMA	CHE
36	2014B1A10636P	SHARAD YADAV	BIOMITIGATION STUDIES OF FLUE GASES USING ALGAE.	SMITA RAGHUVANSHI	CHE
37	2014B2A10888P	KREETI JHA	EXTRACTION STUDIES OF PRODUCTS OBTAINED FROM BIOMITIGATION OF CO2.	SMITA RAGHUVANSHI	CHE
38	2015A1PS0372P	RAHUL DASWANI	CONVENTIONAL METHODS OF PETROLEUM DEMOTIALIZATION AND UPGRADATION TECHNOLOGIES.	PRIYA C SANDE	CHE
39	2015A1TS0722P	P. ABHINAV	CHEMICAL ENGINEERING, USING MICROFLUIDIC DEVICES TO STUDY RESPONSE OF SIGNALS ON CELLS.	A JAYARAMAN	CHE

II Semester 2018-19					
S.No.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
40	2015A1PS0768P	SAHIL DESAI	DEVELOPMENT OF NUMERICAL DYNAMIC AND ONE DIMENSIONAL REACTOR MODEL FOR THE ELECTROLYSIS OF HYDROGEN CHLORIDE TO CHLORINE.	ING.TANJA VIDA KOVIC-KOCH	CHE
41	2015A1PS0561P	RAGHAVENDRA NIMI WAL	NUMERICAL SIMULATION OF EXPLOSIONS AND FLUID STRUCTURE INTERACTION	MICHEL ARRIGONI	CHE
42	2014B2A80410P	VAIBHAV TAYAL	DEVELOPMENT OF WEB BASED TOOLS FOR CHEMISTRY LAB.	BHARTI KHUNGAR	CHEM
43	2014B2A10019P	NIKHIL SANGHI	DEVELOPMENT OF INTEGRAL LIBRARIES FOR ELECTRONIC STRUCTURE PROGRAMS.	PRASHANT U MANOHAR	CHEM
44	2014B2A10309P	KUNAL SHARMA	DEVELOPMENT OF INTEGRAL LIBRARIES FOR ELECTRONIC STRUCTURE PROGRAMS.	PRASHANT U MANOHAR	CHEM
45	2014B2A10616P	VISHAL MISHRA	SOLID STATE IONIC CONDUCTION STUDIES OF ALKALI METAL ION- IONIC LIQUID SILICA COMPOSITES PREPARED THROUGH SOL-GEL PROCESS.	S C SIVASUBRAMANI AN	CHEM
46	2014B2A10618P	HARSHA PANDA	IRO NANOMATERIALS FOR HER AND OER APPLICATIONS.	SUROJIT PANDE	CHEM
47	2014B2A10828P	ABHISHEK BHARDWAJ	CATALYTIC APPLICATION OF METAL COMPLEXES.	BHARTI KHUNGAR	CHEM
48	2014B2A30156P	SAMARTH SHARMA	SYNTHESIS AND CHARACTERIZATION OF SOME NITROGEN CONTAINING HETEROCYCLIC DERIVATIVES AS ANTI ALZHEIMER'S DRUGS.	PARITOSH SHUKLA	CHEM
49	2014B2A40133P	ANIKET AGRAWAL	DESIGN AND SYNTHESIS OF AGGREGATION INDUCED EMISSION MECHANOLUMINESCENT MATERIALS FOR STRUCTURAL HEALTH MONITORING.	INAMUR R LASKAR	CHEM
50	2014B2A40875P	NIRMIT GUPTA	CATALYTIC STUDY OF C-C BOND REACTION USING METAL CATALYST.	BIBHAS R SARKAR	CHEM
51	2014B2A70358P	AMAN GUPTA	SYNTHESIS OF SCHIFF BASED LIGANDS CONTAINING SUGAR AND THEIR METALLO-CHEMISTRY.	AJAY KR. SAH	CHEM
52	2014B2A80057P	CHINMAY UDAR	STUDY OF INORGANIC MATERIALS	MADHUSHREE SARKAR	CHEM
53	2014B2A80535P	DHRUV PANDIA	EXPLOSIVE SENSING BY AGGREGATION INDUCED EMISSIVE MATERIALS.	INAMUR R LASKAR	CHEM
54	2014B2A80584P	ANUKRITI GUPTA	TACRINE DERIVATIVES AS NEW CHEMICAL ENTITIES AGAINST NEUROLOGICAL DISORDERS SYNTHESIS AND CHARACTERIZATION.	PARITOSH SHUKLA	CHEM
55	2014B2A80737P	JAYSHIL JOSHI	CATALYSIS DRIVEN B HOST-GUEST SYSTEMS.	SAUMI RAY	CHEM
56	2014B2AB0176P	SATVIR ADASH PRAWEEEN KUMAR	STUDIES IN TRANSFER HYDROGENATION USING TRANSITION METAL CATALYSTS.	BIBHAS R SARKAR	CHEM
57	2014B2AB072P	DEEPANSHU GURNANI	LIFE CYCLE ASSESSMENT (LCA) OF CHEMICAL PROCESSES. LCA IS A TOOL/METHOD TO IDENTIFY THE IMPACT OF A PRODUCT, OR ACTIVITY ON THE ENVIRONMENT THROUGHOUT ITS LIFECYCLES.	BHARTI KHUNGAR	CHEM
58	2013B5PS0769P	PRADEEP KUMAR	GROUND WATER FLOW MODELING USING MODFLOW IN SHEKHAWATI REGION OF RAJASTHAN.	BHARTI KHUNGAR	CHEM
59	2014B2A70885P	TUSHAR DHALWANI	DEEP LEARNING FOR VISUAL	KAMLESH	CSIS

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S.No.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
			SCENE UNDERSTANDING	TIWARI	
60	2014B3A70640P	HARSH GOYNKA	FEATURE MINING AND CLASSIFICATION OF SENTIMENTAL OPINION USING NLP & MACHINE LEARNING ALGOS	VAIBHAV SONI	CSIS
61	2014B4A70805P	DAKSHESH MEHTA	APPLICATION OF BLOCK CHAIN TECHNOLOGY IN REAL LIFE SCENERIO	AMIT DUA	CSIS
62	2014B5A70779P	HARSHITA GOYAL	IMPLEMENTATION OF A PARALLEL ALGORITHMS FOR DE-NOVO WHOLE GENOME ASSEMBLER	POONAM GOYAL	CSIS
63	2014BSA70681P	SHETGAONKAR HRISHIKESH DIGAMBAR	QUANTUM COMPUTING	ABHISHEK MISHRA	CSIS
64	2015A7PS0005P	SAIKRISHNA KONDAMEEDI	STOCHASTIC DEMAND RESPONSE MANAGEMENT OF SMART GRID USING LATTICE-BASED CRYPTOGRAPHY	AMIT DUA	CSIS
65	2014B1A70213P	RICHA PATEL	MAKING TECHNICAL DIAGRAMS ACCESSIBLE TO VISUALLY IMPARED PEOPLE	GOPAL SRINIVASA	CSIS
66	2014B1A70319P	SATWIK BHATTAMISHRA	NATURAL TO FORMAL LANGUAGE TRANSLATION	NAVIN GOYAL	CSIS
67	2014B4A70530P	GOVIND MITTAL	SECURITY EVALUATIONS OF SMART CITY ENVIRONMENT	NASIR MEMON	CSIS
68	2014B4A70821P	AMRIT KOCHAR	DEEP LEARNING TECHNIQUES TO ENHANCE ROBOTIC APPLICATIONS FOR A COGNITIVE GRASPING	CRISTINA CRISTALLI	CSIS
69	2014B4A70867P	KARAN MAKHIJA	TEXT IMPUTATION USING RECURRENT NEURAL NETWORKS	CHNG ENG SIONG	CSIS
70	2014B5A70833P	ANUBHAV GARG	NEURAL ARCHITECTURE SEARCH AND HYPERPARAMETER TUNING	XINYUAN HUANG	CSIS
71	2014B5A70849P	NAMAN JAIN	KEYWORD GENERATION FROM URL NLP, DEEP LEARNING	MAYUR GAJABI	CSIS
72	2015A7PS0042P	VIKRAM NITIN	DEEP LEARNING FOR NAURAL LANGUAGE PROCESSING	PARTHA PRATIM TALUKDAR	CSIS
73	2015A7PS0057P	FAUZAN ZAID	DEEPT LEARNING APPROACH FOR ACTIVITY RECOGNITION IN SURGICAL VIDEOS	NICOLAS PADOY	CSIS
74	2015A7PS0068P	SAMEER JAIN	MORPHOLOGICAL SEGMENTATION USING SEQUENCE TO SEQUENCE METHODS	TANJA SAMARDŽIĆ	CSIS
75	2015A7PS0069P	ANMOL SINGHAL	ANOMALY ACTION DETECTION IN SURVEILLANCE VIDEOS	ALEX KOT	CSIS
76	2015A7PS0078P	NAVEEN VENKAT	UNSUPERVISED DOMAIN ADAPATION: AN ONLINE LEARNING SCENARIO	R. VENKATESH BABU	CSIS
77	2015A7PS0081P	ANIRUDH KRISHNA L	PATH OPTIMIZATION FOR RECONFIGURABLE CLEANING ROBOTS USING DEEP REINFORCEMENT LEARNING	MOHAN RAJESH ELARA	CSIS
78	2015A7PS0088P	PARTHO SARTHI	SCALABLE AND MAINTAINABLE STRUCTURE EXTRACTION	SURESH PARTHASARTHI	CSIS
79	2015A7PS0109P	RAJAT PRINCE THAKUR	COMPUTER VISION, DEEP LEARNING MODELING OF MUSCLE DRIVEN ACTIVATIONS IN HUMANS	SERGI PUJADES	CSIS
80	2015A7PS0163P	RAHUL CHAND	SELF SUPERVISED DEPTH MAP OUTPAINTING UISNG 3D SCENE	VENKATESH BABU	CSIS
81	2015A7TS0090P	ANVITA SRINIVAS	A DEEP LEARNING APPROACH FOR OBJECT TRACKING IN THE OPERATING ROOM	NICOLAS PADOY	CSIS
82	2014B3A10703P	VAIBHAV S SINHA	ENERGY ECONOMICS & POLICY OF INDIA	A K GIRI	ECO FIN
83	2014B3A20693P	SOUMIL GUPTA	COMPOSITE STRUCTURES	N V M RAO	ECO FIN
84	2014B3A30426P	YASH JOSHI	MICRO FINANCE'S IMPACT ON	A K VAISH	ECO FIN

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S.No.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
			POVERTY IN RURAL INDIA		
85	2014B3A30727P	SAYLEE M KANADJE	BEHAVIOURAL FINANCE	ARYA KUMAR	ECO FIN
86	2014B3A40592P	VYANKATESH S MARATHE	HIGHER EDUCATION MICROECONOMICS ANALYSIS	A K VAISH	ECO FIN
87	2014B3A80539P	DHIREN GOYAL	CASHLESS ECONOMY IN INDIA	A K VAISH	ECO FIN
88	2014B4A70428P	JAI AGARWAL	GANS FOR NOISY SIGNAL ENHANCEMENT	CHNG ENG SIONG	EEE
89	2014B1A70408P	ADITYA CHAUHAN	COMPUTER BASED ANALYSIS OF GEET PROBES FOR PATHOGEN DETECTION	DHEERENA SINGH	EEE/INST R
90	2015A8TS0337P	RAVEESH GARG	PROCESSOR ARCHITECTURE OF DEEP LEARNING/BIG DATA FOR COMPUTER VISION APPLICATIONS	CHANDRA SHEKHAR	EEE/INST R
91	2015A8PS0323P	MANAS GUPTA	HIGH BITRATC TELEMETRY SUBSYSTEM FOR A 10KG. CLASS NANASATELITE.	SAINATH BITRAGUNTA	EEE/INST R
92	2015A3TS0148P	GARVIT SHARMA	IOT BASED SMART ENVIRONMENT.	V K CHABUEY	EEE/INST R
93	2014B4A30754P	ARJUN GUPTA	3D DOMAIN ADAPTATION FOR OBJECT DETECTION	K K GUPTA	EEE/INST R
94	2014B5A30706P	SHREY D SHAH	PREVENTION OF SPOOFING IN FACIAL IDENTIFICATION USING MACHINE LEARNING AND NEURAL NETWORKS	SUREKHA BHANOT	EEE/INST R
95	2015A3PS0268P	PRASAD CHANDRASHEKHAR DESHMUKH	STOCHASTIC COMPUTING AND NEURAL NETWORK	ABHIJIT ASATI	EEE/INST R
96	2015A8TS0413P	SHRIJA MAJUMDER	BIOMETRIC SYSTEM DESIGN	PAWAN KUMAR AJMERA	EEE/INST R
97	2015A3TS0020P	BILWASIVA BASE MALLICK	BRAIN COMPUTER INTERFACE & ITS APPLICATIONS IN REAL TIME SYSTEMS	VINAY CHAMOLA	EEE/INST R
98	2014B2A30500P	BRAHMKEESHWAR SHUKLA	DEEP LEARNINIG BASED INTERFERENCE CANCELLATION SCHEMES FOR MIMO WIRELESS COMMUNICATION	S M ZAFARUDDIN	EEE/INST R
99	2015A3TS0178P	SIDDHANT GANGWAL	MODELLING AND DESIN OF ADAVANCE CMOS CIRCUITS FOR ARTIFICIAL INTELLIGENCE	ANU GUPTA	EEE/INST R
100	2014B5A30850P	RAJA SHUKLA	5G CELLULAR NETWORKS	VINAY CHAMOLA	EEE/INST R
101	2014B4A80810P	SIDDHANT NARULA	BUISNESS APPLICATIONS OF IOT	VINAY CHAMOLA	EEE/INST R
102	2014B1A30284P	SURBHIT JOHRI	FABRICATION & CHARACTERIZATION OF G-FET BASED BIO SENSOR	DHEERENA SINGH	EEE/INST R
103	2014B2A80349P	TUSHAR KAUSHIK	HARDWARE IN LOOP STUDIES ON SLIDING MODE CONTROL	ANKUSH CHANAKANT	EEE/INST R
104	2014B3A80721P	RISHABH SAXENA	STADY OF BIOMETRICS INDEXING ALGRITHM	K K GUPTA	EEE/INST R
105	2014B5A30882P	ABHINAV GUPTA	REAL TIME IMPLEMENTATION OF AN ISOLATED GRID .	H D MATHUR	EEE/INST R
106	2014B3A80545P	TEJA VARDHAN	FSILURE ANALYSIS OF INSTRUMENT BASED ON ML	K K GUPTA	EEE/INST R
107	2015A8TS0334P	SHRADDHA MASLEKOR	(POWER SYSTEMS) TRANSMISSION AND CONVERSION OF ENERGT IN ELECTRICAL MACHIES & POWER SYSTEMS	TOMISLAV DRAGICEVIC	EEE/INST R
108	2014B1A80899P	ANSHUMALA BALU	DEVELOPMENTS OF EXPERIMENTAL AND COMPUTATIONAL TOOLS FOR TIME RESOLVED FLUORESCENCE TOMOGRAPHY	ANAND KUMAR	EEE/INST R
109	2015A3TS0213P	ANUBHAV SACHAN	BROADBAND EXCITATION OF ACOUSTIC DUCTS (SIGNAL PROCESSING)	CHEN-JER MING	EEE/INST R

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S.No.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
110	2015A3TS0087P	PENTA SRUJAN	GAN BASED HIGH ELECTRON MOBILITY TRANSISTORS	ASSOC PROF K. RADHAKRISHNAN	EEE/INSTR
111	2015A3TS0271P	ARKID KALYAN BERA	HARDWARE IMPLEMENTATION OF MACHINE LEARNINGRING IMPLEMENTATION(VERILOG) AND SYNTHESIS (SYNOPSISYS DESIGN COMPILER) OF KOHOMEN SELF-ORGANIZING MAO; IMPLEMENTATION OF OTHER MACHINE LEARNING ALGORITHMS	HUSSAM AMROUCH	EEE/INSTR
112	2015A3PS0062P	ABHINAV BHANSALI	USE OF SILICON CARBIDE FOR HARSH ENVIRONMENT ELECTRONICS.	SHIN-ICHIRO-KUROKI	EEE/INSTR
113	2015A3TS0231P	MOHIT GARG	ACES: ANOMALY CLASSIFICATION FOR EMBEDDED SYSTEM.	SIEW KEI LAM	EEE/INSTR
114	2015A8TS0310P	LAVANYA K	EMBEDDED SYSTEM CONTROL OF RECONFIGURABLE ROBOTS	MOHAN RAJESH ELARA	EEE/INSTR
115	2014B2A30153P	KARTHIK SURESH	FABRICATION OF GRAPHENE HBN HETEROSTRUCTURES WITH SUPEXCONDUCTING CONTACTS.	JAYANTA SARKAR	EEE/INSTR
116	2014B1A30632P	ANUBHUTI MISHRA	IMAGING AND NEURAL NETWORKS	REINHARD SCHNEIDER	EEE/INSTR
117	2015A8TS0301P	RAJAT KHANDELWAL	CHARACTERIZATION OF THIN-FILM ON SILICON TANDEM SOLAR CELLS	SERENA LIN FEN	EEE/INSTR
118	2014B1A30455P	RICHA MISHRA	GENERATIVE ADVERSARIAL NETWORKS FOR SKELETON MODELLING OF RATS. I WILL BE USING CT-SCAN AND X-RAY IMAGE TO DO AN IMAGE TO IMAGE TRANSLATION FROM A MODEL OF A RAT TO A SKELETON MODEL. WE PLAN ON USING BICYCLEGANS FOR THE SAME.	SILVIA ZUFFI	EEE/INSTR
119	2015A3TS0137P	MOHIT PADHYE	JOINT DATA SENSING AND ANALYSIS FOR FAST MEDICAL TESTS (SMART SENSORS)	CHEN-YI LEE	EEE/INSTR
120	2015A8PS0488P	MAYANK RAJ	NATURAL LANGUAGE PROCESSING AND DEEP LEARNING FOR REGIONAL LANGUAGE PROCESSING	LU WEI	EEE/INSTR
121	2015A3PS0186P	TUSHAR GOYAL	OPEN SOURCE SOFTWARE FOR SPACE OBJECT MODELLING AND SIMULATION	MORIBA JAH	EEE/INSTR
122	2015A8TS0336P	GARV SHARMA	IMAGE PROCESSING	IDAKU ISHII	EEE/INSTR
123	2015A8TS0486P	SAHIL GUPTA	ADVANCED DRIVER ASSISTANCE SYSTEM	ANTONIO LOPEZ PENA	EEE/INSTR
124	2015A3TS0276P	AAKRITI AGRAWAL	A DEEP LEARNING APPROACH FOR HUMAN POSE ESTIMATION IN RGBD SURGICAL VIDEOS	NICOLS PADOY	EEE/INSTR
125	2015A8T0666P	ROHITLUMAR ARASANIPALAI	MACHINE LEARNING FOR ELASTICITY IMAGING IN BIOLOGICAL SOFT TISSUE.	NICOLS PADOY	EEE/INSTR
126	2014B5A30858P	SUMIT GODARA	CINEMATIC TECHNIQUES IN FLIMMAKING (GENRE-THRILLER)	DEVIKA	HSS
127	2014B4A10738P	HARSHIL BHATT	COMPARATIVE STUDY OF INDIAN STOCK PRICE BY TIME FORECASTING PERSPECTIVE AND NEW SENTIMENT ANALYSIS APPROACH	SUMANTA PASARI	MATH
128	2014B4A10804P	SHIVAM ANAND	MATHEMATICAL MODELLING	B K SHARMA	MATH
129	2014B4A20758P	GADEKAR SACHIN APPASAHEB	MATHEMATICS OF CLIMATE CHANGE	SUMANTA PASARI	MATH
130	2014B4A30502P	HEMANT KUMAR	APPLICATION OF THE RADIAL	DEVENDRA	MATH

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S.No.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
			BASIS FUNCTIONS FOR THE NUMERICAL SOLUTIONS FOR PDE'S	KUMAR	
131	2014B4A30542P	BANDARU MOKSHAGNYA	TWO FLUID MODEL OF BLOOD FLOW USING NUMERICAL TECHNIQUES AND NON-NEWTONIAN FLUID FLOW THROUGH A CURVED TUBES	ASHISH TIWARI	MATH
132	2014B4A30642P	IMITESHWAR SINGH BENIPAL	PORTFOLIO OPTIMIZATION	RAKHEE	MATH
133	2014B4A30731P	NAYAN GUPTA	PORTFOLIO OPTIMIZATION OF VOLATILE MARKET USING NEURAL NETWORKS	C B GUPTA	MATH
134	2014B4A40657P	SHUBHAM GARG	DECISION THEORY IN SUPPLY CHAIN MANAGEMANT	CHANDRA SHEKHAR	MATH
135	2014B4A70727P	NAMAN UDASI	ALGEBRAIC CODING THEORY	P H KESKAR	MATH
136	2014B4A80512P	PIYUSH RANJAN	MODELLING OF FLUID FLOW	B K SHARMA	MATH
137	2014B4A80785P	UTKARSH SIRPURKAR	A LITRATURE SURVEY OF FLOOR PLANNING PROBLEMS USING GRAPH THEORITIC APPROACH	KRISHNENA SHEKHAWAT	MATH
138	2014B4A80801P	RASAL KUMAR	COMPUTATIONAL FLUID DYNAMICS	B K SHARMA	MATH
139	2014B4AB0588P	K MOTHEESH	SUPPLY CHAIN PERFORMANCE EVALUATION USING DEA	SHIVI AGARWAL	MATH
140	2014B4AB0808P	VIBHAV ANAND	INVESTIGATION OF EFFECT OF COMPONENT COMMONALITY ON STOCHASTICALLY VARIABLE PRODUCT DEMAND THROUGH SUPPLY CHAIN SIMULATIONS	CHANDRA SHEKHAR	MATH
141	2014B4A80757P	C PRANAY REDDY	APPLICATIONS OF NUMBER THEORY	ASHISH TIWARI	MATH
142	2014B4A40567P	ASHWIN GUPTA	SUPPLY CHAIN MANAGEMENT	RAKHEE	MATH
143	2014B4A70637P	V GAUTHAM	IMAGE RECONSTRUCTION AND COMPARISION FOR FORENSIC FOOTWEAR ANALYSIS	MARTIN HERMAN	MATH
144	2015B4PS0451P	AWAIS AHMED	A STUDY OF ELLIPTIC BOUNDARY VALUE PROBLEMS	GAURAV DWIVEDI	MATH
145	2014B4A40812P	RISHABH GUPTA	STUDY ON FAILURE ANALYSIS TECHNIQUES FOR RELIABILITY AVAILABILITY MAINTAINABILITY AND SAFETY (RAMS) MODELING.	RAJESH P. MISHRA	ME
146	2014B4AB0507P	NIKHIL BIYANI	DESIGN & DEVELOPMENT OF MCDM MODULO BASED SOFTWARE FOR APPLICATION IN MANUFACTURING INDUSTRIES.	ABHIJEET K. DIGALWAR	ME
147	2014B2A40611P	SIMANTINI HUCHCHE	DESIGN OF SUPPLY CHAIN MANAGEMENT FOR VALUE ADDED PRODUCTS	GIRISH KANT	ME
148	2014B5A40866P	AKASH SHARMA	TOWARD MULTI-SPACECRAFT PLANETARY EXPLORATION: ADAPTING MUTUAL IMPEDANCE EXPERIMENTS TO NANOSATELLITES	BIJOY KUMAR ROUT	ME
149	2014B4A40641P	SRISHTI GOEL	EFFECT OF SKIN FRICTION WITH RESPECT TO VARIOUS MATERIALS DUE TO NORMAL FORCE, SLIDING SPEED AND HUMIDITY	SHARAD SHRIVASTAVA	ME
150	2014B4A40778P	NIHAL CHANDAK	MODELING AND SIMULATION OF SKIN FRICTION ON VARIOUS MATERIALS	SHARAD SHRIVASTAVA	ME
151	2014B4AB0819P	DIVYANSH MALHOTRA	IMPLEMENTATION OF LEAN AND IN SEGMENT PRINCIPLES IN THE SUPPLY CHAIN OF A COMPANY THAT IS NEWLY SELLING UP IN INDIA	ABHIJEET K. DIGALWAR	ME
152	2014B1AB0823P	SALONI SINHA	LIFE CYCLE ASSESSMENT OF A 3-	PRATEEK KALA	ME

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S.No.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
			D PRINTING PROCESS		
153	2015ABPS0790P	SIDDARTHA IDUKUDA	ENGINEERING EDUCATION IN INDIA JOINT INDO-GERMAN EXPERIENCE LAB.	K.S.SANGWAN	ME
154	2015ABPS0879P	TANMAY SANJAY DALARE	DESIGN & DEVELOPMENT OF MCDM MODELS BASED SOFTWARE FOR APPLICATION IN MANUFACTURING INDUSTRIES.	ABHIJEET K. DIGALWAR	ME
155	2015A4TS0371P	BHARATH R. NAIR	DEVELOPMENT OF SMART ROBOTIC SKIN WITH EMBEDDED COGNITION AND PERCEPTION	RICHARD M. VOYLES	ME
156	2014B1A40764P	PRIYAM SHRIKANT AMBASTHA	MICRO FLUIDIC HUMAN ORGAN-ON-CHIPS	RACHELLE PRANTIL-BAUN	ME
157	2015ABTS0641P	M. AVADESH	DEVELOPING CONTROL ALGORITHMS TO CREATE DYNAMIC BEHAVIORS ON A CUSTOM MADE QUADRUPED	LLUDOVIL RIGHETTI	ME
158	2014B5A4815P	SANAA AGARWAL	NON-LINEAR DYNAMICS AND CHAOS, AND ITS APPLICATIONS.	MANAS KULKARNI	ME
159	2014B3A40581P	RISHABH JAIN	LEAN AND INDUSTRY 4.0 ASSESSMENT OF PRODUCTION LINE AT ASTRON BUILDINGS S.A.	ROBERT FRANCOIS	ME
160	2015A4PS0294P	JAI AGARWAL	SENSORS AND ACTUATORS FOR SOFT ROBOTICS	PABLO VALDIVIA ALVARADO	ME
161	2014B4A40694P	DIVYANSHU GOYAL	SUPPLY CHAIN	SATYENA KR. SHARMA	MGTS
162	2014B3A10747P	SAMEER KUMAR SINGH	MARKETING/ENTREPRENEURSHIP- LAUNCHING A B2C PRODUCT/SERVICE IN A MARKET AND DOCUMENTING THE IMPORTANT STEPS	PRAVEEN GOYAL	MGTS
163	2014B3A20690P	GARGI GUPTA	SUPPLY CHAIN SUSTAINABILITY	STYENA KUMAR SHARMA	MGTS
164	2014B3A30723P	ADITYA AGARWAL	APPLICATIN OF MACHINE LEARNING IN SUPPLY CHAIN MANAGEMENT	SATYENA KUMAR SHARMA	MGTS
165	2014B3A80660P	ANJUL MISHRA	E-WASTE MANAGEMENT IN INDIA	SATYENA KUMAR SHARMA	MGTS
166	2014B3A80697P	ADITYA SARASWAT	EVALUATION OF BARRIERS IN DEVELOPMENT OF PRIVATE/PUBLIC SECTOR USING FUZZY LOGIC	PRAVEEN GOYAL	MGTS
167	2014B3A80707P	MAYUR KRISHNA GUPTA	AN EMPIRICAL STUDY AND ANALYSIS ON PERFORMANCE OF IPOS IN INDIA	RAJAN PANDEY	MGTS
168	2015A5TS0954P	VEDHANT KAUL	DESIGN, CHARACTERIZATION AND SCALE UP OF CUCUMIN LOADED LIPID NANO-CARRIER USING QUALITY BY DESIGN APPROACH	GAUTAM SINGHVI	PHA
169	2015A5TS0921P	SUBHAM CHOUDHARY	PHYTOCHEMICAL INVESTIGATION OF SELECTED INDIAN MEDICINAL PLANTS	ATISH T PAUL	PHA
170	2015A5TS0923P	SHRIYANSH SRIVASTAVA	PANCREATIC LIPASE INHIBITORS OF NATURAL ORIGIN	ATISH T PAUL	PHA
171	2015A5TS0956P	GOUTAM ADITYA	MODELING AND SYNTHESIS OF NEWER AGENTS FOR ANTITUBERCLOSIS	MURUGESAN S	PHA
172	2015A5TS0908P	SHRUTI SHAH	DEVELOPMENT AND EVALUATION OF DRUG/MRNA LOADED NANO-CARRIER FOR TREATMENT OF GLOBLASTOMA MUTIFORMA	DEEPAK CHITKARA	PHA
173	2015A5TS0943P	KRISHNA CHAITANYA M	DISSOLUTION ENHANCEMENT OF POORLY SOLUBLE DRUGS	M M PANDEY	PHA
174	2015A5TS0949P	NIKHITA ANAND	DECIPHERING HEPATOCYTES DEATH IN FATTY LIVER DISEAS	JULIE ANDERSON	PHA
175	2015A5TS0896P	SIDDARTH UPPAL	MEHANOBIOLOGY OF STEM CELLS	HENRY YU	PHA

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S.No.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
176	2015A5TS0938P	PUNEET PAREEK	EXPLORING THE SYNAPTIC MECHANISMS OF SUBCORTICAL AND CORTICAL INTERACTION	PROF. PETER SOMAGYI	PHA
177	2015A5PS0925P	PUNIT HARISH BATRA	BIODEGRADABLE POLYMER AND THEIR COMPOSTING: AN ALTERNATIVE COMPOUND TO SINGLE USE POLYMER	MR.AKSHAY VARMA	PHA
178	2014B5AB0596P	AJAY NATHAWAT	APPLICATION OF ELECTROMAGNETIC THEORY	J N BANDYOPADHYA Y	PHY
179	2014B5A80876P	UDYAN MAHAJAN	ELECTRO-PHOTON INTERACTION IN LENGTH, VELOCITY	RAKESH CHOUBISA	PHY
180	2014B5A40799P	NAMAN MISHRA	SENSING THROUGH QUARTZ CRYSTAL	MANJULADEVI V	PHY
181	2014B5A40825P	ADITYA JOSHI	ELECTRON PHENON INTERACTION IN SOLIDS FOR ALL DIMENSIONALITIES	RAKESH CHOUBISA	PHY
182	2014B5A10881P	NITIN MANKANI	DFT STUDY OF HYBRID-NANOCLUSTERS	DEBASHIS BANDYOPADHYA Y	PHY
183	2014B5A80864P	UTKARSH JAIN	DFT STUDY OF NANOCCLUSERS	DEBASHIS BANDYOPADHYA Y	PHY
184	2014B5A30600P	PRABHAT KUMAR SINGH	DFT STUDY OF NANOTUBES	DEBASHIS BANDYOPADHYA Y	PHY
185	2014B5A40565P	A ANANTHRAMAN	SENSING FOR ENVIRONMENTAL MONITORING	MANJULADEVI V	PHY
186	2014B5A80848P	ASHISH BANSAL	STUDY OF NEUTRINO HURARCHICAL PROBLEM	MADHUKAR MISHRA	PHY
187	2014B5A40564P	SANGEET SOURAV SUNDER ROY	LASER PROPOGATION IN CYLINDRICAL PLASMA	AMOL HOLKUNDKAR	PHY
188	2014B5A40860P	AKSHAY KATTA	DENSITY FUNCTIONAL THEORY BASED STUDY OF NANO CLUSTERS AND NANOTUBES	DEBASHIS BANDYOPADHYA Y	PHY
189	2014B5A30822P	ADIT AGGARWAL	DENSITY FUNCTIONAL THEORY BASED STUDY OF NANO CLUSTERS AND NANOTUBES	DEBASHIS BANDYOPADHYA Y	PHY
190	2014B5A80841P	CHIRAG KHATRI	STUDY ON DEBYE SCREENING IN QED PLASMA AND ITS IMPLICATION	MADHUKAR MISHRA	PHY
191	2014B5A20827P	PRATEEK BHUTANI	HIGH ENERGY PHYSICS AND HIGH ENERGY SOLLISIONS	MADHUKAR MISHRA	PHY
192	2014B5A30752P	SHUBHAM GUPTA	HYDRODYNAMICS OF THE QUARK-GLUON PLASMA	MADHUKAR MISHRA	PHY
193	2014B5A10845P	RAGHAV SHARMA	A GALA BASED STUDY OF STAR CLUSTERS	KAUSHAR VAIDYA	PHY
194	2015B5TS0209P	ADITYA VASWANI	MATHEMATICAL PHYSICS -SOME STUDIES IN ERGODICITY IN STOCHASTIC MODELS	T G SARKAR	PHY
195	2014B5A30514P	SMRITI SHARMA	CLASSICAL FIELD THEORY: A SYMETRY APPRAISAL	RISHIKESH VAIDYA	PHY
196	2014B5A10874P	PRANATI JAIN	QUANTUM FIELD THEORY :A PATH INTEGRAL APPROACH	RISHIKESH VAIDYA	PHY
197	2014B5A40831P	PRAYAG R KATTA	INVESTIGATION OF SPIRAL GALAXIES IN VIRGO CLUSTER	SUDHANSHU BARWAY	PHY
198	2015A4PS0395P	TEJASWI B H	MODELING, DESIGN AND MANUFACTURE OF A NANO-SATELLITE	M.KRISHNASWAMY	
199	2015A4PS0314P	NEERAJ GADI	TOWARD MULTI-SPACECRAFT PLANETARY EXPLORATION: ADAPTING MUTUAL IMPEDANCE EXPERIMENTS TO NANOSATELLITES	PIERRE HENRI	
200	2015A4TS0220P	AGARWAL VAIBHAV SUNILKUMAR	DESIGN AND ENGINEERING OF BI- AND MULTISTABLE SHAPE	MANFRED KOHL	

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S.No.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
			MEMORY MICROACTUATORS		

FIRST SEMESTER 2019-20					
S.NO.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
1	2015B1A30325P	BHAVESH MUNOT	GENOMIC ANALYSIS OF PLASMODIUM	VISHAL SAXENA	BIO
2	2015B1A70854P	SHREY BIPIN SHAH	BIOMEDICAL IMAGE ANALYSIS LUNG CANCER DETECTION USING CT AND PET IMAGES	TAKIO KURIT	BIO
3	2015B1A30652P	AKSHIT DEEP SINGH	JOINT DATA SENSING AND ANALYSIS FOR CELL BIOLOGY APPLICATIONS	CHEN-YI-LEE	BIO
4	2015B1A40732P	GOKAVARAPU SAI SIRISH	TO USE ON-CHIP CTC TISSUE CULTURE TECHNIQUES TO CREATE PATIENT SPECIFIC TUMOROIDS FOR TESTING PANCREATIC CHEMOTHERAPEUTICS IN VITRO	CT LIM	BIO
5	2015B1A40694P	ANIMESH JAIN	BIOROBOTIC BUTLER PICKPAL, A MECHANICAL HAND TO PICK AND PROGRESS	NAVEEN BOPPAN	BIO
6	2016A2PS0868P	VIGHNESH MAHAK	APPLICATION OF ARTIFICIAL NEURAL NETWORK IN ROCK MECHANICS AND LANDSLIDE PREDICTION	NISHANT ROY	CE
7	2016A2PS0823P	ASHUTOSH KUMAR GUPTA	ANALYSIS OF BEHAVIOR OF BASE-ISOLATED STRUCTURES.	DIPENDU BHUNIA	CE
8	2016A2PS0631P	ABHISHE ANAND	NON-LINEAR DYNAMIC TIME HISTORY ANALYSIS OF TALL BUILDINGS.	G. MUTHUKUMAR	CE
9	2015B2A20705P	KAVISH GUPTA	STUDY THE BEHAVIOR OF CONCRETE	MANOJ KUMAR	CE
10	2016A2PS0869P	MAHESH KAUSHIK	STATIC AND DYNAMIC BEHAVIOR OF FOOTING RESTING ON REINFORCED SOIL	RAVIKANT MITTAL	CE
11	2016A2PS798P	RAGHAV AGRAWAL	MODERN DRAINAGE SYSTEMS IN URBAN PLANNING AND DESIGNING	A.K. GOSAIN	CE
12	2016A2TS0515P	ADITYA SHASHIKANT KATYAYAN	CONTROLLING SWELLING OF EXPANSIVE SOIL USING COMPRESSIBLE INCLUSION	DASAKA S. MURTY	CE
13	2014B1A2755P	ABHINAV SINGH	REAL TIME MONITORING OF SURFACE WATER RESOURCES USING DATA ACQUISITION SYSTEM WITH OPTIMIZATION TECH.	SANJAY KUMAR AGARWAL	CE
14	2015B1A10540P	SANCHIT BAJAJ	APPLICATIONS OF MACHINE LEARNING IN CHEMIO SYSTEM ENGINEERING	ABHISHEK S DHOBLE	CHE
15	2016A1PS0399P	RISHANK PANDEY	SIMULATION STUDIES ON FERMENTER FOR MITIGATION OF CO ₂	SMITA RAGHUVANSHI	CHE
16	2016A1TS0383P	ASHWIN S SUDARSHAN	DATA MINING AND DATA ANALYTICS	SANJAY SWARUP,	CHE
17	2016A1PS0503P	P.S.S.B.R. RAHUL	EVALUATION OF CO POISONING IN PEMFC ELECTROCATALYSTS	VLADIMIR MATOLIN,	CHE

FIRST SEMESTER 2019-20					
S.NO.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
18	2016A1PS0794P	APOORVA GUPTA	DEVELOPMENT OF A NEAR FIELD INFRARED SPECTROSCOPY SYSTEM	ANDREJ LENERT,)	CHE
19	2016A1PS0539P	RAHUL DUA	RADIO ASTRONOMICAL OBSERVATIONS WITH MEERKAT AND VLBI OBSERVATIONS	MICHAEL BIETENHOLZ,	CHE
20	2015B2A10839P	SNEHA KUMARI	SYNTHESIS AND STUDY OF SHAPE DEPENDENT METAL NANO-PARTICLES (A_U & A_G) FOR BIOLOGICAL ACTIVITY.	SUROJIT PANDE	CHEM
21	2015B2A70813P	HARSH SHETH	DEVELOPING AN OPEN SOURCE SOFTWARE OF MOLECULAR DRAWING TOOL.	BHARTI KHUNGAR	CHEM
22	2015B2A70842P	RITABAN ROY	WHITE EMISSION FRO SINGLE ORGANIC MOLECULE: A THEORETICAL STUDY.	RAM KINKAR ROY	CHEM
23	2015B2A70859P	SOMKSHA BHARDWAJ	GENERATING QUALITATIVE TREND OF THE RATE OF ELECTRON TRANSFER REACTIONS USING DFRT AND CDASE SCHEME.	RAM KINKAR ROY	CHEM
24	2015B2A70881P	MUSKAAN CHUGH	THEORETICAL STUDY ON THE PLEA VALVES FROM HALOCHROMIC ORGANIC MOLECULES.	RAM KINKAR ROY	CHEM
25	2015B2A10783P	SHIVAM KHANDELWAL	LIFE CYCLE ASSESSMENT OF CHEMICALS RELATED FROM CHEMISTRY LABORATORY.	BHARTI KHUNGAR	CHEM
26	2015B2A70848P	ADITYA GOYAL	CREATION OF JAVA BASED MOLECULAR DRAWING SOFTWARE.	PRASHANT U. MANOHAR	CHEM
27	2015B2PS0882P	POONAM MISHRA	IMAGE BASED ANALYSIS OF PLASMEIUM INFECTED BLOOD SAMPLES.	RAJESH CHANDRAMOHANADAS	CHEM
28	2015B2A30792P	TANUJ KUMAR	SMART THREADS FOR SENSING AND DRUG DELIVERY WITH CLOSED LOOP ELECTRONIC CONTROL.	SAMEER SONKUSALE	CHEM
29	2015A7PS0092P	ASHUTOSH BIRLA	ML BASED AUTOMATIC PERSONALISED ACADEMIC CONTENT COLLECTOR	NAVNEET GOYAL	CSIS
30	2015A7PS0131P	ARCHIT JAIN	DATA EXTRACTION FROM SOLID STATE LIDAR FOR AUTONOMOUS LOCALIZATION & NAUGATION IN INDOOR ENVIRONMENT	AVINASH GAUTAM	CSIS
31	2016A7TS0015P	RAHUL BOTHRA	CLUSTERED ORIENTATEERING PROBLEM	ABHISHEK MISHRA	CSIS
32	2015B1A70873P	KUMAR SHRESHTHA	HIGH RESOLUTION CT GENERATION FROM LOW RESOLUTION CBCT FOR ADAPTIVE RADIATION THERAPY	NIKOS PARAGIOS	CSIS
33	2015B3A70626P	ANIRUDHA K	DISCOVERING DECISION STRATEGIES USING META-LEVEL REINFORCEMENT LEARNING AND BAYESIAN PROGRAM INDUCTION	FALK LIEDER	CSIS
34	2016A7PS0036P	MEGH THAKKAR	ADVANCED LANGUAGE MODELLING	CHNG ENGSIONG	CSIS

FIRST SEMESTER 2019-20					
S.NO.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
			ARCHITECTURES FOR SPEECH SIGNAL PROCESSING RECOGNITION AND ENHANCEMENT		
35	2016A7PS0108P	RISHAV	DEEP LEARNING FOR SCENE FLOW ESTIMATION USING IMAGE FUSION+LIDAR	DIDIER STRICKER	CSIS
36	2016A7PS0339P	ALEX MATHAI	REAL-TIME TELEMETRY OF NETWORK TRAFFIC USING SDN TECHNOLOGY AND DEEP LEARNING TECHNIQUES	VIJAY SIVARAMAN	CSIS
37	2015B5A70418P	BISWAJIT BISWAS	DEVELOPMENT OF MACHINE LEARNING ALGORITHMS TO IMPROVE THE ANALYSIS OF HIGH ENERGY PHYSICS DATA IN THE CONTEXT OF PARTICLE TRACKING	DAVID ROUSSEAU	CSIS
38	2015B1A70773P	NIKHIL RANJAN	AUTOMATIC SPEECH RECOGNITION FOR FINNISH LANGUAGE	NIDHI SINGH	CSIS
39	2015B5A70191P	SARVESH SRINIVASAN	COMPUTATIONAL APPLICATIONS OF QUANTUM WALKS	C M CHANDRASHEKAR	CSIS
40	2015B3A70553P	SANSKRITI SHARMA	VISUAL META-ANALYSIS OF IMPACT OF MARKETING MIX VARIABLES ON FIRM PERFORMANCE IN EMERGING MARKETS	ABHISHEK BORAH	CSIS
41	2015B3A40533P	RUTUJ KISHORE SAGANE	CREDIT RISK MODELS FOR SMES: INDIAN CASE	ARYA KUMAR	ECO FIN
42	2015B3A70613P	PARTH SETHI	ANALYSIS OF VOLATILITY AND RISK OF INDIAN STOCK MARKET VERSUS DEVELOPED ECONOMIES	A K GIRI	ECO FIN
43	2015B3A70655P	HITESH SAGTANI	IMPACT OF FDI AND OTHER ECONOMIC REFORMS ON INDIAN ECONOMY	A K GIRI	ECO FIN
44	2015B3A70713P	PRATEEK AGARWAL	FRAUD DETECTION ANALYSIS IN FINANCIAL TRANSACTIONS AND DEALS	N V M RAO	ECO FIN
45	2015B3A40483	DEVANSHU TAK	EMPIRICAL ELEVANCE OF BOOTSTRAP FUNDING IN INDIA	JYOTI ANUP VISHNOI	ECO FIN
46	2015B3A40539P	VIBHAS JAISWAL	PREDICTION MODELS ON BANK NOTES AND CASH PROCESSING MACHINES: COST BENEFIT ANALYSIS	HEIDI SCHNEIDER	ECO FIN
47	2015B3AB0634P	JAYESH SANJAY MASAND	ALTERNATIVE FINANCE FUNDING BEHAVIOUR AND FUNDRAISING PROCESS ANALYSIS	RUI HAO	ECO FIN
48	2015B3A70456P	SRISHTI BANZAL	TIME SERIES ANALYSIS WITH DEEP LEARNING TECHNIQUES AND BEYOND	TONG PING	ECO FIN
49	2015B3A70616P	MRIGANKSHI KAPOOR	NOWCASTING OF CPI INFLATION	RUDRANI BHATTACHARYA	ECO FIN
50	2015B3A70640P	AMAN GUPTA	SUMMARIZATION OF BUSINESS MEETING TRANSCRIPT	CHANG ENG SIONG	ECO FIN
51	2016A8PS0326P	AMLAN ROUSTRAY	RETRIEVAL OF KNUCKLE & PALM BASED ON HUMAN IDENTITY OVER BIOMETRIC	K.K GUPTA	EEE/INSTR

FIRST SEMESTER 2019-20					
S.NO.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
			DATABASES USING DEEP LEARNING		
52	2015B3A30609P	PARTH AJAY MACHE	DESIGN AND DEVELOPMENT OF BIDIRECTIONAL CONVERTERS FOR HYBRID ELECTRIC VEHICLE APPLICATION	HARI.OM BANSAL	EEE/INSTR
53	2015B5A30415P	DEEPAK VASUDEVAN	APPLICATION OF WIRELESS POWER TRANSFER IN CO-OPERATIVE AND/OR COGNITIVE SYSTEMS: INFORMATION THEORY PERSPECTIVE.	SAINATH BITRAGUNTA	EEE/INSTR
54	2016A8PS0453P	ADITYA SHARMA	ECONOMIC ANALYSIS OF ELECTRIC VEHICLE AND ITS COMPONENTS	SUJAN YENUGAMTI	EEE/INSTR
55	2016A8PS0449P	AMAN MUDGAL	ECONOMIC ANALYSIS OF ELECTRIC VEHICLE AND ITS COMPONENTS(4 WHEELERS)	SUJAN YENUGAMTI	EEE/INSTR
56	2016A3PS0180P	LAKSHAY GAHLAWAT	INTERNET OF THINGS(IOT) SECURITY	VINAY CHAMOLA	EEE/INSTR
57	2015B5A30384P	MITUL SHARMA	DESIGN AND ANALYSIS OF HIGH SPEED COMMUNICATION MODULES FOR 5G TECHNOLOGIES	ANU GUPTA	EEE/INSTR
58	2015B5A80499P	ANUBHAV ELHENCE	ANALYSIS OF ELECTROMAGNETIC RADIATION IN IOT SYSTEMS	VINAY CHAMOLA	EEE/INSTR
59	2015B5A30547P	NAREN	ANALYSIS OF ELECTROMAGNETIC RADIATION IN CELLULAR NETWORKS & ASSOCIATED HEALTH HAZARDS	VINAY CHAMOLA	EEE/INSTR
60	2016A3PS0225P	VIDIT JHA	OPTICAL COMMUNICATIONS	VARUN RAGUNATHAN	EEE/INSTR
61	2016A8PS0396P	SHRIHARI VISWANATH	FABRICATION OF REFERENCE MATERIALS TO CALIBRATE Z-VALUES IN DIGITAL HOLOGRAPHIC MICROSCOPY	OLIVER HAYDEN	EEE/INSTR
62	2016A3PS0242P	NITHIN RAHAV JK	IMPLEMENTATIONS OF HYBRID COMMUNICATION SAYTEN (RF/ OPTICAL) ON FPGA	KAMBIZ JANSHIDI	EEE/INSTR
63	2015B2A30841P	UJJWAL PANDA	SEARCHING FOR SLOW PULSARS USING FAST FOLDING ALGORITHM FOR THE GHRSS SURVEY	JAYANTA ROY	EEE/INSTR
64	2015B4A30698P	JYOTISHMAAN TRIPATHI	GEOMETRY ESTIMATION OF LAPAROSCOPIC FROM TRAINING VIDEO FILMED IN REAL ORGAN	MASAHIRO FURUKAWA	EEE/INSTR
65	2016A3PS0165P	SOMBUDDHA CHAKRAVARTY	MECHANISMS TO VALIDATE THE INTEGRITY OF CODE AND DATA STORED IN INDUSTRIAL IOT DEVICES	BIPLAB SIKDAR	EEE/INSTR
66	2016A3PS0182P	ADITYA SANGRAM SINGH RANA	DEEP LEARNING IN ADVANCED DRIVER ASSISTANCE SYSTEMS	ANTONIO M. LOPEZ PENA	EEE/INSTR
67	2016A3PS0136P	JOY VRAJESH PARIKH	ACES: ANOMALY CLASSIFICATION FOR EMBEDDED SYSTEMS	PROF. LAM SIEW KEI	EEE/INSTR

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S.NO.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
68	2016A3PS0171P	AKUL MALHOTRA	NEUROMORPHIC COMPUTING: DEVICES, CIRCUITS AND SYSTEMS	ABHRONIL SENGUPTA	EEE/INSTR
69	2016A8TS0142P	YASH AKHAURI	CO-DESIGNING DEEP NEURAL NETWORK AND RE-CONFIGURABLE HARDWARE	YAMAN UMUROGLU	EEE/INSTR
70	2016A8PS0185P	VISHNU P KASHYAP	AUTO ANNOTATION TOOL FOR DATASET PREPARATION FOR AUTONOMOUS VEHICLE.	PROF K.V.S HARI	EEE/INSTR
71	2015B4A20593P	AKSHIT BORDIA	LEVERAGING DEEP LEARNING FOR ANOMALY DETECTION TO PREDUCT INSURANCE RAOND	SUMANTA PASARI	MATH
72	2015B4A20628P	NITANT UPASANI	OPTIMIZATION TECHNIQUES FOR FLOOR PLANNING	KRISHNENDRA SHEKHAWAT	MATH
73	2015B4A70423P	VIVEK NAYAK	DESIGNING A PEER PREDICTION MECHANISM FOR ASSIGNMENT EVALUATION	RAKHEE	MATH
74	2015B4A70426P	NANDIT BANSAL	HARNESSING RENEWABLE ENERGY RESOURCES EFFECTIVELY BY LEVERAGING DEEP-LEARNING AND DATA MINING TECHNIQUES	SUMANTA PASARI	MATH
75	2015B4A70551P	GARV SACHDEVA	GRAPH THEORETICAL TECHNIQUES FOR FLOOR PLANNING	KRISHNENDRA SHEKHAWAT	MATH
76	2015B4A70590P	RINKESH JAIN	LARGE SCALE GRAPH ANALYTICS	RAJIV KUMAR	MATH
77	2015B4A70594P	VEDANT BAGHEL	COMMUTING GRAPHS ASSOCIATED WITH ALGEBRAIC STRUCTURES	JITENDER KUMAR	MATH
78	2015B4A70602P	ABHINAV GUPTA	REAL TIME EARTHQUAKE GAME COMPETITION AND BUILDING BASED DAMAGE DETECTION DUE TO EARTHQUAKE	SUMANTA PASARI	MATH
79	2015B4A70619P	RASHMI LATHI	APPLICATIONS OF FUZZY LOGIC IN IMAGE PROCESSING	CHANDRA SHEKHAR	MATH
80	2015B4A70620P	YAJAT DAWAR	LARGE SCALE GRAPH MINING AND SOCIAL NETWORK ANALYSIS	RAJIV KUMAR	MATH
81	2015B4A70631P	AKHIL AGARWAL	ENHANCED POWER GRAPH ASSOCIATED WITH ALGEBRAIC STRUCTURES	JITENDER KUMAR	MATH
82	2015B4A70650P	RAJAT JAIN	DEVELOPING GRAPH THEORETIC TOOLS FOR GENERATING RECTANGULAR FLOOR PLANS	KRISHNENDRA SHEKHAWAT	MATH
83	2015B4A70815P	HARSHIT GOYAL	CONNECTED DOMINATING SETS IN GRAPHS	RAJIV KUMAR	MATH
84	2015B4A70835P	ANMOL NAUGARIA	DETECTION AND MITIGATION OF DDOS ATTACKS IN SDN ENVIRONMENT	RAKHEE	MATH
85	2015B4A70567P	TANAY AGARWAL	MATHEMATICAL ANALYSIS AND CORRELATION BETWEEN BEHAVIOURAL APPROACH AND MULTIPLE INTELLIGENCE	B K SHARMA	MATH

FIRST SEMESTER 2019-20					
S.NO.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
86	2015B4A30565P	VAIBHAV MATHUR	EFFECTIVE DEEP TECHNIQUES FOR DOMAIN ADAPTATION	KE YIPING	MATH
87	2015B4A70342P	VIGNESH HEGE	2D-SHAPE REGISTRATION AND COMPARISON IN IMAGE ANALYSIS	MARTIN HERMAN	MATH
88	2015B4A70407P	NALIN MITTAL	TRIANGULAR DISCRETE METRIC SPACES	HARTMUT PRAUTZSCH	MATH
89	2015B4A70436P	ACHAL AGARWAL	HIGH PERFORMANCE DEEP REINFORCEMENT LEARNING	BRUNO RAFFIN	MATH
90	2015B4A70454P	VIKRAM WARADPANDE	DEEP LEARNING FOR GRAPH STRUCTURED DATA	AVISHEK ANAND	MATH
91	2015B4A70557P	PRASHANT RANGARAJAN	MATHEMATICAL INVESTIGATIONS OF NATURAL LANGUAGE PROCESSING	PARTHA PRATIM TALUKDAR	MATH
92	2015B4A70777P	VAISHNAVI BHARGAVA	AUTOMATIC NEIGHBOURHOOD DESIGN FOR LOCALISED MODEL INTERPRETATION	LUIS GATARRAGA	MATH
93	2016B4TS0953P	AKSHIT ACHARA	DEVELOPMENT OF A MACHINE LEARNING STRATEGY USING REGRESSION AND STOCHASTIC PROCESSES FOR BENCHMARKING MICRO RNA TARGET PREDICTION METHODS	MARKUS LIST	MATH
94	2015B4A80567P	TANAY AGARWAL	MATHEMATICAL MODELING OF HUMAN PERCEPTION AND ATTENTION	SRIDHARAN DEVARAJAN	MATH
95	2015B4TS0534P	HIMUJJAL UPADHYAYA	INDOOR LOCATION TRACKING AND FLOOR PLANNING USING BLUETOOTH LOW ENERGY (BLE) BEACONS USING THE METHOD OF TRIANGULATION	KRISHANU DEY	MATH
96	2016A4PS0404P	DEVENDRA PRATAP SINGH	MAINTENANCE STRATEGIES SELECTION IN ROLLING STOCK	RAJESH PRASAD MISHRA	ME
97	2016A4PS0387P	SIDDHANT JAIN	TRANSITION CURVES OF VARIOUS NONLINEAR AND NON-SMOOTH MATHIEU-LIKE OSCILLATORS USING HOMOTOPY ANALYSIS & GALERKIN PROJECTIONS	AMOL A MARATHE	ME
98	2015B3A40359P	KULKARNI ADITYA YOGESH	WASTE MANAGEMENT IN PICKLING PROCESS USING VALUE STREAM MAPPING	SRIKANTA ROUTROY	ME
99	2015B2A40829P	ABHAY KUMAR GUPTA	APPLICATION OF ARTIFICIAL NEURAL NETWORKS IN SUPPLY CHAIN MANAGEMENT	GIRISH KANT	ME
100	2016A4PS0670P	ANIRUDH RANAWAT	VALUE STREAM MAPPING OF WASTE GENERATED IN STEEL POWER PLANT: A CASE STUDY	SRIKANTA ROUTROY	ME
101	2015B4A40693P	MANAL GARG	REVERSE LOGISTICS OPTIMIZATION	SRIKANTA ROUTROY	ME
102	2016A4PS0288P	ANKUSH KUMAR	DEVELOPMENT OF NAVAL DESIGN APPLICATIONS UTILIZING COMPLIANT MECHANICS CONCEPTS	PROF. ASHOK MIDHA	ME
103	2016ABPS0833P	SHRUTI SHARMA	MODEL BASED DESIGN	RAINER NITSCHKE	ME

FIRST SEMESTER 2019-20					
S.NO.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
			AND CONTROL OF A PNEUMATIC ROBOT JOINT		
104	2015B2A40868P	ANSHU AGRAWAL	RESEARCHING UPON 2 OF THE 6 SUPPLY CHAIN DRIVERS NAMELY PRICING AND INFORMATION TO REMOVE SUPPLY CHAIN INEFFICIENCIES	MR. ASHRAY IYENGAR	ME
105	2016ABPS0842P	MRUDULA N.	MECHANISM OF THERAPEUTIC RESISTANCE IN CERVICAL CANCER	SUDHIR KRISHNA	ME
106	2015B3A70607P	UJJAL SAINI	DYNAMIC FACILITY LAYOUT PROBLEM	RAJESH MATAI	MGTS
107	2015B3A70618P	ADITYA GARG	PROJECT PORTFOLIO OPTIMIZATION	SATYENDRA KR SHARMA	MGTS
108	2015B3A70639P	ARUSHI MADAN	PREDICTING SUPPLY CHAIN RISK MODELLING	SATYENDRA KR SHARMA	MGTS
109	2015B3A70658P	ASHUTOSH GOEL	ECONOMIC ANALYSIS OF ROAD ACCIDENTS AND DEVELOPING PREDICTIVE MODEL	SATYENDRA KR SHARMA	MGTS
110	2015B3A30657P	PREET SINGH KHALSA	OPTIMISING ARCHAI E LENDING MECHNISMA FOR INDIAN SMES	SIDDHARTH SETH	MGTS
111	2016A5TS0418P	SRINIVASH M.	CHARACTERIZATION OF EPIGENETIC CHANGES IN PLASMODIUM CONTRIBUTING TO DRUG RESISTANCE	RAJEEV TALIYAN	PHA
112	2016A5TS0586	RIYA AGGARWAL	DESIGN AND DEVELOPMENT OF POLYMERIC NANOPARTICLES OF SELECTED DRUGS FOR MANAGEMENT OF DIABETES	SUNIL KUMAR DUBEY	PHA
113	2016A5PS0659P	SRIJAN VERMA	MACHINE LEARNING BASED PHASE I AND II DRUG METABOLISM PREDICTION	SUMAN SIRIMULLA	PHA
114	2016A5TS0818P	VIGNESH JAYARAMAN	ISOLATION AND REPROGRAMMING OF HUMAN MONOCYTES FOR SELECTED THERAPEUTIC APPLICATIONS	PROF. PRAMOD K UPADHYAY	PHA
115	2016A5PS0732P	VIPIN ARORA	A STUDY ON THE IMPACT OF COMPRESSIBILITY OF POWDERS ON TABLET FORMATION	PAUL W S HENG	PHA
116	2016A5TS0431P	RISHAL AGGARWAL	APPLICATION OF DEEP LEARNING TO STRUCTURE BASED DRUG DESIGN	DAVID KOES	PHA
117	2015A5TS0900P	SAUMITRA KAPOOR	PLAYER-CONTROL PARAMETERS OF THE ERHU AND COLLECTION OF CARDIAC PARAMETERS	JER-MING CHEN	PHA
118	2016A5PS0630P	SIDDARTH GOEL	CONNECTED HEALTHCARE & INTEGRATED CARE: EXPLORING NEW MODELS OF GAMIFICATION AND REWARDS FOR CHRONIC DISEASE MANAGEMENT	MRS. MALVIKA SHARMA	PHA
119	2015B5A30724P	ADITYA VENIKAR	METAL OXIDE THIN FILMS AS GAS SENSING MATERIALS	S GANGOPADHYAY	PHY

FIRST SEMESTER 2019-20					
S.NO.	BITS ID	NAME	TOPIC	SUPERVISOR	Dept.
120	2015B5A30490P	ABHINAV S	STUDY OF DEPHASING MECHANISMS	NILADRI SARKAR	PHY
121	2015B5A40582P	K PAVITHRAN	LIQUID ASSOCIATED CD SC NANO CLUSTERS	DEBASHIS BANDYOPADHYAY	PHY
122	2015B5A70671P	DEEP VIKASH KULKARNI	CONSTRAINING DARK ENERGY MODELS USING COSMOLOGICAL MATTER POWER SPECTRUM	T G SARKAR	PHY
123	2015B5A40621P	S KAUSHIK SRINIVASAN	STUDIES ON PHYSICS OF QUARK - GLUON PLASMA	MADHUKAR MISHRA	PHY
124	2015B5A30742P	RITIK JAIN	QUANTUM TRANSPORT IN FIELD- EFFECT TRANSISTORS	R R MISHRA	PHY
125	2015B5A10417P	SHUBHAM JAIN	OPTIMIZATION OF A NEW DATA	SILVIA COLABRESE	PHY
126	2016B5TS0685P	SOMIL SHARMA	TUSTIC THROUGH SCIENCE: A QUALITATIVE STUDY OF THE ROL OF PHYSICS IN FORENSIC SCIENCE	SHRI NAVIN CHANDRA PANT	PHY
127	2015B5A80442P	ISHAN AHUJA	PHI-MESON PRODUCTION IN ALICE EXPERIMENT	MARTIN WALA	PHY
128	2015B5A70350P	SOORYA RETHINASAMY	NUMERICAL SIMULATIONS FOR QUANTUM INFORMATION APPLICATIONS	MARK M WILDE	PHY
129	2015B5A70550P	RISHABH JAIN	NUMERICAL SIMULATION OF THE BELGARIN MARWELL SYSTEM FOR ULTRAFAT OUT OF EQUILLIBRIUM DYNAMICS	MARCO BATTIATO	PHY
130	2015B5A40532P	SIDDHARTH SINGH	DEPOSITION OF ULTRA-THIN SUPERCONDUCTING FILM USING SPUTTER DEPOSITION TECHNIQUE	DONDU SAHIN	PHY
131	2015B5A30581P	GOKUL SRINIVASAN	WAVE BASED NUMERICAL SIMULATION OF HEAD RELATED TRANSFER FUNCTION USING FINITE DIFFERENCE TIME DOMAIN METHOD	STIFFEN BILBAO	PHY
132	2015B5A40758P	DIVYA RATHORE	HEAT AND FLOW ANALYSIS OF FUEL ALLS.	CHUNG-JEN TSENG	PHY
133	2015B5A30429P	HARSH GROVER	MACHINE LEARNING APPLICATIONS IN RADIO ASTRONOMY	YOGESH WADADEKAR	PHY
134	2015B3A30525P	HARSH JAISWAL	INTERPRETABLE AI FOR PREDICTION IN MEDICAL IMAGING AND MENTAL HEALTH, USING REWARD AND LOSS FUNCTIONS	SUSHMITA MITRA	

LIST OF HIGHER DEGREE DISSERTATIONS COMPLETED DURING THE YEAR 2019

Second Semester 2018-19

S.No	BITS ID	Name	Topic	Supervisor	Dept.
1	2017H1290014P	Mansi Tiwari	Study in metabolic memory in diabetes	Syamantak Majumder	Biology
2	2017H1290019P	Sayan Basu	Study the effect of pulsatile glucose in diabetes progression	Syamantak Majumder	Biology
3	2017H1290013P	Arushi rai	Neurodegenerative disease and drosophila as fly model	Meghana Tare	Biology
4	2017H1290007P	Anisha ramdas	Molecular mechanisms associated with anti-cancer properties associated with camel milk	Uma S Dubey	Biology
5	2017H1290021P	Shivangi Mishra	Study of cancer stem cell inhibitors in brain cancer cell: understanding its functional implications	Sudeshna Mukherjee	Biology
6	2017H1290009P	Praneeta P	Infection studies of SBP-8 in C. elegans and the role genes involved in pathogenicity	Prabhat N Jha	Biology
7	2017H1290022P	Vishakha Bamroo	Understanding the biophysical properties of cancer cell under diverse stress	Rajdeep Chowdhury	Biology
8	2017H1300091P	Furoan Ahmed Bhat	Modeling spatial Transferability of urban freight Demand Model	DR PRASANT K SAHU	Civil
9	2017H1300081P	Aitichya Chandra	Development of effective zoning schemes for freight	DR PRASANTA K SAHU	Civil
10	2017H1430072P	Ramanand Shukla	Investigation of effect of Infill wells on seismic response of structure (Structural Dynamics & Engineering)	DR DIPENDU BHUNIA	Civil
11	2017H1430076P	Banuru Raghavender	Emulation of fire rating of FRP Composite	PROF. SHAMSHER BAHADUR SINGH -	Civil
12	2018H1430410P	T Naveen Kumar	Failure analysis of laminated composite plates under different types of Mechanical load.	DR RAJESH KUMAR	Civil
13	2017H1300083P	Kapil M Dhabu	Optimization Engineering	MR PRIYANSH SINGH	Civil
14	2017H1440061P	VARUN JAIN	Dynamic Instability of Composite Plates	RAJESH KUMAR	Civil
15	2013HS030073P	Shivin Srivastava	Enhancing Cyber Security Techniques using Deep Learning	Pratik Narang	CSIS
16	2017H1030121P	Vinit Kumar Siriah	Brain Computer Interface Based Systems with Applications in Robotics and Embedded Systems	Vinay Chamola	CSIS
17	2017H1010029P	Amit Kumar	Bio-mitigation of CO2 using algal species in pilot scale developed reactor.	Prof. Smita Raghuvanshi	Chemical
18	2017H1010030P	B. Sai Hitesh	Hydrolysis of agricultural waste to sugars using solid acid catalyst.	Prof. Banasri Roy	Chemical
19	2017H1010032P	Neha Jadhav	Preparation of mixed-matrix membrane for biogas upgradation.	Dr. Bhanu Vardhan Reddy	Chemical
20	2017H1010035P	Devesh saxena	CFD Analysis of bioreactor: Experimental and Theoretical investigations.	Prof. Suresh Gupta	Chemical
21	2017H1010036P	Prasad Sudhir Ingle	CFD Modelling of Catalysi poisoning using detailed kinetics for biogas reforming.	Dr. Bhanu Vardhan Reddy	Chemical
22	2017H1010037P	Sampada Mahajan	Hydrolysis of agricultural waste to sugars using solid acid catalyst.	Prof. Banasri Roy	Chemical
23	2017H1010038P	Hemanand T	Development of a soft sensor for a Reactive distillation column using WNN	Prof. Hare Krishna Mohanta	Chemical
24	2017H1010040P	Veeturi Uma Varun	Epoxy nanocomposites for EMI shielding applications.	Dr. Krishna C Etika	Chemical

S.No	BITS ID	Name	Topic	Supervisor	Dept.
25	2017H1010041P	Akshya Khandelwal	Development of continuous biomitigation of CO ₂ & recovery of product (fatty acids & alcohol) from lactate.	Prof. Smita Raghuvanshi	Chemical
26	2017H1010042P	Devendra Purbia	Dual Bed Catalytic - Bio gas reforming using monolith reactor	Dr. Srinivas Appari	Chemical
27	2017H1010045P	Adwait Nagarkar	Identification & Isolation of waste engine oil (WEO) degrading bacteria from oil contaminated soil-water.	Dr. Amit Jain	Chemical
28	2017H1010046P	Vennu Revanth	Modeling and Simulation of a bioreactor in production of biosurfactant.	Dr. Amit Jain	Chemical
29	2017H1010047P	K. Karthik	Flow pattern and transport of mass in jet loop reactors	Prof. Arvind Kr. Sharma	Chemical
30	2017H1010048P	G. Kameshwar Sharma	Lynthesis of Nano particles for the removal of zinc from industrial waste water.	Prof. Suresh Gupta	Chemical
31	2017H1010050P	Itishree Panda	Design and development of novel biomass cookstove using experimental and CFD simulation.	Prof. P N Sheth	Chemical
32	2017H1490319P	Chasetti Manozna Satyyendra	R&D Management: A Review Study	Prof. Jyoti	Mgt
33	2017H1490315P	Ayush Verma	Social Media	Dr. Nirankush Dutta	Mgt
34	2017H1420179P	Mohit Sharma	Development of machine learning algorithm for controlling welding process	Prateek Kala	Mech
35	2017H1410148P	Bhure Swapnil Shadanan	Microstructure prediction in additive Manufacturing with metals alloy simulations	Murali Palla	Mech
36	2017H1060198P	Dhruv Tiwari	Modeling and simulation of a vibrating branched structure in a viscorn medium	J.S. Rathore	Mech
37	2017H1420190P	Gaurav Sushant	Supply chain management	Srikanta Routroy	Mech
38	2017H1420184P	Bala Karthikeya Nandula	Robotics- Design of un-manned guided vehicle (UGV) to explore unknown enemy terrains	B.K. Rout	Mech
39	2017H1420189P	Lokesh Kumar Patel	Engineering education in India: joint indo-German experience lab	K.S. Sangwan	Mech
40	2017H1410153P	Srihari S.	Study of fluid-solid interaction between blood and vein	S. S. Yadav	Mech
41	2017H1410146P	Hara Prakash Mishra	Bearing misalignment and condition monitoring	Arun Kumar Jalan	Mech
42	2017H1060200P	Amol Swaroop	Development of a framework for rams model considering multi-failure modes	R.P. Mishra	Mech
43	2017H1470269P	Tejashree V W	Design and Characterization of Nano-carrier embedded topical drug delivery systems.	Dr. Gautam Singhvi	Pharmacy
44	2017H1460280P	Munnagi Sivaram	Development and evaluation of polymer based nanoparticle for dual-drug delivery for cancer therapy	Dr. Sunil K Dubey	Pharmacy
45	2017H1470274P	Dileep P S	Natural product Chemistry- Phytochemical investigation on Atonia Scholaris	Dr. Atish T. Paul	Pharmacy
46	2017H1470271P	Shaksam Palawat	Natural product Chemistry- Phytochemical investigation on Tabernaemontana diversicata	Dr. Atish T. Paul	Pharmacy
47	2017H1470269P	Ramanathan .A	Nano-carrier based drug delivery systems for the treatment of AD	Dr. Rajeev Taliyan	Pharmacy
48	2017H1460282P	R.Pranav	Development and evaluation of drug loaded Nano-carrier for the treatment of Brain Stroke	Dr. Rajeev Taliyan	Pharmacy
49	2017H1460272P	Nancy Tripathi	Predicting Modeling and Chemoinformatics analysis of antimicrobials.	Dr. Sandeep Sundriyal	Pharmacy
50	2017H1290003P	R Sinduja	Characterization of sea plant explants & development of related applications	Hemant Giri Rao V V	Biology

S.No	BITS ID	Name	Topic	Supervisor	Dept.
51	2017H1290016P	Dhulika Ravinuthala	Mechano biology of cell- substrate interaction under shear	Namrata Gundiah	Biology
52	2017H1460279P	Jeevan Patra	Bioanalytical Method Development	Ms. Puran Singhal	Pharmacy

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S.No	BITS ID	Name	Topic	Supervisor	Dept.
1	2018H1010027P	Dandigunta Babuji	Judicious engineering of microbiomes for effective bioprocess development and enhance valorisation of agroindustrial resources.	Dr. Abhishek S Dhoble	Chemical
2	2018H1010028P	Mehta Harshil Amitbhai	Catalytic monolith reactor for hydrogen production.	Dr. Srinivas Appari	Chemical
3	2018H1010029P	Janani K	CFD investigation on dense fluidized bed.	Dr. Priya C Sande	Chemical
4	2018H1010030P	Krithika B	Hybrid polymer nanocomposites for EMI shielding applications.	Dr. Krishna C Etika	Chemical
5	2018H1010032P	Avinash Maran Beena	Fault detection & diagnosis of tensesse eastman process	Dr. Ajaya Kr. Pani	Chemical
6	2018H1010034P	Balivada Kusum Kumar	Integrated approach for the removal of zinc from textile industry effluent.	Prof. Suresh Gupta	Chemical
7	2018H1010035P	Shrinidhi Sambamurthy	An integrated biorefinry approach for the removal of CO ₂ , NO _x and SO _x from flue gases using chemolithotrophs.	Prof. Smita Raghuvanshi	Chemical
8	2018H1010037P	S Nirmal Kumar	Hydrogen/syngas production from natural gas steam reforming using in-situ sulphur passivated Ni catalysts.	Dr. Bhanu V. Reddy	Chemical
10	2016H1240062P	Shivam Goel	Modelling & simulation of Dielectric resonator antennas	Dr. NAVNEET GUPTA	EEE

INVITED TALKS ARRANGED BY THE DEPARTMENT**1. Department of Biological Sciences**

- 1 Dr. Debajyoti Dutta; a postdoctoral research fellow at Biochemistry, University of Alberta, Canada delivered a talk on A detergent free study of plant Na⁺/H⁺ antiporter SOS1 on 25th February 2019.
- 2 Mini-colloquium on Emerging and Interdisciplinary Areas of Biological Science Research, organised by Department of Biological Sciences. Presented by 1) Dr. Amit Mishra, 2) Dr. Sarita Ahlawat and 3) Prof. Chinmay K. Mukhopadhyay on 02nd March 2019.
- 3 Anurag Srivastava from University of Turin, Italy delivered a research talk on 'Understanding the role of enolase post-translational modification in Pancreatic Cancer' and 'Bust the myth of international application and fly to the study destination abroad' on 7th September 2019.
- 4 Prof. Nisith Gupta, Humboldt University, Germany delivered a talk on Intracellular Parasitism 101: Survival strategies of a eukaryotic cell inhabiting another eukaryotic cell, on 11th November 2019
- 5 Dr. Vidhi Pareek, Res. Asst. Prof., The Huck Institutes of Life Sciences, Pennsylvania State University, PA, USA delivered a research talk on 'Unveiling the unseen life of the purinosome metabolon by metabolomics and mass spectral imaging' on 16th November 2019
- 6 Prof. Suresh Arya, NIH, USA delivered a guest lecture to the students registered in course BIO G523 (Advance & Applied Microbiology) on synthetic Microbiology on 18th November 2019.

2. Department of Civil Engineering

1. Mr. Dipanjan Mitra, Assistant General Manager (AGM) in Tata Consulting Engineers, delivered lecture on "Smart Cities" at the department of Civil Engineering on March 2, 2019.
2. Mr. Vetcha Ravikanth, Assistant Vice President, Reliance Industries Limited (Petrochemical Division), delivered lecture on "Use of Geo-synthetics in Infrastructure Development " at the department of Civil Engineering on April 2, 2019.
3. Mr. Lalit Kumar Jain, Project Management Consultant, Scan Technology L.L.C., Dubai, delivered lecture on "Use of MS Project Professional for effective planning and management of a construction project " at the department of Civil Engineering on April 9, 2019.
4. Dr. Murli Krishna, John F Welch Technology centre, GE Bangalore, delivered lecture on "Evolution of GE and Today's Research" at the department of Civil Engineering on August 6, 2019.
5. Mr. Viraj Voditel, CEO and Founder of Tecture Structures, Nagpur, delivered lecture on "Entrepreneurship in Core Industry" at the department of Civil Engineering on September 7, 2019.
6. Mr. Kabil Bhargava, (All India Rank: 6, ESE 2019), delivered lecture on "Importance of technical knowledge" at the department of Civil Engineering on 9th November 2019.

3. Department of Humanities and Social Sciences

1. Prof. Nivedita Kaul, Associate Professor, Dept. of Civil Engineering from MNIT Jaipur was invited to interact with the undergraduate students and deliver a guest lecture in the course "Environment, Development and Climate Change" course on 23-11-2019 (GSF 212- Dr. Sailaja Nandigama is the IC).
2. Dr. Neera Sharma, a former professor of Banasthali Vidyapeeth and a noted Hindustani Classical Vocalist conducted a Music Workshop during 15-20 February 2019.
3. Dr (Mrs.) Kuiljiet Uppaal , Image Scientist and woman pilot visited the department, interacted with faculty members and delivered an invited lecture to the students of Print and Audio-visual Advertisement course on 4 February 2019.
4. Dr. Vibha Arora from IIT Delhi delivered a talk on Fieldwork: Significance, Intricacies & Challenges in a 2-day workshop on Research Methodology during 23-24 February 2019.
5. Ms. Magdalene Jeyarathnam, Expressive Arts Therapist & Board certified Psychodramatist; Director - East-West Center For Counselling & Training; Director-Indian Institute of Psychodrama; Co-Founder- Expressive Arts therapy Association of India, visited the department and delivered a talk on the aspect of creativity - positive and expressive arts to the students of Creative Writing course.
6. Prof. Ravindra M Singh, Associate Professor of Philosophy, Department of Philosophy, University of Delhi visited the department, interacted with faculty members and delivered lectures to the students of Professional Ethics and Applied Philosophy courses during 25-26 March, 2019.

7. Dr Suchismita Sengupta Pandey, Additional Commissioner, Food and Civil Supply and member, State Food Commission, Govt. of Uttarakhand, Dehradun, and expert on Swami Vivekanand visited the department during 15-16 April 2019 and delivered a talk on Swami Vivekanand. His call for the youth and his teachings on Nation building and Empowerment. She also interacted with students of Current Affairs course on contribution of Indian scientists in pre independence days.
8. Mr. Madhurjya Banerjee, Global Brand Leader, Unilever and a BITS Pilani Alumnus visited the department on 15 April 2019 and conducted a workshop for the students of Print and Audio-Visual Advertising course.
9. Brahma Kumar PIUS from Brahma Kumaris delivered a talk on "Meditation for Healthy and Happy Life" on 22nd June 2019.
10. Mrs. Vasanthi Hariprakash, Media Strategist, Journalist, TV and Radio Anchor and also a Media trainer visited the department during 4-5 Sept. 2019 and conducted workshops for students of Introduction to Mass Communication course. These workshops were open for other students and faculty members also.
11. Mr. Rafiq Iqbal, Co-Founder, Cybotics, GmbH and Head of the German Indian Round Table (GIRT) of North Bavaria, Germany visited the department on 21 October 2019 and discussed the possibilities of collaboration in teaching German and green Energy supply by Battery Power.

4. Department of Mathematics

1. Prof. Youcef Mammeri from Univ. of Picardie Jules Verne Amiens, France has given an invited talk on "Multiscale Modeling of Lithium Batteries" in the Department of Mathematics on 26th August 2019.
2. Prof. Nabil Bedjaoui from Univ. of Picardie Jules Verne Amiens, France has given an invited talk on "Diffusive-dispersive travelling waves and Non-classical shocks" in the Department of Mathematics on 27th August 2019.
3. Prof G.D.Veerappa Gowda from TIFR Centre for Applicable Mathematics, Bangalore has given invited talk on "Applications of Hamilton-Jacobi equations in shape from shading" in the Department of Mathematics on 7th September 2019.
4. Professor Dilip K. Maiti, from Vidyasagar University, W. B. has given invited talk on "Entropy Generation in a MHD Couette-Poiseuille Flow through a Microchannel with Slip, Suction-Injection and Radiation" in the Department of Mathematics on 7th September 2019.
5. Prof. Sushant G. Ghosh, Professor, Centre for Theoretical Physics, Jamia Millia Islamia University, New Delhi has been delivered an invited talk on "A quest for black hole's shadow", March 1, 2019.

5. Department of Mechanical Engineering

1. Prof. Subhash Sarin, Professor, Virginia Tech, USA, Delivered a talk on Publishing in High Quality Journals and Directions for Quality Research on 8/1/2019.
2. Prof. P.Srinivasan, Department of Mechanical Engineering, Delivered a talk on Indian Power scenario-Economics, Environment & Engineering, on 18/02/2019.
3. Mr. Sumeet Soni, Delivered a talk on Introduction to Sports Engineering, on 8/3/2019.
4. Mr. Manoj Kandpal, Assistant Manager, E-Parisaraa PVT. LTD., Delivered a talk on Current trend and future Scope of E-waste management in India., on 15/04/2019.
5. Mr. Kiran Mulley, JCI, Gurgaon, Delivered a talk on Possible industrial project, on 16/05/2019.
6. Prof. Srikanta Routroy, Delivered a talk on Customer status and supplier behaviour: A question of culture?, on 25/07/2019.
7. Mr. Deepak Gadhia, Delivered a talk on Renewable Energy-Opportunities and Future Prospects for Budding Engineers and Entrepreneurs, on 17/09/2019.
8. Mr. Devdutta Chandavakar, Delivered a talk on Automotive Technology-Future, Career & Employability Aspects, on 13/11/2019.
9. Dr. Manoj Soni, Mechanical Engineering, BITS Pilani, Delivered a talk on Spiritual Thermodynamics, on 25/11/2019.
10. Dr. Kishan Khatri, President-Elect - ISHRAE Jaipur Chapter., Delivered a talk on The Current Trends in Energy Audit and Energy Efficiency, on 26/11/2019.

6. Department of Management

1. Mr. Deep Thomas, Chief Data and Analytics Officer Aditya Birla Group, delivered a talk on "Data Analytics" at the department of Management, BITS Pilani on 1-Feb-2019.

2. Dr. Pankaj Kulshreshtha, Founder and CEO, Scienaptic Systems, New York, delivered a talk on "Evidence & reasoning: how big data has changed the world of knowledge" at the department of Management, BITS Pilani on 1-Feb-2019.
3. Dr. Milind Kelkar , Chief Analytics Officer, Unpickle , delivered a talk on "Evidence-driven decision making for Banks" at the department of Management, BITS Pilani on 1-Feb-2019.
4. Mr. Ashu Kakkar , Associate Vice President, HCL Technologies Ltd., delivered a talk on "Evidence-Based Management practices in IT/ITES" at the department of Management, BITS Pilani on 1-Feb-2019.
5. Mr. Ashu Kakkar, Associate Vice President, HCL Technologies Ltd., delivered a talk on "Session on Big Data" at the department of Management, BITS Pilani on 1-Feb-2019.
6. Dr. Sanjeevan Kapshe, Mentor at Sanjeevani, delivered a talk on "Globalization of Economy, Homogenization of Culture, and Crisis of Individual Identity" at the department of Management, BITS Pilani on 2-Feb-2019.
7. Dr. Sanjana Rambal Bhat, Medical Superintendent, BITS Pilani, delivered a talk on "Evidence-Based Medicine: Process and Evolution" at the department of Management, BITS Pilani on 2-Feb-2019.
8. Dr. Milind Kelkar , Chief Analytics Officer, Unpickle, delivered a talk inWorkshop on "Building Data Science Skills"at the department of Management, BITS Pilani on 2-Feb-2019.
9. Dr. Sanjeevan Kapshe, Mentor at Sanjeevani, delivered a talk inWorkshop on "Data analysis for Investments and Portfolio Management"at the department of Management, BITS Pilani on 3-Feb-019.
10. Mr. Vineet Kaul, Advisor, Group HR, Aditya Birla Group, delivered a talk in HR Conclave Inauguration and Key Note Session-Workforce in the Era of Industry 4.0 : Skill Development and Upgradingat the department of Management, BITS Pilani on 1-March-2019.
11. Mr. Ranjan Kumar Mohapatra, Director HR-Indian Oil Corporation Ltd., delivered a talk in HR Conclave Inauguration and Key Note Session-The Future Workforceat the department of Management, BITS Pilani on 1-March-2019.
12. Mr. Naveen Kapur, Founder, N. K. Engineers Inc., delivered a talk in HR Conclave Panel 1: Manufacturing-Futuristic Skills Required in Manufacturing Sector-Overview of Changes over the yearsat the department of Management, BITS Pilani on . 1-March-2019.
13. Mr. Jagat Singh Dangi, Head- Corporate Human Resources, Minda SAI Ltd., delivered a talk in HR Conclave Panel 1: Manufacturing-Futuristic Skills Required in Manufacturing Secto-Adapting to the new requirements of the Industryat the department of Management, BITS Pilani on 1-March-2019.
14. Mr. Ramachandran S., Principal Consultant, Infosys Knowledge Institute , delivered a talk in HR Conclave Panel 1: Manufacturing-Futuristic Skills Required in Manufacturing Sector-Neo skilling and the need for upskillingat the department of Management, BITS Pilani on 1-March-2019.
15. Mr. Nandakumar Ghule, Head, Purchase & Supply Chain, Tata Motors Ltd., Dharwad , delivered a talk in HR Conclave Panel 1: Manufacturing-Futuristic Skills Required in Manufacturing Sector-Impact of implementation of automation in the automobile sectorat the department of Management, BITS Pilani on 1-March-2019.
16. Mr. Rajiv Kaul, Plant Head, Bliss Anand Pvt. Ltd., delivered a talk in HR Conclave Panel 1: Manufacturing-Futuristic Skills Required in Manufacturing Sector-Human Revolutionat the department of Management, BITS Pilani on 1-March-2019.
17. Mr. Rajnish Sinha, Founder & CEO, Global Talent Search Partner, TA Corridor , delivered a talk in HR Conclave Panel 3: Learning And Development – Implications of the Changes on Skill Requirements- Need for High Potential Culture Organizationat the department of Management, BITS Pilani on 1-March-2019.
18. Mr. Rajkumar Meenakshisundaram, Director GFSSC, Agility Logistics , delivered a talk in HR Conclave Panel 2: Services-Skill Requirement in Customer & Technology Enabled Services-Shift from effort based quantification to output based quantificationat the department of Management, BITS Pilani on 1-March-2019.
19. Mr. Sanjay Shivnani, Senior Vice President, Aditya Birla Skills Foundation, delivered a talk in HR Conclave Panel 2: Services - Skill Requirement in Customer & Technology Enabled Services- Importance of Customer Centricityat the department of Management, BITS Pilani on 1-March-2019.
20. Mr. Pradeep Sethi, CEO & MD, Corporate Insight Pvt. Ltd., delivered a talk in HR Conclave Panel 2: Services- Skill Requirement in Customer & Technology Enabled Servicesat the department of Management, BITS Pilani on 1-March-2019.
21. Mr. Indraniil Mukherjee, Managing Director, B-Braun Medical (India) Pvt. Ltd., delivered a talk in HR Conclave Panel 2: Services - Skill Requirement in Customer & Technology Enabled Services-Importance of Embracing Changeat the department of Management, BITS Pilani on 1-March-2019.

22. Mr. G. Ramesh Prabhu, CA & Partner, Price Patten, delivered a talk in HR Conclave Panel 2: Services - Skill Requirement in Customer & Technology Enabled Services – From Mass Production to Mass Customization at the department of Management, BITS Pilani on 1-March-2019.
23. Dr. Nivedita Debnath, Director, Learning and Organizational Development, Asia Pacific, Avery Dennison, delivered a talk in HR Conclave Panel 3: Learning And Development – Implications of the Changes on Skill Requirements – Changes in Learning Trends at the department of Management, BITS Pilani on 1-March-2019.
24. Prof. Chandra Shekhar, Chairperson and Chancellor of the Academy of Scientific and Innovative Research (AcSIR), Ex-Director, CSIR-CEERI, delivered a talk in HR Conclave Panel 3: Learning And Development- Implications of the Changes on Skill Requirements-Impact of Changes in organization on Academia at the department of Management, BITS Pilani on 1-March-2019.
25. Mr. Akash Agarwal, Management Consultant with Nexus Angels Consulting, delivered a talk on “Creating sustainable competitive advantage’ for MBA students” at the department of Management, BITS Pilani on 7-September-2019.
26. Mr. Rahul Kohli, Chief Executive Officer (Fertilizer Business) at Aditya Birla Group and Advisor to Chancellor, Mr. Kumar Mangalam Birla for Higher Education, delivered a talk on “Interaction with faculty and MBA students” at the department of Management, BITS Pilani on 13-September-2019.
27. Mr. Coumara Radja, President- Global Business at ZCL (earlier Zandu Pharma), delivered a talk on “‘Career on a fast-track’ And ‘International market entry strategies’” at the department of Management, BITS Pilani on 14-September-2019.
28. Ms. Padmini Sharma, Managing Partner, Jester&Genius, Dallas, Texas, delivered a talk on “The Brand Story Competitive Advantage” at the department of Management, BITS Pilani on 15th November 2019.
29. Mr. Sunil Rangrejji, Senior Director - IT, Informatica, Bangalore, delivered a talk on “Design Thinking” at the department of Management, BITS Pilani on 16th November 2019.
30. Mr. Sunil Rangrejji, Senior Director - IT, Informatica, Bangalore, delivered a talk on “Blue Ocean Strategy” at the department of Management, BITS Pilani on 18th November 2019.
31. Dr. M.R. Anand, Former Principal Economic Adviser, Government of India, delivered a talk on “Industrial growth experience: policies, institutions and instruments” at the department of Management, BITS Pilani on 19-November-2019.

7. Department of Pharmacy

1. Dr. Lakshmikant Bajpai, Deputy Director, Analytical R&D, Biocon Bristol -Myers Squibb R&D center (BBRC), Syngene International Limited, Bangalore, India delivered a series of guest lectures entitled, "Liquid Chromatography Basics and Applications for Preparative Purification" and "Applications of Mass Spectrometry in Pharmaceutical Industry" on September 25, 2019.
2. Guest lecture was delivered by Dr. Sanyog Jain, Associate Professor, Dept. of Pharmaceutics, NIPER, Mohali on the topic "Oral drug delivery using nanoparticles" on March 09, 2019.
3. Prof. B.M. Mithal Memorial Lecture was delivered by Prof. M. Chandra Sekar (University of Findlay, USA) on, "Prescription for Pharmacy Education and Practice in India" and on Jan 21, 2019.

8. Department of Physics

1. Invited talk by Dr Sandip Dhara, Professor at Indira Gandhi Center for Atomic Research Kalpakkam, Localized Phonon Population in Semiconducting Si Nanowires on 11th November 2019.
2. Invited talk by Professor Umesh Garg, Professor of Physics at the University of Notre Dame, on 22nd July 2019.
3. Mr. Parag Jain, Advisor for Avendus Group, USA and a former Official at SEBI, Risk Management in Indian Stock Market.

9. Department of Chemistry

1. Prof. Srinivasan Sampath, IISc., Bangaluru on 26/02/2019
2. Prof. Naresh Patwari, IIT, Bombay on 09/03/2019
3. Prof. Joydev K Laha, NIPER, Mohali on 09/03/2019
4. Prof. Sasanka Deka, Delhi Univ., Delhi on 09/03/2019
5. Prof. Ravindra Pandey, Roswell Park/Howard Univ.. on 25/03/2019
6. Prof. D S Rawat, Univ. of Delhi, Delhi on 18/04/2019
7. Prof. Rodney A Fernades, IIT, Bombay on 25/04/2019

8. Prof. G Sekar, IIT, Madras on 26/04/2019
9. Prof. K N Singh, BHU, Varanasi on 04/05/2019
10. Dr. Noorullah Baig, Gulf Univ. Kuwait on 06/08/2019
11. Prof. A K Sinha, CDRI, Lucknow on 08/11/2019
12. Prof. Michael Gozin, Tel Aviv Univ. on 13/12/2019
13. Prof. T Punniyamurthy, IIT, Guwahati on 16/12/2019

10. Department of Economics & Finance

1. Mr. Kunal Rahar, Economist, Reserve Bank of India interacted with UG students of BITS and delivered lecture on “Monetary Policy framework in India -The historical underpinnings, contemporary evolution and the futuristic outlook” on 26th February, 2019.
2. Dr. Gautam Ray, Professor, Graduate School of Management, Kyoto University and Vice-President, Asian Institute of Public Policy and Development Studies, Kolkata visited BITS, interacted with faculties of the department and delivered a talk to student and faculties on the topic, “Inclusive Development and Growth Dynamics: Conceptual Framework for Cross-Disciplinary Academic Discourse” on 22nd February, 2019.

11. Department of Chemical Engineering

1. “Biogeochemical processes in natural environment: Insights from aquatic ecosystems” by Dr. Rupesh K. Bhomia (Consultant with a Dutch Organization - CATALYZE GROUP, based in Hyderabad) on 11-Sept-2019 (arranged as a part of Biochemical and Environmental Engineering -BioEnvE - colloquium series coordinated by Dr. Abhishek S. Dhoble)
2. “Learnings in the journey of manufacturing entrepreneurship” by Mr. Sabyasachi Roy, Managing Director, ANTS Lab Mumbai, on 19th Oct 2019 as a Department Seminar. (Coordinated by Dr. Krishna C. Etika).

12. Department of Computer Science and Information Systems

1. Dr. Sriram Rajamani, Distinguished Scientist and Managing Director, Microsoft Research India Lab, delivered a series of lectures on “Data types, Lambda Calculus and abstract interpretation (verification of imperative programs, following the operational semantic rules for partial correctness)” at the Department of Computer Science & Information Systems, BITS Pilani from October 12-15, 2019.
2. Prof. P. Krishna Reddy, IIIT Hyderabad, Telangana State, India delivered a talk on “Experiences of Building IT-based Systems to Deliver Actionable Agricultural Information to Indian Farmers” at the Department of Computer Science & Information Systems, BITS Pilani from on December 6, 2019.

LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

A. Text Books

S.No.	Author	Title	Publisher	Year
Bio Sciences				
1.	Rastogi, S.C.	An outline of Developmental Physiology	Rajasthan Hindi Granth Academy, Jaipur	1973
2.	Rastogi, S.C.	Essentials of Animal Physiology	Wiley Eastern, New Delhi	1977
3.	Rastogi, S.C.	Experimental Physiology	Wiley Eastern, New Delhi	1982
4.	Mitra, Sandhya	Elements of Molecular Biology	MacMillan	1982
5.	Rastogi, S.C.	Cell Biology	Tata McGraw Hill, New Delhi	1988
6.	Rastogi, S.C.	Biochemistry	Tata McGraw Hill, New Delhi	1993
7.	Rastogi, S.C., Sharma, V.N., Tandon, A.	Concepts in Molecular Biology	Wiley Eastern, New Delhi	1993
8.	Mitra, Sandhya	Essentials of Genetics	Tata McGraw Hill, New Delhi	1994
9.	Mitra, Sandhya	Business of Living	Wiley Eastern, New Delhi	1994
10.	Roy, U., Saxena V.	A Handbook of Genetic Engineering	Kalyani Publications	2007
11.	Ashish Runthala	Hunting Drugs for Potent Antigens in the Silicon Valley	IGI GLOBAL	2010
Chemical				
12.	Khan, F.I., Abbasi, S.A.	Risk assessment of chemical process industries: advanced techniques	Discovery Pub. House	1998
13.	Abbasi, S.A., Krishnakumari, Khan, F.I.	Hot topics: Global warming, acid rain, ozone hole, industrial disasters, disinfection	Oxford India Pr.	1999
14.	Babu, B.V.	New Optimization Techniques in Engineering	Springer-Verlag, Heidelberg, Germany	2004
15.	Babu, B.V.	Process Plant Simulation	Oxford University Press, India	2004
16.	Babu, B.V.	One Chapter in the Book Advances in Computational Optimization and its Applications	Universities Press, Hyderabad	2007
17.	Babu, B.V., Angira, R.	One Chapter in the Book Soft Computing Applications in Industry	Springer Verlag	2007
18.	Babu, B.V., Angira, Rakesh	Optimization of Industrial Processes using Improved and Modified Differential Evolution	In Soft Computing Applications in Industry, Edited by Bhanu Prasad, Springer-Verlag, Heidelberg, Germany.	2008
19.	Babu, B.V., Ramakrishna, V.	Water Crisis: Origin Identification and Management	In India's Water Crisis, Edited by K R Gupta, Atlantic Publishers, New Delhi	2008
20.	Babu, B.V., Gupta. S.	Removal of Heavy Metal Pollutants from Wastewater Using Low Cost Absorbents	In India's Water Crisis, Edited by K R Gupta, Atlantic Publishers, New Delhi	2008
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27.	Srivastava, R.C., Saha, S.K., Jain, A.K.	Thermodynamics- A Core Course	Prentice Hall, New Delhi	2004
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30.	Gupta, Rajiv	Construction planning & technology Second Edition	CBS New Delhi	1994
31.	Ghoshal, S.	Microprocessor based system design	Macmillan Publishers, Gurgaon	1996
32.	Ghoshal, S.	Computer-Aided analysis & design	PHI Learning Pvt. Ltd., New Delhi.	1997
33.	Raju KS, Sarkar AK and Dash ML (Ed);	Integrated Water Resources Planning and Management;	Jain Brothers, New Delhi.	2004
34.	Kumar, Kamlesh	Basic Geotechnical Earthquake Engineering	New Age International Publishers, Limited, New Delhi.	2006
35.	Raju, K.S.	Prediction in Ungauged Basins for Sustainable Water Resources Planning and Management	Jain Brothers, New Delhi	2007
36.	Kulkarni, D.M. & A.K. Sarkar	Engineering graphics with AutoCAD	PHI Learning Pvt. Ltd., New Delhi.	2009
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39.	Sarkar A.K; V R Rao; S S Arkatkar; I Ghosh	Fundamentals of Transportation Systems (Class XI)	Central Board of Secondary Education; New Delhi.	2013
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44.	Mathur, A.P.	Introduction to Microprocessors (Third Ed.)	Tata McGraw Hill, New Delhi	1989
45.	Sharan, S.N.	Fundamentals of Expert System	CBS, New Delhi	1993
46.	Banerjee, Rahul	Architecture and Conceptual Design of the Unix System	Khanna Publishers	1993
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48.	Ghosh, S.	Programming in C	Prentice Hall of India	2004
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50.	Jain, R.P.	Modern Digital Electronics	Tata McGraw Hill, New Delhi	1984
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54.	Nagrath, I.J., Kothari, D.P.	Modern Power System Analysis (Second Ed.)	Tata McGraw Hill, New Delhi	1989
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59.	Nagrath, I.J., Kothari, D.P.	Theory and Problems of Electrical Machines (TMH outline series)	Tata McGraw Hill, New Delhi	1996
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61.	Nagrath, I.J.	Electronics: Analog and Digital	Prentice-Hall of India, New Delhi	1998
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70.	Maheshwari, L.K., Anand, M.M.S.	Laboratory experiments and PSPICE simulations analog electronic	Prentice-Hall of India	2006
71.	Bhattacharya, D.K., Sharma, Rajnish	Solid State Electronic Devices	Oxford University Press, New Delhi	2007
72.	Surekha Bhanot	Process Control-principles and applications	Oxford University Press	2008
73.	Khare, R.P., Dixit, R.K.	Rejuvenation without medicines [English translation of 'Bina Aushadhiyon ke Kayakalp' (in Hindi) by Pt Shriram Sharma Acharya]	Shri Vedmata Gayatri Trust, Shantikunj, Haridwar	2008
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77.	Navneet Gupta	Fundamentals of Electronic Devices	Dhanpat Rai & Co., New Delhi	2009
78.	L.S. Bobrow and Navneet Gupta	Foundation of Electrical Engineering: Asian Edition	Oxford University Press, New Delhi	2013
79.	William Stallings & V K Chaubey (adaptation)	Wireless Communications Networks	Pearson Education Second Edition Indian Subcontinent adaptation	2009
English				
80.	Krishna Mohan, Manerjee, Meera	Developing Communication Skills	MacMillan India Ltd., New Delhi	1990
81.	Sharma, R.C. Krishna Mohan	Business Correspondence and Report Writing (2nd Ed.)	Tata McGraw Hill, New Delhi	1994
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84.	Raman, Meenakshi, Singh, Prakash	Business communication.	Oxford University Press	2006
85.	Lata, Pushp Sanjay	Communicate or Collapse	Prentice Hall of India, New Delhi	2007

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87.	Sarangi, J., Mishra Vinod	Explorations in Australian Literature	Sarup and Sons, New Delhi	2007
88.	Meenakshi Raman and Sangeeta Sharma.2017.	Technical Communication- Principles and Practice For Gujarat technological University. .	2nd Edition. OUP: New Delhi..	2017
89.	Raman, Meenakshi Sangeeta Sharma	Technical Communication: English Skills for Engineers	OUP, New Delhi.	2009
90.	Pushp Lata and Sanjay Kumar	Communicate to Conquer: A Handbook of Group Discussion and Job Interviews with DVD	New Delhi: Prentice Hall of India (PHI)	2010
91.	Chauhan Gajendra S. and Sharma Sangeeta	Soft Skills- An integrated approach to maximize personality (Coauthor)	Wiley: New Delhi.	2015
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96.	Nagrath I.J., Madan Gopal	Control Systems Engineering (Second Ed.)	Wiley Eastern, New Delhi	1982
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98.	Gupta, A.	Systems Analysis	CBS, New Delhi	1993
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100.	Ghosh, S.	Control Systems: Theory and Applications	Pearson Education	2004
101.	Gupta, Rajiv, Nagrath, I.J.	Introduction to Systems	New Age International Publishers	2005
102.	Ghosh, S.	Network Theory: Analysis and Synthesis	Prentice Hall of India	2005
Humanistic Studies				
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105.	Sachdev, K.N.	Ethics: A Virtue Theoretic Approach	Adhyayan Publishers & Distributors, Delhi	2005
106.	Sachdev, K.N., Maharana, S.K.	Perspectives on Indian Ethics	Icon Publishers, New Delhi	2007
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109.	Anand, M.M.S.	Electronic Instruments and Instrumentation Technology	Prentice Hall, New Delhi	2004
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110.	Bose, R.K., Joshi, M.C.	Methods of Mathematical Physics	Tata McGraw Hill, New Delhi	1984
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114.	Pant, J.C.	Introduction to Optimization: Operations Research (Fifth Ed.)	Jain Bros., New Delhi	2000
115.	Prasad, Devi	Introduction to Numerical Analysis	Narosa, Publishing House	2005
116.	Johnson, R.A., Gupta, C.B.	Miller and Freund's Probability and Statistics For Engineers	Pearson Education, New Delhi	2005
117.	Prasad, Devi	Elementary linear algebra.	Narosa Publishing House	2006
118.	Ganesh, M.	Introduction to fuzzy sets and fuzzy logic.	Prentice-Hall of India	2006
119.	Mishra, B.N., Mishra, B.K.	Optimization: linear programming	Ane Books	2006
120.	Dubey, Balram	Introductory Linear Algebra	Asian Books, New Delhi	2007
121.	Gupta, C.B.	Quantitative Methods	Asian Books, New Delhi	2007
122.	Sathpathi, D.K., Mishra, B.K.	Mathematical Modeling	Ane Books India, New Delhi	2007
123.	Ganesh, M.	Basics of Computer Aided Geometric Design : An Algorithmic Approach	IK International Publishing house Pvt. Ltd., New Delhi	2008
124.	Gupta, C.B., Mallik, K.	Engineering Mathematics-I	New Age Publications, New Delhi	2008
125.	Gupta, C.B., Mallik, K.	Engineering Mathematics-II	New Age Publications, New Delhi	2008
126.	Gupta, C.B.	Application of Optimization in Operations Research	IK International Publishing house Pvt. Ltd., New Delhi	2008
127.	Sharma, B.K.	A Text Book of Engineering Mathematics II	Asian Books Pvt. Ltd., New Delhi	2008
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131.	DS Chauhan, KN Singh, Paresh Vyas, Rakesh Pandey, Subhash Yadav, Trilok Mathur	Beez Ganita (Algebra)	Vardhman Mahaveer Open University, Kota	2010
132.	SP Goyal, AK Goyal, Vimlesh Soni, Sunil Saxena, Trilok Mathur	Sammishra Vishleshan (Complex Analysis)	Vardhman Mahaveer Open University, Kota	2010
133.	Gupta, Kantesh, Garg, Atul, Shekhawat, K.S., Shekhar Chandra, and Goswamy, Pranay	Differential Equations, Calculus of Variations and Special Functions	Vardhaman Mahaveer Open University, Kota	2010
134.	Gupta, C.B., Singh S. R. and Kumar, Mukesh	Engineering Mathematics	Tata MCGraw Hill Education, New Delhi	2015
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135.	Dhyani, Umesh, Dash, Motilal, Kumar, Arya	Grass Roots Entrepreneurship-Strategy for Development	Jain Book Agency	2004
136.	Sharma, Sangeeta, Singh, Raghuvveer	Advertising: Planning and Implementation.	Prentice-Hall of India	2006
137.	Anubhavananda Swami, Kumar, Arya	Management with Difference	Ane Books India, New Delhi	2007
138.	Bhat, Anil, Kumar, Arya	Management – Principles, Processes and Practices	OUP, New Delhi.	2008
139.	Chaudhary, Omvir & Singh, Prakash	Principals of Management	New Age International Publishers	2011
140.	Mechanical Engineering			
141.	Vaishwanar, R.S., Lakshmi-narayanan, V.	A Textbook of Practical Geometry (Ninth Ed.)	Jain Brothers, New Delhi	1992
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145.	Prakash, Ravi	Nondestructive Testing Techniques	New Age Int. Publishers, New Delhi	2007
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Pharmacy				
147.	Parimoo, P.	Textbook of Medicinal Chemistry	CBS, New Delhi	1995
148.	Mithal, B.M.	Textbook of Pharmaceutical Formulation (Sixth Ed.)	Vallabh Prakashan, New Delhi	1997
149.	Mithal, B.M.	Textbook of Forensic Pharmacy (Tenth Edition)	Vallabh Prakashan, New Delhi	1998
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151.	Mithal, B.M., Saha, R.N.	Handbook of Cosmetics	Vallabh Prakashan, New Delhi	2000
152.	Sriram, D. Yogeeswari, P.	Medicinal Chemistry	Pearson Education, New Delhi	2007
Physics				
153.	Srivastava, Rajesh & Choubisa, Rakesh	Atomic and Molecular Physics	Narosa Publishing House	2011
Science & Technology				
154.	Mitra, C.R., Mandke, Parimal	S & T in Action	Prentice Hall, New Delhi	1988
155.	Mitra, C.R., Mandke, Parimal	Managing S&T – Conceptual Design of Management Tasks	Wiley Eastern Ltd, New Delhi	1989
Economics & Finance				
156.	Machiraju, H.R.	Working of Stock Exchanges in India	Wiley Eastern, New Delhi	1994
157.	Machiraju, H.R.	Principles and Practice of Merchant Banking	Wiley Eastern, New Delhi	1994
158.	Arya Kumar and Anil Bhat	Principles of Management- Competencies/Processes/ Practices/ 2 nd edition of the book	Oxford University	2016
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160.	Sharma, R.C.	An approach to King Lear	McMillan, Madras	1975
161.	Mehta, H.C.	Science and Society in the University	Jain Bros., New Delhi	1976
162.	Prasad, S.N.	Studies in Gunedhya	Choukhamba Or-ientalia, Varanasi	1977
163.	Gaur, V.P.	Mahatma Gandhi : A study of his Message of Non- violence	Sterling, New Delhi	1977
164.	Krishna Mohan (Ed.)	Higher Education – A BITS Experiment	BITS, Pilani	1977
165.	Tewary, V.K.	Mechanics of Fibre Composites (International Edition)	Wiley Eastern, New Delhi John Wiley, New York	1978
166.	Prasad, S.N.	Katha Sarit Saagar Tatha Bhartiya Sanskriti	Choukhamba Or-ientalia, Varanasi	1978
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171.	Krishna Mohan (Ed.)	Practice School: A New Concept in Higher Education	BITS, Pilani	1980
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181.	Rai, R.S.	Elements – Old & New	NCERT, New Delhi	1990
182.	Rai, R.S.	Applications of Nuclear Radiations	NCERT, New Delhi	1990
183.	Chaturvedi, P.D., Krishna Mohan, Pathak, S.N. (Ed.)	An Improbable Achievement – BITS – A profile of Change	Wiley Eastern Ltd., New Delhi	1990
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185.	Krishnamurthy, V.	Ten Commandments of Hinduism	Wiley Eastern	1994
186.	Misra, S.D.	Madhya-Siddhanta Kaumudiderpana	Krishnadas Academy, Varanasi	1996
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191.	Raman, Meenakshi [Ed.]	Critical Perspective in American Literature	Atlantic Publishers and Distributors Ltd., New Delhi	2005
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193.	Mishra, Binod [Ed.]	Existential Concern in Novels of Mulk Raj Anand	Adhyayan Publishers & Distributors, Delhi	2005
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199.	Mishra, Binod, Kumar, Sanjay (Ed.)	Indian Writings in English.	Atlantic Publishers, New Delhi	2006
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203.	Mishra, Binod	Grammar in Use (A series of three books for Class VI, VII and VIII)	Arvind Publications, Meerut.	2006
204.	Ghosh, Smarajit	Signals and systems	Pearson Education	2006
205.	Fatmi, S.N.	Social Ecology and Agrarian Classes	Icon Publications, New Delhi	2006
206.	Modak, Pintu, Pareek, R.P.	Exercise and Diabetes Cardiovascular Disease and Obesity.	Jain Brothers, New Delhi	2006
207.	Gupta, S.P., Gupta, R.R. (Ed.)	QSAR and Molecular Modeling Studies in Heterocyclic Drugs I	Springer Verlag, Berlin	2006
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210.	Krishna Mohan, Meenakshi Raman	Advanced Communicative English	TMH, New Delhi	2009
211.	Raman, Meenakshi	Soft Skills: Cornerstone of Professional Success	Jain Brothers, New Delhi	2009
212.	Raman, Meenakshi, Sangeeta Sharma	Communication skills for Mumbai University	OUP, New Delhi	2009
213.	Raman, Meenakshi, Sangeeta Sharma	Professional Communication for UPTU	OUP, New Delhi	2009
214.	Raman, Meenakshi, Sangeeta Sharma	Communicative English for BPUT	OUP, New Delhi	2009
215.	Sharma, Sangeeta	Pester power effect of advertising on Children	CIPS, Jaipur	2009
216.	Sharma, Sangeeta & Binod Mishra	Communication Skills for engineers and scientists	PHI, New Delhi	2009
217.	Mishra, Binod & Gajendra S. Chauhan	Communication in a globalised world	Authors Press, New Delhi	2009
218.	Lata, Pushp & Sanjay Kumar	Communicate to conquer	PHI, New Delhi	2009
219.	Raman, Meenakshi & Sharma, Sangeeta	Technical Communication	Oxford Higher Education	2011
220.	Geetha, B. & Sarwal, Amit	Exploring Science Fiction	SSS Publications, New Delhi	2011
221.	Modad, Pintu & Debnath, KK	Science of Sports Training: A Comprehensive Approach	Sports Publications, New Delhi	2011
222.	Swami Anubhavananda & Arya Kumar	Ethics in Management - Insights from Ancient Indian Wisdom 2nd Edition	ANE Books Pvt Ltd	2014
223.	Leonard.S.Bobrow and Navneet Gupta	Foundation of Electrical Engineering: Asian Edition	Oxford University Press, New Delhi	2013
224.	Rajiv Gupta and David James	Edited the papers of International Conference on Sports Engineering (ICSE 2017), October 23-25, Jaipur	Excel Printing, New Delhi	2017
225.	Bahurudeen, A, Prasanta K. Sahu, and Nikhil Saboo	Construction materials and technology", National Mission Project on Pedagogy (Main Phase), outcome based technical notes, 2017	Sponsored by IIT Kharagpur.	2017
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228.	Jagadeesh Anmala	Rainfall-Runoff Modeling Using Artificial Neural Networks and	LAP Lambert Academic Publishing, Germany	2010

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230.	A. Sajeli Begum, A. B. Ray, M. Sahai	Non-conventional Lignans: Coumarinolignans, Flavonolignans and Stibenolignans" Progress in the Chemistry of Organic Natural Products	Springer Wien NewYork	2010
231.	Nagesh Kumar, D. K. Srinivasa Raju and Falguni Baliarsingh	Modeling for Flood Control and Management, in Natural and Anthropogenic Disasters: Vulnerability, Preparedness and Mitigation	M.K. Jha, Springer, The Netherlands and Capital Publishing Company, New Delhi,	2010
232.	H.D. Mathur, N.C. Hien, N. Mithulananthan, D. Joshi, R.C. Bansal	Distributed Generation: A Power System Perspective" Chapter 22 in Handbook on Renewable Energy Technology	World Scientific Publishing Co., Singapore	2011
233.	Ashish K. Sharma and Navneet Gupta	MEMS Switches for RF Applications - A Review," Sensors and Biosensors, MEMS Technologies and its Applications, Second volume	Sensors & Transducers, Canada	2013
234.	Vishal Saxena, Manoj Kannan, Shilpi Garg	Genetic Engineering Techniques, Course BIO C418		2013
235.	R N Saha, Garima Balwani, Vibhu	Transmucosal Drug Delivery: Role of Nanoparticulate Systems	Studium Press LLC, USA	2014
236.	Pandey A, Kulkarni YA and Gaikwad AB	Curcumin: The epigenetic therapy (Chapter-6)	Elsevier	2016
237.	Yogesh A. Kulkarni, Mayuresh S. Garud, R S Gaud, Anil Bhanudas Gaikwad	Recent developments in using plant derived natural product as tubulin inhibitors for the management of cancer (Chapter-27)	Elsevier	2016
238.	Yogesh A. Kulkarni, Mayuresh S. Garud, Manisha J. Ozaa, Anil Bhanudas Gaikwad	Diabetes, diabetic complications and Flavonoids (Chapter-5)	Elsevier	2016
239.	Kalyani H. Barve, Yogesh A. Kulkarni, Anil Bhanudas Gaikwad	Nutraceuticals Therapeutic Agents for Inflammation (Chapter-7)	Elsevier	2016
240.	Mahaveer singh and H R Jadhv	Fast Dissolving oral Films, in Current Advances in fast Dissolving/ Disintegrating dosage form	Bentham Science	2016

Other Publications

1. Babu, B.A. "Learning an enjoyable experience", PHENOMENON, Annual Magazine of Chemical Engineering Association, BITS, Pilani, pp. 4-5, 2005
2. Babu, B.A. "Electronics, Instrumentation, and Control (E&IC) in Chemical Engineering", IMAGE-2005, Annual Magazine of Instrumentation Forum, BITS, Pilani, pp. 23-24, 2005
3. Banerjee, S. and Nozaki, S. Chapter V, Few-electron Memory: Fabrication, Operations and Challenges, Handbook of Semiconductor Nanostructures and Nanodevices, Edited by A.A. Balandin and K.L. Wang, American Scientific Publishers, Los Angeles, 2005.
4. Banerjee, S. and Nozaki, S. Chapter V, Few-electron Memory: Fabrication, Operations and Challenges, in Handbook of Semiconductor Nanostructures and Nanodevices, Edited by A.A. Balandin and K.L. Wang, American Scientific Publishers, Los Angeles 2005
5. Bansal, R.C. Electric Vehicles in Handbook of Automotive Power Electronics and Motor Drive", Edited by Dr. Ali Emadi, CRC Press, May 2005
6. Bhat A.K. Between the Lines, Vol. 1, Feb. 2005
7. Bhat, A.K. Creativity and Entrepreneurship in Knowledge Era, Phoenix- (Interface), pp.1-3, 2005
8. Bhat, A.K. India vs China- some lessons in economic development, Money Matters, pp. 18-20, 2005
9. Dixit, M., and Prakash, N. 'Conflicts of Two Generations' in Magazine 'The Smart Manager', Apr-May, Vol. 4, pp 70, 2005
10. Giri, A.K. Determinants of Demand for Money in India, Issues in Financial Developments, Edited by S.K Sham Bhat, pp. 259-318, Serials publication, Delhi, 2005

11. Giri, A.K. Search for Stable Money Demand Function for India: A Cointegration Approach Studies in Macroeconomics and Welfare, Ed. by BB Bhattacharya and Arup Mitra, Academic Foundation, New Delhi, pp.143-170, 2005
12. Kole, P.L., and Saha, R.N. Rifapentine – A New Edge to Tuberculosis Therapy, www.pharmaarticles.net. 1st May 2005
13. Kumar, A. Reinventing Effective Leadership, In the book on HR Interventions in the Global Competitive Regime, Ed Charles Xavier, Adhikari C S, Murthy Ramana B V, Excels Books, 2005
14. Kumar, A. e- Banking - Emerging Challenges to Indian Banks, Economics and Finance Association Annual Issue on Money Matters 2005
15. Kumar, A. Entrepreneurial Opportunities in Knowledge Economy, Phoenix - Special Issue brought out by Management Association during INTERFACE 2005. Between the Lines, Monthly Newsletter of Management Group, April 2005
16. Kumar, A. Managing Change in the Financial Industry through Convergence, Between the Lines, Monthly Newsletter of Management Group, April, 2005
17. Kumar, A. Entrepreneurship Development for Employment of Youths, Between the Lines, Monthly Newsletter of Management Group, April 2005
18. Kumar, A., and Dhyan, U. Nurturing an Entrepreneurship Culture through Academia, University News, Vol. 42, 2004
19. Kumaran, V. and Chandran, S. Documentation as Tool to Improve Communication and Productivity in Pharmaceutical Manufacturing Industry; In, Communicating at Work: Shifting Paradigms and Emerging Trends, Eds. Raman M., Sharma S., Mishra B.; Jain Brothers, New Delhi, pp. 149-161, 2005
20. Manjunath, U. and Pareek, R.P. "Issues and Challenges in the Use of Internet and Telecommunication Technology by Medical Professionals" in Communicating at Work-Shifting Paradigms and Emerging Trends" Raman, Sharma and Mishra (Eds) Jain Brothers, New Delhi, pp. 135-148, 2005
21. Meenakshi, R. Securing Admission to Overseas Graduate Schools: Essentials of Standardized Tests, Phoenix-Interface 2005 Souvenir, BITS, Pilani, pp. 50-54, 2005
22. Meenakshi, R. Magnificent Machines in Masterly English Poetry, Image 2005, Instrumentation Forum Magazine, BITS, Pilani, pp.59-62, 2005
23. Meenakshi, R. Another New Year Resolution, Poem, Musings- Vol. IV, BITS, Pilani, pp.36, 2005
24. Mishra, B. Bahut Talkh Thi Tumhe--- a poem in Hindi, Vani, BITS, Pilani, 2005
25. Mishra, B. Divine Blessings –a poem in English, "Musings", 2005
26. Mishra, B. A Comparative Study of Death-wish in the poems of John Keats and Emily Dickinson. Studies in Literature in English, Vol.-X. APD Delhi 2005. pp. 59-69, 2005
27. Mishra, B. Significance of Silence and Pauses in Communication at work: Shifting Paradigms and Emerging Trends. Delhi. Jain Brothers, pp-239-246, 2005
28. Mishra, B. Unanswered Question –a poem in English, TISTA, Vol.1.Ed. Jaydeep Sarangi. Feb.2005
29. Nagappa, A.N. Future Prospects for Treatment of Pulmonary Fibrosis, PhramaBizCom, Oct 17,2004, Vol. 228, 2004
30. Nagappa, A.N. Future Prospects for Treatment of Pulmonary Fibrosis, Phrama Biz .Com, Oct 17,2004, Vol. 228, 2004
31. Prakash, N. Relevance of Social Science Concepts to Health Systems: Eualgesic State Management, In the book Pain Updated - Mechanisms and Effect, Edited by Rashmi Mathur, Anamaya Publishers, New Delhi, pp. 280-286, 2006
32. Rout, L. Overcoming Communication Barrier to resolve Team Conflict. Published in Book Titled: Communicating at Work: Shifting Paradigms and Emerging Trends. Edited by: M. Raman, S. Sharma & B. Mishra Publisher: M/S Jain Brothers, New Delhi, pp.75-94, 2005
33. Saha, R.N. Strong Industry – University Linkage: Necessity for Indian Pharma Industries to Exploit IPR in the book entitled Intellectual Property Rights: Issues and Challenges in Pharmaceutical Industries, Neeta Press, New Delhi, pp. 96-106, 2005
34. Sarkar, A.K. Integrated Rural Accessibility Planning: Application in Rajasthan (India); RATP No. 12, International Labour Organization, 2005
35. Sharma, S. Stark Reality in Musings Vol. IV, pp. 26, 2005
36. Sharma, S. Scaling the Inner Parnassus: Unlocking the Creativity, pp 21-22, Phoenix, Souvenir, 2005

Book, Books Chapters Published during the year 2019

1. Department of Biological Sciences

1. Agarwal, S., Kuchlan, M., Panwar, J. and Sharma, M. 2019. Bacterial synthesis of metallic nanoparticles - Current trends and potential applications as soil fertilizer and plant protectants. In: Nanoscale Engineering in Agricultural Management, Raliya, R. (Ed.), CRC Press Taylor & Francis Group, Boca Raton, FL, pp. 30-63.

- Giri S., Thakar S., Majumder S., Chatterjee S. (2019) Regulation of Oxidative Stress by Nitric Oxide Defines Lung Development and Diseases. In: Chakraborti S., Parinandi N., Ghosh R., Ganguly N., Chakraborti T. (eds) Oxidative Stress in Lung Diseases. Springer, Singapore. pp 445-464.

2. Department of Civil Engineering

- Gupta V., Rawat S., Mittal R.K., Muthukumar G. , A Brief Review of Structural Aspects of IS 16700:2017., Adhikari S., Bhattacharjee B., Bhattacharjee J. (eds.) , Advances in Structural Engineering and Rehabilitation. Lecture Notes in Civil Engineering, Vol 38. Springer, Singapore, first online on 13 June 2019, https://doi.org/10.1007/978-981-13-7615-3_7, SCOPUS indexed, 2019.

3. Department of Chemistry

- Kiran Bajaj, Natural Bioactive Cyclic peptides and Peptidomimetics, Study in Natural Products Chemistry, Vol 62, 2019, 343-376. ELSEVIER publishing House. USA.
- K. Anebousevly, D. B. Ramachary, Indresh Kumar; Dienamine Catalysis for Organic Synthesis (Royal Society of Chemistry, RSC-London) Hardback 9781782620907.

4. Department of Economics & Finance

- A K Giri, G Mohaptra and Zeeshan (2019) Examining the inter-linkages of Energy Poverty, Income Poverty and Human Development for Indian States”, in Social Policies in India: Contemporary Perspectives, Chapter 7, pp.114 – 141, ed. By S N Ambedkar and S Bahdra, ABD Publishers, Jaipur, 2019.

5. Department of Electrical Electronics and Engineering

- Anu Gupta; Priya Gupta; Abhijit Asati, "Low-voltage, low-power SRAM circuits using subthreshold design technique" IET Book VLSI and Post-CMOS Electronics, Design, modeling and simulation (Editors: Rohit Dhiman; Rajeevan Chandel), Publication Year: 2019, (Book DOI: 10.1049/PBCS073F, Chapter DOI: 10.1049/PBCS073F_ch3 e-ISBN: 9781839530524)
- Prof. Navneet Gupta authored the book “Electromagnetic Field and Waves” published by New Age International Publishers, New Delhi; 2019
- Shenoy M.V. (2020) Sensor Information Processing for Wearable IoT Devices. In: Principles of Internet of Things (IoT) Ecosystem: Insight Paradigm. Intelligent Systems Reference Library, vol 174. Springer, Cham\
- Dr. Arnab Hazra (Co-authors Mr. Nagesh Samane and Prof. Sukumar Basu) published a book chapter entitled as "Multilayer reduced graphene oxide - nanoscale metal oxide composites for gas /vapor sensing" in the book under the working title Multilayer Thin Films-Versatile Applications for Materials Engineering, ISBN 978-1-78985-438-1 of Intech Open.

6. Department of Humanities and Social Sciences

- Interdisciplinarity: Vignettes of Contemporary Education, Knowledge and Research(2019). Eds. V S Nirban, T.Shukla, A.Yadav and R.Choubisa, Bloomsbury Publishing India Ltd., New Delhi. ISBN: 978-93-88630-94-8.
- Mounika, P. V. and Nirban, V.S. (2019). A Brief Review of Technology Indulgence and Student Well Being. Interdisciplinarity: Vignettes on Contemporary Knowledge, Education and Research Bloomsbury Publication: ISBN: 9789388630948, pp: 497-502
- Shukla, T. & Dosaya, D. (2019) Globalization and Teachers: A Quality Issue, Interdisciplinarity: Vignettes on Contemporary Knowledge, Education and Research Bloomsbury Publication: ISBN: 9789388630948, pp: 93-97.
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- Dosaya, D., Shukla, T. & Vavilala, M.P. (2019). Technology Indulgence in Education: Connecting Cognitive Abilities and Student Achievement. IRES International World Research Library (59-61).
- Vavilala, M.P., Nirban, V.S., Shukla, T. & Dosaya, D. (2019). Envisioning Teacher Accountability Through Technology: A Road to Better Learning. IRES International World Research Library (62-65).
- Srinivasan, Shrija and Sushila Shekhawat. Infinite Memory Loop: Trapped in The Cabinet of Dr Caligari. Interdisciplinarity: Vignettes on Contemporary Knowledge, Education and Research. New Delhi: Bloomsbury Publishing India Pvt. Ltd.pp.295-303.
- Shukla, Tanu. (2018). Professional Ethics in Academia: A knowledge Gap. Cultural and Intellectual Traditions in India Kirandeep Publishers: ISBN: 9788193516720, pp: 255-258.
- Sharma, Sangeeta. (2018). Inculcating Values through Education in a Technical University. Cultural and Intellectual Traditions in India Kirandeep Publishers: ISBN: 9788193516720, pp: 121-128.
- Sharma, Sangeeta. (2018). Impact of Social Messages through Advertising. Cultural and Intellectual

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12. Krishna Akhil Kumar Adavi, Hari Nair and Swaha Das, 'Gandhi and the 'race' question' in Sanjeev Kumar, ed., 2019, *Gandhi and the contemporary world*, Oxford and New York: Routledge, pp. 157-168.
13. Mansukhani, S. & Choubisa, R. (2019). 'Sociodrama' as Interdisciplinary Management Pedagogy: Relocating Convergence and Related Criticalities. In Nirban, V.S, Shukla, T., Yadav, A., & Choubisa, R. (Eds.). *Interdisciplinarity: Vignettes on Contemporary Knowledge, Education & Research*. (pp 11-23) Bloomsbury Prime, New Delhi. (ISBN978-93-88630-94-8).
14. Kumar, Deepak and Pushp Lata, Using Multimodal Tools for Teaching Multiliteracies in Indian ELT Classrooms. *Interdisciplinary*, eds Virendra Singh Nirban et al. New Delhi: Bloomsbury.2019. pp 98-106 ISBN 978-93-88630-94-8.

7. Department of Mathematics

1. Shekhar C., Varshney S., Kumar A. (2020) Reliability and Vacation: The Critical Issue. In: Ram M., Pham H. (eds) *Advances in Reliability Analysis and its Applications*. Springer Series in Reliability Engineering. Springer, Cham.

8. Department of Mechanical Engineering

1. Shivani Nain, Jitendra Singh Rathore, Niti Nipun Sharma, Nanoswimmer Energy Transduction System: Influence of Branching, Engineering Vibration, Communication and Information Processing, *Lecture Notes in Electrical Engineering*, vol 478. Springer, Singapore, SCS GSC.
2. Nikhil Gakkhar, Manoj Kumar Soni, Sanjeev Jakhar, Solar energy technologies and water potential for distillation: A Pre-feasibility Investigation for Rajasthan, India, *Progress in Solar Energy Technology and Applications*, Wiley, 2019 Scrivener Publishing LLC, ISBN: 9781119555605, GSC.

9. Department of Management

1. Naim, M. F. & Bulinska-Stangrecka, H. (2019). Down the rabbit hole: Social media, workplace collaboration, Millennial psychological needs satisfaction, and affective commitment in 4.0 industry, In *Thriving in digital workplace*, (pp. 253-264), Springer, Switzerland.
2. Rana, A., Bhat, A., and Rani, L.(2019), "The cognitive structure of online brand choice: An exploratory study. *Developments in Marketing Science: Proceedings of the Academy of Marketing Science* (Springer International publishing) – ISBN 978-3-319-76429-0 [Chapter 142]
3. Tiwari P., Bhat A.K., Jyoti (2019), "The Effect of Emotional Intelligence, Empathy and Perceived Social Pressure on Predicting Social Entrepreneurial Intention: A Field Research. In: Majumdar S., Reji E. (eds) *Methodological Issues in Social Entrepreneurship Knowledge and Practice*. Springer Proceedings in Business and Economics. Springer, Singapore

10. Department of Pharmacy

1. S. N. C. Sridhar, G. George, A. Verma and A.T Paul, "Natural Products-Based Pancreatic Lipase Inhibitors for Obesity Treatment", *Natural Bio-active Compounds*, Volume 1: Production and Applications, Springer Nature Switzerland AG., Published on 14 September 2019.
2. Surve D.H., Dandekar P., Devarajan P.V., Jindal A.B. (2019), Intracellular Delivery: An Overview. In: Devarajan P., Dandekar P., D'Souza A. (eds) *Targeted Intracellular Drug Delivery by Receptor Mediated Endocytosis*; AAPS Advances in the Pharmaceutical Sciences Series; vol 39; pp 3-41; Springer, Cham.
3. Gautam Singhvi, Rapalli Vamshi Krishna, Kowthavarapu V. Krishna, Sunil Kumar Dubey (2019), Alginate: Drug Delivery and Application, *Alginates: Versatile Polymers in Biomedical Applications and Therapeutics*, Apple Academic Press (ISBN: 9781771887823).
4. Singhvi, Gautam, Neha Hans, Niharika Shiva, and Sunil Kumar Dubey (2019). Xanthan gum in drug delivery applications. In *Natural Polysaccharides in Drug Delivery and Biomedical Applications*; pp. 121-144; Academic Press.
5. Shukla, Rahul, Ajit Singh, Vishwas Pardhi, Kanchan Kashyap, Sunil K. Dubey, Rambabu Dandela, and Prashant Kesharwani (2019). Dendrimer-Based Nanoparticulate Delivery System for Cancer Therapy. In *Polymeric Nanoparticles as a Promising Tool for Anti-cancer Therapeutics*; pp. 233-255; Academic Press.
6. Rapalli, Vamshi Krishna, Archana Khosa, Gautam Singhvi, Vishal Girdhar, Rupesh Jain, and Sunil Kumar Dubey (2019). Application of QbD Principles in Nanocarrier-Based Drug Delivery Systems. In *Pharmaceutical Quality by Design*; pp. 255-296; Academic Press.

7. Mukta Agrawal, Sunil Kumar Dubey, Junaid Khan, Sabahuddin Siddique, Ajazuddin Ajaz, Swarnlata Saraf, Shailendra Saraf, and Amit Alexander (2019). Extraction of catechins from green tea using supercritical carbon dioxide. In *Green Sustainable Processes for Chemical and Environmental Engineering and Science*; Elsevier Publisher.
8. Archana Khosa, Ranendra Narayan Saha, and Gautam Singhvi (2019). Drug delivery to the brain. *Nanomaterials for Drug Delivery and Therapy*; pp. 461-514; William Andrew Publishing.
9. Emil Joseph, Gautam Singhvi, Saswata Banerjee (2019). Nanoparticulate drug-delivery systems for brain targeting. *Nanocarriers for Brain Targeting: Principles and Applications*: 207.

11. Department of Computer Science and Informaiton Systems

1. (Book Chapter) J. Jennifer Ranjani, "Quantum Image Processing and its Applications", *Handbook of Multimedia Information Security: Techniques and Applications, Multimedia Tools and Applications*, Springer, pp. 395 - 411, 2019.
2. Dinesh Ram Kumar T., Bhatia A., Hansdah R.C., Exploiting Multiple Paths in Multi-hop Co-operative Ad-Hoc Networks for Providing Security without Trusted Third Party. In: Barolli L., Takizawa M., Xhafa F., Enokido T. (eds) *Advanced Information Networking and Applications.. Advances in Intelligent Systems and Computing*, vol 926. Springer, Cham.
3. Vishvakarma D. K., Bhatia A., Riha Z., Detection of Algorithmically Generated Domain Names in Botnets. In: Barolli L., Takizawa M., Xhafa F., Enokido T. (eds) *Advanced Information Networking and Applications. Advances in Intelligent Systems and Computing*, vol 926. Springer, Cham.

LIST OF EQUIPMENTS PROCURED FOR 2019

S.No	Inden t No.	Particulars	Used for Courses / Thesis / dissertation Computational / Administrative Work
Admission Office			-
1	1073	GBC ShredMaster 31 SX	-
2	1257	Monitor Dell, Size 27"	-
3	1428	APC Brand 1000VA UPS	-
4	1592	Dell OptiPlex DT 7060 MT, etc.	-
Alumni Relations Department			-
5	1688	APC UPS BR1500G-IN	-
6	809	Tama Imperial Star	-
AUGS Department			-
7	1074	Dell Optiplex 7060 Mini Tower XCTO	-
8	1352	Seagate Backup Plus Fast Portable Drive 4TB	-
9	1447	Seagate Backup Plus Fast Portable Drive 4TB	-
10	1609	HP M254DW Printer	-
11	1695	Head Phone	-
12	362	Impartus Lecture Capture Solution	-
13	529	HP Laserjet Pro MFP M226DW Printer	-
14	1503	Dell Server Tower Model T30	-
Biological Sciences Department			-
15	1510	LG Split Air-Conditioner 1.5 ton	-
16	1511	UPS Battery 12V 18AH Exide	-
17	1708	TransBlot	-
18	1711	Multiskan Sky with Touch Screen	-
19	1767	Multi Stack Environmental Chamber	-
20	1768	Advance Trinocular Stereo Zoom Microscope	-
21	99	Heater for LAC, etc.	-
22	100	IG - 16 uv UV Transilluminator	-
23	101	Gradient PCR make ABI Thermo	-
24	102	Electrophoresis System	-
25	171	Blue Bird Stabilizer 5 KVA, etc.	-
26	178	Dell Precision 5820 Tower XCTO Base	-
27	278	GloMax 20/20 Luminometer, etc.	-
28	279	Trans-Biot Turbo Transfer Systems	-
29	686	Multi Stack Shaking Incubator	-
30	687	Tissue Culture Rack, etc.	-
31	688	Elisa Reader, etc.	-
32	917	PCB of Oxygraph Plus System, Part No. 960049	-
33	1210	Forma Steri-Cycle	-
34	911	Compound Monocular Microscopes	-
Chemical Department			-
35	1774	Borosilicate Glass Vessel Fermenter, etc.	-
36	1804	Detector PR (6) - Part No. 222-11414-91	-
37	1113	Conductivity Meter, etc.	-
38	1114	Planetary Micro Mill Classic	-
39	721	BOD Incubator 510 Liters	-
40	825	Julabo F250 Recirculating cooler, etc.	-
41	826	Multi-Vessel Dip Coating System	-
42	827	Orbital Shaking Incubator, etc.	-
43	828	Bronkhorst Make Mass Flow Controller	-
44	829	Model 520 Flowmeter	-
45	1060	High Temperature - Controlled Atmosphere Horizontal Tubular Furnace	-
46	1062	Orion Model Star A214 pH/ISE Benchtop Meter	-

S.No	Inden t No.	Particulars	Used for Courses / Thesis / dissertation Computational / Administrative Work
47	1252	Optiplex 7060 Minit Tower XCTO	-
Chemistry Department			-
48	1147	DUO 11 Rotary vane pump, etc.	-
49	1199	Rotavapor R-100 System	-
50	1204	Heating Element Melting Muffle Melting Coil	-
51	1295	Mixing Chamber	-
52	1335	Fume Hood	-
53	1419	Digital Penning Gauge	-
54	1520	MPA 100 OptoMelt Automated Melting Point System	-
55	1521	Water Bath "MAC" MSW-272, etc.	-
56	1522	Digital Ultrasonic Cleaner	-
57	1547	Monitor Dell, Size 27"	-
58	1580	Planetary Ball Mill Premium Line Pulverisette 7, etc.	-
59	1645	Belsorp Mini X - BET Surface Area Analyzer	-
60	1727	Delta, make 6KVA/6K Watt	-
61	1803	15 Ton Hydraulic Press, etc.	-
62	103	Magnetic Stirrer with hot plate	-
63	719	SQR Series F/3.5 Monochromator	-
64	921	IKA Electrochemistry Kit, etc.	-
CIIE			-
65	503	HP ProBook 640 G4	-
CSIS Department			-
66	1216	Compute Workstation	-
67	1234	KIT-WXT-MX28, etc.	-
68	1329	iPad Pro Wifi	-
69	1330	Printer	-
70	1340	HPE Proliant DL 380 Gen 10 8SFF Sever	-
71	1376	g.US Bamp-RESEARCH, etc.	-
72	1427	Mi A2, etc.	-
73	1503	Samsung LED 65 inch	-
74	1603	Workstation	-
75	1811	GPU Server	-
76	1282	FLIR-C3 Compact Thermal Imaging Camera	-
77	1358	11- inch iPad Pro 256GB	-
Civil Department			-
78	1170	HP Office Jet Pro 6970 AiO Printer, Part No. J7K34A	-
79	1214	Computational Workstation	-
80	1285	4-Channel Digital Vibration Meter, etc.	-
81	1288	Asphalt Mixer Theoretical Density Meter	-
82	1435	Colorimeter, etc.	-
83	1437	Motorized Sieve Shaker	-
84	1613	Kenwood Kitched Mach	-
85	1628	One Channel USB AE node, etc.	-
86	1630	Flexible Shaft Jacketed	-
87	1661	Tilting Flume Apparatus, etc.	-
88	1662	Humidity Chamber, etc.	-
89	1699	Vacmobile E2-20 vacuum systems	-
90	1722	Cube Mould (Three Gang)	-
91	1764	Freeze thaw chamber	-
92	1698	Probe Sonicator	-
93	1198	Delta Make 5KVA Ups	-
EEE Department			-
94	1154	Digital Multimeter, etc.	-
95	1155	Rigol 50MHz 2 Channel DSO, etc.	-
96	1156	Voltage Sensor LV25-P Make LEM, etc.	-
97	1189	Roger RT Duriod 5870, DK	-

S.No	Inden t No.	Particulars	Used for Courses / Thesis / dissertation Computational / Administrative Work
98	1270	Probe tip, Tungsten	-
99	1429	Server 1: Think Systems SR530, etc.	-
100	1430	OS & Installation	-
101	1453	Nao Robot V6	-
102	1564	IGN-UC3 Digital Ultrasonic Cleaner, etc.	-
103	1689	Raspberry Pi3 Model B+ board, etc.	-
104	1690	Grove-GSR Sensor, etc.	-
105	1692	GSM / GPRS Modem, etc.	-
106	1693	Triple Axis Accelerometer, etc.	-
107	1694	Digital Multimeter, etc.	-
108	1707	Video EEG Machine	-
109	1755	Pressure Control Accessories for Gas Sensor Setup	-
110	1812	Dell OptiPlex 5060 MT XCTO	-
111	1148	Adjustable Phase Shifter	-
112	1150	ZedBoard Zynq-7000, etc.	-
113	1151	Educational Practice Board, etc.	-
114	1152	Dev Board, Foundation Line MCU, etc.	-
115	1153	Tubular Rheostat 300E, etc.	-
116	189	MC-2SLPM-D/5M, 5IN, Gas-Air	-
117	193	MC-2SLPM-D/5M, 5IN, Gas-Air	-
118	248	Electron Beam Evaporation Unit	-
119	283	Computer Workstation - Netweb	-
120	344	Xilinx Zynq UltraScale, etc.	-
121	859	Handheld Spectral Flicker Meter - MF250N	-
EMU			-
122	1057	Voltas Water Coolers	-
123	1233	Voltas Hot & Cold A.C.	-
124	1268	Portable Floor Panel Hold IT	-
125	1529	2 Ton LG Inverter Split AC	-
126	94	Aquaguard Universe 100 RO	-
127	169	Movement Detector, etc.	-
128	176	Flowtech Make Electromagnetic Flowmeter	-
129	198	Advance Cable Locator	-
130	275	LG Dual Inverter 2 Ton Split A.C.	-
131	388	Lawn Mowers	-
132	415	Destroyer for Sanitary Napkins, etc.	-
133	422	Voltas Water Cooler	-
134	423	RO 50 L/Hr Eureka	-
135	441	Havells Ventil Air Fan DX 200mm	-
136	458	2 Ton LG Dual Inverter Split A.C., etc.	-
137	475	Movement Detector, etc.	-
138	494	LED Panel Light 36 Watt	-
139	528	2 Ton LG Dual Inverter Split A.C., etc.	-
140	575	RO 50 L/Hr Eureka	-
141	689	ABC Type Fire Extinguisher 6 Kg.	-
142	693	Supply of Octagonal Pole, etc.	-
143	700	1.0 Ton LG Dual Inverter Split A.C.-5 No.s	-
144	723	Testing & Visual Inspection of Electrical Equipments	-
145	774	1.5 Ton LG Dual Inverter Split AC	-
146	1179	Denfos Scroll Compressor	-
147	1624	1.0 Ton LG Dual Inverter Split A.C.-3 No.s	-
HSS			-
148	1552	Canon DSLR Camera	-
149	880	Desktop Lenovo - V540	-
150	1093	Asus Zenbook	-

S.No	Inden t No.	Particulars	Used for Courses / Thesis / dissertation Computational / Administrative Work
Instrumentation Unit			-
151	1101	Casio Projector XJ-V110W 3500 WXGA Zoom 1.5 HDMI X1	-
152	1262	Samsung Galaxy A7 4GB/64GB	-
153	1394	Samsung Galaxy J6 Plus	-
154	1544	Apple iphone 6S	-
155	1582	HP LaserJet Pro MFP M226dw Printer	-
156	1686	Channel Mixer, etc.	-
157	902	Casio Projector Model No. XJ-V110W	-
158	904	Panasonic PT-VW430 Projector Lamp	-
159	1104	Casio Projector Model No. XJ-V110W	-
IPC			-
160	1239	2 Port 10GbE SFP+ Flexi Port Module, etc.	-
161	1578	Digital Signage Display 55", etc.	-
162	1590	HP Laserjet Pro MFP M226 DW	-
163	1614	AP Management License, etc.	-
164	1615	Ex4300, 24-Port 10/100/1000 Base, etc.	-
165	1705	Delta make 3 KVA UPS	-
166	1712	Eureka Forbes Easy Clean Plus	-
167	1751	D-Link Crimping Tools (NTC-001)	-
168	1758	Junos Space 2500 - Large Appliance, etc.	-
169	1761	Dell Latitude 3400, etc.	-
170	45	DS-2CED2121G0-I 2MP IP IR Fixed Dome, etc.	-
171	288	Molex 24 Port Jack Panel, etc.	-
172	361	Pulse Secure Appliance 5000 Base System, etc.	-
173	456	Delta make 3 KVA UPS	-
174	589B	CCTV System, etc.	-
175	725	1 KVA Make Eaton 9E, etc.	-
176	956	IP Network Outdoor Bullet Camera, etc.	-
177	1289	HP Desktops	-
178	1290	Dell Laptops	-
Library			-
179	1088	6 Touch Kiosk with 32" display, etc.	-
180	1102	Samsung 32" TV	-
181	1165	Staff Station	-
182	1194	HP LaserJet M180N Printer	-
183	1264	Samsung DB 55E	-
184	1283	Partition in the Mezzanine with Ply and Sunmica, etc.	-
185	1338	Dell LED Monitor 23-8"	-
186	1420	Camera CCTV	-
187	1561	Crealitiy 3D Ender-3	-
188	1666	Printer with Black and White HP 203D	-
189	1667	Sony HeadPhone	-
190	1696	Box Case Triangular Profile, etc	-
191	919	IR Up to 2 Megapixel (1920x1080) resolution, etc.	-
192	1235	High Performance System (PC)	-
Management			-
193	1215	HP Desktop Pro MT	-
194	1202	Inspiron 14 5000 series	-
Maths			-
195	807	Apple Macbook Pro - 15 inch	-
196	957	HP EliteOne 800 G4 AiO	-
197	1314	Dell XPS 15 9570 Laptop	-
Mechanical Engg.			-
198	1267	acA1300-200um Ace Series USB 3.0 Monochrome Camera, etc.	-
199	1281	Car Alto K-10 VXI, Color: S. White	-
200	1293	HiFi TM Umbilical Vein Endothelial Cells	-

S.No	Inden t No.	Particulars	Used for Courses / Thesis / dissertation Computational / Administrative Work
201	1294	Superni 718 (80x140x80) in mm, etc.	-
202	1200	Acer Laptop Aspire 5	-
203	1201	HP LaserJet M180N Printer	-
204	1224	Labopol-20, etc.	-
205	1555	Digital Imaging Camera for Microscope, etc.	-
206	1584	Intel Xeon E5-2620, etc.	-
207	1585	Antec Titan Eatx Tower Server Chassis	-
208	1620	EMT Sports - Electric Bicycle Conversion Kit	-
209	1621	Serial 16x2 Character LCD	-
210	1622	Samsung Cell Premium Li-Ion 24V, etc.	-
211	1685	Maxspare VM 65/M10 Anti Vibration Mounts	-
212	1709	Contact Angle Meter with Dispenser	-
213	1723	HP Laserjet Printer M427fdn	-
214	1724	Apple 21.5 inch, iMac	-
215	1729	Digital Multimeter, etc.	-
216	1769	Ant PC Pheidole CL700I	-
217	1770	SK - 14 Solar Cooker, etc.	-
218	1771	Testo 425 - Air Velocity Meter, etc.	-
219	1814	Dell Desktop	-
220	1824	Kirlosker Diesel Generator Set	-
221	133	Semi Automatic Fly Ash	-
222	177	Computer Workstation / Server	-
223	694	GRIMM Portable Aerosol Spectrometer, etc.	-
224	695	Onset Data Logger & Sensor	-
225	699	The Direct Sense IAQ 10" Tablet Standard, etc.	-
226	959	Heat Transfer by Radiation	-
227	1176	Computer Workstation - Netweb	-
228	1236	ANT PC Pheidole	-
Pharmacy			-
229	1130	Shimadzu HPLC System	-
230	1164	Stability Test Chamber	-
231	1173	Booster Pump Variable Drive, etc.	-
232	1292	ER Stree-induced Autophagy, etc.	-
233	1319	Variable Angle Spectroscopic Ellipsometer	-
234	1320	Target-Gold 57mm x 0.1 mm thick	-
235	1412	Plate Express Thin Layer Chromatography System	-
236	1463	BioRad ChemiDoc XRS+System, etc.	-
237	1549	Delta, make 6KVA/6K Watt	-
238	1556	Jasco V-750ST UV/VIS Spectrophotometer, etc.	-
239	1557	Shimadzu UV-VIS Spectrophotometer, etc.	-
240	1629	Desktops	-
241	1672	HP Probook 430G5	-
242	1701	Impedance Analyzer, etc.	-
243	1744	Modular Compact Rheometer, etc.	-
244	1745	Fully Spectral Confocal Laser Scanning Microscope	-
245	1763	Double Door Horizontal Autoclave "MAC", etc.	-
246	1772	IP Phone Openstage 15 HFA	-
247	1782	Binocular Microscope	-
248	1783	Projection Microscope	-
249	1789	SES-204ES Weighing Balance	-
250	1790	Water Bath (Double Wall), etc.	-
251	1791	Vacuum Pump (Double Stage), etc.	-
252	1793	Cole-Parmer Digital Hot Plate Stirrer	-
253	1795	MP-10C Circulating Bath	-
254	1796	Heidolph Rotary Evaporator, etc.	-
255	1797	Godrej Double Door Freeze	-

S.No	Inden t No.	Particulars	Used for Courses / Thesis / dissertation Computational / Administrative Work
256	1800	Weighing Balance	-
257	1807	Deep Freezer – 20	-
258	1810	Canon Printer	-
259	104	Samsung Freeze RT 39M5538	-
260	457	Biosafety Cabinet, etc.	-
261	745	Heidolph Rotary Evaporator	-
262	1189	Workstation	-
Physics			-
263	1059	Peristaltic Pump, etc.	-
264	1068	Magneto resistance measurement kit, etc.	-
265	1118	Macbook Air	-
266	1119	Argon Gas Cylinder, etc.	-
267	1138	Computer Node by Using Tyrone Camarero Server	-
268	1141	Projector NEC MX301XG	-
269	1258	QCM200 5 MHz Crystal	-
270	1336	Solid State Drive (SSD) 2 TB WD, etc.	-
271	1608	Gas Cylinder Trolley Mild Steel Big size	-
272	1631	Brewster's Angle Apparatus	-
273	1726	LCD Project Panasonic	-
274	1762	Rigaku's X-Ray Diffractometer Systems	-
275	910	Digital Storage Oscilloscope, etc.	-
276	1015	Compatible Chiller for XRD System	-
277	1146	Delta Make 20KVA UPS System	-
278	1194	Elite 800 Desktop, etc.	-
279	1238	HP EliteOne 1000 G4 AiO	-
280	1444	MacBook	-
WILPD			-
281	1175	Training System: Level Control, etc.	-
282	1248	NI ELVIS III, Hardware, etc.	-
283	1385	HPE DL 360 Gen 10 Xeon, etc.	-
284	1386	HPE DL 360 Gen 10 Xeon, etc.	-
285	479	6 No.s of Hardware System + Integration, etc.	-
286	480	Raptor GCM 80 Programmable ECU, etc.	-
287	481	Pearson E-Books	-
Workshop			-
288	1466	Spot Welding Machine, etc.	-
289	1605	Piezo-Multicomponent Dynamometer, etc.	-
290	1646	Samsung QB 49 J LED TV	-
291	1647	Workout-height Adjustable tables, etc.	-
292	1648	Godrej Cabinet	-
293	1725	CNC Smarturn Machine, etc.	-
294	1728	Atlas Copco Air Compressor, etc.	-
295	1743	Surface Roughness Tester, etc.	-
296	194	Indef Make Chain Pullye Block	-
297	418	Air Conditioners Hitachi	-
298	633	AVT for SJ 411 with SJ210 with granite top, etc.	-
299	1064	Hitachi 2.0 ton 3 star inverter AC	-
300	1283	APC 6 KVA / 6000W Online UPS	-
Public Relations			-
301	1108	Conveyer Bread Toaster	-
302	1109	Commercial Pulveriser	-
303	1115	LED Samsung DC32E	-
304	1284	Four Door Refrigerator, etc.	-
305	1483	LG Split Air-Conditioner 1.5 ton	-
306	1577	2 Ton LG Inverter Split AC	-
307	1720	Geyser 25 LTR Bajaj Shakti Plus	-

S.No	Inden t No.	Particulars	Used for Courses / Thesis / dissertation Computational / Administrative Work
308	1721	Desert Cooler Exhaust Fan ISO Brand	-
309	1079	HP Color LaserJet Pro M254dw Printer	-
310	1127	Dell Desktop	-
311	1128	Imaging Drum for HP MFP 176n color printer	-
312	1776	ZedBoard Zynq-7000, etc.	Team Anant
313	1633	Massey-Ferguson / TAFE Tractor	TSS
314	1634	Trolley Tractor	TSS
315	1687	APC UPS BR1500G-IN	VC Office
316	1588	HP M452DW Printer	AFS
317	1075	GBC ShredMaster 31 SX	FAD
318	1719	Printer (Canon Image Class LB7780Cx)	GAU
319	1241	Sony Bravia 101.6 cm LED TV	Infant Care
320	504	HP LaserJet Pro 500 Color MFP M570dw	CPU
321	1341	Breath Alcohol Analyser Alcovisor - Jupiter X	CSO
322	1069	APC Brand 1000 VA UPS, BX 1100	CSO
323	1536	Jeep Thar CRDe B.S. IV	CSO
324	1322	Apple ipad 256 GB 10.5inch	Dean Admin
325	1315	Dell Desktop	Dean Admin
326	1446	HP LaserJet Pro MFP M226dw Printer	Dean Admin
327	1263	Double Door Frost Free Refrigerator, Capacity 394	Medical Centre
328	1258	Digital Weight Machine Good Quality	Medical Centre
329	1431	Laptop	Placement Unit
330	1455	HP LaserJet Pro MFP M226dw Printer	PSD
331	692	Nikon Camera DSLR D7500, etc.	Repro
332	1229	Primacy Printer (Double Side) ID Card	SWD
333	1393	Full Panel YMCKO Ribbon, etc.	SWD
334	1788	Grabo vinyl Flooring, etc.	SWD
335	1220	Hitachi 2.0 ton 3 star inverter AC	SWD
336	1313	HP Elitebook 830 G6	SWD

LIST OF SOFTWARE / LICENSE PROCURED FOR THE YEAR 2019

1	129	Red Hat Enterprise Linux Server, etc.	EEE
2	170	PDF Editor	GAU
3	229	Mastercam Educational Suite	Mech. Engg.
4	239	Ricardo Software, Type: Grant, Term: 3 Years	WILPD
5	304	Maple2018: Multi user floating License-New	Management
6	306	Adobe Acrobat Pro 2017 Edu Lic.	VC Branch
7	359	AV Software Subscription Renewal	IPC
8	360	Eviews 10 Enterprise Edition-Single User (Academic)	ECO & Finance
9	361	IBM SPSS Base Module Version 25.0, etc.	Mech. Engg.
10	436	Renewal of Support of Smart Zone 100 Controller	IPC
11	496	Grammarly S/w	ECO & Finance
12	578	MyDartfish Pro (Yearly)	Mech. Engg.
13	581	Nvivo 12 Plus - Student License	Management
14	589	EES Professional, etc.	Mech. Engg.
15	601	Photoshop, etc.	Repro
16	666	Lingo Software	Management
17	713	Rocscience Academic Bundle Advanced: includes S/w	Civil
18	752	GaBi Professional (Perpetual) Software	Chemical Engg.
19	890	Kodak Capture Pro Software	AUGSD
20	912	AspenOne for Universities	Chemical Engg.
21	933	Transactional email with high deliverability	IPC
22	935	XG 750 Security Appliance, etc.	IPC

23	955	eVSM Software	Chemical Engg.
24	980	Mathematica Single User Perpetual Desktop License	Physics
25	1018	TAH Standard Configuration Matlab	IPC
26	1019	GID 14 Version (USB License), 02 Users (Academic)	Civil
27	1103	PDF 2 on DVD, Release 2019	Chemistry
28	1242	The Unscrambler X, Version 10.4	EEE
29	1354	IBM SPSS Amos Version 25.0	Management
30	1355	Eviews 10 Enterprise Edition	Management
31	1372	Abaqus Software - Teaching Edition	Civil
32	1373	Micro Survey CAD 2018 Premium	Civil
33	1381	Design for Manufacture & Assembly Software	WILPD
34	1397	VNC Connect - Enterprise Subscription 1 Year	EEE
35	1398	Synopsys EDA Tools	EEE
36	1436	UDEC Standard License, etc.	Civil
37	1545	UC Suit License of myPortal	IPC
38	1581	ArcGIS EIGAP Basic 5 users for 3 years	Civil
39	1612	1 Core Paid up License of LS-DYNA Software	Civil
40	1637	Eviews	ECO & Finance
41	1644	NI Academic Site License - Lab View	Mechanical
42	1681	STATA-SE Modules Software	ECO & Finance
43	1684	Microsoft OVS-ES Subscription	IPC
44	1710	Additional two year License of XG 750 Full Guard Plus	IPC
45	1746	ChemDraw Professional 18 windows - 6 Users	Chemistry
46	1753	Turnitin Feedback Studio	IPC
47	1765	Comsol Multiphysics, Single User, etc.	Civil
48	1826	Automation Studio Educational 6.3 Complete Package	WILPD
49	161	ChemDraw Professional 18 Windows-4 Users	Chemistry
50	172	Adobe Creative Cloud for Teams	Bio
51	284	Homer Pro ® Microgrid Software	EEE
52	377	Trigram-S2R-1 CST Studio Suite	EEE
53	306	Ansys Academic Research Mechanical TECS, etc.	WILPD
54	215	Course: Introduction to Data Science, etc.	WILPD
55	400	PSS Next Day Ship Support for EX9204-Base3A	IPC
56	476	SEQRITE AV Software Renewal	IPC
57	819	IBM SPSS Amos Version 26.0	Management
58	1003	Adobe Creative Cloud for Teams	Repro
59	1035	Antivirus Quick Heal Total Security	AFS
60	1047	Plaxis 2D Suite Academic Perpetual License	Civil
61	1067	Comsol Multiphysics, Class Kit License, etc.	Mechanical Engg.

SENIOR OFFICERS AT PILANI CAMPUS

Institute Wide:

Vice-Chancellor: Prof. Souvik Bhattacharyya

Registrar: Mr. Ernest Samuel Ratnakumar J

Chief, Finance Officer: Mr. Arun Khetan

Dean, Academic-Undergraduate Studies (AUGS): Prof. Ajit Pratap Singh

Dean, Academic-Graduated Studies & Research (AGSR): Prof. Srinivas Krishnaswamy

Dean, Alumni Relations: Prof. Arya Kumar

Dean, Faculty Affairs: Prof. Souri Banerjee

Dean, International Programmes and Colloboration: Prof. Suman Kapur

Dean, Practice School: Prof. S. Gurunarayanan

Dean, Sponsored Research and Consultancy: Prof. Sunil Bhand

Dean, Work Integrated Learning Programmes: Vacant

Campus Specific:

Director: Prof. Ashoke Kumar Sarkar*

Dean, Administration: Prof. Sanjay Kumar Verma

Associate Dean, Academic- Undergraduate Studies: Prof. Suresh Gupta

Associate Dean, Academic- Graduate Studies & Research: Prof. Jitendra Panwar

Associate Dean, Faculty Affairs: Prof. Anshuman Dalvi

Associate Dean, Sponsored Research and Consultancy: Prof. Navneet Gupta

Associate Dean, International Programmes and Collaboration: Prof. Dalip Kumar

Associate Dean, Work Integrated Learning Programmes: Prof. P. Srinivasan

Associate Dean, Work Integrated Learning Programmes: Prof. Hitesh Datt Mathur

Associate Dean, Practice School: Prof. Anil Gaikwad Bhanudas

Associate Dean, Student Welfare : Prof. Srikanta Routroy

Associate Dean, Alumni Relations: Prof. Rajeev Sakhuja

Off-Campus:

Associate Dean, WILP:

1. Prof. G. Venkiteswaran

2. Prof. P.B. Venkataraman

Associate Dean, Practice School : Prof. Annapoorna Gopal

UNIT CHIEFS

<u>UNIT</u>	<u>NAME</u>
1. Centralised Purchases	Prof. N.V. Muralidhar Rao
2. Placement	Prof. K.S. Sangwan

HEADS OF DEPARTMENTS

<u>DEPARTMENT</u>	<u>NAME</u>
1. Biological Sciences	Prof. Prabhat Nath Jha
2. Chemical Engineering	Prof. Hare Krishna Mohanta
3. Chemistry	Prof. Saumi Ray
4. Civil Engineering	Prof. Anshuman
5. Computer Science & Information Systems	Prof. Poonam Goyal
6. Economics & Finance	Prof. Arun Kumar Giri
7. Electrical & Electronics Engineering	Prof. V.K. Chaubey
8. Humanities & Social Sciences	Prof. S.K. Choudhary
9. Management	Prof. Jyoti
10. Mathematics	Prof. B.K. Sharma
11. Mechanical Engineering	Prof. Mani Sankar Dasgupta
12. Pharmacy	Dr. Paul Atish Tulshiram
13. Physics	Prof. Raj Kumar Gupta

FACULTY-IN-CHARGE/OFFICIAL

<u>CENTRE/SECTION/ENTITY</u>	<u>NAME</u>
1. First Degree Admission Tests	Dr. S.U Belgamwar
2. Higher Degree & Ph.D. Admission Tests	Prof. Shamik Chakraborty
3. Estate Management	Prof. Dipendu Bhunia
4. Public Relations, VFAST, Transport & Cafeteria	Prof. Virendra Singh Nirban
5. Centre for Innovation, Incubation & Entrepreneurship	Dr. Satyendra Kumar Sharma
6. Educational Technology Support	Dr. Virendra Singh Shekhawat
7. Institutional Knowledge Analysis Cell	Prof. Vishal Saxena
8. Infant Care Centre and Institute Functions	Prof. Devika
9. Societal Development (NSS and Nirmaan)	Dr. Ashish Tiwari
10. Publications and Media Relations	Prof. Sangeeta Sharma
11. Time Table	Prof. Udayan Chanda
12. Registration & Counseling	Dr. Jitendra Singh Rathore
13. Information Processing Centre and Software Development and Educational Technology	Prof. Yashvardhan Sharma
14. Instrumentation & Reprography	Prof. Sheth Pratik N.
15. Teaching Learning Center	Dr. Kaushar Vaidya
16. Security Section	Shri Kishore Singh
17. Medical Center	Dr. Rajiv Gupta, CMO
18. Human Resources Section	Mr. Arvind Soundarajan
19. Workshop	Prof. K.S. Sangwan

CHIEF WARDEN

Prof. Navin Singh

WARDENS

BHAWAN

1. Ashok
2. Bhagirath
3. Budh
4. Gandhi
5. Meera

6. Malviya - A,B,C
7. Ram
8. Rana Pratap
9. Krishna
10. Sir C.V. Raman
11. Vishwakarma
12. Srinivas Ramanujan
13. Vyas
14. Day Scholar (Warden)

NAME

Dr. Kumar Sankar Bhattacharya
Dr. Shuvendu Narayan Patel
Dr. Sharad Shrivastava
Dr. Nitin Chaturvedi
Prof. (Ms.) Surekha Bhanot
Prof. (Ms.) Kusum Lata
Dr. Trilok Mathur
Prof. Dipendu Bhunia
Dr. Amol M Marathe
Dr. Arun Kumar Jalan
Dr. Paritosh Shukla
Dr. Krishnendra Shekhawat
Dr. Krishna M
Dr. Sunil Kumar Dubey
Prof. Ravi Kant Mittal

NON-RESIDENT WARDENS

BHAWAN

1. Ashok
2. Bhagirath
3. Budh
4. Day Scholar
5. Gandhi
6. Krishna
7. Malaviya
8. Malaviya (MSA)
9. Meera

10. Ram
11. Rana Pratap
12. Sir C.V. Raman
13. Srinivas Ramanujan
14. Vishwakarma
15. Vyas

NAME

Dr. Harikrishanan Gopinadhan Nair
Dr. Murali Palla
Dr. Niladri Sarkar
Prof. Ravi Kant Mittal
Prof. Devendra Kumar
Dr. Bibhas Ranjan Sarkar
Dr. Biswanath Layek
Dr. Praveen Kumar A V
Prof. Devika
Prof. Rakhee
Dr. Sailaja Nandigama
Dr. M M Pandey
Dr. Kamlesh Tiwari
Dr. Rajiv Taliyan
Dr. Srinivas Appari
Dr. Prashant U Manohar
Dr. Ashish Tiwari

LIBRARIAN

Shri Giridhar M. Kunkur

HEAD, ACCOUNTS & FINANCE

Shri Satyen Sharma

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Part B2: K.K. Birla Goa Campus

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BITS PILANI - KK BIRLA GOA CAMPUS**B2.1 SENIOR OFFICERS****New appointments**

During the year, the following new administrative appointments were made:

The names and designations of senior officers of Goa Campus are given in 'Annexure B2-1'.

B2.2 ADMISSIONS

The number of students admitted in each of the semester is given below.

	Integrated First Degree Programmes	Higher Degree Programmes	Doctoral Programmes (PhD)	Total
Second Semester 2018-19	-	-	45 (24)	45 (24)
First Semester 2019-2020	911 (101)	169 (41)	36 (15)	1116 (157)

The programme-wise details are given in Annexure B2-2 (Part B2).

B2.3 DUAL DEGREES AND TRANSFERS**(a) Dual Degree**

During the Academic year 2019-2020, 268 students were permitted to work concurrently for two first degrees under the Dual Degree scheme. See Annexure B2-3 (Part B2) for details.

(b) Transfer

During the Academic year 2019-20, 13 students [(i) Within same tier :12; (ii) Integrated First Degree to Higher Degree : 00, (iii) Higher Degree to Ph.D.: 01] were permitted to transfer.

B2.4 ACADEMIC CALENDAR

The Academic year of the Institute is divided into two semesters and a summer term.

	Starting Date	Ending date	Number of Instruction days (excluding examination days)
Second Semester 2017-2018	6-Jan-2018	14-May-2018	78
First Semester 2018-2019	1-Aug-2018	14-Dec-2018	84
Summer Term 2017-2018	22-May-2018	14-Jul-2018	47

B2.5 COURSES OFFERED

The number of courses, offered during the year 2018 is as follows:

	Number of Courses offered
Second Semester 2017-2018	275
First Semester 2018-2019	304
Summer Term 2017-2018	8

During the year, the following new courses were introduced.

S.No	Comp code	Course No	Course Title
1	2264	BIO F217	Lab For Wat, Sani & Soli Waste
2	2018	BIO G661	Gene Toxicology
3	2277	BITS F314	Game Theory & Its Application
4	2265	BITS F315	Introduction To Cognitive Neur
5	2178	CHE F422	Petroleum Refining Technology

S.No	Comp code	Course No	Course Title
6	1583	CHEM F333	Chemistry Of Materials
7	2034	CHEM G521	Environmental Chemistry
8	1380	ECE F211	Electrical Machines
9	1381	ECE F212	Electromagnetic Theo I
10	1383	ECE F214	Electronic Devices
11	1382	ECE F215	Digital Design
12	2184	ECON F345	Behavioral Economics
13	1547	ECON F355	Buss Anal & Valuation
14	1254	EEE F422	Modern Control Systems
15	1257	EEE F435	Digital Image Processing
16	1942	FIN F414	Financial Risk Analy & Manag
17	1131	GS F212	Environ Dev & Climate Ch
18	1171	GS F233	Public Policy
19	2278	HSS F313	Intro To Contemprory Arts
20	1588	HSS F314	Maritime Studies & Blue Econ
21	1906	HSS F353	Philosophy Of Aesthetics
22	1882	MATH F420	Mathematical Modeling
23	2190	MATH F423	Intro To Algebraic Topology
24	1481	MATH F431	Distribution Theory
25	1869	ME F485	Num Tech FI Flow & Heat Trans
26	2063	MEL G622	Intro To Artif Neural Net
27	932	MEL G625	Adv Analog & Mix Sig Des

B2.6 REGISTRATION OF STUDENTS

The registration processes for both the semesters was completed on the first day of each semester.

	Number of students registered
Second Semester 2018-2019	3659
First Semester 2019-2020	4040
Summer Term 2018-2019	836

Details of Registration of students for the Second Semester 2017-2018 are given in **Annexure B2-4**.

B2.7 ACADEMIC AND PROFESSIONAL COUNSELING

During the year, the Academic Counseling Board (ACB), estimated the extent to which students under its purview fell short of the minimum academic performance, drew up a time-frame within which afflictions were to be removed, determined the package of courses for their registration in each semester and laid down the necessary stipulations for achieving intermediate targets. It further monitored their progress and applied necessary mid-course corrections, wherever required. The statistical summary of the number of On-campus students under its purview during the year is given below:

	II Semester 2018-2019	I Semester 2019-2020
Total number of students under the purview of ACB at the beginning of the semester	63	120
No. of students declared out of its purview at the end of the semester	29	51
No. of students who left the Institute during the semester	0	0
No. of new students who came under the purview of ACB at the end of the semester	86	56
Total No. of students under the purview of ACB during the next semester	120	125

Academic Counseling cell organized the counseling of students who were under the purview of ACB. It involved the involvement of faculty members as advisors and an external professional counselor whom the students could consult. The parents of students were also called to interact with the ACB.

B2.8 AWARD OF DEGREES AND MEDALS***Award of Degrees***

During the year, a total of 684 students graduated. The details on the award of degrees are given below.

	Number of degrees awarded
85th Award (vide Board of Governors meeting)	
85.01 held on 28.4.19	4(0)
85.02 held on 05.7.19	6(3)
85.03 held on 05.7.19	878(127)
85.04 held on 05.7.19	2(0)
85.05 held on 09.7.19	1(0)
85.06 held on 09.7.19	1(0)
86nd Award (vide Board of Governors meeting)	
86.01 held on 05.9.19	4(2)
86.02 held on 17.10.19	1(0)
86.03 held on 17.10.19	2(2)
86.04 held on 02.11.19	1(0)
86.05 held on 07.12.19	2(0)
86nd Award	
86.06	64(9)
86.06 (subject to approval from vide Board of Governors meeting in its next meeting)	
Total:	966(143)

Statistical details of these degrees are given in 'Annexure B2-5, Annexure B2-6'

Award of Medals for Academic Year 2018-2019

The list of students who were awarded various medals, for the students graduated at the end of First Semester, Second Semester and Summer Term of the academic year 2018-2019 in the following table:

S.N.	ID.No.	Name	Sex	CGPA Obtained	Position Obtained	Type of Medal to be Awarded
Integrated First Degree Programmes (No. of students: 635)						
1	2014A3A70217G	MADHU ADAV M J .	M	9.84	FIRST	GOLD
2	2014B3A70792G	KATHAN KASHIPAREKH .	M	9.65	SECOND	SILVER
3	2015A7TS0053G	DEVVRIT .	M	9.63	THIRD	BRONZE

B2.9 CAMPUS INTERVIEWS AND PLACEMENT FOR THE AY 2018-19

Number of companies which conducted campus interviews	170
No of Students interviewed	6519
No of offers made	602

The statistics (discipline-wise) and the list of organizations which conducted campus interviews during the year is given in Annexure B2-7 (Part B2).

B2.10 DEPARTMENT-WISE REPORT

In the following pages, a brief summary of the main activities and achievements of different departments of the campus is highlighted.

B2.10.1 Department: Biological Sciences

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	05
Associate Professors	08
Assistant Professors	06
Lecturers	00
Visiting Faculty	00
Visiting Assistant Professors	00

Head of the Department : Prof. Srikanth Mutnuri

Contact details : srikanth@goa.bits-pilani.ac.in

Number of Ph.D. Scholars : 43

Full Time : 40

Part Time : 03

Aspirant Scheme : 00

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Merina Dhara	(2013PHXF0001G)	“Application of Network Based Tools and Centrality Measures for Identification of Nove1 Drug Targets against Mycobacterium tuberculosis”	Dr. Veeky Baths	N/A

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Enzymatic pretreatment for enhancing Anaerobic Co-digestion of sewage sludge / Septage /Food waste/ MSW for energy production.	Biological Sciences	Srikanth Mutnuri	N/A	LNT	N/A	12,39,000
2	Development of Novel Biofilm Resistant Coat for Implant Devices from Moringa oleifera Leaf Extracts.	Biological Sciences	Sumit Biswas	N.N. Ghosh	ICMR	N/A	36,00,000
3	Restoration of windowpane oyster (Placuna placenta Linnaeus, 1758).	Biological Sciences	Sumit Biswas	N/A	WTI	N/A	1,70,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
4.	"Fine napping of the chromation structure of Key genes involved in reproductive maturation & egg production in dengue vector mosquito Aedes aegyti	Biological Sciences	Tusar Tirtha Saha	N/A	SERB	N/A	3159412

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Recovery and purification of enzymes.	Biological Sciences	Srikanth Mutnuri	-	Zuari foods and Farms Pvt Ltd	-	7,15,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Global Sanitation Graduate School	Biological Sciences	Srikanth Mutnuri	-	IHE Delft	-	459000 USD
2	Novel micro and nano sensors for antibiotic resistance measurement.	Biological Sciences	Sunil Bhand	Dr. Utpal Roy	SPARK	Dr. Bin Xie, Lund University, Sweden	51,00,000

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Studies on the effect of Russell's Viper Venom on regulation of cell morphology, apoptosis and further characterization of the active compound(s), ,	Biological Sciences	Dibakar Chakrabarty	Angshuman Sarkar	ICMR	-	28,00,000
2	"Exploration of Antifungal Lead Molecules from the Wild-type Bacillus subtilis RLID 12.1– purification and molecular characterization along with optimizing production".	Biological Sciences	Utpal Roy	Prof. Arunaloke Chakrabarti	DBT	PGIMER, Chandigarh	48,69,000 3 years
3	Screening, Isolation and Identification of Novel Antimicrobial Compounds from Potential Mangroves of Goa.	Biological Sciences	Kundan Kumar	Utpal Roy	CSIR	-	20,00,000 3 years
4	Study on the role of TIP family members in arsenite accumulation and their transport in rice.	Biological Sciences	Kundan Kumar	Dr. Sudhakar Srivastava	BRNS	P.SUPPRASA NNA	29,40,000 3 years

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
5	Studies on the effect of Evaluation of antifungal activity of Lipopeptides from a wild type Bacillus sp. Mouse Models of invasive Candidiasis, Cryptococcosis and Aspergillosis,	Biological Sciences	Utpal Roy	Prof. Arunaloke Chakrabarti	SERB	PGIMER, Chandigarh	72,51,000 (Approved)
6	Studies on the effect of Bioleaching of Limestone and clay to remove iron and other transition elements (Ti, Cr, Mn, Ni & Zn) (19-20),	Biological Sciences	Srikanth Mutnuri	-	ABSTCP L	-	10,00,000
7	Studies on the effect of Bioremediation and digital documentation towards the conservation of Cultural heritage , (19-21)	Biological Sciences	Srikanth Mutnuri	Dr. Geetha Ramprasad Joshi	(DST – SHRI)	-	28,86,000
8	Studies on the effect of Small Scale and Sustainable Household grey water recycling (Feb.,2017 to Feb 2020),	Biological Sciences	Srikanth Mutnuri	Dr. Hoysall N Chanakya	DST – imprint	-	32,00,000
9	Studies on the effect of Developing Bioactive Compound – Enriched functional food Ingridients for Dillenia indica and valorization of its pomace. April 2017 to March 2020 ,	Biological Sciences	Srikanth Mutnuri	Anasuya Ganguly	DBT	Dr. Maneshi Puryakatsa, Dr. Abhijit Borah, Assam Agricultural University	16,86,000
10	Studies on the effect of Response of copepods to interactive effects of crude oil pollution and warming , 2nd April 2018 to 1st April 2020,	Biological Sciences	Lalita	Mentor: Srikanth Mutnuri	SERB	-	19,20,000
11	Cloning of spot blotch disease resistance gene in wheat.	Biological Sciences	Rajesh Mehrotra	-	CIMMYT	-	15,00,000
12	Studies on the gene regulation involved in the lytic-lysogenic switch in Staphylococcus aureus temperate bacteriophage Phi11	Biological Sciences	Malabika Biswas	-	DST-SERB,.	-	21,00,000 3 years
13	Principal Investigator in, "Introducing cyanobacterial bicarbonate transporters into C3 plants for enhanced photosynthetic performance"	Biological Sciences	Sandhya Mehrotra	Rajesh Mehrotra	SERB Core Research Grant	-	37,73,000 3 years (2017-2020)"
14	Studies on Exploring the effects of polyamine and associated metabolic regulation of hypothalamic GnRH-GnIH synthesis and release during ageing in BALB/cJ mice	Biological Sciences	Arnab Banerjee	Dr. Rajiv Taliyan	SERB	-	34,00,000
15	TNF Alpha Mediated Alternative Splicing in Type 2 Diabetes; A genome Wide Approach	Biological Sciences	Ms. Jiss Maria Louis	Mentor :Dr. Indrani Talukdar	DST(WOS)	-	20,68,000 24th July 2019 3 years
16	Development of PCDA-liposome based detection kit for Alzheimer's disease biomarker".	Biological Sciences	Amrita Chatterjee	Malabika Biswas	DST-SERB	-	26,63,200

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	"Literacy and Cognition Project".	Biological Sciences	Veeky Baths	Dr. Falk Huettig	Max Planck Institute of Psycholinguistics	-	444493.14
2	Studies on the effect of POS "Sanitation , water and solidwaste Management" at the BITS, India – March 2019 to November 2019	Biological Sciences	Srikanth Mutnuri	N/A	EAWAG Switzerland	-	6'165 CHF

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Novel sustained release biodegradable polymer coated urea and zinc nanofertilizers for synchronizing fertilizer uptake, improving productivity and prevention of bacterial wilt disease in chilli (<i>Capsicum annum L</i>)	Biological Sciences	Dr. Gauri Anil Achari	Mentor: Dr. Meenal Kowshik	SERB	-	19,20,000
2	Studies of the effects of quinacrine (QC) on regulation of Rho like small-GTPase and apoptosis in human lung and breast cancer cell lines cultured in vitro	Biological Sciences	Dr. Angshuman Sarkar	Dr. Indrani Talukdar	DBT	-	23,55,000
3	Lanthanide doped hydroxyapatite based nanomaterials for theranostics applications: Sensing, Imaging, and Therapeutics (Sanction letter shows a different title)	Biological Sciences	Dr. Meenal Kowshik	Dr. Sutapa Roy Ramanan Dr. Geeta Varier	DST	-	39,64,771
4	Academia Engagement on Decentralized Sanitation under Sanitation Capacity Building Platform	Biological Sciences	Dr. Srikanth Mutnuri	-	National Institute of Urban Affairs	NIUA New Delhi	12,80,000
5	Demonstration of a waste to energy project by anaerobic Codigestion of food and septage	Biological Sciences	Dr. Srikanth Mutnuri	-	DBT	-	1,61,60,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
6	Home automation and smart wheel chair based on electroencephalography (EEG) signals produced in the brain	Biological Sciences	Dr. Veeky Baths	Dr. Bharat Deshpande	CSRI DST	-	38,95,600

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty in Journals**

- Anusha Singh, Joseph RD Fernandes, Arnab Banerjee, G Chhabra, A Krishna Title : Liraglutide modulates adipokine expression during adipogenesis, ameliorating obesity, and polycystic ovary syndrome in mice, Journal: Endocrine (Springer) accepted 2019, Impact Factor 3.179
- Priya Sharma, Srikanth Mutnuri Title: Nutrient Recovery and Microbial Diversity in human urine fed Microbial Fuel Cell. Journal: Water Science and Technology, accepted 2019, Impact Factor 1.247
- Ketaki Deshmukh, Meenal Kowshik, Sutapa Roy Ramanan Title: Novel one step transformation method for Escherichia coli and Staphylococcus aureus using arginine-glucose functionalized hydroxyapatite nanoparticles, Journal: Materials Science and Engineering: C. Vol: 96 Pg No: 58-65
- Shaik, M. Monsoor, Meenal Kowshik, Dapkekar, A., Rajwade, J. M., Jadhav, S. H. Title: Antioxidant-antibacterial containing bi-layer scaffolds as potential candidates for management of oxidative stress and infections in wound healing. Journal: Journal of Materials Science: Materials in Medicine Vol: 30, Pg 13, Issued 1
- Sharanabasava D Hiremath, Amrita Chatterjee, Ram Uttam Gawas, Starlaine Mascarenhas, Anasuya Ganguly, Mainak Banerjee. Title: A water soluble AIE-gen for organic-solvent-free detection and wash-free imaging of Al³⁺ ions and subsequent sensing of F⁻ ions and DNA tracking. Journal: New Journal of Chemistry. Volume: DOI: 10.1039/C9NJ00418A, Issued No: Feb 2019, Impact Factor 3.3
- Kadu Kavita, Sutapa Roy Ramanan, Goutam Ghosh, Lata Panicker, Meenal Kowshik. Title: Role of Surface Charges on Interaction of Rod-Shaped Magnetic Hydroxyapatite Nanoparticles with Protein. Journal: Colloids and Surfaces B: Biointerfaces. Vol: 177, Pg No: 362-369
- Ketaki Deshmukh, Meenal Kowshik, Sutapa Roy Ramanan Title: A novel method for genetic transformation of C.albicans using modified-hydroxyapatite nanoparticles as a plasmid DNA vehicle. Journal: Nanoscale Advances, Volume: DOI: 10.1039/c8na00365c
- Pinky Dhatteval, Rajesh Mehrotra, Samyadeep Basu and Sandhya Mehrtora. Genome wide analysis of W-box element in Arabidopsis thaliana reveals TGAC motif with genes down regulated by heat and salinity. Journal: Scientific reports. Vol: 9, Pg No: (2019) 9:1681 | <https://doi.org/10.1038/s41598-019-38757-7>, Impact Factor: 4.1
- Deepthi Das, Judith M. Braganca, Isha Kalra, Kabilan Mani, Bhakti B. Salgaonkar. Title: Characterization of extremely halophilic archaeal isolates from Indian salt pans and their screening for production of hydrolytic enzymes. Journal: Environmental Sustainability. Vol: <https://doi.org/10.1007/s42398-019-00077-x>.

10. Avijit Das, Malabika Biswas Title: Cloning, overexpression and purification of a novel two-domain protein of Staphylococcus aureus phage Phi11. Journal: Protein Expr Purif. 2019 Feb, Vol: 154, PgNo: 104-111, Impact Factor:1.291
11. Vijay Hemmadi, Malabika Biswas, Avijit Das, Om Prakash Chouhan, Sumit Biswas. Title: Effect of ions and inhibitors on the catalytic activity and structural stability of S. aureus enolase, Journal: Journal of Biosciences; accepted for publication in Sept. 2019 issue. Impact Factor: 1.823
12. Ankush Saddhe, Kundan Kumar, Manali Malvankar, Suhas B Karle. Title: Reactive nitrogen species: Paradigms of cellular signaling and regulation of salt stress in plants, Journal: Environmental and Experimental Botany. Vol: 161, Pg No:86-97, Impact Factor:3.71
13. Ankush Saddhe, Kundan Kumar. Title: Molecular cloning and characterization of a novel sodium/hydrogen antiporter from a halophytic plant. Journal: Plant Gene, Vol: 19 , Pg No: 100-192
14. Rakesh Manuka, Kundan Kumar, Suhas B Karle. Title: OsWINK9 mitigates salt and drought stress effects through the modulation of multiple antioxidant systems in Arabidopsis. Journal: Plant Physiology Reports, Vol: In press.
15. Nilesh Dahibhate, Kundan Kumar, Ankush Saddhe. Title: Mangrove Plants as a Source of Bioactive Compounds: A Review. Journal: The Natural Product Journal, Vol:9, Pg. No:86-97
16. Gautam Krishnan and Utpal Roy. Title: A New Functional Model for Prediction of Chaperone Activity of the Recombinant M. tbAcr (α -Crystallin) Using Insulin as Substrate. Journal: Canadian Journal Infectious Disease. Med. Microbiology. Vol: Feb 2019, Pg No: 2053-2045, Impact Factor: 1.38
17. Gautam Krishnan and Utpal Roy. Title: Role of Molecular interactions and oligomerisation in Chaperone Activity of Recombinant Mycobacterium tuberculosisAcr. Journal: Iranian Journal of Biotechnology, Pg No: October 2019 , Pg No: 2370 issued No: 17(2), Impact Factor:0.34
18. RehanDeshmukh, S Bhand and Utpal Roy. Title: A Novel Molecular Quantitative Method for Rapid and Sensitive Detection of Escherichia coli from Roof-Harvested Rainwater. Journal: Analytical Methods. Vol: June 2019, Pg No: 3155-3167, Issued No: 11, Impact Factor:2.4
19. Vikash Kumar, Mainak Banerjee, Viraj G. Naik, Avijit Das, Sourayan Basu Bal, Malabika Biswas, Nupur Kumar, Anasuya Ganguly, Amrita Chatterjee. Title: Synthesis of a series of ethylene glycol modified water-soluble tetrameric TPE-amphiphiles with pyridinium polar heads: Towards applications as light-up bioprobes in protein and DNA assay, and wash-free imaging of bacteria. Journal: Tetrahedron. Vol: May 2019 , Pg No: 3722-3732, Issued No:75(2019), Impact Factor:2.38
20. Ram Chavan, Srikanth Mutnuri. Title: Demonstration of pilot scale integrative treatment of nitrogenous industrial effluent for struvite and algal biomass production, Journal: Journal of Applied Phycology. Issued No: 2019, Impact Factor: 2.63
21. Auradha, Amitabh Krishna, Anuradha, Arnab Banerjee, Amitabh Krishna. Title: Role of putrescine in ovary and embryo development in fruit bat Cynopterus sphinx during embryonic diapause. Molecular Reproduction and Development, Vol: October 2019 , Pg No: 10.1002/mrd.23281, Impact Factor: 2.12
22. Jiss Maria Louis, Indrani Talukdar, Vaz C, Balaji A, Tanavde V. Title: TNF-alpha regulates alternative splicing of genes participating in pathways of crucial metabolic syndromes; a transcriptome wide study. Journal: Cytokine, Vol: Cytokine. 2020 Jan;125:154815. doi: 10.1016/j.cyto.2019.154815. Epub 2019 Aug 30
23. Fiona Fernandes, Pooja Kotharkar, Adrija Chakravorty, Indrani Talukdar, Meenal Kowshik. Title: Nanocarrier mediated siRNA delivery targeting stem cell differentiation. Journal: Current Stem Cell Research & Therapy. Impact Factor: 2.6
24. Subhadeep Banerjee, Raviprasad Aduri, Subhadeep Banerjee, Indrani Talukdar, Arnab Banerjee, Advait Balaji and Arnab Gupta. Title: Type II diabetes mellitus and obesity: Common links, existing therapeutics and future developments. Journal: J Biosci. Vol: 44, Pg No: 50, Impact Factor: 1.419
25. Bibhudutta Mishra, Raviprasad Aduri, Raaghavi Raghuraman and Arjun Agarwal. Title: Finding small molecules with pan-serotype activity to target Dengue non-structural protein 1. Journal: VirusDis, Impact Factor:0.364
26. Tusar T Saha, Sourav Roy, Gaofeng Pei, Wei Dou, Zhen Zou, Alexander S Raikhel. Title: Synergistic action of the transcription factors Krüppel homolog 1 and Hairy in juvenile hormone/Methoprene-tolerant-mediated gene-repression in the mosquito Aedes aegypti. Journal: PLoS Genetics. Vol:15.10.2019 ., Pg No: e1008443, Issued No: 10, Impact Factor:5.3
27. Rehan Deshmukh, S Bhand and Utpal Roy. Title: A novel method for rapid and sensitive detection of viable Escherichia coli cells using UV-induced PMA-coupled quantitative PCR. doi: 10.1007/s42770-019-00161-8. Journal: Brazilian Journal of Microbiology, Vol. No:1, Nov 2019, doi: 10.1007/s42770-019-00161-8. Impact Factor:2.86

28. Ramya R, Swetha R, Anviksha S, A. Chakrabarti, and Utpal Roy (2019) Improved production of two anti-Candida lipopeptide homologues co-produced by the wild-type *Bacillus subtilis* RLID 12.1 under optimized conditions. Accepted in December 2019. Journal: Current Pharmaceutical Biotechnology. Impact factor: 1.74
29. Zaiba Hasan Khan , Richa Patel , Sandhya Mehrotra , Rajesh Mehrotra, In-silico analysis of seed storage protein gene promoters reveals differential occurrence of 7 cis-regulatory elements in monocot and 14 in dicot plants Gene Reports 17 (2019) 100520

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Daboalectin, A Snaclec From Russell's Viper Venom Induces Cyto-Skeletal Changes Leading to Apoptosis Of Lung-Carcinoma Cells in vitro at the National Symposium on SnakeBite to be held from 16-17th December, 2019 at University of Mysore.
2. Rehan Deshmukh, Sunil Bhand and Utpal Roy (2019) 'A novel molecular quantitative method for sensitive detection of *Escherichia coli* from roof-harvested rainwater', 5th International Conference on Translational Research: "Recent Trends in Pre-translational to Translational Research" held from 07th-09th November 2019 at the National Centre for Cell Science, Pune, India.
3. Kundan Kumar, Rakesh Manuka and Suhas B Karle. Rice With No Lysine Kinase: Genome-wide analysis and characterization in abiotic stress. National Conference on Integrative Plant Biochemistry and Biotechnology (08-09 November 2019)
4. Nilesh L Dahibhate and Kundan Kumar. Polyphenolic analysis, in vitro antimicrobial and antioxidant activity of selected mangrove species from west coast India. 88th Annual Meeting of Society of Biological Chemists (SBCI 2019) (31 Oct- 03 November 2019).
5. Presented a poster entitled Studies on the gene regulation involved in the lytic-lysogenic switch in *Staphylococcus aureus* temperate bacteriophage Phi11 in 43rd Indian Biophysical Society Meeting (15-17 March 2019) held in IISER Kolkata.
6. Sneha Bhadouriya, Sandhya Mehrotra and Rajesh Mehrotra, Patterns and evolution of CCGAC & CATGTG repeat *cis*-elements landscape across four plant genomes. In 43rd Indian Biophysical Society meeting: molecules to systems, IISER, Kolkatta, 15th-17th March 2019
7. Professor Vijayashree Nayak chaired an International conference on Biomaterial – based Therapeutic Engineering and Regenerative Medicine 28th Nov – 01st December 2019 – IIT Kanpur , India ..

ii) International:

1. International Conference presentation: Key note speaker Gautma Krishnan "A functional model for predicting in vitro chaperone activity of M. tbAcr" at 3rd International Conference of Clinical Microbiology - May 1st - 2nd, 2019, Kyoto, Japan
2. Professor Srikanth Mutnuri Chaired the Session: Innovative Treatment Technologies & Applications - Control and applications of biological processes and Poster Presentation "Single household greywater recycling using Constructed wetland in developing countries" at 12th IWA International Conference on Water Reclamation and Reuse, being held on June 16 -20, 2019 in Berlin, Germany
3. Professor Veeky Baths presented a paper title "Study of Motor imagery based Multiclass BCI with special focus in same limb movement" at the 18th IEEE International Conference on cognitive Informatics & Cognitive Computing (IEEE ICCI*CC 2019) between the 23rd and 25th July 2019 at campus Leonardo of Politenico di Milano University, Milano, Italy (Which is also publication).

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Bhakti B. Salgaonkar, Judith M. Braganca. Title: Production of polyhydroxyalkanoates by extremophilic microorganisms through valorization of waste materials. Journal: Advances in Biological Sciences Research: A practical Approach. Publishers Elsevier Academic Press. Pg. No: 419-438, Book Chapter
2. Namitha Nayak, Rajesh Mehrotra and Sandhya Mehrotra. Book Chapter. Biological Sequestration of Atmospheric Carbon dioxide and Strategies to Enhance Them. Climate change and infectious fish diseases; Edited by Patrick T.K. Woo, Jo-Ann Leong and Kurt Buchmann; CABI Publishers.
3. Meghanath Prabhu Sambhu, Srikanth Mutnuri Title: Advances and microbial techniques for phosphorus recovery in sustainable wastewater management, Journal: Advances in Biological Science Research (Book Chapter Elsevier) accepted 2019, Impact Factor Book Chapter
4. Kumar, K. Gupta, D. Mosa, K.A. Ramamoorthy, K. and Sharma, P. (2019). Arsenic transport, metabolism and possible mitigation strategies in plants. In Sudhakar Srivastava, Ashish K. Srivastava, Penna Suprasanna edit: Plant Metal Interaction. Springer. Chapter 8. 141-168.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Malabika Biswas - The course director for BITS BIRAC BioNEST Workshop on Basic Molecular Biology Laboratory Tools and Techniques.
2. Professor Veeky Baths as Convener Organized the third annual Conference for the Association for Reading and Writing in Asia (ARWA 2019) between the 28th February and 1st March 2019.
3. Hackathon titled Open CBR Hack – A Design Thinking Hackathon and Workshop on Collaborative Innovation in Community-Based Rehabilitation was organized jointly by Professor Veeky Baths of BITS, PILANI -K.K. Birla Goa Campus and Professor Samit Chakrabarty of the University of Leeds between the 15th March 2019 to 17th March 2019.
4. Professor Veeky baths as the Convener Organized the Sixth Annual Conference of Cognitive Sciences, (ACCS 2019) between the 10th and 12th December 2019.

B2.10.2 Department: Chemistry

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	04
Associate Professors	07
Assistant Professors	06
Lecturers	-
Visiting Faculty	-
Visiting Assistant Professors	-

Head of the Department: Prof. Halan Prakash, Associate Professor

Contact details: (email) halanprakash@goa.bits-pilani.ac.in

Number of Ph.D. Scholars:

Full Time : 23

Part Time : 05

Aspirant Scheme : 01

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Aruna Chandra Singh	2013PHXF0407G	"Development of Novel Biosensors for Detection and Analysis of Endocrine Disruptors 17 β -Estradiol and Bisphenol A in Water".	Prof. Sunil Bhand	-
2	Zigme T. Bhutia	2014PHXF0404G	"Development of "Green" and/or Catalyst-Free Methods for the Synthesis of Various Heterocycles of Biological Interests".	Dr. Mainak Banerjee	-
3	Arun Kumar Prusty	2013PHXF0406G	"Development of Polymer Based Capacitive Sensors for Analysis of Herbicide and Antibiotic Residue in Water and Milk"	Prof. Sunil Bhand	-
4	Madhurya Chandel	2015PHXF0406G	"Synthesis of Nanoparticle-Reduced Graphene Oxide based Multifunctional Nanocomposites: Their Applications as Magnetically Separable Catalyst and Electrode Materials for Supercapacitor"	Prof. N.N. Ghosh	-

SPONSORED RESEARCH AND CONSULTANCY**1. PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Novel micro and nano sensors for antibiotic resistance measurement (2 years) Project started in April 2019	Chemistry	Indian PI: Prof Sunil Bhand (Chem) International PI: Dr Bin Xie	Indian Co-PI-Prof Utpal Roy (Biosci)	MHRD Govt of India under SPARC scheme		51,05,296
2	A computational investigation on the reaction paths and spectroscopic properties of crown ethers	Chemistry	Prof. Anjan Chattopadhyay*		BRNS		24,80,000
3	A polydiacetylene-based fluorescent sensor for the detection of arsenic species and uranyl ion in water by conventional and nuclear analytical methods. 03 years	Chemistry	Prof. Amrita Chatterjee		BRNS		32,08,000
B. Industry Projects							
-	-	-	-	-	-	-	-
C. International Sanctioned Projects							
-	-	-	-	-	-	-	-

D. Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Emergent Catalytic Behavior of Low Molecular Weight Peptide-Based Supramolecular Fibrils	Chemistry	Dr. Subhasish Roy	-	BITS Pilani	-	200000
2	Versatile catalytic behavior of short peptide-based supramolecular assemblies	Chemistry	Dr. Subhasish Roy	-	BITS Pilani	-	1000000
3	Materials for Nitrogen fixation and water splitting	Chemistry	Dr. Kiran Vankayala*	-	BITS Pilani	-	2,00,000
4	Single atom catalysts on two dimensional nanosheets for the generation of renewable fuels	Chemistry	Dr. Kiran Vankayala*	-	BITS Pilani	-	9,95,000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Nano-based detection of organophosphate pesticides using metal-organic framework conjugates(3 years)	Chemistry	CCPI: Prof SunulBhand (BITS Goa) CPI: Prof L Bharadwaj (AINT Noida) CCPI2: Dr Irani Mukherji (IARI N Delhi)	-	National Agricultural Science Fund, Indian Council of Agricultural Research	Multi institute consortia project	2,12,00,000 BITS Goa share 43,20,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
2	Novel micro and nano sensors for antibiotic resistance measurement (2 years)	Chemistry	Indian PI: Prof Sunil Bhand (Chem) International PI: Dr Bin Xie	Indian Co-PI-Prof Utpal Roy (Biosci)	MHRD Govt of India under SPARC scheme	-	51,05,296
3	Development of Mesoporous Silica (or Alumina)- SiC-metal nanoparticle based nanocomposites for Radar Absorption Application at High Temperature (ERIP/ER/201803003/M/01/1737) Duration: 3 years	Chemistry	Prof. Narendra Nath Ghosh	-	DRDO, India	-	15,00,000
4	Development of Novel Bioluminescent Resistant Coat for Implant Devices from Moringa Leaf Extract Duration: 3 years	Chemistry	Co PI: Prof. Narendra Nath Ghosh	-	Indian Council of Medical Research	-	21,66,600 (for FY 2019-20)
5	Photo-irradiation and Adsorption based Novel Innovations for Water-treatment – PANI Water treatment Feb 2019 to Jan 2023 (4 years)	Chemistry	Prof. Halan Prakash , PI, Indian Leader for Drinking water work package	-	DST, Govt of India. (Under the call DST-EU Horizon 2020 water)	-	209 Lakhs
6	Computational Study of the Catalytic Mechanism of some Diaryl diselenide-based Glutathione Peroxidase Mimetics, 42 months	Chemistry	Prof. Raghu Nath Behera	-	SERB	-	16,40,000
7	A computational investigation on the reaction paths and spectroscopic properties of crown ethers	Chemistry	Prof. Anjan Chattopadhyay	-	BRNS	-	24,80,000
8	Development of PCDA-liposome based detection kit for Alzheimer's disease biomarker. 03 years	Chemistry	Prof. Amrita Chatterjee	-	SERB	-	26,60,000
9	Design and synthesis of graphene oxide based AIE-sensor for selective detection of Hg(II) and organic mercury in aqueous medium. 03 years	Chemistry	Prof. Amrita Chatterjee	-	UGC-DAE (CSR)	-	7,03,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
10	Steric and Conformational Influences on the Performance of Nonplanar and Highly Functionalized Phenyl- And Heteroaryl-Porphyrins in the Sensing of Anions and Heavy Metal Ions	Chemistry	Prof. Bhavana P	-	SERB	-	28,22,000
11	A comprehensive study on mechanochemical sp ² C-H bond activation in five-membered heteroaromatics in a Ball-Mill: Can first row transition elements be a potential replacement of late transitional elements—a question to investigate. 3 YEARS	Chemistry	Prof. Mainak Banerjee	-	SERB	-	30,60,000
12	Design and synthesis of smart supramolecular dyes based on TPE modified PDI–cucurbituril conjugates: their binding and photophysical studies and application in the detection of biogenic polyamines. 3 YEARS	Chemistry	Prof. Mainak Banerjee	-	BRNS	-	28,00,000
13	Experimental and Computational Study of Boron doped TiO ₂ and ZnO nanocrystals (March 21, 2017 to September 20,2020)	Chemistry	Dr. Jayadevan. K. P.	Prof. R.N Behera, Co-PI	DST-SERB	-	23.3Lakhs
14	Cyclic Peptide-based Nanotubes for Efficient Proton Conducting Material and 5 years (2017-2022)	Chemistry	Dr.Subhasish Roy	-	DST India	-	3500000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of Photocatalyst embedded Graphene based membranes for Treatment of Dye containing waste water under sunlight. Funding Duration: 3 years	Chemistry	Prof. Narendra Nath Ghosh	-	Aditya Birla Science and Technology Company Private Limited and BITS Pilani	-	53,00,000
2	"Materials for Nitrogen fixation and water splitting"	Chemistry	Dr. Kiran Vankayala	-	BITS Pilani	-	2,00,000
3	"Single atom catalysts on two dimensional nanosheets for the generation of renewable fuels" – 02 Years	Chemistry	Dr. Kiran Vankayala	-	BITS Pilani	-	9,95,000

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of field portable device for the analysis of contaminant in water (3 years)	Chemistry	Prof Sunil Bhand (PI)	Prof APKoley (Co-PI) Dr Gautam Bacher (Co-I) Dr R balasubramanian (PC BARC) and Dr VK Suri (retd)	BRNS, Dept of Atomic Energy	Collaborative project	24,13,800

B. Completed Industry Projects

1	Development of sensing system for residual pesticide and harmful chemical detection in fruits and vegetables (2 years)	Chemistry	PI BITS Goa : Prof Sunil Bhand	Co-I: Dr Gautam Bacher Consortia PI: Dr Nabarun Bhattacharyya (CDAC Kolkata) Jadavpur University Kolkata : Dr R Bandyopadhyay	R.D. Tata Trust Mumbai	Multi Institute consortium project	Total funding 2,12,00,000 BITS Goa funding 53,50,000
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C. Completed International Projects

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D. Completed Institute Projects

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4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty in Journals**

- Manjuri K. Koley, Sidhali Uday Parsekar, Natarajan Duraipandy, Manikantan Syamala Kiran, and Aditya P. Koley: Synthesis, DNA binding and *in vitro* cytotoxicity studies of a mononuclear copper (II) complex containing N₂S(thiolate)Cu core and 1,10-phenanthroline as a coligand. *Inorganica Chimica Acta*, Elsevier, 2019, Vol. 484, 219-226.
- Sidhali U. Parsekar, Manohar Singh, Durga P. Mishra, P. K. Sudhadevi Antharjanam, Aditya P. Koley and Manjuri Kumar: Efficient hydrolytic cleavage of DNA and antiproliferative effect on human cancer cells by two dinuclear Cu (II) complexes containing a carbohydrazone ligand and 1,10-phenanthroline as a coligand. *Journal of Biological Inorganic Chemistry*, 2019, 24:343–363. <https://doi.org/10.1007/s00775-019-01651-8>.

3. Aruna Chandra Singh, M.H. Asif, Gautam Bacher, Bengt Danielsson, Magnus Willander, Sunil Bhand, "Nano immunosensor Based on ZnO Nanorods for Ultrasensitive Detection of 17 β -Estradiol" *Biosensors and Bioelectronics* 2019, 126, 15-22.
4. Arun Kumar Prusty and Sunil Bhand, "Molecular Imprinted Polyresorcinol Based Capacitive Sensor for Sulphanilamide Detection" *Electroanalysis* 2019, 31(9), 1797-1808.
5. Rehan Deshmukh, Sunil Bhand, Utpal Roy, "A novel method for rapid and sensitive detection of viable *Escherichia coli* cells using UV-induced PMA-coupled quantitative PCR " *Brazilian Journal of Microbiology*, 2019, 1-6 accepted manuscript <https://doi.org/10.1007/s42770-019-00161-8>.
6. Rehan Deshmukh, Sunil Bhand and Utpal Roy, "A Novel Molecular Quantitative Method for Rapid and Sensitive Detection of *Escherichia coli* from Roof-Harvested Rainwater" *Anal. Methods* 2019, 11, 3155-3167 (front cover image of the journal issue by Editors choice).
7. S. Mukherjee, S. Pal, A. Pal, D. Ghosh, S. Sarkar, S. Bhand, P. Sarkar, N. Bhattacharyya, "UIIScan1.1: A Field Portable High-throughput Platform Tool for Biomedical and Agricultural Applications" *Journal of Pharmaceutical and Biomedical Analysis*, 2019 174, 70-80.
8. Namita Ashish Singh, Naresh Kumar, H. V. Raghu, Sunil Bhand, Sudhir Chandra, Pradeep Kumar Sharma, "A spore-based miniaturized novel assay for rapid aflatoxin detection in milk" *Environmental Chemistry Letters* 2019, 17, 1097-1103.
9. Priyanka Makkar, Madhurya Chandel, Manoj Kumar Patra, and Narendra Nath Ghosh* "A "One-Pot" Route for the Synthesis of Snowflake-like Dendritic CoNi Alloy-Reduced Graphene Oxide-Based Multifunctional Nanocomposites: An Efficient Magnetically Separable Versatile Catalyst and Electrode Material for High-Performance Supercapacitors" *ACS Omega* Accepted: November 14, 2019 (DOI:10.1021/acsomega.9b02861).
10. Madhurya Chandel, Priyanka Makkar and Narendra Nath Ghosh*, Ag-Ni Nanoparticle Anchored Reduced Graphene Oxide Nanocomposite as Advanced Electrode Material for Supercapacitor Application, *ACS Applied Electronic Materials*, 1, 1215-1224, (2019).
11. Mayank Pandey, Manoj Balachandran, Girish M. Joshi, Narendra N. Ghosh, Arungalai S. Vendan, Superior charge discharge ability of reduced graphene oxide/Li-ion embedded polymer composite films, *Journal of Materials Science: Materials in Electronics*, 30, 2136-2145 (2019).
12. Uday Kumar Padidela and Raghu Nath Behera, Structure and effective interactions in model colloidal suspensions: a molecular dynamics simulation study, *Physics and Chemistry of Liquids* (2019), DOI: 10.1080/00319104.2019.1625046
13. Chetana Deoghare, Honey Srivastava, Raghu Nath Behera and Rashmi Chauhan, "Microstructure analysis of copolymers of substituted itaconimide and methyl methacrylate: Experimental and computational investigation", *Journal of Polymer Research*, (2019), 26, 204. DOI: 10.1007/s10965-019-1853-y
14. Deoghare Chetana, Nadkarni Vishnu S, Behera Raghu Nath, Chauhan Rashmi, "Copolymers with Pendant N-arylimide Groups via Atom Transfer Radical Polymerization: Synthesis, Characterization and Kinetic Study", *Polymer Science, Series B*, (2019), 61(2), 170-179. DOI: 10.1134/S1560090419020015
15. Sindhuja Sen, Anjan Chattopadhyay "A Computational Study on the Photochemistry of 2,4,4-Trimethyl-1-pyrroline 1-Oxide and Investigation on the Reaction Paths of Its Photoproduct Oxaziridine" *ChemistrySelect* 2019, 4, 12203.
16. Sindhuja Sen, Yasaswini Oruganti, Anjan Chattopadhyay "An Investigation on the Unexplored Photochemistry of 5,5-Dimethyl-1-Pyrroline 1-Oxide (DMPO)" *J. Phys. Chem A* 2019, 123, 163.
17. Lidaloannou-Ttofa, Saurav Raj, Halan Prakash, Despo Fatta-Kassinou, Solar photo-Fenton oxidation for the removal of ampicillin, total cultivable and resistant *E. coli* and ecotoxicity from secondary-treated wastewater effluents, *Chemical Engineering Journal*, Volume 355, 2019, Pages 91-102, <https://doi.org/10.1016/j.cej.2018.08.057>
18. A water soluble AIE-gen for organic-solvent-free detection and wash-free imaging of Al³⁺ ions and subsequent sensing of F⁻ ions and DNA tracking, Sharanabasava D. Hiremath, Ram U. Gawas, Starlaine C. Mascarenhas, Anasuya Ganguly, Mainak Banerjee*, Amrita Chatterjee*, *New J. Chem.*, 2019, 43, 5219-5227.
19. Efficient and "Green" Synthetic Route to Imidazo[1,2-a] pyridine by Cu (II)-Ascorbate-Catalyzed A3-Coupling in Aqueous Micellar Media; Zigme T. Bhutia, Dharmendra Das, Amrita Chatterjee, * and Mainak Banerjee*, *ACS Omega* 2019, 4, 4481-4490.
20. Synthesis of a series of ethylene glycol modified water-soluble tetrameric TPE-amphiphiles with pyridinium polar heads: Towards applications as light-up bioprobes in protein and DNA assay, and wash-free imaging of bacteria Vikash Kumar, Viraj G Naik, Avijit Das, Sourayan Basu Bal, Malabika Biswas, Nupur Kumar, Anasuya Ganguly, Amrita Chatterjee, Mainak Banerjee* *Tetrahedron*, 2019, 75, 3722-3732.

21. Mechanochemical Pd(II)-Catalyzed Direct and C2-Selective Arylation of Indoles, Dharmendra Das, Zigmee T. Bhutia, Amrita Chatterjee and Mainak Banerjee*, J. Org. Chem., 2019, 84, 1710764-10774.
22. Carbon dots-MnO₂ based turn-on fluorescent probe for rapid and sensitive detection of hydrazine in water, Sharanabasava D. Hiremath, Bhaskar Priyadarshi, Mainak Banerjee*, AmritaChatterjee*; J. Photochem. Photobiol, AAccepted, DOI: <https://doi.org/10.1016/j.jphotochem.2019.112258>
23. Densities, Viscosities and excess parameters of octanol with alkyl(c1-c4) acetates at varying temperatures, Venkatesh Dhanan, Joshau Amarnath D., T Srinivasa Krishna, Piyashi Biswas and Ranjan Dey, Journal of Molecular Liquids, In Press, Corrected Proof, 2019.
24. Molecular Interaction studies based on transport, thermodynamic and excess properties of aniline and alkanol mixtures at varying temperatures, M. Swetha Sandhya, Piyashi Biswas, N.R. Vinary, K. Sivakumar, Ranjan Dey, Journal of Molecular Liquids, 278, 219-225 (2019).
25. Molecular Interaction studies in binary mixtures of tetrahydrofuran with arene substituted alcohols: acoustic and volumetric study, A. Shakila, T. Srinivasa Krishna, Ranjan Dey and V Pandiyan, Physics Chemistry of Liquids, <https://doi.org/10.1080/00319104.2018.1564752>, 2019.
26. Estimation of effective Debye Temperature of multicomponent liquid mixtures, CharuKandpal, Arvind Kumar Singh, Ranjan Dey, Vinod Singh and Devraj Singh, Indian Journal of Pure and Applied Ultrasonics, 41(1), 19-23,2019.
27. Dr. Banerjee, S.; Talukdar, I.; Banerjee, A.; Gupta, A; Balaji, A; Aduri, R. "Type II diabetes mellitus and obesity: Common links, existing therapeutics and future developments" *J Biosci.* 2019, 44: 150.
28. Phadte, A. A.; Banerjee, S.; Mate, N. A.; Banerjee, A. "Spectroscopic and viscometric determination of DNA-binding modes of some bioactive dibenzodioxins and phenazines" *BiochemBiophys Rep.* 2019, 18, article ID 100629.
29. Deoghare C, Srivastava H, Behera RN, Chauhan R†. Microstructure analysis of copolymers of substituted itaconimide and methyl methacrylate: experimental and computational investigation. *Journal of Polymer Research*, 2019, 26, 204
30. Deoghare C, Nadkarni VS, Behera RN, Chauhan R† (2019). Copolymers with Pendant N-arylimide Groups via Atom Transfer Radical polymerization: Synthesis, Characterization and Kinetic Study. *Polymer Science Series B*, 2019, 61(2), 170-179.
31. OhadSilberbush, Maor Engel, IdoSivron, Subhasish Roy and NuritAshkenasy, "Self-Assembled Peptide Nanotube Films with High Proton Conductivity", *J. Phys. Chem. B*, 2019, 123, 9882-9888.
32. Pijush Singh, SouvikMisra, Ankita Das, Subhasish Roy, Pallab Datta, Gourab Bhattacharjee, BiswarupSatpati and Jayanta Nanda, "Supramolecular hydrogel from an oxidized by-product of tyrosine", *ACS Appl. Bio Mater.*, 2019, 2,4881-4891.
33. Rafael Contreras-Montoya, Guillermo Escolano-Casado, Subhasish Roy, Modesto T. Lopez-Lopez, Jose M. Delgado-López, Juan M. Cuerva, Juan J. Díaz-Mochón, NuritAshkenasy, José A. Gavira and Luis Álvarez de Cienfuegos, "Catalytic and Electron Conducting Carbon Nanotube Reinforced Lysozyme Crystals", *Advanced Functional Materials*, 2019, 29, 1807351.
34. Ruan, Q.; Bayazit, M. K.; Kiran, V.; Xie, J.; Wang, Y.; Tang, J. "Key factors affecting photoelectrochemical performance of g-C₃N₄ polymer films" *Chem. Comm.* 2019, 55, 7191.
35. Shankar B. Dalavi, Pragnya P. Mishra, TomyCherian, M. ManivelRaja, and Rabi N. Panda, Magnetic and Mössbauer Studies on Nano-structured CoCr_xFe_{2-x}O₄ (0 ≤ x ≤ 1) Spinel Ferrites Prepared by Sol- gel Auto-combustion Method, *J. Nanoscience and Nanotechnology*, (accepted 2019)

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Prof. Sunil Bhand Chaired a session and also delivered an invited talk "Biosensors for analysis of antibiotic residues" at International Conference on "Recent Advances in Fundamental and Applied Sciences (RAFAS - 2019) organized by Lovely Professional University during Nov. 5th & 6th 2019 at Phagwara, Punjab.
2. Prof.Sunil Bhand Participated in Global Bio-India 2019 organsied by Department of Biotechnology, Government of India during Feb 19-22 and presented technology developed at BITS Pilani through exhibition stall.
3. Komal B. Daipule and Dr. Raghu N. Behera*, "Computational study of Conformationallyrestricted Peri-Dichalcogenide based Glutathione Peroxidase mimetic", 16th TheoreticalChemistry Symposium (TCS-2019), BITS Pilani- Pilani campus, India, Feb 13-16, 2019.

4. Prof. Raghu Nath Behera, "Mechanistic studies of some enzymes & enzyme mimics: Acomputational insight", National Conference on Recent Trends in Chemical Sciences (RETICS 2019), Sambalpur University, Odisha, India, Nov 2-3, 2019 (Invited).
5. Vishnu R. Chari and Dr. Raghu Nath Behera*, "Reduction of hydrogen peroxide bydiselenidebased GPx mimics: Effect of substituents", DAE Computational Chemistry Symposium (DAE-CCS-2019), Bhabha Atomic Research Centre, Mumbai, India, Nov 7-9, 2019
6. Prof. Anjan Chattopadhyay delivered invited talk at the 16th TCS (Theoretical Chemistry Symposium) 2019, BITS-Pilani, Pilani Campus during February 13-16, 2019- Title of the Talk- "Oxaziridine and Lactam Conversion Pathways of Some Cyclic Nitron Systems".
7. Prof. Anjan Chattopadhyay delivered invited talk at the DAE-CCS (Computational Chemistry Symposium) 2019, Bhabha Atomic Research Centre (BARC), Mumbai during November 7-9, 2019-Title of the Talk- "Differences in the photo-chemical reaction paths of conjugated acyclic nitrones, protonated Schiff bases and neutral polyenes".
8. Sindhuja Sen and Dr. Anjan Chattopadhyay "Computational studies on the reaction pathways of some cyclic nitron systems leading to cyclic amides" at the DAE-CCS (Computational Chemistry Symposium) 2019, Bhabha Atomic Research Centre (BARC), Mumbai during November 7-9, 2019,
9. Dr. Ranjan Dey Invited talk at icibes, aryap.g. college, panipat, haryana, 27-28 february 2019.
10. Mechanochemistry: A Greener way to Heterocyclic Scaffolds Dharmendra Das, Zigme T. Bhutia, Dr. Amrita Chatterjee* and Dr. Mainak Banerjee *, Syngenta Agrosience Symposium: Sustainable Chemistry and Technology Cidade-de-Goa, Dona-Paula 4th November-2019.
11. Miss Neha Saran's poster titled "Electrocatalytic Oxygen Reduction Through Pyrolysed Polymer Of Cobalt-4-Pyridylporphyrin" (by Neha Saran, Tincy Lis Thomas, P. Bhavana) has been accepted in the conference "Modern Trends in Inorganic Chemistry (MTIC XVIII) (Dec 11-14th 2019 at IIT Guwahati.
12. Mr. Santosh Kokate, and Halan Prakash, Research Scholar (under Prof. Halan Prakash) Department of Chemistry, presented a paper titled Degradation of Atrazine in water by nickel based activated peroxo compounds, in Feb 28, 2019, National Science Day meeting at Aditya Birla Science and Technology Pvt Ltd, Mumbai.

ii) International:

1. Prof. Sunil Bhand and Krishna K. Swain: A Dual Read Out Magnetic Nano Particle based Enzyme Assay for Sensitive Detection of Hg(II) Ions in Drinking Water. Oral Presentation at PITTCON 2019 Conference and Expositon held during March 17-21, 2019, Pennsylvania Convention Center Philadelphia, PA, USA, Session 430 - Water Quality Measurements.
2. Prof. Sunil Bhand and Aruna Chandra Singh: Label Free Impedimetric Sensing of Bisphenol-A Using Flexible Gold Micro Interdigitaed Electrode. Oral Presentation at PITTCON 2019 Conference and Exp. held during March 17-21, 2019, Pennsylvania Convention Center Philadelphia, PA, USA, Session 430 - Water Quality Measurements. Session 1200 - Sensors for Environmental and Security Application.
3. Prof. Narendra Nath Ghosh was invited to present a special Seminar at the Department of Chemistry, University of Tennessee Knoxville USA on July 17 2019. The title of the talk is "Synthesis of Reduced Graphene Oxide- nanoparticle based Multifunctional Nanocomposites and their Applications as Versatile Catalysts and Supercapacitor".
4. Prof.Narendra Nath Ghosh delivered an invited talk entitled 'Novel Synthetic Methodologies for Preparation of varieties of Nanostructured Materials and their Applications.' In the International Conference on Nano-materials for Environmental Applications (NEA 2019) held at Miramar- Goa, during 6-7 March 2019.
5. MadhuryaChandel and Narendra Nath Ghosh 'CoFe₂O₄-reduced graphene oxide nanocomposites: a highly efficient magnetically separable recyclable photocatalyst for dye degradation'. International Conference on Nano-materials for Environmental Applications (NEA 2019) Miramar- Goa, 6-7 March 2019
6. Priyanka Makkar, DebikaGogoi and Narendra Nath Ghosh* 'Synthesis of magnetic separable CuFe₂O₄-RGO nanocatalyst for reduction of various synthetic dyes.'. International Conference on Nano-materials for Environmental Applications (NEA 2019) Miramar- Goa, 6-7 March 2019 (Presented by Ms Priyanka Makkar).
7. Prof.Anjan Chattopadhyay delivered invited talk at the Joint Theoretical Chemistry Seminar held at the Institute of Physical Chemistry, Theoretical Chemistry Group, University of Heidelberg, Germany (8th July 2019). Title of talk- "Computational studies on some photochemical reactions involving conical intersections".
8. Prof. Anjan Chattopadhyay made a presentation, entitled,"Photochemical reaction pathways of some nitron systems" at 9th Molecular Quantum Mechanics (MQM) at KongresshausStadthalle Heidelberg, Germany (30th June - 5th July).

9. Dr. Amrita Chatterjee Invited talk: International Conference on Materials Science and Research held during November 28-29, 2019 at Kuala Lumpur, Malaysia.
10. Dr. Ranjan Dey Keynote lecture in thermam 2019, in izmir turkey, 22nd to 24thseptember, 2019.
11. TPE-based AIE-active smart and soft materials for sensing and imaging applications, Viraj G. Naik, Vikash Kumar, Dr. Amrita Chatterjee, and Dr. Mainak Banerjee, "3rd International Conference on Materials Science and Research during November 28-29, 2019 at Kuala Lumpur,
12. Microstructural Characteristics of Boron doped TiO₂ Nanocrystals, International Conference on Advanced Materials (ICAM 2019) [Authors: K. P. Jayadevan, Subhada S Kerkar, AIP Conference Proceedings 2162, 020011 (2019)].
13. Dr. Kiran Vankayala Selected as one of the invited speakers among 34 early career researchers from India and UK in Indo-UK Newton-Bhabha Workshop in Pune on " Electrochemical Technologies for Sustainable Fuels, Chemicals and Industrial Processes " (Dec 2-5, 2019).

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Prof. Sunil Bhand and Aruna Chandra Singh CHAPTER 2: Structure, Function, Orientation, Characterization and Immobilization of Antibodies for Immunosensor Development page 21-41, (Eds) : M.U. Ahmed, M. Zourob, E. Tamiya in IMMUNOSENSORS : Published by Royal Society of Chemistry UK. <https://pubs.rsc.org/en/content/chapter/bk9781788014373-00021/978-1-78801-437-3#>

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Prof. Narendra Nath Ghosh acted as Chairman in the 3rd National Conference on New Frontiers in Chemistry from Fundamental to Applications (NFCFA 2019) held at BITS Pilani, KK Birla Goa Campus during 20-22 December, 2019.
2. Prof. Narendra Nath Ghosh acted as Member of International Advisory Committee in the The International conference on Chemical Research in Materials and Biological Sciences (CRMBS-2019) held at the Department of Chemistry, Assam University during 15th- 16th March 2019.
3. Prof. Narendra Nath Ghosh acted as Member of Advisory Committee and Resource Person in the International Conference on Nano-materials for Environmental Applications' (NEA-2019) held at Goa Science Centre, Miramar during 6th- 7th March 2019.
4. Prof. Narendra Nath Ghosh acted as National Advisory Board: 25th - World Conference on Applied Science Engineering and Technology (WCASET - 19) held at NanutelMargao, Goa during December 29th and 30th 2019.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Prof. Sunil Bhand Chaired a session and also delivered an invited talk "Biosensors for analysis of antibiotic residues" at International Conference on "Recent Advances in Fundamental and Applied Sciences (RAFAS - 2019) organized by Lovely Professional University during Nov. 5th& 6th 2019 at Phagwara, Punjab.
2. Prof. Narendra Nath Ghosh was invited to present a special Seminar at the Department of Chemistry, University of Tennessee Knoxville USA on July 17 2019. The title of the talk is "Synthesis of Reduced Graphene Oxide- nanoparticle based Multifunctional Nanocomposites and their Applications as Versatile Catalysts and Supercapacitor".
3. Prof. Narendra Nath Ghosh delivered an invited talk entitled 'Novel Synthetic Methodologies for Preparation of varieties of Nanostructured Materials and their Applications.' In the International Conference on Nano-materials for Environmental Applications (NEA 2019) held at Miramar- Goa, during 6-7 March 2019.
4. Prof. Anjan Chattopadhyay delivered invited talk at the Joint Theoretical Chemistry Seminar held at the Institute of Physical Chemistry, Theoretical Chemistry Group, University of Heidelberg, Germany (8th July 2019). Title of talk- "Computational studies on some photochemical reactions involving conical intersections".
5. Prof. Anjan Chattopadhyay delivered invited talk at the 16th TCS (Theoretical Chemistry Symposium) 2019, BITS-Pilani, Pilani Campus during February 13-16, 2019- Title of the Talk- "Oxaziridine and Lactam Conversion Pathways of Some Cyclic Nitron Systems".
6. Prof. Anjan Chattopadhyay delivered invited talk at the DAE-CCS (Computational Chemistry Symposium) 2019, Bhabha Atomic Research Centre (BARC), Mumbai during November 7-9, 2019-Title of the Talk- "Differences in the photo-chemical reaction paths of conjugated acyclic nitrones, protonated Schiff bases and neutral polyenes".
7. Prof. Anjan Chattopadhyay made a presentation, entitled, "Photochemical reaction pathways of some nitron systems" at 9th Molecular Quantum Mechanics (MQM) at Kongresshaus Stadthalle Heidelberg, Germany (30th June - 5th July).

8. Dr. Amrita Chatterjee Invited talk: International Conference on Materials Science and Research held during November 28-29, 2019 at Kuala Lumpur, Malaysia.
9. Dr. Ranjan Dey Keynote lecture in thermam 2019, in izmir turkey, 22nd to 24th september, 2019.
10. Dr. Ranjan Dey Invited talk at icicbes, aryap.g. college, panipat, haryana, 27-28 february 2019.
11. Dr. Kiran Vankayala Selected as one of the invited speakers among 34 early career researchers from India and UK in Indo-UK Newton-Bhabha Workshop in Pune on " Electrochemical Technologies for Sustainable Fuels, Chemicals and Industrial Processes " (Dec 2-5, 2019).

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Speaker: Dr. Rode C. V. Chemical Engineering and Process Development Division, CSIR-NCL, Pune. Title of the talk: MULTIFUNCTIONAL CATALYSIS FOR SUSTAINABLE PROCESSES on 24-09-2019,

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Prof. Narendra nath Ghosh has been recognized by Royal Society of Chemistry, UK as one of the top 10% cited authors and he has received a certificate of highly cited author.
2. Prof. Narendra nath Ghosh has been invited as visiting professor by the Department of Chemistry of the University of Tennessee, Knoxville, USA and he visited there during 20th May -20th July 2019 to conduct collaborative research with Professor C E Barnes.

b. Won by Students

1. The paper "Synthesis of magnetic separable CuFe_2O_4 -RGO nanocatalyst for reduction of various synthetic dyes, by Priyanka Makkar, Debika Gogoi and Narendra Nath Ghosh*" which was presented by Priyanka Makkar in the International Conference on Nano-materials for Environmental Applications (NEA 2019) held at Miramar- Goa, 6-7 March 2019 won the best oral presentation prize.
2. Atul Sharma was selected as Post Doctoral Fellowship in the Department of Chemistry at Monash University Australia.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Prof. Sunil Bhand Participated by nomination at "South Asia Higher Education Symposium -New Regional Approaches" (SAHED) organized by Holiings Centre for International Dialogue and US Department of State during April 23-28, 2019 held at Istanbul, Turkey.
2. Prof. Sunil Bhand Served as expert for Intellectual Property cell of State Innovation Council, Government of Goa, India for 2019/2020.
3. Prof. Sunil Bhand Served as subject expert for Goa Public Service commission, Governemnt of India for selection of Professor/Associate Professor/Assistant Professor -Research, teaching and Innovation) under Directorate of Higher Educaiton Government of Goa.
4. Prof. Sunil Bhand Invited as resource person at UGC Refresher Course in Life Sciences organized by Human Resource Development Centre HRDC University of Goa held during November 2019.
5. Prof. Sunil Bhand Invited by IKP Knowledge park Hyderabad as participant in "Roundtable discussoon on Role of Cluster Networks in Enhancing Innovation Output" at International Knowledge Millenium Conference (IKMC 2019) held at HICC Hyderabad November 8 and 9 2019.
6. Prof. Sunil Bhand Resource person at UGC-Refresher Course in Life Sciences at Goa University for the Faculty Members of University and colleges focus on Environmental Sciences and other life-sciences streams held during 13 Nov 2019 to 6 Dec 2019.
7. Prof. Sunil Bhand Elected Chairman Indian Institute of Metals - Goa Chapter 2019.
8. Prof. Sunil Bhand Technical Director, BITS BIRAC BioNEST Incubator at BITS Pilani Goa Campus.
9. Prof. Sunil Bhand Appointed expert reviewer for evaluation DBT, BIRAC and National Biopharma Mission proposals 2019.
10. Prof. Sunil Bhand Appointed as exert for review of SERB-CORE and SRG proposals.
11. Prof. Sunil Bhand Expert evaluator of major project proposals in Medtech and Biomed by PATH Innovation Lab (TATA Trust) 2019.
12. Prof Anjan Chattopadhyay visited University of Heidelberg, Germany for collaborative research work with Prof. Horst Köppel during 26th June-13th July 2019.

13. Prof. Anjan Chattopadhyay acted as a jury member for the poster presentation sessions during DAE CCS, BARC, Mumbai during 7th-9th November 2019.
14. Prof. Anjan Chattopadhyay was a member of organizing committee of DAE CCS, BARC, Mumbai during 7th-9th November 2019.
15. Prof. Anjan Chattopadhyay reviewed a paper for the journal Chemical Papers (Springer Publication).
16. Prof. Halan Prakash received Outstanding reviewer of Journal of Hazardous Materials, Chemical Engineering Journal, and Journal of Environmental Chemical Engineering, and reviewed for Environmental Science and Pollution Research (ESRP).
17. Prof. Halan Prakash Reviewer for project proposals of Indo-French Centre for the Promotion of Advanced Research, New Delhi.
18. Prof. Halan Prakash, Organiser for Indo-EU research and innovation projects review meeting at of project review meetings at BITS Pilani K K Birla Goa campus, 2018-2019.
19. Prof. Halan Prakash visited Solar de platform- Spain, Europe's Largest Heliostate facility as as a steering committee leader of PANI Water project, 2019, 2019
20. Prof. Halan Prakash visited University of Ryan Juan Carlos, Spain, 2019 as a steering committee leader of PANI Water project, 2019.
21. Prof. Halan Prakash visited University of Salento, Italy, for development of a solar photolytic reactor design, 2019.
22. Prof. Halan Prakash visited Aqua Soil, SRL, Italy for studying new reactor design for advanced oxidation processes, 2019.

12. PATENTS FILED/PUBLISHED AND GRANTED

1. Prof. Halan Prakash, Parakh Priyadarshini, Prasad Panzade Subramanian Gokulakrishnan, A BACTERICIDAL COMPOSITION AND A METHOD FOR DISINFECTING WATER UNDER VISIBLE LIGHT IRRADIATION, Status: Application no. 201611017381, filed in response to FER on 16/08/2019.

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

- Chemistry Department day event, "Recent Trends in Chemistry: Students' Meet-2019", was held in 3rd March 2019.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	An automated Micro manipulation system for low level handling of biological fluids (EppendorfGermany) cost Rs. 17 lakhs funded through NASF ICAR Govt of India.	1
2.	An electronic nose system for detection of tea quality funded through RD Tata Trusts approx. R 10 lakh.	1
3.	Ion Chromotography	1
4.	Lyophilizer	1

B2.10.3 Department: Chemical EngineeringNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	02
Associate Professors	02
Assistant Professors	10
Lecturers	00
Visiting Faculty	00
Visiting Assistant Professors	00

Head of the Department: Prof. Saroj Sundar Baral**Contact details:** ssbaral@goa.bits-pilani.ac.in**Number of Ph.D. Scholars:****Full Time** : 13**Part Time** : 08**Aspirant Scheme** : 00**Ph.D. Thesis Submitted during the year: 2019**

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Parul Sahu	2013PHXF0201G	Sea Water Desalination using Liquefied Natural Refrigeration (GAIL project)	Prof. Srinivas Krishnaswamy	-
2	Mouna H. M.	2013PHXF0405G	A Biohydrometallurgical Approach for Extraction of Metals from Spent Fluid Catalytic Cracking Catalyst	Prof. Saroj Sundar Baral	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Mesoporousnanocomposites for controlling microbially induced corrosion caused by sulfate reducing bacteria	Chemical Engineering	Sutapa Roy Ramanan		DST SERB		32,60,000
2	Continuous flow oil-water separation system using smart separators capable of low-voltage wettability switching	Chemical Engineering	Pradeep Kumar Sow		DST SERB		46,51,000

B. Industry Sanctioned Projects

1	Process Design and Development cost effective method for carbon-silica based hybrid fillers for application in rubber products	Chemical Engineering	S. D. Manjare		Apolo Tyres		60 lakhs
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C. International Sanctioned Projects

-	-	-	-	-	-	-	-
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D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Lanthanide doped hydroxyapatite based nano-materials for theranostics applications: Sensing, Imaging, and Therapeutics	Chemical Engineering	Meenal Kowshik	Sutapa Roy Ramanan	DST	-	39,64,700
2	Development of efficient bioleaching process for the metal recovery from spent catalysts,	Chemical Engineering	Saroj Sundar Baral	-	Department of Biotechnology, Government of India.	-	29,56,600
3	Investigating the effect of co-digestion and advanced sludge pre-treatment methods on the anaerobic conversion potential of the organic wastes (As Co-Investigator)	Chemical Engineering	Saroj Sundar Baral	-	Department of Biotechnology, Government of India	-	27,48,8000
4	Chlorine resistant Nano Enhanced Polymer Blend Membranes, 3 years	Chemical Engineering	Jegatha Nambi Krishnan	-	DST - SERB	-	31,74,200
5	Ion Selective Sensor for Arsenic Detection in Water medium, 2 years	Chemical Engineering	Jegatha Nambi Krishnan	-	DSTE, Govt. Of Goa	-	2,00,000
6	"Process improvements in Urrakh and Feni production in Goa"	Chemical Engineering	S D Manjare (Principal Investigator)	-	department of Science, Technology & Environment, Govt of Goa I	-	7,50,000
7	Unmixed Reforming (UMR) of Methane for Hydrogen Production	Chemical Engineering	Srinivas Krishnaswamy	-	DST – SERB / BPCL Corporate R&D	-	56,11,100 + 6,00,000
8	Air Quality Impact Assessment of Cargo handling at Mooring Dolphins" September 2018 – March 2019.	Chemical Engineering	S D Manjare	-	Mormugao Port Trust (MPT), Vasco,	-	16,75,600
9	Synthesis of mononuclear as well as homo and hetero dinuclear complexes of Cu(II) and Zn(II) with hard-soft donor ligands and evaluation of their anticancer activities", (sanctioned on 6-11-18	Chemical Engineering	Manjuri Kumar	-	DST- EMR	-	23,05,500
10	Development of suitable material for visible light induced photocatalytic hydrogen production from industrial wastewater	Chemical Engineering	Saroj Sundar Baral	-	Department of Science and Technology, Government of India	-	53,32,000
11	Formulation of bio-functionalized cosmetic	Chemical Engineering	Vivek R.	-	DST SERB	-	30,27,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
	emulsions using biosurfactant and essential oil as green ingredients						
12	Catalytic HI decomposition studies in membrane reactor for hydrogen production (transferred project)	Chemical Engineering	Sharad Sontakke	-	BRNS	-	19,33,000
B. Ongoing Industry Projects							
1	Life Cycle Assessment study for Maharashtra Aldehydes and Chemicals Ltd" November 2018- January 2019	Chemical Engineering	S D Manjare	-	Maharashtra Aldehydes and Chemicals Ltd, Mahad, Mumbai	-	7,00,000
2	Performance assessment studies on the production process of Thiamethoxam" July 2018 – December 2018.	Chemical Engineering	S D Manjare	-	DeccanFine Chemicals (India) Pvt Ltd. Hyderabad	-	3,00,009
3	Electrochemical Process for Hydroiodic acid (HI) decomposition in Iodine-Sulfur Cycle:A feasibility study (Industry Sponsored Projects).	Chemical Engineering	Pradeep Sow	-	ONGC	-	11,69,000
C. Ongoing International Sanctioned Projects							
-	-	-	-	-	-	-	-
D. Ongoing Institute Projects							
1	Ion selective sensors for heavy metal ion detection in water medium	Chemical Engineering	Jegatha Nambi Krishnan	-	-	BITS Pilani (OPERA Award)	15,00,000
3. COMPLETED PROJECTS							
A. Completed Government Projects							
1	Experimental and Simulation Studies on Coke Mitigation in Petroleum Refinery Systems (3 years)	Chemical Engineering	Srinivas Krishnaswamy K.N. Ponnani (Co-PI)	-	Centre for High Technology (CHT)	-	Total outlay Rs. 323.20 lakhs BITS share: 132.97 lakhs
2	Synthesis of hydroxyapatite based biocompatible functional magnetic nanoparticles and investigation of its interaction with biomolecules	Chemical Engineering	Sutapa Roy Ramanan (PI) Meenal Kowshik (Co-I)	-	UGC-DAE-CSR and BARC Mumbai	-	45,000
3	Rheological dynamics of polymer –layered silicate/ graphene nano-composites (3 years)	Chemical Engineering	Asima Shaukat	-	INSA INSPIRE, DST	-	35,00,000
4	Viscoelastic, viscoplastic and thixotropic behavior of biogreases and its influence on lubrication (tribological) behavior	Chemical Engineering	Asima Shaukat	-	Early Career Research Award, DST-SERB	-	54,00,000

B. Completed Industry Projects							
-	-	-	-	-	-	-	-
C. Completed International Projects							
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty In Journals**

- Manjuri Kumara, Sidhali Uday Parsekar, Natarajan Duraipandy, Manikantan Syamala Kiran, Aditya P. Koley: Synthesis, DNA binding and in vitro cytotoxicity studies of a mononuclear copper(II) complex containing N₂S(thiolate)Cu core and 1,10-phenanthroline as a coligand. *Inorganica Chimica Acta*, Elsevier, 484, 219–226, (2019).
- Sidhali U. Parsekar, Manohar Singh, Durga P. Mishra, P. K. Sudhadevi Antharjanam, Manjuri Kumar, and Aditya P. Koley: Efficient hydrolytic cleavage of DNA and antiproliferative effect on human cancer cells by two dinuclear Cu(II) complexes containing a carbohydrazone Schiff base ligand and 1,10-phenanthroline as a coligand, *Journal of Biological Inorganic Chemistry*, Springer, Status: accepted for publication (2019).
- H. M. Mouna, S. S. Baral, A comparative study of the extraction of metals from the spent fluid catalytic cracking catalyst using chemical leaching and bioleaching by *Aspergillus niger*, *Journal Environmental Chemical Engineering*, Accepted, 2019, Elsevier (SNIP: 1.198).
- M. Dileep, S. S. Baral, Defect-induced enhanced dissociative adsorption, optoelectronic properties and interfacial contact in Ce doped TiO₂: Solar photocatalytic degradation of Rhodamine B, *Ceramic International*, Accepted, 2019, Elsevier (IF: 3.45).
- M. Dileep, S. S. Baral, Synergistic effect of dual electron-cocatalyst modified photocatalyst and methodical strategy for better charge separation, *Applied Surface Science*, 489 (2019), 930-942, Elsevier (IF: 5.155).
- Novel one step transformation method for *Escherichia coli* and *Staphylococcus aureus* using arginine-glucose functionalized hydroxyapatite nanoparticles, Ketaki Deshmukh, Sutapa Roy Ramanan, Meenal Kowshik, *Materials Science & Engineering C* 96 (2019) 58–65.
- Role of surface charges on interaction of rod-shaped magnetic hydroxyapatite nanoparticles with protein, *Colloids and Surfaces B: Biointerfaces*, *Colloids and Surfaces B: Biointerfaces* 177 (2019) 362–369.
- A novel method for genetic transformation of *C. albicans* using modified-hydroxyapatite nanoparticles as a plasmid DNA vehicle, Ketaki Deshmukh, Sutapa Roy Ramanan and Meenal Kowshik, DOI: 10.1039/c8na00365c, 2019.
- Divya J Mathias, Sourav Kumar, Vivek Rangarajan. An investigation on citrus peel as the lignocellulosic feedstock for optimal reducing sugar synthesis with an additional scope for the production of hydrolytic enzymes from the aqueous extract waste. *Biocatalysis and Agricultural Biotechnology*, 2019 (Accepted)
- Vivek Rangarajan, Gunaseelan Dhanarajan, Pinaki Dey, Dipankar Chattopadhyay, Ramkrishna Sen. *Bacillus lipopeptides - Powerful capping and dispersing agents of silver Nanoparticles*. *Applied Nanoscience* (Accepted) (IF-2.95)
- C.H. Kung, P.K. Sow, B Zahiri, W Mérida, Assessment and Interpretation of Surface Wettability Based on Sessile Droplet Contact Angle Measurement: Challenges and Opportunities, *Advanced Materials Interfaces* (2019), <https://doi.org/10.1002/admi.201900839>
- Singhal, R; Ishita; Sow, P. K. Integrated Polymer Dissolution and Solution Blow Spinning Coupled with Solvent Recovery for Expanded Polystyrene Recycling, *Journal of Polymers and the Environment*, (2019) 27:1240–1251
- Singhal, R.; Ishita; Sow, P. K. Integrated Polymer Dissolution and Solution Blow Spinning Coupled with Solvent Recovery for Expanded Polystyrene Recycling. *Journal of Polymers and the Environment*, 2019. <https://doi.org/10.1007/s10924-019-01427-w>

14. Improved efficiency of DSSC using combustion synthesized TiO₂, S Umale, V Sudhakar, SM Sontakke, K Krishnamoorthy, AB Pandit, Materials Research Bulletin 109, 222-226

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Patil, S. S Baral, P. Dhanke, V. Kore, Biodiesel Production using Prepared Novel Surface Functionalised TiO₂ Nano-catalyst in Hydrodynamic Cavitation Reactor. First International Conference on Recent Advances in Materials and Manufacturing (ICRAMM-2019), 12th – 14th September, 2019, Belagavi, Karnataka, India.
2. M. Dileep, S. S. Baral, Synergistic effect of dual electron cocatalyst modified photocatalyst and methodical strategy for better charge separation, Material Research Society of India-Annual General Meeting, February 12-15, 2019, ISc Bangalore.
3. Kavita Kadu, Goutam Ghosh, Lata Panicker, Meenal Kowshik and Sutapa Roy Ramanan. Effect of counter-ions on the conformational changes of protein upon interaction with magnetic hydroxyapatite nanoparticles. Poster presented at: International Conference on Advances in Materials Science & Applied Biology (AMSAB); 2019 Jan 8-10; SVKM's NMIMS, Mumbai.
4. Kavita Kadu, Meenal Kowshik and Sutapa Roy Ramanan. Effect of doping and surface functionalization on the conformational changes of protein upon interaction with hydroxyapatite nanoparticles. Paper presented at: BIOSPECTRUM 3rd International Conference on Biotechnology & Biological Sciences; 2019 Aug 8-10; University of Engineering and Management, Kolkata.
5. G. S. Patil and J. Nambi Krishnan*, "Rapid Electrochemical sensor based on Gold nanostructures for Voltammetric detection of heavy metal ions in water", First Indian Materials Conclave and 30th Annual General Meeting of MRSI 2019, Indian Institute of Science (IISc), Bangalore, Karnataka, India.
6. Divya Mathias, Sourav Kumar, Vivek Rangarajan. A feasibility study on the use of citrus peel as a lignocellulosic feedstock for bioethanol production with an additional scope for the production of hydrolytic enzymes from the aqueous extract waste. RABEB 2019, IIT BHU
7. Ishita, R. Singhal, "Synthesis of porous carbon nanofibers from waste polystyrene for supercapacitor application", First Indian Materials Conclave and 30th Annual General Meeting of MRSI, 2019.

ii) International:

1. S. S. Baral, M. Dileep; K. Janaki, A. Moses, Hydrogen production potential from the paper and pulp industries wastewater in India. 3rd International Conference on Sustainable Energy and Environment Development (SEED-2019), October 16-18, 2019, in Krakow, Poland.
2. M. Dileep, S. S. Baral, Adsorption; a Decision Maker in the Photocatalytic Degradation of Phenol on Co-Catalysts Doped TiO₂. 14th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES-2017) Conference, 1st - 8th October, 2019, Dubrovnik, Croatia.
3. Sow, P. K.; Ishita; Singhal, R. Solution Blow Spinning for the Synthesis of Submicron Fibers from Waste Polystyrene and Application in Oil-Water Separation, The Fiber Society, 2019 Spring Conference May 20–23, Hong Kong, China
4. R. Singhal, "WEPPF-based CNFs for Supercapacitor Energy Storage Devices", The Fiber Society 2019 Spring Conference, 2019, Hong Kong.
5. Sontakkke, S.M., Prabhudesai, V., Kowsalya, B., Environmental applications of hydrothermally synthesized UiO-66 metal organic frameworks, 14th International Conference of Material Chemistry (MC-14), Royal Society of Chemistry, Birmingham, United Kingdom (Jul 2019)
6. Anupam Mukherjee, Shubham Lanjewar, Priyesh Khandewal, Asim K.Ghosh, Siddhartha Moulik and Anirban Roy "Understanding the Thermodynamics of Membrane Synthesis and its Role in Greywater Treatment", 4th International Conference on Desalination using Membrane Technology, Perth, Australia. December 1-4, 2019 (Oral Presentation)
7. Shubham Lanjewar, Siddhant Waiker, Harshal Marathe, Siddhartha Moulik, Amira Abdelrasoul, "Understanding Effect of Viscometric Measurements and Thermodynamic Interactions on Blend Polymer Membranes", 2019 AIChE Annual Meeting, Orlando, FL, USA. November 10 – 15, 2019 (Oral Presentation)
8. Shubham Lanjewar, Abhineet Nigam, Vineeth Siripuram, Anupam Mukherjee, Siddhartha Moulik, Amira Abdelrasoul, "The Effect of Polymer Blend Concentration on Membrane Properties", 28 th Annual Meeting, North American Membrane Society (NAMS) Pittsburgh, USA. May 11 – 15, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Anupam Mukherjee, Shubham Lanjewar, Ridhish Kumar, Arijit Chakraborty, Amira Abdelrasoul, Anirban Roy "Role of Thermodynamics and Membrane Separations in Water-Energy Nexus" Chapter in Modeling and Simulation for the Design of Membrane Processes, Edited by Anirban Roy, Siddhartha Moulik, Kamesh Reddi and Aditi Mullick; Wiley – ISBN: 978-1119536062..
2. Shubham Lanjewar, Anupam Mukherjee, Lubna Muzamil Rehman, Amira Abdelrasoul, Anirban Roy (2020) "Thermodynamics of Casting Solution in Membrane Synthesis" Chapter in Modeling and Simulation for the Design of Membrane Processes, Edited by Anirban Roy, Siddhartha Moulik, Kamesh Reddi and Aditi Mullick; Wiley – ISBN: 978-1119536062 .
3. Shubham Lanjewar, Anupam Mukherjee, Lubna Muzamil Rehman, Anirban Roy (2019) "Blue Energy and Its Potential: The Membrane-based Energy Harvesting" Chapter in Advances in Membrane Technologies, Edited by Amira Abdelrasoul; Intech - ISBN 978-1-78984-807-6.
4. Lubna Muzamil Rehman, Anupam Mukherjee, Zhiping Lai, Anirban Roy (2020) "Membrane Technology: Transport Models and Application in Desalination Processes" Edited by Anirban Roy, Siddhartha Moulik, Kamesh Reddi and Aditi Mullick; Wiley – ISBN: 978-1119536062 .

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT: Nil

8. INVITED TALKS GIVEN BY BITS FACULTY: Nil

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Title: Development of Porous Membranes with High Separation Performance Guest: Prof. Zhiping Lai, Professor and Director of Chemical and Biological Engineering, King Abdullah University of Science and Technology (KAUST)

10. AWARDS AND RECOGNITIONS

a. Won by Faculty: Nil

b. Won by Students: Nil

11. Faculty Development, International Collaboration & Industry Immersion: Nil

12. PATENTS FILED/PUBLISHED AND GRANTED: Nil

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES: Nil

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	FTIR	1
2.	UVDRS	1

B2.10. 4 Department: Computer Science & Information SystemsNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	5
Associate Professors	3
Assistant Professors	7
Lecturers	3
Visiting Faculty	-
Visiting Assistant Professors	2

Head of the Department: Prof. Vinayak Naik**Contact details:** vinayak@goa.bits-pilani.ac.in**Number of Ph.D. Scholars:****Full Time** : 12**Part Time** : 11**Aspirant Scheme** : 02**Ph.D. Thesis Submitted during the year: 2019**

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Mr. Shamanth N.	2011PHXF0405G	Design and Development of Sectored Antenna and Energy Efficient Cross-Layer Protocol for Directional Wireless Sensor Networks	Prof. Lucy J. Gudino	Prof. C. K. Ramesha

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

1	TCS DataLab	CS&IS	Prof. Ashwin Srinivasan	-	TCS	-	25,00,000
2	Implementation of Artificial Intelligence use cases in Yard Operations and Onboard Ship Operations (Short: Consultancy for Artificial Intelligence)	CS&IS	Ramprasad S Joshi	-	Goa Shipyard Ltd. (GSL)	-	26,00,000

C. International Sanctioned Projects

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D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	AES: Automated Evaluation Systems for Computer Programming Course in Any University	CS&IS	Dr. Soumyadip Bandyopadhyay	-	BITS GOA RIG	-	2,00,000
2	SamaTulyata: "Automated evaluation for computer programming course"	CS&IS	Dr. Soumyadip Bandyopadhyay	-	BITS GOA TLC	-	95,000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Mobile App for improving survival in fires through efficient egress: The role of impromptu indoor WiFi localization and georeferenced building maps	CS&IS	Prof. Vinayak Naik	-	DST	-	38,31,512
2	Knowledge-Rich Deep Models for Optimisation	CS&IS	Prof. Ashwin Srinivasan	-	SERB	-	27,00,000

B. Ongoing Industry Projects

1	TCS Research Advisory Agreement	CS&IS	Prof. Ashwin Srinivasan	-	TCS	-	7,50,000
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C. Ongoing International Sanctioned Projects

-	-	-	-	-	-	-	-
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D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of Remotely Configurable Arbitrary Ramp Generator for FMCW Reflectometry	CS&IS	Prof. Neena Goveas	-	BRNS	-	28,00,00
2	Secure Vehicular Communication And Routing In Future Intelligent Transportation Systems (ITS)	CS&IS	Dr. Debasis Das	-	SERB-DST	-	19,81,000

B. Completed Industry Projects

-	-	-	-	-	-	-	-
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C. Completed International Projects

1	Integrating AI-Planning and Machine-learning using Quantum Sampling	CS&IS	Prof. Ashwin Srinivasan	-	USRA	-	Access to the D-Wave
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D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Design of the Vehicular Communications and Networks	CS&IS	Dr. Debasis Das	-	BITS GOA RIG	-	2,00,000
2	Application of Internet of Vehicles (IoV) For Smart Cities	CS&IS	Dr. Debasis Das	-	BITS GOA ACRG	-	10,00,000

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

1. G. Chhikara, R. Banerjee, V. Naik, A. V. Subramanyam, and K. Dey. Use of Facial Landmarks for Adaptive Compression of Videos on Mobile Devices. An extended version of the ComsNets papers published in Communication Systems and Networks, Springer LNCS Volume 11227, Edition 1, 2019
2. Soumyadip Bandyopadhyay, Dipankar Sarkar, Chittaranjan Mandal:Equivalence checking of Petri net models of programs using static and dynamic cut-points, Acta Informatica Vol 56, Issue 4 (Core A) (Scimago Q1)
3. R.R. Swain, T. Dash, P.M. Khilar. A Complete Diagnosis of Faulty Sensor Modules in a Wireless Sensor Network. Ad Hoc Networks, 2019; DOI: 10.1016/j.adhoc.2019.101924; Publisher: Elsevier. (SCIMAGO: Q1)
4. Ashwin Srinivasan, Lovekesh Vig and Michael Bain (2019). Logical Explanations for Deep Relational Machines Using Relevance Information. Journal of Machine Learning Research. Volume 20, Number 130, pp 147.
5. Ashwin Srinivasan, Lovekesh Vig and Gautam Shroff (2019). Constructing Generative Logical Models for Optimisation Problems using Domain Knowledge. Accepted, Machine Learning.
6. Das, Debasis, and Rajiv Misra. "Improvised dynamic network connectivity model for Vehicular Ad-Hoc Networks (VANETs)." Journal of Network and Computer Applications 122 (2018): 107-114. (SCI, Impact Factor=5.23).
7. Das, Debasis. "Positive and Negative Link Prediction Algorithm Based on Sentiment Analysis in Large Social Networks." Wireless Personal Communications 102, no. 3 (2018): 2183-2198. (SCI, Impact Factor=1.2).
8. Das, Debasis, and Rajiv Misra. "IntersectionCast: approximation algorithm for multi-directional broadcast storm in VANETs." International Journal of Communication Networks and Distributed Systems 20, no. 1 (2018): 16-35. (Scopus Index).
9. Limbasiya Trupil, and Debasis Das. "An enhanced message verification system for vehicle-to-vehicle communication." International Journal of Communication Networks and Distributed Systems 21, no. 3 (2018): 346-362.
10. Trupil Limbasiya and Debasis Das, "Identity Based Proficient Message Verification Scheme for Vehicle Users", Pervasive and Mobile Computing, 2019 Elsevier (SCI, Impact Factor: 2.76)
11. Trupil Limbasiya and Debasis Das, ESCBV: Energy-Efficient and Secure Communication using Batch Verification Scheme in VANETs", Wireless Networks, 2019 DOI: 10.1007/s11276-019-02104-5, (SCI, Impact Factor=2.41).
12. Trupil Limbasiya, and Debasis Das. "Secure message confirmation scheme based on batch verification in vehicular cloud computing." Physical Communication 34 (2019): 310-320 (SCI, Impact Factor=1.46).
13. Trupil Limbasiya, Debasis Das, Ram Narayan Yadav, A reputation-based truthfulness paradigm using multi-hop transmission in cognitive radio networks, International Journal of Ad Hoc and Ubiquitous Computing, Vol. x, No. x, 2019 (SCI, Impact Factor=0.7)
14. Shubhangi K Gawali, Biju K Raveendran, DPVFS: a dynamic procrastination cum DVFS scheduler for multi-core hard real-time systems, International Journal of Embedded Systems 11 (4), 461-471, 2019
15. Geeta Patil, Neetu Bal Mallya, Biju K Raveendran, MOESIF: a MC/MP cache coherence protocol with improved bandwidth utilisation, International Journal of Embedded Systems 11 (4), 493-507, 2019
16. Sreekrishnan Venkateswaran, Santonu Sarkar: Fitness-Aware Containerization Service Leveraging Machine Learning, IEEE Transactions on Services Computing (Accepted)
17. Subhajit Datta, Rumana Lakdawala, Santonu Sarkar: Understanding the Inter-domain Presence of Research Topics in the Computing Discipline: An Empirical Study, IEEE Transactions on Emerging Topics in Computing, (Accepted in 2018, DOI given in 2019)
18. Mohit Sewak, Sanjay K. Sahay and Hemant Rathore, An Overview of Deep Learning Architecture of Deep Neural Networks and Autoencoders, Accepted, Journal of Computational and Theoretical Nanoscience, 2019.
19. Ashu Sharma and Sanjay K. Sahay, Group-wise classification approach to improve Android malicious apps detection accuracy, International Journal of Network Security, Vol. 21, No. 3, pp. 409-417, 2019.
20. Shamanth Nagaraju, Nipun Sood, Jasmine G. Chandran, Sreejith V., Lucy J. Gudino, "Multiple Token based Neighbor Discovery for Directional Sensor Networks"- in Electronics and Telecommunications Research Institute Journal (ETRIJ), Wiley
21. Shamanth Nagaraju, Sreejith V., Lucy J. Gudino, Bhushan V. Kadamb, Ramesha C. K., Joseph Rodrigues, "Mobile anchor node assisted localization for Wireless Sensor Network using sector antenna" - in International Journal of Communication systems, Wiley

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED**i) National: Nil****ii) International:**

1. Sreekrishnan Venkateswaran, Santonu Sarkar: Time-Sensitive Provisioning of Bare Metal Compute as a Cloud Service. IEEE CLOUD 2019: 447-451
2. Avijit Mandal, Divyasheel Sharma, Mohak Sukhwani, Raoul Jetley, Santonu Sarkar: Improving Safety in Collaborative Robot Tasks. IEEE INDIN 2019
3. A. Dewan, V. M. V. Gunturi, V. Naik, K. Vishwakarma, and S. Bohra. A Hierarchical Classifier for Detecting Metro-Journey Activities in Data Sampled at Low Frequency. Accepted at The 17th International Conference on Advances in Mobile Computing & Multimedia (MoMM2019), Dec 2 - 4, 2019, Munich, Germany
4. H. Fulara, G. Singh, D. Jaisinghani, M. Maity, T. Chakraborty, and V. Naik -. Use of Machine Learning to Detect Causes of Unnecessary Active Scanning in WiFi Network. Accepted at the 20th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM), Jun 10 - 12, 2019, Washington DC, USA
5. P. Vyasa, B. Patil, S. Singh, and V. Naik -. AppAmigo: An Efficient Middleware to Record and Control Remote Users' Interactions with their Smartphone Apps. Accepted at The 12th Innovations in Software Engineering Conference (ISEC'19), Pune, India, Feb 14 - 16, 2019
6. S. Sarkar, A. Goerge, ThrustHetero: A Framework to Simplify Heterogeneous Computing Platform Programming using Design Abstraction. ISEC 2019: 4:1-4:11
7. A. Batra, M. Maity, and V. Naik-. An Empirical Evaluation of the COTS Air Pollution Masks in a Highly Polluted Real Environment. Accepted at Networked Healthcare Technology (NetHealth'19) Workshop held in conjunction with the 10th International Conference on Communication and Networks (COMSNETS'19), Bangalore, India, Jan 7-11 2019 Best Paper Award
8. Soumyadip Bandyopadhyay, Dipankar Sarkar, Chittaranjan Mandal:SamaTulyataOne: A Path Based Equivalence Checker. ISEC 2019: 21:1-21:5
9. Shivam, Nilanjana Goswami, Veeky Baths, Soumyadip Bandyopadhyay:AES: Automated Evaluation Systems for Computer Programing Course. ICSoft 2019: 508-513 (Core B)
10. Sujith Thomas and Narayanan Srinivasan (2019). Traditional Artificial Category Learning: Improved Learning of Partially Diagnostic Features Lead to Less Preference for Unidimensional Rule. In The Sixth Annual Conference of the Association for Cognitive Science (ACCS), BITS Pilani Goa, India, Dec 10 - 12, 2019
11. Intelligent Computing and Smart Communication ICSC 2019 Image Processing for UAV using Deep Convolutional Encoder-Decoder Networks with Symmetric Skip Connections on a System on Chip (SoC), Abhiraj Hinge, Pranav Garg and Neena Goveas
12. Model-Based Approach for Cyber-Physical Systems Applications Development, Rizwan Parveen, Poojan Thaker, Neena Goveas, PACIS 2019.
13. Multi-Agent Systems for Resource Allocation and Scheduling in a Smart Grid, Arun Sukumaran Nair, Tareq Hossen, Mitch Campion, Daisy Flora Selvaraj, Neena Goveas, Naima Kaabouch & Prakash RanganathanTechnology and Economics of Smart Grids and Sustainable Energy, (2018) 3:15 <https://doi.org/10.1007/s40866-018-0052-y>
14. Conference/Workshop attended category: Basabdatta Sen-Bhattacharya- Advances in Data Science meet 2019, Manchester, UK, June 2019.
15. T. Dash, A. Srinivasan, R.S. Joshi, A. Baskar. Discrete Stochastic Search and its Application to Feature-Selection for Deep Relational Machines. In proc: 28th International Conference on Artificial Neural Networks (ICANN 2019), September 17-19, 2019, Munich, Germany. (CORE: B)
16. Richa Verma, Sarmimala Saikia, Harshad Khadilkar, Puneet Agarwal,Gautam Shroff, Ashwin Srinivasan (2019) A Reinforcement LearningFramework for Container Selection and Ship Load Sequencing in Ports.AAMAS 2019: 2250-2252.
17. Sanjay L. Joshi, Bharat Deshpande, and Sasikumar Punnekkat: Experimental Analysis of Dependency Factors of Software Product Reliability using SonarQube, IWSM MENSURA, 7-9 October 2019, Haarlem, Netherlands
18. Trupil Limbasiya, Debasis Das, Sanjay K. Sahay, Secure Communication Protocol for Smart Transportation based on Vehicular Cloud , The 2019 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2019), London, UK (Accepted)(Core Ranking: Core A*) .
19. Vasudev Harsha, and Debasis Das. "An Efficient Authentication and Secure Vehicle-to-Vehicle Communications in an IoV." In 2019 IEEE 89th Vehicular Technology Conference (VTC2019-Spring), pp. 1-5. IEEE, 2019 (Core Ranking: Core B)
20. Arkil Patel, Naigam Shah, Trupil Limbasiya, Debasis Das, VehicleChain: Blockchain based Vehicular Data Transmission Scheme for Smart City, 15th IEEE International Conference on Systems, Man, and Cybernetics (SMC) 2019, Bari, Italy (Core Ranking: Core B).

21. Amrithesh Kumar, Trupil Limbasiya, Debasis Das, BlockCom: Blockchain-based Efficient Communication and Storage Protocol' , IEEE 25th Asia-Pacific Conference on Communications (APCC), Ho Chi Minh city, Vietnam, 6-8 November, 2019 (Core Ranking: Core B).
22. Debasis Das, An Efficient Opportunistic Routing Algorithm in Vehicular Adhoc Networks(VANETs), Second International Conference on Advanced Computational and Communication Paradigms (ICACCP), Sikkim, India, 25th to 28th of February, 2019.
23. Das, Debasis. "A Fast Handoff Technique for Wireless Mobile Networks." In International Conference on Distributed Computing and Internet Technology, pp. 251-259. Springer, Cham, 2019. (Core Ranking: Core C).
24. Deshpande, Varad, and Debasis Das. "Efficient Searching Over Encrypted Database: Methodology and Algorithms." In International Conference on Distributed Computing and Internet Technology, pp. 327-338. Springer, Cham, 2019. (Core Ranking: Core C).
25. Vasudev, Harsha, and Debasis Das. "A Lightweight Authentication and Communication Protocol in Vehicular Cloud Computing." In 2019 International Conference on Information Networking (ICOIN), pp. 72-77. IEEE, 2019. (Conference Ranking: B1)
26. Poddar, Madhur, Swathi Ganta, K. R. Swaraj, and Debasis Das. "Privacy in the Internet of Vehicles: Models, Algorithms, and Applications." In 2019 International Conference on Information Networking (ICOIN), pp. 78-83. IEEE, 2019. (Conference Ranking: B1)
27. Vasudev, Harsha, and Debasis Das. "A lightweight Authentication protocol for V2V communication in VANETs." In 2018 IEEE SmartWorld, Ubiquitous Intelligence & Computing, Advanced & Trusted Computing, Scalable Computing & Communications, Cloud & Big Data Computing, Internet of People and Smart City Innovation (SmartWorld/SCALCOM/UIC/ATC/CBDCOM/IOP/SCI), pp. 1237-1242. IEEE, 2018 (Core Ranking: Core B)
28. Limbasiya, Trupil, and Debasis Das. "Secure and Effective Geo-Data Transmission Scheme for Vehicle-to-Vehicle Communication." In 2018 IEEE SmartWorld, Ubiquitous Intelligence & Computing, Advanced & Trusted Computing, Scalable Computing & Communications, Cloud & Big Data Computing, Internet of People and Smart City Innovation (SmartWorld/SCALCOM/UIC/ATC/CBDCOM/IOP/SCI), pp. 389-396. IEEE, 2018. (Core Ranking: Core B).
29. Vasudev, Harsha, and Debasis Das. "Secure Lightweight Data Transmission Scheme for Vehicular Ad hoc Networks." In 2018 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), pp. 1-6. IEEE, 2018. (Conference Ranking: B3).
30. Nav Pal, Komal Gaikwad and Debasis Das, Trust Calculation and Route Discovery for Delay Tolerant Networks, IEEE TENCON 2018 (Core Ranking: Core C).
31. A Baskar, R Ramanujam and S P Suresh, "Dolev-Yao Theory with Associative Blindpair Operators", In 2019 Conference on Implementation and Application of Automata, pp 58-69, LNCS 11601, 2019 (Core Ranking: Core B).
32. Geeta Patil, Biju K Raveendran, Sasikumar Punnekkat, Arun Sukumaran Nair, Louella Colaco, MEDIATOR - A Mixed Criticality Deadline Honored Arbiter for Multi-core Real-time Systems. In Proceedings IEEE/ACM 23rd International Symposium on Distributed Simulation and Real Time Applications (DS-RT). IEEE/ACM, 50-57. 2019 (Core Ranking: Core B).
33. Trupil Limbasiya and Sanjay K. Sahay, Secure and Energy-Efficient Key-Agreement Protocol for Multi-Server Architecture, Accepted, Springer, SKM-2019, Proceedings in Springer, CCIS, 2019.
34. Sanjay K. Sahay and Ashu Sharma, A Survey on the Detection of Android Malicious Apps, Springer, Advances in Computer Communication and Computational Sciences, Vol. 924, pp 437-446, 2019, Proceedings in Springer, Proceedings ICCCS.
35. Sanjay K. Sahay and Mayank Chaudhari, An Efficient Detection of Malware by Naive Bayes Classifier Using GPGPU, Springer, Advances in Computer Communication and Computational Sciences, Vol. 924, pp 255-262, 2019, Proceedings in Springer, Proceedings ICCCS.
36. Sanjay K. Sahay, Ashu Sharma and Hemant Rathore, Evolution of Malware and its Detection Techniques, Springer, Information and Communication Technology for Sustainable Development, Vol. 933, pp 139-150, 2019, Proceedings ICT4SD.
37. Amey Desai, Samarath Jain, Lohit Marodi, Sreejith V, \An A ect Computing based Attention Estimation"- in the Proceedings of 11th International Conference on Ubiquitous and Future Networks (ICUFN-2019), Zagreb, Croatia July 2019.
38. Shamanth Nagaraju, Sreejith V., Nipun Sood, Lucy J. Gudino, Mehul Kasliwal, Rajas Kejriwal, \DCS-MAC: A Distributed Cross-layer Communication Protocol for Directional Sensor Networks"- Accepted in the Proceedings of 33rd International Conference on Advanced Information Networking and Applications (AINA-2019), Matsue, Japan, March 2019.
39. Sreejith V, Poojan Parikh, Arnav Goel, An Energy E cient Routing Protocol for Small World WSN Using Directional Antennas" Accepted for presentation in IEEE TENCON-2019, Kochi, Kerala Oct - 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Basabdatta Sen Bhattacharya, Petrut Bogdan, Robert James, Gabriel Fonseca Guerra and Garibaldi Pineda García, "Applications – doing stuff on the machine", Chapter 5, In: Steve Furber, David Lester and Petrut, Bogdan (2019), "SpiNNaker - a spiking neural network architecture", Foundations and Trends® in Communications and Information Theory: Vol. xx, No. xx, pp 1–18. DOI: 10.1561/XXXXXXXXXX.
2. Shamanth Nagaraju, V Sreejith, Nipun Sood, Lucy J Gudino, Mehul Kasliwal, Rajas Kejriwal "DCS-MAC: A Distributed Cross-Layer Communication Protocol for Directional Sensor Networks", Advances in Intelligent Systems and Computing, P_Page 689.
3. Rima Al-Ali, Moussa Amrani, Soumyadip Bandyopadhyay, Ankica Barisic, Fernando J Barros, Dominique Blouin, Ferhat Erata, Holger Giese, Mauro Iacono, Stefan Klikovits, Eva Navarro, Patrizio Pelliccione, Kuldar Taveter, Bedir Tekinerdogan, Ken Vanherpen, "COST IC1404 WG1 Deliverable WG1. 2: Framework to Relate /Combine Modeling Languages and Techniques", EU Cost Action.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Dr. Soumyadip Bandyopadhyay was organised one workshop SE4CPS 2019 Colocated with ISEC 2019 at Pune
2. Sanjay K. Sahay, International Conference on Secure Knowledge Management in Artificial Intelligence Era, BITS Pilani, K.K. Birla Goa Campus, Dec. 21 - 22, 2019.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Dr. Soumyadip Bandyopadhyay: SERI 2019 at IISC Bangalore, July 2019
2. Dr. Soumyadip Bandyopadhyay: At IIT Kanpur, Sep 2019
3. Basabdatta Sen-Bhattacharya: "Biologically Plausible Neural Networks", Queen Marys University London, Department of Engineering, Host: Dr. Jun Chen, 26th September 2019. [selected slides on slideshare]

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Dr. Prakash Saivasan from Technical University Braunschweig delivered a talk on "Regular abstractions with applications to Infinite state verification" on 9th Jan 2019
2. Prof. P. B. Sujit from IIIT Delhi has delivered a Guest Lecture on "Autonomous Vehicles" on 23rd Jan 2019
3. Dr. Tanmay from IIIT Delhi gave a Research Talk on " Collusion in Online Media" on 18th Mar 2019
4. Dr. Ashok Srinivasan from University of West Florida gave a talk on "Computational Analysis of Infection Spread Through Air Travel" on 19th Jul 2019
5. Prof. Raja Sengupta from McGill University delivered a talk on "Predicting Movement: A case for machine learning possible pathways for mobile agents" on 31st Jul 2019

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Prof. vinayak Nail has won the Best paper award for the paper at Networked Healthcare Technology (NetHealth'19) Workshop held in conjunction with the 10th International Conference on Communication and Networks (COMSNETS'19), Bangalore, India, Jan 7-11 2019
2. Neena Goveas was appointed as a Senior Research Associate at the International Center for Theoretical Physics (ICTP), Trieste, Italy for a perion 2019-2024

b. Won by Students:

1. Team ZENIITH consisting of students (Gaurav Sangle-2016B4A70448G, Aryan Agarwal-2016A1PS0705G, Ahan M R-2016B4A30487G, Vedashree Kulkarni-2016B4TS0637G, Sanket Badgujar-2016B4AA0341G) have bagged the first position in different categories in the Grand Finale of Smart India Hackathon, 2019 (SIH, 2019) organised by MHRD, Government of India. Won a cash prize of Rs. 50,000/- in their problem statement under the Ministry of Railways.
2. Team APPTHLETES consisting of students (Gargi Balasubramaniam-2016A7PS0365G, Abhiraj Hinge-2016A7PS0053G, Mayank Manuja-2015A7PS0082G, Samarth Jain-2016A7PS0018G, Adithya R. -2015B2A30671G, , Pranav Agarwal-2016A3PS0165G) organised by MHRD, Government of India. Won a cash prize of Rs. 1,00,000/- in their problem statement under ISRO.
3. The team, CodersInSing, consisting of 3 Bitsians [2 from Goa Campus (Gargi Balasubramaniam - 2016A7PS0365G and Samarth Jain - 2016A7PS0018G and 1 from Pilani Campus)] along with 3 students from NTU, Singapore have won \$2000 in the recently held Singapore India Hackathon from September 28 - September 30 at IIT Madras which was organized by MHRD Innovation Cell, Government of India. Prime Minister Shri Narendra Modi was the chief guest of the function. The team at the hackathon won the 5th position out of 20 teams.
4. Trupil Limbasiya was selected for Travel Grant (1500 USD) - UbiComp 2019, London, UK

5. Trupil Limbasiya was selected for Travel Grant (1000 USD) - Asiacrypt 2018, Brisbane, Australia
6. Harsha V received a Best Paper Award in the IEEE 33th International Conference on Information Networking (ICOIN 2019) January 9-11, 2019, Kuala Lumpur, Malaysia(Core Ranking: Core B), 2019, IEEE;
7. International Travel Support (ITS) Award,Department Of Science & Technology, Govt. of Goa, DST Goa, India, 2019.
8. Ashwin Vaswani (ID No.2017A7PS0960G) stood Second runner up- Leading India.ai's All India AI Hackathon
9. Ravishankar Joshi (ID No.2016A7PS0006G) Qualified to Round 2 in Facebook Hacker Cup 2019.
10. Ravishankar Joshi (ID No.2016A7PS0006G) Qualified to ACM ICPC Kharagpur regional contest 2019. (Team: off_campus)
11. Abhiraj Hinge (ID No.2016A7PS0053G) was selected as one of the Economic Times Campus Stars - Class of 2018-19.
12. Akul Gupta (2016B3A70298G), a third year student of Computer Science & Information Systems and Economics, has been awarded the prestigious MITACS Globalink Research Internship sponsored by the Government of Canada for the summer of 2019.
13. Aditya Ketkar (2016A7PS0081G), Abhishek Jain (2016B2A7PS0584G), Rajas Kejriwal (2016A7PS0081G), Raghav Agrawal (2016A7PS0079G) a Perspectl, a computer vision startup from BITSG students was selected for the incubator iCreate under SparkUp fund.
14. Aditya Ketkar (ID No.2016A7PS0081G) won a Amazon India Hackers League Winner 2019.
15. Alish Dipani (ID No. 2016A7TS0005G) - GSoC 2019(Organisation - The Ruby Science Foundation)
16. Alish Dipani (ID No. 2016A7TS0005G) Selected for a grant of JPY500,000 by the Ruby Association for the development of the library Rubypplot: An advanced plotting library for Ruby.
17. Sharan R Y (ID No. 2016B4A70295G) awarded MITACS Globalink Scholar 2019
18. Mehul Mohan (ID No. 2017A7PS0935G) won a Apple WWDC Scholarship, San Jose, California
19. Divya Prabhu (ID NO. 2017A7PS0001G) secured 2nd Place in ACM-W Lady ada programming contest
20. Soundarya Krishnan (ID No. 2016B5A70472G) Recipient of MITACS Globalink Research Fellowship
21. Soundarya Krishnan (ID No. 2016B5A70472G) all India Runner Up in NETAPP SheCode Codeathon 2019
22. Sonali Saksena (ID No. 2016A7PS0791G) secured an International rank 5, and all India rank 1, in the HackerRank's Women's CodeSprint.
23. Rishab Khincha (ID No. 2016B5A70517G) Recipient of MITACS Globalink Research Fellowship
24. Arshdeep Singh(2017A7PS0060G), Nishant Chitkara(2017A7PS0074G),Mayank Chaturvedi (2017B4A70548G) Qualified for ACM ICPC Regionals Amritapuri and Kanpur 2019 (TeamName: rave_party)
25. Gargi Balasubramaniam (ID No. 2016A7PS0365G) awards & recognition as follows:
 - Paper accepted (as first author) for 34th IEEE/ACM International Conference on Automated Software Engineering 2019 at San Diego, California (Track: Student Research Competition)
 - Awarded the SIGSOFT CAPS travel grant for the above
 - Winner, Third Position at the ACM Student Research Competition in the Undergraduate Category
 - Recipient of the DAAD WISE scholarship for a summer internship at TU Munich, Germany
 - Awarded the MITACS Globalink Research Scholarship for a summer internship at University of British Columbia (Chose DAAD instead of MITACS)

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Neena Goveas was invited to the Data Energy Cyber and Systems (DECS) Laboratory at the University of North Dakota in July 2019.
2. Soumyadip Bandyopadhyay was invited for research collaboration at the University of Edinburgh, UK and Hasso Plattner Institute, Germany May 2019 to July 2019
3. International Collaboration category: Visiting Researcher, SpiNNaker Team, Advanced Processor Technologies (APT) Group, School of Computer Science, University of Manchester, Manchester, United Kingdom. [link]
4. Raj K Jaiswal working in collaboration with Saint-Petersburg State University of Telecommunications, St. Petersburg Russia on "SDN Load Balancing Using Artificial Intelligence.

12. PATENTS FILED/PUBLISHED AND GRANTED

1. Prof. Ashwin Srinivasan: METHOD AND SYSTEM FOR INFORMATION EXTRACTION FROM DOCUMENT IMAGES USING CONVERSATIONAL INTERFACE AND DATABASE QUERYING

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES**ASCII activities:**

- 1) Mentorship Program started for 1st year students. Mentors being 3rd and 4th year students. Plans to extend mentorship to 2nd year students.
- 2) Open Source Workshop series started. 2 lectures have been conducted, topics being GIT and GSOC. Plans to continue next semester.
- 3) Seniors Tech Talk conducted on various topics such as Research, Machine Learning, Competitive Programming, Development etc for all CS students.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	ANT PC PHEIDOLE XE4110 VJ with 8 Cores 16 Threads up to 3.00Ghz	1
2.	ANT PC PHEIDOLE CL700 GCG with 6 Core 12 Threads up to 4.6GHz with 2 GPUs	1

B2.10. 5 Department: Economics

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	0
Associate Professors	3
Assistant Professors	6
Lecturers	0
Visiting Faculty	1
Visiting Assistant Professors	0

Head of the Department: Prof. Aswini Kumar Mishra

Contact details: 0832-2580258; aswini@goa.bits-pilani.ac.in

Number of Ph.D. Scholars:

Full Time : 13

Part Time : 10

Aspirant Scheme : 0

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
-	-	-	-	-	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Impact of "Make in India" and new IPR Policy on Innovation of MNCs and Indian MSMEs in Medical Device Sector	Economics	Dr Rajorshi Sen Gupta	Prof A.K.Mishra	Impactful Policy Research in Social Sciences (IMPRESS) ICSSR, New Delhi, India .	-	6,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
2	Impact Assessment of Indigenous S&T innovations developed by University incubated Start-ups in India	Economics	Dr Rajorshi Sen Gupta	Prof A.K.Mishra	DST (NSTMIS-CHORD)	-	Status: Approved
3	Towards a healthy consumption pattern for preventing chronic diseases in India: pattern and determinants in the consumption of substance, healthy and unhealthy diets over 1983-2012	Economics	Dr Sukumar Vellakkal	-	PHRI-DST	-	18,50,000
B Industry Sanctioned Projects							
-	-	-	-	-	-	-	-
C International Sanctioned Projects							
-	-	-	-	-	-	-	-

D Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Impact of "Make in India" and new IPR Policy on Innovation of MNCs and Indian MSMEs in Medical Device Sector	Economics	Dr Rajorshi Sen Gupta	Prof A.K.Mishra	Impactful Policy Research in Social Sciences (IMPRESS) ICSSR, New Delhi, India .	-	6,00,000
2	Towards a healthy consumption pattern for preventing chronic diseases in India: pattern and determinants in the consumption of substance, healthy and unhealthy diets over 1983-2012	Economics	Dr Sukumar Vellakkal	-	PHRI-DST	-	18,50,000
B Ongoing Industry Projects							
-	-	-	-	-	-	-	-
C Ongoing International Sanctioned Projects							
-	-	-	-	-	-	-	-

D Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty In Journals****(a) SCOPUS/ SSCI/ ABDC /WoS : 07**

1. A.K. Mishra, A Kumar and A Sinha (2019) 'The shape of income distribution and decomposition of the changes in income inequality in India' in *Journal of Economic Studies*, Emerald Group Publishing Ltd. (An Emerging Sources Citation Index (ESCI) & SCOPUS Indexed Journal), Vol. 46(3), pp.760-776.
2. A.K. Mishra, S Satpathy, B Patra and R Patro (2019) 'Distributional Change, Income Mobility & Pro-Poor Growth: Evidence from India' in *Journal of the Asia Pacific Economy*, Routledge (Social Sciences Citation Index® -SSCI & SCOPUS Indexed Journal), Vol. 24(2), pp.252-269.
3. Shukla, R. (2019). "Market Structure, Entry Barriers, and Firms' R&D Intensity: Panel Data Evidence from Electronics Goods Sector in India", *Journal of Industry, Competition and Trade*, <https://doi.org/10.1007/s10842-019-00308-1>
4. E Aurino, J Fledderjohann, S Vellakkal (2019). Inequalities in adolescent learning: Does the timing and persistence of food insecurity at home matter? *Economics of Education Review (Elsevier)*. Volume 70, June 2019, Pages 94-108. doi:j.econedurev.2019.03.003. [Scopus indexed & Web of Science SCI Impact Factor 1.293]
5. G Sum, C Salisbury, G Koh, R Atun, B Oldenburg, B McPake, S Vellakkal, J Lee. Implications of multimorbidity patterns on health care utilisation and quality of life in middle-income countries: cross-sectional analysis. *J Glob Health*. 2019 Dec; 9(2): 020413. doi: 10.7189/jogh.09.020413 [Scopus indexed & Web of Science SCI Impact Factor 4.195]
6. Shashi Lata Yadav, Debasis Patnaik and Babitha Viswanath 'Do Health-care Companies of India fulfill Government 's New Orientation Towards CSR Activities: A Special Consideration Toward Maternal Health' *Journal of Health Research- 06-Nov-2019-JHR- Scopus Indexed*.
7. Abhishek Kumar Sinha, A K Mishra and Yash Patel (2019). 'Firm size, R&D Expenditure, and International Orientation: An Empirical Analysis of Performance of Indian Firms' accepted for publication in *International Journal of Technological Learning, Innovation and Development*, Inderscience Publications Ltd.
8. Manogna R L and A.K. Mishra (2019) 'Price Discovery and Volatility Spillovers: An Empirical Evidence from Spot and Futures Agricultural Commodity Markets in India' accepted for publication in *Journal of Agribusiness in Developing and Emerging Economies*, Emerald Group Publishing Ltd.

9. Jaiswal, R. (2019) 'Active Trading Strategies Based on Momentum and Term Structure Signals in Commodity Futures Market: Evidence from India', accepted for publication in *Afro-Asian Journal of Finance and Accounting*.

(b) UGC/Indian Citation Index: 04

1. R. Sen Gupta and K. Nakade (2019) Sustainability of Indian Solar Panel Industry: Some Policy Alternatives, *International Journal of Engineering, Applied and Management Sciences Paradigms (IJEAM)*, 54(1), pp.153-155. (UGC approved journal).
2. Anil Kumar, A K Mishra and D Patnaik (2018). National Health Policy, 2017- A Milestone towards Health Security in India? Some Annotations in *Journal of Social Sciences*, pp.21-27 DOI: 10.31901/24566756.2019/60.1-3.2254.
3. Mavis Henriques and Debasis Patnaik (2019). "An assessment of the effect of alcoholic parents on the behavior and wellbeing of scheduled castes and scheduled tribes children" *International Journal of Basic and Applied Research* 2019 Vol.IX Number V-UGC approved.
4. Debasis Patnaik and U Siddharth (2019). "Application with Implications of Log Periodic trends to Financial Bubbles: A Case for Econophysics" *International Journal of Engineering trends and Technology (IJETT)* Vol.67 Issue 5, pp-115-123. <http://www.ijettjournal.org>

(c) Others: 02

1. Debasis Patnaik and Kirti Dahia (2019) "Can Economic Entropy be integrated into IT and Human Systems? *International Journal of Latest Trends in Engineering and Technology*, Vol 13 Issue 2- 089-095.
2. Debasis Patnaik (2019) "Assessment of economic growth: Aspects and prospects in South Pacific Countries till 2015" *Journal of Accounting and Finance- Vol-33; Number-1; pp-23-32*.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED:19

1. Debasis Patnaik (2019). "Health Status of Tribal Women Across India with special Reference to Odisha" in a Conference Volume on 'Teaching Methodology of Tribal Students' (with Phd Scholar Ms Shashi Lata Yadav).
2. Debasis Patnaik, Sushant Kanumuri and Prabir Kumar Rath (2019). "Sustainable Development of Tourism in Goa-India Using GIS-18th IUAES World Congress Conference Proceedings-pp-1460-1484 A-D.July16-20, 2019. Florianopolis.
3. R. Sen Gupta, Mohammed Anjal, "Estimation of Value of Time of Toll Road Users In India", *International Transportation Economics Association Conference, Paris School of Economics, 12-14 June 2019*.
4. R.Sen Gupta, K. Nakade "Sustainability of Indian Solar Panel Industry: Some Policy Alternatives" 3rd *International Conference on Recent Multidisciplinary Research (ICRMR-2019)*, Goa University, 24-25 January 2019.
5. Debasis Patnaik- Presented 'Assessment of economic growth: Aspects and prospects in South Pacific Countries till 2015' at *International Conference on Accounting, Finance and Business* on Aug 24 2019 at RDA-Jaipur
6. Debasis Patnaik-Key-Note Speaker on 'Tribal Education: A Holistic Perspective' at *National Conference on Teaching Methodology for tribal Students at Kalinga Institute of Social Sciences-Deemed to be University and under the Category of Institute of Excellence*
7. Debasis Patnaik-(and Shashi Lata Yadav)- presented a paper on 'Health Status of Tribal Women Across India with special Reference to Odisha' at *National Conference on Teaching Methodology for Tribal Students at Kalinga Institute of Social Sciences-Deemed to be University and under the Category of Institute of Excellence*.
8. Debasis Patnaik-keynote address on *Comparative Assessment of Farmers' Suicides in Kerala, Karnataka, Tamil Nadu* on 2nd March 2019 at *National Conference on 'Issues and Challenges of Social Sector for Sustainable Development'* at the *Government College of Arts, Science and Commerce, at Sanquelim Goa* on 2nd March 2019.
9. Debasis Patnaik-Invited Talk at OSLO, Norway on 28th Nov 2019 on 'Integrating Social Impact in a Social Science Research Strategy' at *AESIS Conference*.
10. Debasis Patnaik and Riyanka Swain- *Relevance of Gandhian Approach for Regional Equity* Presented at *University of Paris and Univ of Le Habre* on March 14-16, 2019.
11. Debasis Patnaik and Shashi Lata Yadav-'Health Status of Tribal Women Across India with Special Reference to Odisha' at *National Conference on Teaching Methodology for Tribal Students at Kalinga Institute of Social Sciences-Deemed to be University and under Category of Institute of Excellence*.
12. Debasis Patnaik-Presented Paper on Invitation on 'Application of Historical Methods to Social Sciences Research at Directorate of Higher Education, Government of Karnataka at Dharwad Campus Building on 24th Feb 2019.

13. Debasis Patnaik-Paper Presented Jointly with Ms Gauri Nayak on 'Application of Artificial Intelligence in Urban Planning' at National Conference on Issues and Challenges of Social Sector for Sustainable Development at the Government College of Arts, Science and Commerce, at Sanquelim Goa on 1-2 March 2019.
14. Debasis Patnaik-Paper Presented Jointly with Ms Rachit Rastogi, et.al. on 'Health parameters defining levels of Sustainability in Indian Economy' at National Conference on Issues and Challenges of Social Sector for Sustainable Development at the Government College of Arts, Science and Commerce, at Sanquelim Goa on 2nd March 2019.
15. Arfat Ahmad Sofi Presented a paper titled "Spatial Interaction and Kaldor's Growth Laws: A Cross-Country Perspective" (with S. Subash and A K Mishra) in XX April International Academic Conference On Economic and Social Development, at Higher School of Economics, Natioanl Research Univeraity, Moscow, during 9th to 12th April 2019.
16. Abhishek Kumar Sinha, Aswini Kumar Mishra, Manogna RL and Rohit Prabhudesai(2019). *Examining the Performance and the Determinants of R&D Investments in Small and Medium Firms in India: New Empirical Evidence Using Panel Data Regression Model* presented at the Seventh PAN IIM World Management Conference hosted by Indian Institute of Management Rohtak during 12th -14th December 2019
17. Manogna R L and A. K. Mishra (2019) '*Forecasting of Spot Prices of Select Agricultural Commodities in India: Application of Deep-Learning Models*' presented at the Seventh International Conference in Business Analytics and Intelligence hosted by Indian Institute of Management Bangalore during 5th -7th December 2019
18. David K. K. Botchway, Dr. Rajorshi Sen Gupta (2019). Presented a seminar Paper: "AN EMPIRICAL ANALYSIS OF FOREIGN DIRECT INVESTMENT (FDI) AND FINANCIAL MARKET DEVELOPMENT (FMD) IN WEST AFRICA", presented at the Autumn School on Big Data and Methods in Regional Science, 21-25 October, 2019 at TISS, Mumbai (Regional Science Association International).
19. D.Patnaik and R. Swain (2019) "*Relevance of Gandhian Approach for Regional Equity*", presented at the International and Multidisciplinary Conference- The Rise of Asia in Global History and Perspective, Universite Le Havre, Normandie, France from March 13th-15th 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

Books Published/Edited/Chapters in Books (No.): 03

Books: 0

Books Chapters: 03

1. Sandra D Sa and Debasis Patnaik (2019) "Pharmaceutical Companies and Water Pollution in Hyderabad rivers" in Tomaz Dentinho Eds. Water Management in South Asia, Springer publication.
2. Arfat Ahmad Sofi (Forthcoming). "FDI, Labour Market and Welfare: How Inequality Navigate Welfare Loss?" in Narayan et. al. Eds. Changing Paradigms in Technology, Trade and Development, Springer. (with Subash S.)
3. Arfat Ahmad Sofi (Forthcoming). "Economics of Bioenergy in India" in M. Y. Bhat et. al. Eds. Energy Economics and the Environment: Preservation, Conservation and Sustainability, Sage. (with M.Y. Bhat.)

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT: 03

1. ArcGIS Training Workshop conducted by Dr. Nilesh Susware of Mantra Geo-Solutions, Pune on 09.11.2019
2. CMIE - ProwessIQ Training Workshop conducted by Mr. Mandhar Joshi, Assistant Vice President, Centre for Monitoring Indian Economy Pvt. Ltd. (CMIE) on 18.09.19
3. Two days' workshop on SPSS Modeler conducted by Mr. Tapabrata Chaudhuri, SPSS South Asia Pvt. Ltd. on 09.03.2019 and 10.03.19.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Debasis Patnaik- PhD External Examiner of two (2) PhD. Scholars From Kalinga Institute of Industrial Technology- (KIIT)- A Deemed To Be University-Institute of Excellence –Bhubaneswar-Aug2019 .
2. Debasis Patnaik-Chairman at Special Session at National Conference on Teaching Methodology for Tribal Students at Kalinga Institute of Social Sciences-Deemed to be University and under the Category of Institute of Excellence on July 27-28 2019.
3. Debasis Patnaik Organized a Presentation by Babu Aiholi-Faculty in Deptt of Economics, Goa University on Nov 9 2019 on Technical Analysis of Stock Markets
4. Debasis Patnaik's article on 'Pedagogical Importance in Teaching Enhancement' was Accepted to be published by Business Goa-2020 edited by Harsh Bhatkuly (Chairman (GMA) highlighting his felicitation by

other Universities of India ranging from Central University at Khammam, Andhra Pradesh and Kalinga Institute of Social Sciences (KISS)-Deemed to Be Univ and Institute of Excellence, Bhubaneswar, Odisha.

5. Debasis Patnaik-Invited and participated in Workshop on 'Learning and Orientations for Practice School' held in Pilani, Conference Hall on Jan24 2019.
6. Debasis Patnaik Invited by Confederation of Indian Industry on Feb1, 2019 to be part of Panel Discussion on Indian National Budget from 11AM onwards at Goa Office, Panjim. [The Nav Hind times 2Feb 2019, page1, widely reported this].
7. Debasis Patnaik Got 28 Mentions in Academia Premium till July15 2019
8. Debasis Patnaik Presented a One hour Paper on Implications of Masonry in Hyderabad Theosophical Society, Abids, Telangana on 17 Feb 2019.
9. Debasis Patnaik Engaged Two Batches of Assistant Professors from Karnataka Colleges Totaling Overall=100 Candidate-Delegates on "Application of Historical Methods to Social Sciences Research at Directorate of Higher Education, conducted by the Higher Education Academy (Dharwad) Government of Karnataka at Dharwad Campus Building on 24th Feb. 2019; Delivered a Talk on The Need for Research Directed Teaching for Educational Development and Nation Building on 25th Feb 2019.
10. Debasis Patnaik Co-Chaired a Session along with Mr Sudip Mohapatra, IMF, Delhi with Key speakers Prof Pradeep Panda, Dean of International Institution of Health Research Management, New Delhi; and Prof Smitha Srinivas from Rhodes University, South Africa-on Health Issues in a National Conference on Issues and Challenges of Social Sector for Sustainable Development at the Government College of Arts, Science and Commerce, at Sanquelim Goa on 1-2 March 2019.
11. Lead Guest Editor of Special Issues of Modern Management Forum 2019-20.
12. Participated in a Seminar on Currency Derivatives by Mr Babu Aiholi in Dept. of Economics at Goa University on 2 April 2019.
13. Participated with my 5 students (UG and PhD) in a Seminar on Universal Basic Income by Prof. Maitreyee Ghatak of LSE at ICG on 4 April 2019.
14. Debasis Patnaik Invited to be the Resource Person for Japanese Students from Dec 16, 2019 Onwards on (i)- Issues in Indian Economy (ii) Industrial Development.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Invited talk on "Understanding Indian Banking Crisis and its systematic symptoms using networks" by Dr. Wasim Ahmad, Faculty in the Department of Economic Sciences, Indian Institute of Technology, Kanpur on 31.01.2019.
2. Invited talk on "Title of the talk" by Prof. N. R. Bhanumurthy, NIPFP, New Delhi. "Date of the Talk".

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Debasis Patnaik as Selected Member of National Advisory Committee of Rajasthan Development Association from Aug2019 for International Conference at ICG, Goa on 23-24Nov 2019 on Current Issues in Finance, Accounting and Business.
2. Debasis Patnaik-Felicitated by Kalinga Institute of Social Sciences on Sept 27 2019 at National Conference on 'Teaching Methodology for Tribal Students' for 'Alternative Pedagogical Directions in Social Science Teaching and Research'.

b. Won by Students: **NIL**

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Debasis Patnaik (2019). Conducted MDP for PNB MetLife Executives at ITC Grand Goa on 9th Aug2019- Budget amount of Rs7.7lakhs (Rural Insurance)

12. PATENTS FILED/PUBLISHED AND GRANTED : NIL

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES: NIL

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	ArcGIS Software	5
2.	SPSS Amos	3

B2.10.6 Department: Electrical & Electronics Engineering

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	4
Associate Professors	4
Assistant Professors	18
Lecturers	0
Visiting Faculty	1
Visiting Assistant Professors	0

Head of the Department: Prof. Abhijit Pethe

Contact details: 0832-2580214

Number of Ph.D. Scholars:31

Full Time : 20

Part Time : 09

Lecture : 02

Aspirant Scheme :

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Khairnar Vikas Vishnu	2013PHXF0409G	Design and Development of Pattern and Polarization Reconfigurable Microstrip Antenna	-	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	MPSoC Based Automated Digital Signal Processing System for Tokamak Reflectometry	EEE	Amalin Prince A		BRNS		35,00,000
2	Flying Ad hoc Network for disaster rescue operations	EEE	Sarang Dhongdi		SERB		

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
B. Industry Sanctioned Projects							
1	Image Processing and Machine Learning Techniques for Leather Species Identification	EEE	Mentor: Amalin Prince A		Tata Consultancy Services		23,00,000
C. International Sanctioned Projects							
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of PCDA-liposome based detection kit for Alzheimer's disease biomarker	EEE	Dr. Amrita Chatterjee-PI	Dr. Ramesha C K - Co-PI Dr. Malabika Biswas - Co-PI	DST		26,63,200

B. Ongoing Industry Projects

-	-	-	-	-	-	-	-
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C. Ongoing International Sanctioned Projects

-	-	-	-	-	-	-	-
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D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of Remotely Configurable Arbitrary Ramp Generator for FMCW Reflectometry	-	Prof. Neena Goveas and Prof. Amalin Prince A	-	BRNS	-	28,02,500
2	Development of Software Defined Radio (SDR) Based GNSS (GLONASS + IRNSS) Receiver	-	Nitin Sharma	-	ISRO	-	33,00,000

B. Completed Industry Projects

-	-	-	-	-	-	-	-
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C. Completed International Projects

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D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty In Journals**

- Gibin C. G. , Bittu N, JJU Buch, Prince A.A., Neena G., and Surya P, (2019) 'Characteristics of Arbitrary Ramp Generator: A tuning voltage setup for the FMCW Reflectometer', IEEE Transactions on Instrumentation and Measurement [accepted].
- Gibin C. G. , Abhishek M., Sriyash C., Prince A.A., JJU Buch, and Surya P, (2019) 'A Novel and efficient hardware accelerator architecture for signal normalization', Circuits, Systems & Signal Processing [accepted].
- Gibin C.G., JJU Buch, Prince A.A. and Pathak S., (2019) 'Design of configurable multi-mode trigger unit', Elsevier Measurement, vol. 139, pp. 482-489.
- S. Hota, S. Baudha, B. B. Mangaraj, M. V. Yadav, "A novel compact planar antenna for ultra-wideband application," Journal of Electromagnetic Waves and Applications, (2019), pp. 1–14. <https://doi.org/10.1080/09205071.2019.1689854>
- S. Baudha, A. Basak, M. Manocha and M. V. Yadav, "A compact planar antenna with extended patch and truncated ground plane for ultra wide band application," Microwave and Optical Technology Letters, 61(2019), pp. 1–10. <https://doi.org/10.1002/mop.31988>
- S. Hota, S. Baudha, B. B. Mangaraj, M. V. Yadav, "A compact, ultra wide band planar antenna with modified circular patch and a defective ground plane for multiple Applications," Microwave and Optical Technology Letters, 61(2019), pp. 2088–2097. <https://doi.org/10.1002/mop.31867>
- V. Asnani and S. Baudha, "Triple Band Microstrip Patch Antenna Useful for Wi-Fi and WiMAX," IETE Journal of Research, 66(2019), pp. 01 – 08. <https://doi.org/10.1080/03772063.2019.1582365>
- S. Baudha and M. V. Yadav, "A novel design of a planar antenna with modified patch and defective ground plane for ultra-wideband applications," Microwave and Optical Technology Letters, 61(2019), pp. 1320–1327. <https://doi.org/10.1002/mop.31716>
- S. Baudha and M. V. Yadav, "A compact ultra-wide band planar antenna with corrugated ladder ground plane for multiple applications," Microwave and Optical Technology Letters, 61(2019), pp. 1341–1348. <https://doi.org/10.1002/mop.31710>
- S. Baudha, A. K. Goswami, and M. V. Yadav, "Miniaturized Dual-Band Antenna with a Rectangular Patch and Symmetrically Placed Circles in the Partial Ground Plane," Progress in Electromagnetics Research M, 78(2019), pp. 29–37. <http://www.jpier.org/PIERM/pier.php?paper=18112202>
- S. Baudha, H. Garg, M. V. Yadav, "Dumbbell Shaped Microstrip Broadband Antenna," Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 18(2019), pp. 33–42. <http://dx.doi.org/10.1590/2179-10742019v18i11371>
- Singh AC, Asif MH, Bacher G, Danielsson B, Willander M, Bhand S. Nanosensor based on ZnO nanorods for ultrasensitive detection of 17 β -Estradiol. Biosensors and Bioelectronics , 2019, 126:15-22.
- Aloke Saha & D. Pal, "DPL-based novel time equalized CMOS ternary-to-binary converter", Accepted in International Journal of Electronics, published online on 11 September 2019 (<https://doi.org/10.1080/00207217.2019.1661026>) - ahead of publication.
- A lightweight ANN based robust localization technique for rapid deployment of autonomous systems, Meetha V Shenoy, Anupama Karuppiyah, Narayan S Manjrekar Journal of Ambient Intelligence and Humanized Computing, pp 1-16, 2019
- Congestion-Adaptive and Delay-Sensitive Multirate Routing Protocol in MANETs: A Cross-Layer Approach, MA Gawas, LJ Gudino, KR Anupama, Journal of Computer Networks and Communications 2019.
- "A Survey on Recent Advances in Wearable Fall Detection Systems" by Anita Ramachandran and K. R. Anupama, BioMed International, Hindawi, (accepted)

17. L. C. Kandlakunta, M. K. Deshmukh and N. Sharma, Assessment of impacts on tropical marine environment for off-shore clean energy development, *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2019.06.486> (In press)
18. Shamanth Nagaraju, Sreejith V., Lucy J. Gudino, Bhushan V. Kadam, Ramesha C. K., Joseph Rodrigues, Hybrid Area Exploration based Mobility-Assisted Localization with Sectorized Antenna in Wireless Sensor Networks *International Journal of Communication Systems*, Wiley (2019). <https://doi.org/10.1002/dac.4220>
19. Shamanth Nagaraju, Sreejith V., Lucy J. Gudino, Bhushan V. Kadam, Ramesha C. K., Joseph Rodrigues, Mobile anchor node assisted localization for Wireless Sensor Network using sector antenna, *International Journal of Communication Systems*, Wiley (Communicated).
20. V. V. Khairnar, B. V. Kadam, C. K. Ramesha, and L. J. Gudino, "A reconfigurable microstrip cross parasitic antenna with complete azimuthal beam scanning and tunable beamwidth," *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 29, no. 1, p. e21472, 2019.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Manish Varun Yadav and Sudeep Baudha, "Dual-band miniaturized and modified circular patch radiator for Wi-Fi/WLAN Applications" 2nd Indian Conference on Antennas & Propagation (InCAP2019), Ahmedabad, India December 19-22, 2019 (Accepted)
2. S. Hota, M. V. Yadav, S. Baudha, B. B. Mangaraj, "Miniaturized planar ultra-wideband patch antenna with semi-circular slot partial ground plane" 2nd Indian Conference on Antennas & Propagation (InCAP2019), Ahmedabad, India December 19-22, 2019 (Accepted)
3. Sudeep Baudha, Shivani Gupta and Manish Varun Yadav, "Parasitic Rectangular Patch Antenna With Variable Shape Ground Plane For Satellite And Defence Communication," URSI Asia-Pacific Radio Science Conference (AP-RASC 2019), Delhi (India), 9-15 March, 2019. <https://doi.org/10.23919/URSIAP-RASC.2019.8738654>
4. Sudeep Baudha, Kannan Kapoor and Manish Varun Yadav, "U-Shaped Microstrip Patch Antenna With Partial Ground Plane For Mobile Satellite Services (Mss)," URSI Asia-Pacific Radio Science Conference (AP-RASC 2019), Delhi (India), 9-15 March, 2019. <https://doi.org/10.23919/URSIAP-RASC.2019.8738196>

ii) International:

1. Rathod A., Thakker R. and Prince A. A. (2019) 'Parameter Extraction of PSP MOSFET Model in Multi-core Zynq SoC Platform', Third International Conference on Computing and Network Communications (CoCoNet'19), December 18-21, 2019, Trivandrum, India [accepted].
2. Jaychandran Padayasi and Shashidhara Mecha Kotian, "Design of Supplementary Excitation Damping Controller for Mitigation of Subsynchronous Resonance," IEEE international technical conference (TENCON 2019), Kochi, India, October 2019.
3. D R Karthik and Shashidhara Mecha Kotian, "Initialization of Doubly-fed Induction Generator Wind Turbines Using Noniterative Method," IEEE 8th International Conference on Power Systems (ICPS), MNIT Jaipur, India, 20-22 December 2019 (Accepted).
4. R. Bajpai, N. Gupta, "A Novel Throughput Improvement Algorithm for High Density Wireless LAN" accepted in IEEE ANTS, Goa, 2019.
5. V.K. Singh, N. Upadhyay, N. Gupta, "A Low Overhead Frame Configuration for Improved Preamble Based Channel Estimation in FBMC-OQAM" accepted in IEEE ANTS, Goa, 2019.
6. Yash Pandit, N. Kulshresth & D. Pal, "IoT Based Smart Water Quality Data Logging Sensor System", 2019 IEEE R10 Humanitarian Technology Conference (R10-HTC), 12-14, November 2019, Depok City, Indonesia
7. S. Deshpande, L. Kapoor, S. Kamat, B. Satyanarayana & D. Pal, "Project Apeiro - High-altitude Balloon Payload for Measuring Cosmic Ray Flux", 36th 2019 International Cosmic Ray Conference (ICRC 2019), 24 July to - 1 August, Wisconsin, USA
8. T. Nagateja, A. Srinivasulu, & D. Pal, "RF Harvesting System for Low-Power Applications Using FinFETs", IEEE Int. Conf. on Consumer Electronics – to be held on January 11-13, 2019 in Las Vegas Convention Centre, USA. Theme: "Smart Electronics: Paradigms for Secure and Green Solutions"
9. Akhilesh G. Naik, Debarshi Deka & D. Pal, "ASIC Implementation of High-Speed Adaptive Recursive Karatsuba Multiplier with Square-Root-Carry-Select-Adder", accepted recently in LASCAS 2020 but will be presented between 25-28, February 2020.
10. Kasi Bandla, Hari Krishnan A & D. Pal, "New Topology of Low Power, High Speed and Area Efficient Dynamic-Latch Comparator for SAR-ADC's", accepted recently in 2020 International Conference on

Innovative Trends in Communication and Computer Engineering (ITCE) but will be presented between 8 – 9 February, 2020.

11. Aparna A P, Hrishikesh S. Sonaliker, Fast Computation of Radome EM Parameters with Golden Section Search Method for Radiation Pattern Peak Detection, 5th International Conference on Electronics, Computing and Communication Technologies (IEEE CONECCT), 27-28 July 2019, Bangalore, India, IEEE.
12. Ajay A. Ovhal, Hrishikesh S. Sonaliker, Shape Optimization of Cylindrical Electrode Geometries to Mimic Orbitrap, 5th International Conference for Convergence in Technology (I2CT), 29-31 March 2019, Pune, India, IEEE.
13. Hrishikesh S. Sonaliker, Efficient Computation of Radome Boresight Error Using Iterative Method for Antenna Sum Pattern, 5th International Conference for Convergence in Technology (I2CT), 29-31 March 2019, Pune, India, IEEE.
14. Aparna A P, Hrishikesh S. Sonaliker, Temperature Dependent Electromagnetic Design of Dielectric Wall for Airborne Applications, 2nd Indian Conference on Antennas and Propagation (InCap), 19-22 December 2019, Ahmedabad, India, IEEE (Accepted).
15. Ashish Chittora, "Periodic Metallic Posts Loaded Compact TM₀₁-TE₁₁ Mode Converter", IEEE Asia Pacific Conference on Applied Electromagnetics, 25-27 November, 2019, Malakka, Malaysia.
16. Swati V. Yadav, Ashish Chittora, "A Compact TM₀₁-TE₁₁ Mode Converter Designed with Octagon Printed Periodic Substrates", IEEE International Microwave and RF Conference 2019, IIT Bombay, Mumbai, India. [13-15 december, 2019] (Accepted)
17. Raman Ramachandran, Aswani Barik, Nitin Zanvar, Vishwas Apugade, Dhawal Patil, Gautam G Bacher, Venkata Vivek Gowripeddi, Nitin Sharma, Remote Access and Automation of SONIC Analysis System, International Conference on Remote Engineering and Virtual Instrumentation, 838-848, 2019.
18. Preeti Biradar, Shubham Mohapatra, N Elangovan, S Arun Kumar, Panchaksharayya S Hiremath, MS Prajval, Mallikarjuna Sarma, Nitin Sharma, Gautam G Bacher, Mounesh Pattar, Power Intelligence and Asset Monitoring (PIAM), , International Conference on Remote Engineering and Virtual Instrumentation, 634-640, 2019.
19. S Santosh Kumar, Santrupti M Bagali, Nitin Sharma, Mallik Arjuna, V Sabarish, SP Subramanya Swaroop, K Narmadha, MTLINKI Integration and ZDT, International Conference on Remote Engineering and Virtual Instrumentation, 686-697, 2019.
20. Preeti Biradar, Pranav Basavraj, Naveen Murugan, Nitin Sharma, Gautam G Bacher, Remote Enabled Engine Vibration Measurement System, International Conference on Remote Engineering and Virtual Instrumentation, 641-652, 2019.
21. Abhijit Dey, Prateek Singh, Nitin Sharma, Performance Evaluation of Tracking Loop under RF Interference using NavIC Software-Receiver, To be presented in APMC 2019, Singapore
22. Shailesh K, Nitin Sharma, ABC optimization aided Joint User and Throughput Maximization in underlay D2D communication, Accepted for presentation in ANTS 2019
23. M. K. Deshmukh, Athokpam Bharatbushan Singh, Online Monitoring of Roof-mounted SA-SPV System on Residential Building, The International Conference on Advanced Materials for Clean Energy and Health Applications (ICAMCEHA 2019), February 6-8, 2019, Jaffna – Sri Lanka
24. M. K. Deshmukh, Laxminarsimha Chary Kandlakunta, Nitin Sharma, Assessment of Impacts on Tropical Marine Environment for Off-shore Clean Energy Development, The International Conference on Advanced Materials for Clean Energy and Health Applications (ICAMCEHA 2019), February 6-8, 2019, Jaffna – Sri Lanka
25. Karthikeyan Iyer and N.S. Manjarekar, "Linear Controller Synthesis for Master System using Extended Physiological Proprioception in Upper-Limb Prosthesis", 8th International Conference on Systems and Control 2019 (ICSC '19), October 23-25, 2019, Marrakesh, Morocco
26. Anita Ramachandran, Anupama Karuppiah, Adarsh R. "Performance Analysis of Machine Learning Algorithms for Fall Detection" 2019 IEEE International Conference on E-health Networking, Application & Services (HealthCom), Bogota Colombia, October, 14-16th October 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED NIL

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. EEE Department conducted the 13th IEEE International Conference on Advanced Networks and Telecommunications Systems which is an IEEE flagship conference

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Mithun M. S. - Gave a talk on "Online ppm monitoring of Power Transformers" to Transmission wing, Kerala State Electricity Board (KSEB) Ltd. on 24/11/2018.
2. D. Pal, keynote address titled, "Engineering Education in India: Past, Present and Future", to be delivered on 12 December 2019 in the International Conference on Innovation in Engineering Sciences, Management & Technology-2019 (ICIEMSMT-19), organized by the Institute For Engineering Research and Publication (IFERP) at the S. B. Jain Institute of Technology Management & Research, Nagpur, India.
3. Delivered Expert Talk On Acquisition and Tracking of GNSS Signals, in TEQIP-III sponsored Short Term Training Program on "Global Navigation Satellite Systems (GNSS)" during 24-28 June 2019 at SVNIT Surat.
4. Delivered invited Talk On Basics of Acquisition and Tracking of GNSS Signals, in NERTU, OU Hyderabad 5-13 september, 2019.
5. Delivered invited Talk On Software Defined GNSS Receiver, in ECE Department, OU Hyderabad 9 september 2019.
6. M. K. Deshmukh, Session Chair and Plenary Talk on "Innovations in Renewable Energy Technologies driven Smart Grid Development" at International Conference on Innovations in Power and Advanced Computing Technologies, i-PACT-2019, at Vellore Institute of Technology, 22-23, March, 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Dr. Talk was arranged in the department on "Opportunities for entrepreneurship and Start-ups in India" Noida, By Shri, Ramendra S Baoni Founder and Chairman of Bisquare Systems Pvt. Ltd.
2. Training session for the students on "Wind Electrical Systems", on using the software tool MeteoDyn, which is used for modeling Wind farms. by Industry expert Mr. Sachin Bhandare, MeteoDyn, Pune, on WEDNESDAY, 6th, March, 2019, (AN)
3. Guest Lecture was arranged in EEE Department on "Underwater Acoustic Sensor Network" | Dr. Konstantin Kebkal | Evologics, Germany
4. Prof. L.K. Maheshwari Former Vice Chancellor of BITS Pilani, delivered a lecture on "The Microelectronics Journey and PN Junction Devices".
5. Invited Talk was arranged on Title: "Advancement in Communications over Packet Based Networks" by Dr. Amar Nath Ray of Shawnee, Kansas, USA on Wednesday, 11th September 2019
6. Department of EEE arranged a guest lecture on "Time-Frequency Analysis". Speaker for the session was Prof. Ram Bilas Pachori, IIT Indore on 16th September 2019
7. Invited talk was arranged for the students of the Course EEE/INSTR F473 WIND ELECTRICAL SYSTEM, by noted industry expert Mr. S. A. Mathew, from National Institute of Wind Energy, Chennai, on 11th, November, 2019
8. EEE department invited Prof. Mandar Chitre to deliver a talk and interact with department colleagues as part of IEEE ANTS conference being held in December 2019. Prof. Mandar Chitre, is Associate Head of Department (Undergraduate Programs), Department of Electrical & Computer Engineering (ECE), National University of Singapore (NUS). He is a prominent researcher working in an area of underwater communication, networking and robotics fields. He is currently the Head of the Acoustic Research Laboratory (ARL) at the Tropical Marine Science Institute (TMSI) in Singapore.

10. AWARDS AND RECOGNITIONS**a. Won by Faculty:****NIL****b. Won by Students:**

1. Mr. Siddhant Vitthal Patil (2015A8TS0475G), a fourth-year student of the EEE Department studying ENI, has been selected for the ILDP START plus 2019, International Linkage Degree Program for Developing Innovators Transforming Advanced Technology to Social Goals.
2. Suyash Gaekwad (2015A8PS0218G) had appeared for the GATE 2019 examination this year and secured an all India rank(AIR) 13 in Instrumentation engineering discipline.
3. Team ZENIITH, won Grand Finale of MHRD's Smart India Hackathon, 2019 comprising of Ahan M R, Vedashree Kulkarni, Gaurav Sangle, Aryan Agarwal and Sanket Badgujar, won a cash prize of Rs. 50,000/- in their problem statement under the Ministry of Railways at Nagpur.
4. Team APPHLETES won Grand Finale of MHRD's Smart India Hackathon, 2019 with a cash prize of Rs. 1,00,000/- in their problem statement under ISRO at Ahmedabad. The team comprised of Gargi Balasubramaniam, Adithya R., Abhiraj Hinge, Mayank Manuja, Pranav Agarwal and Samarth Jain.
5. Ms. Awani Khodkhumbe, (2016A8TS0331G) has been selected as IEEE SSCS Rising Star and will attend the prestigious ISSCC conference in January 2020

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Dr. Hrishikesh S. Sonalikar participated in BITS Industry Immersion Program during the summer vacation from 19 May 2019 to 17 July 2019 at CSIR-National Aerospace Laboratories, Bangalore, India. The research work was carried out at the Center for Electromagnetics. The work resulted in the publication of the following technical report.
2. Hrishikesh Sonalikar, Mandar Vasant Paranjape, Vineetha Joy, and Hema Singh, Raveendranath U Nair, Electromagnetic Analysis of Metallic Wire using Higher Order Method of Moments, CSIR-National Aerospace Laboratories, Bangalore, India, Project Document PD-CEM/2019/1031, 29 p., August 2019. (Restricted).
3. Dr. Hrishikesh S. Sonalikar participated as a sponsored candidate in the workshop on “Electromagnetic Interference and Compatibility (EMI/EMC) Techniques” conducted by the Department of Electrical Engineering at Indian Institute of Technology, Kanpur during 9 to 13 October 2019.
4. Dr. Ashish Chittora participated in a QIP Short Course on “Electromagnetic Metamaterials: Microwave, Terahertz and Optical Applications” conducted by CEP and EE Department, IIT Kanpur at Kanpur, Uttar Pradesh from 19-23 August, 2019.

12. PATENTS FILED/PUBLISHED AND GRANTED**13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES****Electrical Engineering Association:**

1. *BallBot* Students from EEE Department started a project this semester, called BallBot. The idea was to build a multi-axis self-balancing robot which balances on a ball. The system is a classic example of a dynamically unstable inverted pendulum and the challenge is to stabilize this very unstable system and balance it on a spherical surface. This sort of a mechanism is exceptionally agile and maneuverable, thus making it very easy for the robot to turn sharp corners (has no minimum turning radius) and move around objects in a hostile environment. The project also got selected in Sandbox for the 1st semester of this academic year.
2. Modular robotics: - Modular robots are a system of individual modules that are capable of linking with each other. Through this linkage, the bot is capable of forming different kinds of structures for different purposes. The project aims to create a system of modules capable of configuring and reconfiguring themselves into different configurations suited for the required objective. This ability provides versatility to the modular robots. Whenever the bot comes across a new situation, it can change its configuration to form a ‘new’ bot suited for the task at hand. By this method, a single system can be used for a wide range of applications.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	Lab instruments worth 24 Lakhs purchased for Rf and Microwave Lab. (Proposed Lab in New Academic Building).	-
2.	Cadence EDA Tools-PG Bundle (50 users,3 Years Term based Academic license) worth 20 Lakhs.	-
3.	Mentor Graphics HEP-1 & HEP-2 (60 user licence for 5 years) worth ₹8,30,720.00	-
4.	LPKF Proto Mat E44 (Set) PCB machine worth Rs.755757	-
5.	Experimental Kits for Communication Lab have been purchased	-
6.	CST Microwave Studio software license (perpetual) for electromagnetic simulation has been purchased under Additional Competitive Research Grant (PI: Ashish Chittora)	-
7.	Rational Suite for Modelling of Embedded Systems - 6 Licenses (3 installed in Embedded Lab and 3 in Remote Embedded Lab)	-
8.	Snapdragon 820 Development kits (4GB LPDDR4 RAM / 64GB UFS) 20 Nos worth ₹10.26 Lakhs were procured in Embedded Systems Lab.	820 Kts
9.	IBM Engineering Systems Design Rhapsody Developer for C++, C, and Java three user Perpetual Licensed Software worth ₹9.6 Lakhs was procured in Embedded Systems Lab.	-

B2.10.7 .Department of Humanities and Social SciencesNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	0
Associate Professors	6
Assistant Professors	8
Lecturers	0
Visiting Faculty	0
Visiting Assistant Professor	1
Visiting Professor	1

Head of the Department: Prof. Reena Cheruvalath

Contact details: 0832-2580141

Number of Ph.D. Scholars: 25

Full Time : 16

Part Time : 9

Aspirant Scheme : 0

Ph.D. Thesis Submitted during the year: 2019: NA

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
-	-	-	-	-	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned : NA**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects : NA

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects: NA

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects : NA

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Preparation of SAPCC for GOA state,	HSS	Rajiv Kumar Chaturvedi	-	NABARD Bank	-	3,80,000
2	Minor Research Project Title: Coping with Displacement due to River Erosion in the Indian Sundarban and Lower Assam.	HSS	Mohan Kumar Bera	-	ICSSR.	-	4,50,000
3	Bioremediation and Digital Documentation towards the conservation of Cultural Heritage.	HSS	-	Geetha B	DST (Under Science and Heritage Research Initiative).	-	37,45,000
4	Project titled "Risk & Uncertainty Assessment for Railway nrastructure due to Impacts of Climate Change"	HSS	Rajiv Kumar Chaturvedi	-	IIM Ahmedabad	-	2,40,000

B. Ongoing Industry Projects :NA

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	From NDCs to pathways and Policies: Transformative climate Action After Paris	HSS	Rajiv Kumar Chaturvedi	-	IDDRI, Paris France	-	12,00,000

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Awarded two year project titled "Revival of Long-term forest monitoring in the Western Ghats, for assessing changes in ecosystem services under changing climate"	HSS	Rajiv Kumar Chaturvedi	-	BITS, Pilani, Goa project	-	4,63,000
2	'Coping with crisis of livelihood and disasters: A study of migration in Sundarban islands'	HSS	Mohan Kumar Bera	-	BITS-Pilani RIG	-	200,000
3	Pedagogy Research about ACB students, TLC,	HSS	Rajiv Kumar Chaturvedi	Bidisha benerjee	BITS, Goa	-	50,000
4	Mental health behaviour	HSS	Bidisha Banerjee	-	BITS Pilano-RIG	-	200,000

3. COMPLETED PROJECTS

A. Completed Government Projects :

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Meta-moral Cognition and Critical Thinking	HSS	Reena Cheruvaalth	-	ICSSR	-	185,620

B. Completed Industry Projects: NA

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects: NA

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Language, Culture and Critical Thinking: The possibilities of measuring objectives with task	HSS	-	Reena Cheruvalath	(Japan Society for the Promotion of Science) JSPS	Univeristy of Waseda, Japan and Daitobunka University, Tokyo, Japan	321,580 YEN

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Impact of Different Pedagogical Approaches to Teaching Film and Literature in an Engineering Context; TLC Project.	HSS	Geetha B	-	-	-	50,000

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

1. Bidisha Banerjee: Basu, S & Banerjee, B (Forthcoming) Prospect of Brainwave Entrainment to Promote Well-Being in Individuals: A Brief Review. Psychological Studies. Springer (Accepted) 2019.
2. Tanna, Shilpa and Geetha Bakilapadavu. Revealing Layers: Sarnath Banerjee's The Barn Owl's Wondrous Capers. Journal of Graphic Novels and Comics. Taylor and Francis Online. (Accepted for publication). Indexed in Scopus, 2019.
3. K.A.Geetha: " Memory as Communication: An Analysis of the Reclamation of Panchami lands" Interventions: International Journal of Post Colonial Studies (Accepted ; Scopus Listed), 2019.
4. Bera, M. K. (2019), "Collective efforts of people to reduce disasters in the Indian Sundarban islands", Disaster Prevention and Management: An International Journal, (SCOPUS) Vol. 28 No. 5, pp. 691-705.
5. Rajiv Kumar Chaturvedi: Chi Chen, Taejin Park, Xuhui Wang, Shilong Piao, Baodong Xu, Rajiv K. Chaturvedi, Richard Fuchs, Victor Brovkin, Philippe Ciais, Rasmus Fensholt, Hans Tømmervik, Govindasamy Bala, Zaichun Zhu, Ramakrishna R. Nemani, Ranga B. Myneni (2019) China and India lead in greening of the world through land-use management, Nature Sustainability. <http://dx.doi.org/10.1038/s41893-019-0220-7> (Rated as one of the top articles globally in terms of Altmetric score (#61 out of 298,433) tracked articles of a similar age in all journals).
6. Rayson K Alex: "Ecophobia, Reverential Eco-fear, and Indigenous Worldviews." Interdisciplinary Studies in Literature and Environment (ISLE). Special Issue on Ecophobia. Oxford University Press. (International; scopus)
7. Reena Cheruvalath: 2019 Meta-moral Cognition- An introduction. Mind and Society, 18 (1): 33-42, Springer (Indexed in SCOPUS). 2. Reena Cheruvalath. 2019. Finding virtues in the trash on the City's Edge. Film International, 17(1): 96-102, Intellect (Indexed in SCOPUS)-

8. Reena Cheruvalath: 2019 Does studying 'ethics' improve engineering students' Meta-moral Cognitive skill? Science and Engineering Ethics (JSEE), 25 (2): 583-596, Springer (Indexed in SCOPUS)
9. Lakshmi Subramanian: Reflections on the Disciplinary Credibility of Business History, Economic and Political Weekly. Vol.54, No.41 October 12, 2019.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Lakshmi Subramanian: Indian Institute of Management, Ahmedabad, Moderator and Discussant in the Pedagogy Session. 29-31 August 2019.
2. Lakshmi Subramanian: Participant in the Festival Past Forward ranged by the Indian Foundation for the Arts, Bangalore 31 October-1 November 2019.
3. Mohan Kumar Bera: Presented paper in the XIV International Conference on Public Policy and Management, The title of the paper is Disaster Induced Migration in Indian Sundarban Islands. Indian Institute of Management Bangalore. 22-24 August, 2019,
4. Mohan Kumar Bera: The title of the paper was 'Dimensions of Migration and livelihood activities to cope with disasters in the Indian Sundarban islands' Presented paper in a conference organised by VikasAnvesh Foundation, Pune 7-9th Nov 2019.
5. Nilak Datta: Paper title: "Post truth" and "Doublethink": The Curious Cases of Slumdog Millionaire (2008) and Peepli Live (2010)." International Conference on "Literature, Culture, and Society in the Age of Post-Truth." Organized by Indian Association for Commonwealth Literature and Language Studies (IACLALS) and Department of English, Pondicherry University. February 6-8, 2019.
6. Nilak Datta: Paper title: "Habitable Utopias and Their Preservation: The Case Study of Daniel Boone". 18th International Conference on Sunny Pleasure Domes and Caves of Ice: Utopias and Dystopias in World Literature. Organized by The Society for the Study of the Multi-Ethnic Literatures of the World (MELOW) in association with Jamia Millia Islamia University, New Delhi. March 15-17, 2019.
7. R P Pradhan: "India & The Blue Economy: Evolving Partnerships", International Conference on India and the Indian Ocean Region: Dynamics of Geopolitics, Security, and Global Commons' ; The Peninsula Foundation; Chennai;. 12-13 July 2019.
8. Rajiv Kumar Chaturvedi: Planning Climate Resilient Forest Ecosystems: A case-study from North-eastern India, 14th National Silviculture Conference on "Forest and Sustainability: Securing a Common Future" to be organized at Institute for Wood Science and Technology, Bengaluru (Lead speaker at the conference; 2019.

ii) International:

1. Amitendu Bhattacharya: Alter(n)ation: the Life and Afterlife of Gandhian Gastropolitics," The 18th Triennial Conference of the Association for Commonwealth Literature and Language Studies (ACLALS) on "The Uncommon Commonwealth," The University of Auckland, New Zealand, 15-19 July 2019.
2. K A Geetha: "Muted Voices: Intersectional Oppression of the Dalit Devadasi" at the World Conference on Women Studies organized by TIIKM and Bridge Water State University in Bangkok, April 2019.
3. R P Pradhan: "Silent Wars & Violent Wars: A Perspective on Neo-Functional Supranationalism toward Global Working Peace", Asia Pacific Peace Research Association (APPRA) APPRA-2019, Jakarta, Indonesia, 2-4th May 2019.
4. Sayantani Sarkar: International Water Association Water and Development Congress and Exhibition, Colombo, 1-5 Decmber 2019.
5. Sayantani Sarkar: International Water Association Water and Development Congress and Exhibition, GSGS summit Sri Lanka 1-4 December, 2019.
6. Upadhyay, S and Upadhyay: (2019).Investigating Prime Minister Narendra Modi's Usage of Pathos in the Cyber-Physical Society- A Case of Public Relations Campaign, International Conference of Technology and Management (ITQM) Spain 4-6 Novemebr 2019.
7. Upadhyay, S and Upadhyay, N: (2019). Incorporating Twitter for Second Language Acquisition: Framework and Evidence, 16th TESOL Conference, Indonesia July 4-6, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Amitendu Bhattacharya: "The Man of His Heart: Tagore's Kabir". In G.J.V. Prasad, ed. India in Translation, Translation in India. Bloomsbury,2019. pp. 135-58.
2. Lakshmi Subramanian: Singing Gandhi's India. Music and Sonic nationalism. Roli International, New Delhi 2019
3. Nilak Datta : "Afterword." In Babitha Marina Justin. I Cook my Own Feast. New Delhi: RedRiver, 2019. pp. 75-77.

4. R P Pradhan : "Role of BRICS in World Politics", Role of International Organisations in World Politics, Blue Roan Publishers, Ahmedabad, https://www.amazon.in/ROLE-INTERNATIONAL-ORGANIZATIONS-WORLD-POLITICS/dp/8194187494/ref=pd_rhf_dp_p_img_1?encoding=UTF8&psc=1&refRID=QKB4ZHZE2QX569Y68J1B Gujrat; Oct.2019.
5. R P Pradhan & Sairam Sunkara : "Sagarmala & India's Blue Revolution: Making Sense of India's Maritime Reimaging" India in the New World Order: The Changing Contours of Her Foreign Policy Under Narendra Modi (eds); Edited by Raj Kumar Kothari; Atlantic Publishers, https://www.amazon.in/India-New-World-Order-Changing/dp/8126930373/ref=sr_1_6?qid=1565973934&refinements=p_27%3ARaj+kumar&s=books&sr=1-6 July 2019.
6. Rayson K Alex : "Indigenous interiority as nature–culture–sacred continuum: An ecological analysis of Have You Seen the Arana?" The Routledge Handbook of Ecocriticism and Environmental Communication. Ed. Scott Slovic, Swarnalatha Rangarajan and Vidya Sarveswaran. London and New York: Routledge, 2019. 363-372. Print

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT: NA

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Geetha B: Resource person. Cognitive Science in Education: Capacity Building for Teacher Education. Topic: "Visual Narratives in the Classroom: Teaching Empathy through Films". Held at Hyderabad Central University. November 18-22nd 2019.
2. Lakshmi Subramanian: Resource person and Discussant for the international workshop organised by the CSSSC and Trans-regional Academy, Kolkata 26-28 November 2019.
3. Lakshmi Subramanian: Evaluation panel member for completed projects under the European Research Commission in Brussels 15 November 2019.
4. Lakshmi Subramanian: Appointed panel member for new projects under the India Foundation for the Arts, Bangalore, 21 November, 2019
5. R P Pradhan: "Politics of Foreign Assistance & International Aid"; SWAYAM UGC-MHRD-MOOCs Online Lecture by Madras University in two parts, 25th April 2019. Available in SWAYAM YouTube.
6. Reena Cheruvalath: Resource person, Department of Philosophy, University of Kerala, Three Day National Seminar on "Neural Correlates of Consciousness: Philosophical and Scientific Perspectives, March 6th 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Prof. Ashok Malhotra: Queen's University Belfast, Robert McCarrison's Nutritional Research and its Influence on the Emerging Organic Movements in Britain and the USA.
2. Prof. Ambassador Tomasz Lukaszuk: Institute of International Affairs, Warsaw University Poland, "India's Role in Shaping Maritime Governance in the Indian Ocean Region- Implications for the European Union"
3. Shri Subhash Chandra: Principal Chief Conservator of Forests, Goa, Managing forests for Sustainable Future
4. Mr. Rajeev Sarao: Head HRBP - Ethics & compliance, Metropolis Healthcare Limited, Mumbai, "Melting Economy & Vanishing jobs: Perspective from Industry"
5. Dr. Parichay Patra: Assistant professor, Dept. of HSS, IIT, Jodhpur. "Cinema, Anecdote(s) and Microhistory: The Global Waves from the Long 1960s"

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Reena Cheruvalath, Data Collection Abroad Fellowship, on 'Meta-moral Cognition and Critical Thinking' in University of Kyoto, Japan, 2019, Awarded by ICSSR, 2019

b. Won by Students: NA

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Rajiv Kumar Chaturvedi: A member of global 'Commission on Ecosystem Management' in 'The International Union for Conservation of Nature (IUCN)' for the Quadrennial Period 2017-2020
2. Reena Cheruvalath: JSPS (Japan Society for the Promotion of Science), Grant-in-aid for Scientific Research on 'Language, Culture and Critical Thinking: The possibilities of measuring objectives with task,' Role: Co-investigator, 2019 (Principal Investigator: Hideki Ohno, Daitobunka University, Tokyo, Japan).
3. Reena Cheruvalath: Creative School of Science and Engineering, University of Waseda, Japan, Visiting Research Scholar- May- July 2019 .

12. PATENTS FILED/PUBLISHED AND GRANTED: NA

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES: NA

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED : NA

B2.10.8 Department: MathematicsNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	00
Associate Professors	04
Assistant Professors	11
Lecturers	00
Visiting Faculty	00
Visiting Assistant Professors	00

Head of the Department: Dr. Jajati Keshari Sahoo**Contact details:****Number of Ph.D. Scholars: 27****Full Time : 21****Part Time : 6****Aspirant Scheme :****Ph.D. Thesis Submitted during the year: 2019**

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1.	Santosh Ku Bhol	2013PHXF0013G	Title:Orthogonal Spline Collocation methods for differential equation with interface	Prof.Danumjaya Palla	Dr.AnilKumar Pundir

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Numerical Approximation of Optimal Control Problems Using Virtual Element Method	Mathematics	Anil Kumar Pundir	NA	Science and Engineering Research Board (SERB)	NA	22,00,000
2	Partial Migration Phenomenon: A Game Theoretic Approach to Causes and Environmental effects	Mathematics	Anushaya Mohapatra	NA	Science and Engineering Research Board (SERB)	NA	12,05,000

B. Industry Sanctioned Projects: NA

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects: NA

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects: NA

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Theoretical and Numerical Study of Elliptic and Parabolic Partial Differential Equations with Interfaces	Mathematics	Dr. Dhanumjaya P	-	Science and Engineering Research Board (SERB)	-	15,70,000
2	Theoretical and Numerical Study of Elliptic and Parabolic Partial Differential Equations with Interfaces	Mathematics	Dr. Dhanumjaya P	-	National Board for Higher Mathematics	-	13,50,000
3	A Study on the Inequalities Involving Complex Polynomials Funding Agency	Mathematics	Prof. Prasanna Kumar	-	National Board for Higher Mathematics	-	13,04,100
4	Bernstein Type Inequalities for the Polar Derivative of a Polynomial	Mathematics	Dr. Prasanna Kumar	-	Council of Scientific & Industrial Research (CSIR)	-	16,46,000
5	Study on Dark Energy, Dark Matter and Cosmic Acceleration of the Universe in Modified Gravity	Mathematics	Dr. Gauranga. C Samanta	-	Council of Scientific & Industrial Research (CSIR)	-	16,96,000
6	A study of homotopy invariants of a model category	Mathematics	Dr. Shilpa Gondhali	-	Science and Engineering Research Board (SERB).	-	6,60,000
7	Abelian Varieties, Galois Representations and Modular Forms	Mathematics	Prof. Vijay M Patankar	-	Science and Engineering Research Board (SERB).	-	6,60,000
8	Magic and Antimagic Labelings of Graphs	Mathematics	Prof. Tarakeswar Singh	-	Science and Engineering Research Board (SERB).	-	20,00,000
9	A Theoretical and Numerical Study of the Control Problems Involving Differential Equations with memory terms	Mathematics	Dr. Anil Kumar Pundir	-	Science and Engineering Research Board (SERB).	-	6,60,000

B. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	The Effect of Environmental fluctuations on the evolution of partial migration phenomenon	Mathematics	Dr. Anushaya Mohapatra	-	RIG	-	2,00,000

3. COMPLETED PROJECTS : NA**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty In Journals**

- Boggarapu, P; Roncal, L; Thangavelu, S (2019). On extension problem, trace Hardy and Hardy's inequalities for some fractional Laplacians. *Commun. Pure Appl. Anal.* 18: 2575–2605.
- Kumar, P (2019). Some Integral Inequalities for the Polar Derivative of Polynomials. *Publications de l'institut Mathématique.* 106: 85-94.
- Kumar, P (2019). On Zygmund-type Inequalities Involving Polar Derivative of a Lacunary-type Polynomial. *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie.* 62: 155-164.
- Govil, NK; Kumar, P (2019). On Sharpening of an Inequality of Turan. *Applicable Analysis and Discrete Mathematics.* 13: 1-10.

5. Bhal, SK; Danumjaya, P; Kumar, A (2019). A fourth-order Orthogonal Spline Collocation Methods to fourth-order Boundary Value Problems. *Int. J. for Computational Methods in Engineering Science & Mechanics*. 20: 460-470.
6. Danumjaya, P; Dhara, M (2019). Stability preserving non-standard finite difference schemes for diabetes with tuberculosis infectious model. *Letters in Biomathematics*, DOI: 10.1080/23737867.2019.1618743, pp. 1-18
7. Samanta, GC; Godani, N (2019). Physical parameters for stable $f(R)$ models, *Indian Journal of Physics*, accepted.
8. Samanta, GC; Godani, N (2019). Validation of energy conditions in wormhole geometry within viable $f(R)$ gravity. *European Physical Journal C*, 79: 623.
9. Godani, N; Samanta, GC (2019). Static traversable wormhole in $f(R, T)=R+2\alpha\ln(T)$ gravity. *Chinese Journal of Physics*. 62: 161-171.
10. Shah, P; Samanta, GC (2019). Stability analysis of cosmological models in $f(R)$ gravity using dynamical system analysis. *European Physical Journal C (EPJC)*. 79: 414.
11. Godani, N; Samanta, GC (2019). Non violation of energy conditions in wormholes modeling. *Modern Physics Letters A (MPLA)*. 34: 1950226.
12. Samanta, GC; Godani, N (2019). Wormhole modeling supported by non-exotic matter. *Modern Physics Letters A (MPLA)*. 34: 1950224
13. Astashenok, AV; Mosani, K; Odintsov, SD; Samanta, GC (2019). Gravitational collapse in general relativity and R^2 gravity: a comparative study. *International Journal of Geometric Methods in Modern Physics (IJGMMP)*. 16: 1950035.
14. Singh, KM; Samanta, GC (2019). Dark energy in spherically symmetric universe coupled with Brans-Dicke scalar field. *Advances in High Energy Physics*. 2019: 5234014.
15. Singh, KM; Samanta, GC (2019). Dark energy and its manifestations. *New Astronomy*. 68: 45.
16. Sahoo, JK; Behera, R; Stanimirović, PS; Katsikis, VN; Ma, H (2019). Core and core-EP inverses of tensors. *Computational and Applied Mathematics*, 39: (1), 2019 (Accepted)
17. Nandi, AK; Sahoo, JK; Mishra, D (2019). Three-step alternating iterations for index 1 and non-singular matrices. *Numer. Algor.* (Accepted).
18. Roul, RK; Sahoo, JK (2019). Sentiment Analysis and Extractive Summarization Based Recommendation System. *Advances in Intelligent Systems and Computing*. 990: 473-487.
19. Roul, RK; Sahoo, JK (2019). Near-Duplicate Document Detection Using Semantic-Based Similarity Measure. *Advances in Intelligent Systems and Computing*. 990: 543-558.
20. Roul, RK; Mehrotra, S; Pungaliya, Y; Sahoo, JK (2019). A New Automatic Multi-document Text Summarization using Topic Modeling. *Lecture Notes in Computer Science*. 11319: 212-221.
21. Shangeth, R; Sahoo, JK (2019). Near-Duplicate Document Detection Using Semantic-Based Similarity Measure, Convolutional Feature Extraction and Neural Arithmetic Logic Units for Stock Prediction. *Communications in Computer and Information Science*. 1045: 349-359.
22. Das, A; Gondhali, S; Mukherjee, G (2019). Nambu structures on Lie algebroids and their modular classes. *Proc. Indian Acad. Sci. Math. Sci.* 129.
23. Gondhali, S (2019). The complex K^* ring of the complex projective Stiefel manifold. *Journal of Algebraic Combinatorics*. (Accepted).
24. Pradhan, PK; Pandey, MK (2019). Lie Symmetries One Dimensional Optimal System and Group Invariant Solution of Ripa System. *International Journal of Nonlinear Sciences and Numerical Simulations*. 20: 713-723.
25. Mukherjee, H (2019). Hamiltonian cycles of power graph of abelian groups. *Afr. Mat.* 30: 1025–1040.

Journals (National):

1. Sharma, V; Setia, A (2019). Approximate Solution and its Convergence Analysis for Hypersingular Integral Equations. *Defence Science Journal*. 69: 173-178.
2. Singh, T (2019). Saturated Edge Coverings of Graphs. *Indian Journal of Discrete Mathematics*. 4:, 47-52.

Proceedings in Conferences:

1. Shriya, TPG; Sahoo, JK; Roul, RK (2019). Authorship Identification using Recurrent Neural Networks. Proceedings of the 3rd International Conference on Information System and Data Mining (ICISDM 2019, ACM Digital library. 133-137.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED**i) National:**

1. Danumjaya Palla delivered a talk in National Conference on Analysis and Its Applications (NCAA-2019), held at Karnatak University, Dharwad, March 1-2, 2019.

ii) International:

1. Anil Kumar presented a paper on "A Mixed Finite Element Method for Elliptic Optimal Control Problems Based on Biorthogonal Systems" in the 9th International Congress on "Industrial and Applied Mathematics (ICIAM-2019)" held at Campus de Blasco Ibáñez of the Universitat de València, València, Spain from July 15 to July 19, 2019.
2. Prasanna Kumar presented a paper "On the Generalization of Turan's Inequality for the Derivative of a Polynomial" at 1151th American Mathematical Society sectional meeting held at Binghamton University, Binghamton, New York, USA during October 12-13, 2019.
3. Prasanna Kumar presented a paper On an Inequality of Turan at 1148th American Mathematical Society sectional meeting held at University of Connecticut Hartford, USA during April 13-14, 2019.
4. Danumjaya Palla delivered a talk in 4th International Conference on Recent Developments in Theory, Computation & Application of Differential Equations held at South Asian University, New Delhi, January 21-23, 2019.
5. Danumjaya Palla delivered a talk in International Conference on Differential Equations and Control Problems: Modeling, Analysis and Computations (ICDECP19) held at IIT Mandi, June 17-19, 2019.
6. Danumjaya Palla delivered a talk in 9th International Congress of Industrial and Applied Mathematics (ICIAM) 2019 held at Valencia, Spain, July 15-19, 2019.
7. Danumjaya Palla delivered a talk in the V International AMMCS Interdisciplinary Conference, Wilfred Laurier University, Waterloo, Ontario, Canada, August 18-23, 2019.
8. Danumjaya Palla delivered a talk in the 12th International Conference on Mathematics and Mathematics Education in Developing Countries, National University of Laos, Laos, November 1-3, 2019.
9. Gauranga C. Samanta presented a paper entitled "Traversable wormholes in modified gravity" in "Asian - Pacific Winter School and Workshop on Gravitation and Cosmology" at Yukawa Institute for Theoretical Physics, Kyoto University, Japan, during 11th - 15th Feb-2019.
10. Gauranga C. Samanta presented a paper entitled "Wormhole Modeling in General Relativity" in 10th Mathematical Physics Meeting: School and Conference on Modern Mathematical Physics at University of Belgrade, Serbia, during September 9-14, 2019.
11. Gauranga C. Samanta presented a paper entitled "Cosmological Dynamics in R2 gravity with logarithmic trace term in 30th Texas Symposium Relativistic Astrophysics at University of Portsmouth, United Kingdom, during December 15-20, 2019

Workshops Attended:

1. Pradeep Boggarapu attended workshop "Current Trends in Harmonic analysis" held at the Dept. of Mathematics, IIT Bombay, from 8th March-10th March, 2019.
2. Pradeep Boggarapu attended workshop "Young Harmonic Analysis Meet.", held at the Dept. of Mathematics IISER Kolkata, from 10 October, 2019 to 12 October, 2019.
3. Shilpa Gondhali attended *Advanced Instructional School (AIS) on Homotopy Theory* which was held at ISI Kolkata from May 13 to May 25, 2019. Gave a talk in it on the topic Today bracket.
4. Shilpa Gondhali attended a conference on *Topology, Geometry and related topics* at IMSc on 27-28 May 2019.
5. Shilpa Gondhali attended a conference on *Topology of manifolds and representation theory* at ISI Kolkata from August 18 to August 24, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED:**NA****7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT: NA**

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Manoj Kumar Pandey delivered a talk in Intensive teaching workshop which was held at BITS Pilani K K Birla Goa Campus on 29th March, 2019.
2. Jajati Keshari Sahoo delivered a talk entitled "Alternating iterative schemes for large singular system based on matrix splitting" at Department of Mathematics, IITGoa on 30th October, 2019.
3. Jajati Keshari Sahoo delivered a talk entitled "Iterative methods for singular rectangular linear system " at Department of Mathematics & Statistics, ISSER Kolkata on November 21, 2019.
4. Anil Kumar delivered an invited talk in the 4th International Conference on "Recent Developments in Theory, Computation & Application of Differential Equations" held at Department of Mathematics, South Asian University, New Delhi, India from January 21 to January 23, 2019. The title of the talk was " A mixed finite element method for elliptic optimal control problems using a three-field formulation".
5. Anil Kumar delivered an invited talk in International Conference on "Differential Equations and Control Problems: Theory, Modelling and Computation (ICDECP19)" held at the School of Basic Sciences, Indian Institute of Technology, Mandi, Himachal Pradesh, India during June 17 to June 19, 2019. The Title of the talk was "A Fourth-Order Orthogonal Spline Collocation Method to Fourth Order Boundary Value Problems". Also chaired one of the paper presentation session.
6. Danumjaya Palla delivered a talk in 4th International Conference on Recent Developments in Theory, Computation & Application of Differential Equations held at South Asian University, New Delhi during January 21-23, 2019
7. Danumjaya Palla delivered a talk in National Conference on Analysis and Its Applications (NCAA-2019), held at Karnatak University, Dharwad during March 1-2, 2019.
8. Danumjaya Palla delivered a talk in International Conference on Differential Equations and Control Problems: Modeling, Analysis and Computations (ICDECP19) held at IIT Mandi during June 17-19, 2019.
9. Anushaya Mohapatra delivered a talk in Second International Conference on Applications of Mathematics to Nonlinear Sciences which was held during June 27-30, 2019 in Pokhara, Nepal. The title of the talk was " The evolutionary stability of partial migration under different forms of competition".

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. September 29, 2018, Prof. Mohan K Kadalbajoo, FNASc, FWIF, FIAMMS, Distinguished Professor, Department of Mathematics, LNMIIT Jaipur (Formerly: Professor, Department of Mathematics & Statistics, I.I.T. Kanpur) delivered a lecture on "An Optimal Error Estimate of an IMEX Finite Element Method for Some Partial Integro-differential Equations Arising in Finance".
2. September 19, 2018, Dr. Archana Morye, Assistant Professor, School of Mathematics and Statistics, Hyderabad Central University delivered a lecture on "The Serre-Swan Theorem".
3. August 8, 2018, Prof. Kiran R. Bhutani, Department of Mathematics, The Catholic University of America, Washington DC delivered a lecture on "F-Domination in Graphs and Applications".
4. April 27, 2018, Prof. C. S. Arvinda, TIFR Center for Applicable Mathematics delivered lectures on the following topics:
 - Gauss-Bonnet theorem and uniformization.
 - Geometrization of closed 3-manifolds.
5. April 6, 2018, Dr. Sachindranath Jayaraman, School of Mathematics, Indian Institute of Science Education and Research, Thiruvananthapuram delivered a lecture on "Semipositivity of matrices and linear maps relative to proper cones".
6. March 31, 2018, Prof. Amiya K. Pani, Institute Chair Professor, Department of Mathematics, Industrial Mathematics Group, IIT Bombay delivered a lecture on "Scientific Computing: A New Way of Looking at Mathematics".
7. March 28, 2018, Prof. Gurmeet K. Bakshi, Professor & Chairperson, Department of Mathematics, Panjab University, Chandigarh delivered a lecture on "Cayley table in Sudoku style".
8. February 28, 2018, Dr. Somnath Jha, Assistant Professor, Department of Mathematics and Statistics, IIT Kanpur delivered a lecture on "Congruent number problem".
9. February 20-22, 2018, Prof. S. Arumugam, Adjunct Professor, Department of Mathematics, Amrita Vishwa Vidyapeetham Coimbatore delivered lecture series on the following topics:
 - Submission of Project Proposal Under the Matrices Scheme.
 - Algebraic Graph Theory.
10. February 14, 2018, Prof. David Blanc, Department of Mathematics, University of Haifa, Israel delivered a lecture on "On configuration spaces for linkages".

10. AWARDS AND RECOGNITIONS**a. Won by Faculty:**

1. Dr. Anil Kuamr got Ahlfors seminar award-2019 at the Department of Mathematics, BITS Pilani K. K. Birla Goa campus.

b. Won by Students: NIL**11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION**

1. Gauranga C. Samanta Visited Institute of Space Science, Barcelona, **Spain** under University immersion program for research collaboration work with Prof. S. D. Odintsov and Prof. E. Elizalde, 21-May to 15-July-2019.
2. P. Dhanumjay, Member of Manuscript Processing Committee for the journal "Differential Equations and Dynamical Systems", Springer.

Collaborations:**1. Prasanna Kumar**

- Prof. N. K. Govil, Department of Mathematics and Statistics, Auburn University, USA.

2. Tarkeshwar Singh

- Prof. Tao-Ming Wang, Applied Mathematics, Tunghai University, Taiwan.
- Prof. Amitava Bhattacharya, School of Mathematics, TIFR, Mumbai.
- Prof. S. B. Rao, Mathematics, CR Rao AIMSCS Hyderabad.
- Prof. Arumungam, Applied Mathematics, Amritha Vishwavidyapeetham, Coimbatore.

3. P. Dhanumjaya

- Prof. Graeme Fairweather, Senior Editor in AMS, USA.
- Prof. Amiya Kumar Pani, Department of Mathematics, IIT Bombay.
- Prof. V Sree Hari Rao, Foundation for Scientific Research and Technological Innovation, Hyderabad.

4. Anil Kumar

- Dr. Bishnu Prasad Lamichhane, School of Mathematical and Physical Sciences, University of Newcastle, Australia.
- Prof. Amiya Kumar Pani, Department of Mathematics, IIT Bombay.
- Prof. Sarvesh Kumar, Department of Mathematics, IISST, Thiruvananthapuram.
- Prof. A. K. Nandakumar, Department of Mathematics, IISc Bangalore.

5. Jajati Keshari Sahoo:

- Dr. Ratikanta Behera, Department of Mathematics & Statistics, IISER, Kolkata.
- Prof. Predrag Stanimirovic, Faculty of Science & Mathematics, University of Nis, Serbia.

6. Vijay M. Patankar:

- Prof. C. S. Rajan, Dean, School of Mathematics, TIFR, Mumbai.
- Prof. Stephan Baier, Department of Mathematics, School of Mathematical Sciences, Ramakrishna Mission Vivekananda Educational and Research Institute, Kolkata.

7. Mayank Goel:

- Prof. Suresh Kumar, Department of Mathematics, IIT Bombay.

8. Himadri Mukherjee:

- Dr. Sachindranth Jayaraman, Department of Mathematics, IISER, Thiruvananthapuram.
- Dr. Kaushik Majumdar, Department Mathematics, IIT Goa.

9. Pradeep Boggarapu:

- Prof. S. Thangavelu, Department of Mathematics, IISc Bangalore.

10. Gauranga C. Samanta:

- Prof. Sergei D. Odintsov and Prof. Emilio Elizalde, Institute of Space Science, Barcelona, Spain.
- Prof. Kazuharu Bamba, Fukushima University, Japan.
- Prof. S Capozziello, Dipartimento di Fisica E. Pancini, Universit di Napoli Federico II, Napoli, Italy.
- Prof. R. Myrzakulov, L. N. Gumilyov Rurasian National University, South Africa.

12. PATENTS FILED/PUBLISHED AND GRANTED : NA**.13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES**

1. Weekly Seminars by our faculty members were held in the Department of Mathematics.
2. Teacher day celebration was held on September 05, 2019 and the event was successfully organized by our research scholar.
3. Mathletes (January 24, 2019), The Mathematics Association, organized a get-together event of all faculty and students in mathematics followed by dinner. Some talent show events were the part of this function.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED: NA**B2.10.09 Department: Mechanical Engineering**Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	02
Associate Professors	02
Assistant Professors	11
Lecturers	03
Visiting Faculty	00
Visiting Assistant Professors	00

Head of the Department: **Dr. RANJIT S PATIL**

Contact details: ranjitp@goa.bits-pilani.ac.in, 08322580209, 09923138587

Number of Ph.D. Scholars: 23

Full Time : 13

Part Time : 10

Aspirant Scheme :

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Vishal V Patil	2013PHXF0505G	Experimental Investigations to Assess the Performance of Selected Biofuels in Diesel Engines	Ranjit S Patil	-
2	Sathish Mullya	2013PHXF0507G	Process Simulation and Experimental Investigation on Inter-electrode gap of Micro Electrical Discharge Milling	G Karthikeyan	Ranjit S Patil

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Drag reduction by suppressing the Bi-stability character of the	-	Prof. Shibu Clement	Dr. Pritanshu Ranjan	AR&DB	-	20,80,500

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
	wake in bluff body vehicles						
2	Microfluidic Sperm cell sorting device: addressing male infertility factor	-	Dr. Siddhartha Tripathi		SERB	-	27,41,000
3	A study on energy barrier to buckling in cylindrical shells	-	Dr. Sandeep Jose	-	DST-SERB	-	32,87,000
4	Design and Development of Innovative SHM System using Embedded Piezo based Active Sensing Approach for Delamination Detection in Multi-Layer Composite Structures	Mechanical Engineering	Dr. Devendra G Patil	-	SERB-DST	-	28,87,000
5.	Multiscale modelling of noncarbon nanomaterials and their reinforced polymer composite materials and structures	Mechanical Engineering	Dr. Sandeep Singh	NA	SERB-DST	-	19,52,000
6.	Evaluation of Mechanical Performance of the 3-D Printed PEEK Polymer used in Space Applications	Mechanical Engineering	Prof. D M Kulkarni	Dr.Vikas Chaudhari	ISRO		36.29 Lakhs

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Isolation of white blood cells using a passive hydrodynamic microfluidic device	-	Dr. Siddhartha Tripathi	-	ACG	-	9,00,000
2	Experimental and Numerical Study on Crashworthiness of Aluminium-Composite Collapsible Energy Absorber under Quasi-static Loading	Mechanical Engineering	Dr.Kiran Mali	-	ACRG	-	5,25,000
3	Study of heat transfer in Loop Heat Pipe with nanofluids using Infrared Thermography	Mechanical Engineering	Dr. Vadiraj Hemadri	-	ACRG	-	9,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
4	Feasibility Study of Innovative Piezo-based System for Inhibition of Subsea Algal Growth and SHM of Marine Structures	Mechanical Engineering	Dr. Devendra G Patil	-	ACRG	-	9,27,000
5	Numerical investigation of fluid flow and heat transfer around a rotating circular cylinder	Mechanical Engineering	Dr.Pritanshu Ranjan	-	ACRG	-	10,00,000

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Drag reduction by suppressing the Bi-stability character of the wake in bluff body vehicles	-	Prof. Shibu Clement	Dr. Pritanshu Ranjan	AR&DB	-	20,80,500
2	Microfluidic Sperm cell sorting device: addressing male infertility factor		Dr. Siddhartha Tripathi		SERB	-	27,41,000
3	A study on energy barrier to buckling in cylindrical shells		Dr. Sandeep Jose	-	DST-SERB	-	32,87,000
4	Design and Development of Innovative SHM System using Embedded Piezo based Active Sensing Approach for Delamination Detection in Multi-Layer Composite Structures	Mechanical Engineering	Dr. Devendra G Patil	-	SERB-DST	-	28,87,000
5.	Multiscale modelling of noncarbon nanomaterials and their reinforced polymer composite materials and structures	Mechanical Engineering	Dr. Sandeep Singh	NA	SERB-DST	-	19,52,000
6.	Evaluation of Mechanical Performance of the 3-D Printed PEEK Polymer used in Space Applications	Mechanical Engineering	Prof. D M Kulkarni	Dr. Vikas Chaudhari	ISRO	-	36,29,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Isolation of white blood cells using a passive hydrodynamic microfluidic device	-	Siddhartha Tripathi	-	ACG	-	9,00,000
2	Experimental and Numerical Study on Crashworthiness of Aluminium-Composite Collapsible Energy Absorber under Quasi-static Loading	Mechanical Engineering	Kiran Mali	-	ACRG	-	5,25,000
3	Study of heat transfer in Loop Heat Pipe with nanofluids using Infrared Thermography	Mechanical Engineering	Vadiraj hemadri	-	ACRG	-	9,00,000
4	Feasibility Study of Innovative Piezo-based System for Inhibition of Subsea Algal Growth and SHM of Marine Structures	Mechanical Engineering	Devendra G Patil	-	ACRG	-	9,27,000
5	Numerical investigation of fluid flow and heat transfer around a rotating circular cylinder	Mechanical Engineering	Pritanshu Ranjan	-	ACRG	-	10,00,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Study of Lubricant and Application Method for enhanced surface finish and reduced draw load on cold drawn steel tubes	Mechanical Engg	Varinder Singh	Prof. Amit Kumar Gupta (Hyd Campus) Co PI Prof S P Regalla (Hyd campus) Co PI Dr. TC Bera (Pilani campus) Co PI	Tube Investments of India Ltd (TIIL), Chennai	--	27,43,000

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Thermal performance characterization of Loop Heat Pipes with nanofluids by infrared thermography.	Mechanical Engg	Dr. Vadiraj Hemadri	-	RIG	-	2,00,000
2	A study on energy barrier to buckling in cylindrical shells	Mechanical Engg	Dr.Sandeep Jose	-	BITS ACG	-	10,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
3	Feasibility Study of Innovative Piezo-based System for Inhibition of Subsea Algal Growth and SHM of Marine Structures	Mechanical Engineering	Dr. Devendra G Patil		ACRG		9,27,000
4	Atomistic continuum coupled methods for the large deformation simulation of two-dimensional nanomaterials	Mechanical Engineering	Dr.Sandeep Singh		ACG		6,91,000

3. COMPLETED PROJECTS

A. Completed Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Study on buckle wave propagation in axially compressed cylindrical shells considering the effect of geometric imperfections	Mechanical Engineering	Dr.Sandeep Jose	-	RIG	-	2,00,000
2	Multiscale modelling for the dynamic characteristics of initially strained graphene sheets and carbon nanotubes	Mechanical Engineering	Dr.Sandeep Singh	-	RIG	-	2,00,000

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

1. Nikhil Rajendra Kadam, G. Karthikeyan, Dhananjay Kulkarni (2019), Finite element analysis on nano-indentation behavior in columnar 7YSZ EB-PVD thermal barrier coatings, Jurnal Tribologi, 22:1-17.
2. Nikhil R. Kadam, G. Karthikeyan, Dhananjay M. Kulkarni (2019), Effect of Substrate Rotation on the Microstructure of 8YSZ Thermal Barrier Coatings by EB-PVD, Materials Today: Proceedings, Inpress.
3. Rajawat A., Tripathi S. (2019), Disease Diagnostics using Hydrodynamic Flow Focusing in Microfluidic Devices: Beyond flow cytometry, BioMedical Engineering Letters, Inpress.
4. Patil, M., Simhachalam, B., Singh, V. and Srinivas, K., (2019) "Effect of new lubrication technique in tube drawing", Materials Today Proceedings, (In Press)(SCOPUS Indexed) DOI: <https://doi.org/10.1016/j.matpr.2019.10.027>

5. Rushkesh Shinde, Kiran Mali, M. Kathiresan, Kulkarni Dhananjay , "Experimental and numerical studies on crashworthiness parameters of Mild Steel square tube under quasi-static axial compression" International Journal of Vehicle Structures and Systems, Vol 11 Issue 7 ACCEPTED (SCOPUS Indexed)
6. P Zhang, D Patil, SCM Ho (2019). "Effect of Seawater Exposure on Impact Damping Behavior of Viscoelastic Material of Pounding Tuned Mass Damper (PTMD)". Applied Sciences, 9(4). (<https://doi.org/10.3390/app9040632>)
7. M Ho, S El-Borgi, D Patil, G Song, (2019) "Inspection and monitoring systems subsea pipelines: A review paper," Structural Health Monitoring, pp 1-40 (<https://doi.org/10.1177%2F1475921719837718>)
8. S. Singh (2019). Exploring the effect of dihedral energy on the nonlinear mechanics of the carbon nanotubes using a multiscale modelling, *ASME Journal of Vibration and Acoustics* 141 (4), pn. 041018. (SCI, IF: 1.92)
9. S. Singh (2019). Refined multiscale model based on the second-generation interatomic potential for the mechanics of graphene sheets, *Mechanics of Materials* 133, pp. 26–36 (SCI, IF: 2.95)
10. P.L. Ramkumar, D.M. Kulkarni, Vikas V. Chaudhari (2019). Fracture toughness of LLDPE parts using rotational moulding technology, *International Journal of Materials and Product Technology* Vol. 58 (4): 305-322. DOI: 10.1504/IJMPT.2019.100003. Impact factor (Clarivate Analytics) 0.674.
11. Swadesh Dixit, Vikas Chaudhari, D.M.Kulkarni. Effect of tempering time on mechanical and fracture behavior of SA 387 Gr.11 pressure vessel steel, *Journal of Materials Processing Technology*, <https://doi.org/10.1016/j.jmatprotec.2019.116419> (SCI, IF: 4.178).

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National: NIL

ii) International:

1. Nikhil R. Kadam, G. Karthikeyan, Dhananjay M. Kulkarni, Effect of Substrate Rotation on the Microstructure of 8YSZ Thermal Barrier Coatings by EB-PVD, 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT2019), BITS Pilani, Dubai Campus, UAE, 20th-22nd Nov. 2019.
2. Nikhil R. Kadam, G. Karthikeyan, Dhananjay M. Kulkarni, The effect of spray angle on the microstructural and mechanical properties of plasma sprayed 8YSZ TBCs, 11 International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 2019), IIT Indore, 12th-14th Dec. 2019.
3. Shreyas Anil Barapatre and Shibu Clement, Heat Transfer Performance of Printed Circuit Heat Exchanger using Nanofluids as a Coolant, 25th National & 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference, IIT Bombay, Roorkee, 28-31 December 2019
4. Abhilash K. Tilak, Ranjit S. Patil, Effect of Chitosan Surfactant Concentration on the Thermal Conductivity and Viscosity of Al₂O₃ + CNT Hybrid Nanofluid, International Conference on Innovations in Nanomaterials & Nanotechnology (NANOMTECH), Bangkok, Thailand, 16-17 November 2019
5. Abhilash K. Tilak, Ranjit S. Patil, Entropy Generation Analysis of a Microchannel Heat Sink with Al₂O₃ and CNT Nanofluid, 25th National & 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference, IIT Roorkee, Roorkee, 28-31 December 2019
6. Patil, M., Simhachalam, B., Singh, V. and Srinivas, K., (2019) "Effect of new lubrication technique in tube drawing", 2nd International Conference on Recent Advances in Materials & Manufacturing, Nov. 22-22, 2019, Dubai, UAE. Paper Code. 4064
7. Ravindra Singh Saluja and Varinder Singh (2018) " A Fuzzy multi-attribute decision making model for selection of welding process for grey cast iron", 2nd International Conference on Recent Advances in Materials & Manufacturing, Nov. 22-22, 2019, Dubai, UAE. Paper Code. 4059
8. Ankit Saxens, Kiran D. Mali, Vibration Analysis of Functionally Graded Kirchoff Plates with Bilinear Thickness Variation using Variational Method, AAUFM-UCLA International Conference on Advances in Functional Materials, University of California, Los Angeles, USA, Aug. 2019.
9. Miheer Joshi, Kiran D. Mali, M. K. Deshmukh, Sayed Ubaid, "Development of a Test Rig for Classification of Vibration Damping Materials for Electric Motor Based Applications" ,International Conference on Recent Developments in Mechanical Engineering, ICRDME 2019, S.A. Engineering College, Chennai, India., March 21-22, 2019,
10. Kedar M. Hendre , Kiran D. Mali and Dhananjay M. Kulkarni, "A Study of Occupant Injuries Classification in Automobile Accidents in Relation to Upper Extremities Bones", International Conference on Recent Advances in Mechanical Infrastructure (ICRAM-2019), Institute of Infrastructure Technology, Research and Management (IITRAM), Ahmedabad, Gujarat, India., 20-21 April, 2019
11. Rushkesh Shinde, Kiran Mali, M. Kathiresan, Kulkarni Dhananjay, Experimental and numerical studies on crashworthiness parameters of Mild Steel square tube under quasi-static axial compression., International

- Conference on Recent Developments in Mechanical Engineering, ICRDME 2019, S.A. Engineering College, Chennai, India., March 21-22, 2019,
12. Daniel Mathews, R. Suresh, Manoj Kumar Hilalpure Sandeep Jose, "A study on buckling of thin cylindrical shell with pucker induced imperfection and geometric imperfection", INCAM -2019, IISc, Bangalore, 3rd – 5 th July, 2019
 13. Sai Kaushik, Manoj Kumar H, Sandeep Jose, "Morphing of zero stiffness shell structure using Macro Fiber Composite", NCAM -2019, IISc, Bangalore, 3rd – 5 th July, 2019
 14. Koustubh R Bhagat, Pritanshu Ranjan, " Flow past a Heated Rotating Horizontal Cylinder in Cross-Flow", 10th International Conference on Thermofluids 2019, Universitas Gadjah Mada, Yogyakarta, Indonesia, November 5-6, 2019.
 15. Jayant Jhamb, Aakash Rajawat, Pritanshu Ranjan, " CFD Study of Diffuser Augmented Micro Wind Turbine", CFD Study of Diffuser Augmented Micro Wind Turbine, University College Dublin, Ireland, December 02 -04, 2019.
 16. S. Singh (2019). Modified multiscale computational framework for the nonlinear dynamic response of the two-dimensional nanomaterials, *Proc. Functional Materials Technology Key Enabler for Industrial Revolution*, August 19-22, University of California, Los Angeles, US, pp. 63.
 17. Vikas Chaudhari & Swadesh Dixit (2019). Modeling of short fiber reinforced composite using Extended Finite Element Method (XFEM), AAAFM-UCLA International Conference on Advances in Functional Materials 2019, University of California, Los Angeles, USA, August 19-22, 2019
 18. Swadesh Dixit & Vikas Chaudhari, Evaluation of Fracture Parameters to Simulate Fracture Process Zone for SA 516 Pressure Vessel Steel, 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), Dubai, UAE, BITS Pilani – Dubai Campus, Dubai, UAE, November 20-22, 2019

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. S. A. Mullya and G. Karthikeyan, Comparative Study of Dielectric and Debris Flow in Micro-Electrical Discharge Milling Process Using Cylindrical and Slotted Tools, *Advances in Unconventional Machining and Composites*, Springer Nature Singapore Pte Ltd., ISBN 978-981-32-9470-7
2. N. R. Kadam, G. Karthikeyan, D. M. Kulkarni, Microstructure and Mechanical Properties of Atmospheric Plasma Sprayed 8YSZ Thermal Barrier Coatings, *Advances in Micro and Nano Manufacturing and Surface Engineering, Lecture Notes on Multidisciplinary Industrial Engineering*, Springer Nature Singapore, pp. 437-446.
3. M. Sreedhar Babu, Shibu Clement, N. K. S. Rajan and Tehsinraza Mulla, Emission Analysis of a Small Capacity Producer Gas Engine at Higher Hydrogen Concentration and Compression Ratios, *Lecture Notes in Intelligent Transportation and Infrastructure SPRINGER publication*
4. Saluja R.S., Singh V. (2019) Subjective Factors Consideration in the Selection of Welding Technique for Welded Tube Manufacturing. In: Narayanan R., Joshi S., Dixit U. (eds) *Advances in Computational Methods in Manufacturing. Lecture Notes on Multidisciplinary Industrial Engineering*. Springer, Singapore (SCOPUS Indexed) DOI: https://doi.org/10.1007/978-981-32-9072-3_18
5. Saluja R.S., Singh V. (2020) MADM-Based Approach for Selection of Welding Process for Aluminum Tube Manufacturing. In: Venkata Rao R., Taler J. (eds) *Advanced Engineering Optimization Through Intelligent Techniques. Advances in Intelligent Systems and Computing*, vol 949. Springer, Singapore (SCOPUS Indexed) DOI: https://doi.org/10.1007/978-981-13-8196-6_39
6. Hendre K.M., Mali K.D., Kulkarni D.M. (2020) A Study of Occupant Injuries Classification in Automobile Accidents in Relation to Upper Extremities Bones. In *Recent Advances in Mechanical Infrastructure. Lecture Notes in Intelligent Transportation and Infrastructure*. Springer, Singapore. DOI https://doi.org/10.1007/978-981-32-9971-9_28.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT :

Nil

8. INVITED TALKS GIVEN BY BITS FACULTY

1. G. Karthikeyan delivered an invited talk on "Surface coating techniques and multi-layer ceramic coatings as TBC" AICTE Sponsored FDP on Cutting edge technology contemporary research in mechanical engineering conducted at Saranathan College of Engineering Trichy on 11th June 2019.
2. Vikas Chaudhari delivered talk on "DESIGN OF ROTOMOULDED PRODUCTS Based on Fracture Mechanics Approach" at Society of Asian Rotomoulders (StAR) Annual Conference & Trade Show, 23- 25, January 2019, Kochi, Kerala January 25th 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Dr P.C. Jain, Scientist G, DRDL Hyderabad, "Practical Aspects of Finite Element Analysis with Case Study" on 17/09/2019.
2. Prof. Gautam Dasgupta, Professor of Civil Engineering at Columbia University. "Current research activities at Columbia University on 10th January 2019.
3. Dr. Suresh M V J J. working with GE India Technology Centre, Bengaluru as an Engineering Manager. "current scenario of Conventional and Renewable Energy Resources" on 18/10/2019.
4. Ashish Baheti, Umakant Savardekar, Ravi Kadilval and Swetang Dave (All from Industry). Orientation program of Rotational Moulding Industry for Students , March 23, 2019

10. AWARDS AND RECOGNITIONS**a. Won by Faculty:**

S.No.	Name	Association/Society member
1	Dr. Devendra G Paitl	Reviewer of ASME-JERT, MDPI-Applied Sciences, Sensors, IEEE- TIE, JVE, Smart Materials and Structures
2	Dr. Vadiraj Hemadri	Reviewer of International Journal of Thermal Sciences; Publisher : Elsevier (Impact factor 3.488, SCI, SCOPUS Indexed Journal)
3	Dr. Kiran D Mali	Reviewer for manuscript number JCOMB_2019_2501 for Composites Part B, An international journal. (Impact factor 6.86, SCI, SCOPUS Indexed Journal)
4	Dr. Kiran D Mali	Reviewer of International Conference on Recent Advances in Mechanical Infrastructure (ICRAM 2019) to be held during 20-21 April, 2019.
5	Dr. Varinder Singh	Appointed as Jt. Secretary of Indian Institute of Metals, Goa Chapter
6	Dr. Varinder Singh	Member of Vidyalaya Management Committee of Kendriya Vidhyalaya No. 1 Vasco Da Gama
7	Dr. Ranjit S Patil	Reviewer of Elsevier Journal : Powder Technology, Energy; AIChE Journal; Taylor & Francis Journal : Engineering Applications of Computational Fluid Mechanics; SAGE Journal : Advances in Mechanical Engineering
8	Dr. Sachin Waigaonkar	Reviewer for Polymer Composites, wiley publications.

b. Won by Students: -Nil**11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION Nil****12. PATENTS FILED/PUBLISHED AND GRANTED**

1. Name of inventor: Pravin M Singru, Tejas Zodge, Page turner, Indian patent application No 201911012057 , Date : March 27,2019

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

1. SAE, Robotics, Aerodynamics clubs are conducting various projects and about 150 students are involved and participating national level competitions such as SAE – BAJA, SAE –SUPRA etc.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	licenses or Qty.
1.	Inverted Microscope Olympus IX 73 (9 Lakhs)	1
2.	Julabo - constant temperature circulation bath (7 Lakhs)	1
3.	Temperature and pressure NI DAQ chassis/module (4 lakhs)	1
4.	Ultrasonicator (1 lakh)	1
5	Research I C Engine (27 Lakhs)	1

The central workshop is equipped with following equipment's purchased during the year 2019 are as follows:

1. Channel Pressure Scanner 10" H₂O along with software development kit for Lab View.
2. Cryogenic Treatment Equipment and Accessories - Cryogenic Chamber
3. Diesel Smoke Meter with USB Communication & with latest modifications of Oil temperature & RPM measurement as per Ripple sensor with Printer.

4. CNC Simulator Pro Platinum Edition: 8 seat Educational license.
5. Precision 5820 Tower (DELL Workstation) Intel Xeon W-2155 (3.3GHz, 4.5GHz Turbo, 10C, 13.75MB Cache, HT, (140W)) DDR4- 2666
6. 2 kN Low Force Test System with compression platen, Including: 1. 10 kN load frame with electrically movable crosshead and integrated servo controller, 2. ± 2 kN servo electric actuator, 3. ± 2 kN load cell, 4. Tablet for system control over WiFi, 5. Compression platen, 6. Testbuilder application package, 7. ± 200 N load cell, 8. ± 44 N load
7. NI USB 6361, X Series DAQ (16 AI, 24DIO, 2AO) with power cord. Compact data acquisition system for connecting the sensor to PC using USB.
8. Integrated Bomb Calorimeter, Operating Principal : Isothermal, Temperature Resolution : 0.001/0.01 C
9. Twin Cylinder (Dual Fuel / Turbocharged) Diesel Research Engine Set-up with Open ECU System (Add-ons: Dual Fuel Mode, Turbocharger, CNG Fuel System, H2 Fuel System, Constant RPM Mode / Constant Torque Mode, Gasoline Fuel System, DPF Filter, LPG System, Laptop with dual display)
10. JULABO F25-HL Refrigerated/heating circulator and Thermal H10 bath fluid 10 liters (-20...+180 Deg C)
11. HP desktop workstation with HP 24" Monitor, With following item description, 2WY66AV - HP ProDesk 400 G5 Microtower PC, Single Unit (Microtower) Packaging, HP 400 G5 Country Kit INDIA, HP ProDesk 400PLA250W MT Chassis, HP DisplayPort Port, Intel Core i7 8700 3.2 2666MHz 6C 65W CPU, 32GB (2x16GB) DDR4 2666 DIMM Memory, 1TB
12. Position Tensile Creep of Polymer and Rubber Materials. (12 1 lb weights and (6) 1/2 lb weights. Also supplied with 10 lbs of steel shot). Model No. ASTM.D2990.13 and Position Flexure Creep Testing Stands for specimens in 150°C oven. Model No. ASTM.D2990.75 E6852 I6854
13. Olympus Next Generation Inverted Research Microscope Model IX73 complete set
14. Dell Desktop Workstation with Monitor, OptiPlex 5070 MT XCTO, Dell 24" Monitor - E2418HN, Intel® Core™ i7-9700 (8 Cores/12MB/8T/3.0GHz to 4.7GHz/65W); supports Windows 10/Linux

B2.10.10 Department: Physics

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	02
Associate Professors	08
Assistant Professors	07
Lecturers	00
Visiting Faculty	00
Visiting Professors	01

Head of the Department: Radhika Vathsan

Contact details: radhika@goa.bits-pilani.ac.in

Number of Ph.D. Scholars:

Full Time : 22

Part Time : 01

Aspirant Scheme : 00

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Mr. Atanu Guha	2014PHXF401G	"Astrophysical Constraints on Dark Matter Effective Coupling in the Framework of Tsallis Statistics"	Dr.Prasanta Kumar Das	-
2	Mr. Tuhin Malik	2014PHXP402G	"Equation of state for dense matter from finite nuclei to neutron star mergers"	Dr. T. K. Jha	-
3	Mr. Debashree Sen	2013PHXF414G	"Cold Dense Matter Phases and Neutron Star Structure in the Light of Recent Observations"	Dr. T. K. Jha	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	“ Investigation of electronic and structural properties of low dimensional hybrid materials using first principles calculations” (Project duration: 18 April 2019-20 April 2021)	Physics	Dr. Swastibrata Bhattacharyya	-	BITS Pilani (Research Initiation Grant)	-	2,00,000
2	“First principles study of new two dimensional electrode materials for metal ion batteries” (1 Nov 2019- 31 Oct 2021)	Physics	Dr. Swastibrata Bhattacharyya	-	BITS Pilani (Additional Competitive Grant)	-	10,00,000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	“Room Temperature Hydrogen Sensing and Storage using Reduced Graphene Oxide and MoS ₂ Nanocomposite” (March 2017 to March 2020)	Physics	Dr.E.S. Kannan	-	SERB	-	30,00,000
2	“Studies on biomolecular transport through nuclear pore complexes using a dual fluorescence channel confocal microscope” (March 2017 to March 2020)	Physics	Dr. P. Nandakumar	Dr. Meenal Kowshik	SERB	-	44,04,104
3	“Spin Seebeck Effect in novel heterostructures” (March 2017 to March 2020)	-	Dr.R S Patel	Dr. Pratap Kumar Sahoo and Dr. Kartik Senapati (NISER Bhubaneswar)	SERB, DST Govt. of India	-	51,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
4	"Ecofriendly Flexible CZTS Solar Cells" (August 2017-August 2020)	Physics	Dr. Teny Theresa John	Prof. MK Jayaraj, CUSAT, Kochi	SERB	-	29,25,560
5	"An acoustic study, characterization and standardization of the Sarasvati Veena (EMR/2016/002338)" (March 2017- February 2020)	Physics	Dr. Pravin M Singru	Dr.Radhika Vathsan	DST-SERB	-	36,95,560
6	"To look for the signatures of space-time noncommutativity at high energy colliders"(21st March 2017 - 20th March 2020)	Physics	Dr. Prasanta Kumar Das		SERB, GOVT. OF INDIA	-	18,85,000
7	"Study on Dark Energy, Dark Matter and Cosmic Acceleration of the Universe in Modified Gravity " (1st May 2017 - 30th April 2020)	Physics	Dr.Gauranga Charan Samanta	Prasanta Kumar Das	CSIR, GOVT. OF INDIA	-	16,96,000
8	"From very slow to extreme fast observers: A case study of infinite symmetries and holography" (17 November 2015 - 16 November 2020)	Physics	Dr.Rudranil Basu	-	DST, Govt. of India	-	35,00,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	"Observational Signals of Quantum Gravity In CMB" (March 2016 to Jan 2019)	Physics	Kinjal Banerjee	-	SERB		3,18,000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty In Journals**

1. P. N. Deepak and A. V. Kulkarni in the PANDA collaboration, Technical design report for the PANDA Barrel DIRC detector, J.Phys. G46 (2019) no.4, 045001.
2. P. N. Deepak and A. V. Kulkarni in the PANDA Collaboration, Precision resonance energy scans with the PANDA experiment at FAIR: Sensitivity study for width and line-shape measurements of the X(3872), Eur.Phys.J. A55 (2019) no.3, 42.
3. Kinjal Banerjee, Rudranil Basu and Akhila Mohan, Uniqueness of Galilean Conformal Electrodynamics and its Dynamical Structure J. High Energ. Phys. (2019) 2019: 4 <https://arxiv.org/abs/1909.11993> [hep-th].
4. Swastibrata Bhattacharyya, Ryoji Sahara, Kaoru Ohno, "A first-principles phase field method for quantitatively predicting multi-composition phase separation without thermodynamic empirical parameter", Nature Communications, August 2019, 10, 3451, page 1-10, Nature Publishing Group.
5. Model-independent Astrophysical Constraints on Leptophilic Dark Matter in the Framework of Tsallis Statistics, Atanu Guha(BITS-Pilani Goa Campus), P S Bhupal Dev (Washington University, USA) and Prasanta Kumar Das(BITS-Pilani Goa Campus and University of Kansas, USA). Journal Ref.: Journal of Cosmology and Astroparticle Physics (JCAP) 02 (2019) 032.
6. Inferring the covariant Θ -exact noncommutative coupling in the top quark pair production at linear colliders, Selvaganapathy J, Partha Konar(PRL,Ahmedabad) and Prasanta Kumar Das (BITS Pilani, K K Birla Goa Campus). Journal Ref.: Journal of High Energy Physics(JHEP) 06, (2019) 108.
7. Tides in merging neutron stars: Consistency of the GW170817 event with experimental data on finite nuclei by Tuhin Malik, B.K. Agrawal, J.N. De, S.K. Samaddar, C. Providência, C. Mondal, T.K. Jha; Physical Review C 99 (Rapid Communications), 052801 (2019).
8. Effects of hadron-quark phase transition on properties of Neutron Stars, by Debashree Sen and T. K. Jha, Journal of Physics G 46, 015202 (2019).
9. Physical effects of passivation and creation of sulphur vacancy in MoS₂ nanoparticles, R. Anu Roshini and E. S. Kannan, Mater. Res. Express 6 115045 (2019).
10. Anomalous conductance induced by hydrogen in ZnO and catalyzed ZnO nanoflowers, R. Anu Roshini, K. Nagpal and E. S. Kannan, Euro. Phys. Lett. 127 57005 (2019).
11. Supersymmetric Localization on dS: Sum over topologies Rudranil Basu (Birla Inst. Tech. Sci.), Augniva Ray (Saha Inst.). Nov 18, 2019. 18 pp. arXiv: 1911.07480.
12. Deconfinement of non-strange hadronic matter with nucleons & Δ -baryons to quark matter in neutron stars, by Debashree Sen and T. K. Jha, Int. Journal of Modern Physics D, Vol. 28, No. 02, 1950040 (2019).
13. Correlation among oxygen vacancy and doping concentration in controlling the properties of cobalt doped ZnO nanoparticles Chithira P R and Teny Theresa John, Accepted in Journal of Magnetism and Magnetic Materials 496 (2020) 165928.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED**i) National: 06**

1. "Cross Interactions matters to matter at high densities", poster presented at the DAE Nuclear Physics Symposium 2019, to be held at Lucknow University (21 - 27th Dec 2019). T K Jha.
2. "Asymptotic Symmetries for Supergravity Theories in Asymptotically flat Space-times" - Rudranil Basu, Invited seminar presented at workshop: Stingy Days Chapter IV, IISER Pune, 2-4 March 2019.
3. "(What) Do we know (about) Mr. C? - a Primer on Lie Algebra Cohomology for Physicists", Rudranil Basu Invited lecture series presented in IIT Kanpur, 29 Aug - 3 Sept 2019.
4. "Localization and sum over topologies for de Sitter supergravity on Lens spaces"-Rudranil Basu, Invited seminar presented at workshop on Holography, Entanglement and Complexity at Ashoka University, 18-20 Oct, 2019.
5. "Effect of strain on electronic properties of multilayered MoS₂", Swastibrata Bhattacharyya, Invited talk in Goa Physics Research Meet at Chowgule college on Saturday 2nd March 2019.
6. R. Anu Roshini and E. S. Kannan, "Realization of vertically aligned 1-D Ferrous nanorods using template assisted electrochemical deposition" IOP Conf. Series: Materials Science and Engineering 577 (2019) 012037.

ii) International: 01

1. "Nonlinear electrodynamics: a model of inflationary universe" Prasanta Kumar Das, invited talk given in the Australia-India Research and Development in Radio Astronomy (ARDRA) meeting, Silver hills, Lonavalla, Pune, 13th - 15th Nov 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED:**Nil****7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT: 01**

1. IAPT Undergraduate Camp in Physics, 19th-22nd Dec 2019, co-organized by Prof Arun V Kulkarni and IUCAA.

8. INVITED TALKS GIVEN BY BITS FACULTY : 01

1. Dr. Rudranil Basu (Assistant Professor– Department of Physics, BITS-Goa) He delivered Lecture on "Asymptotic Symmetries: from Electrodynamics to the Holographic principle" dated 26/04/2019

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT: 12

1. Dr. Vikash Pandey (Postdoctoral Fellow, University of Oslo) visited the Institute on 8TH Jan 2019. He delivered Lecture on "Emergence of fractional derivatives in modelling of complex media".
2. Prof. Pritam Deb (Department of Physics-Tezpur University) visited the Institute on 16 Jan 2019. He delivered Lecture on "Molecular imaging; limitations and innovations".
3. Prof. Rajeev Ahuja (Department of Physics-Uppsala University) visited the Institute on 8th February 2019. He delivered Lecture on "Hydrogen storage materials for mobile application".
4. Dr. Indrakshi Raychowdhury (Postdoctoral Fellow – Indian for the Cultivation of Science, Kolkata) visited the Institute on 18th April 2019. He delivered Lecture on " Tailoring Non Abelian Lattice Gauge Theory for Digital Quantum simulation"
5. Dr. J. Selvaganapathy (Postdoctoral Fellow – Physical Research Laboratory, Ahmedabad) visited the Institute on 16th April 2019. He delivered Lecture on "Natural Inflation and Inflationary Gravitational Waves".
6. Prof Arjun Bagchi, (Dept. of Physics, IIT Kanpur) visited the Institute on 12th December 2019. He delivered Lecture on "NO TENSIONS- THE CAREFREE LIFE OF NULL STRINGS".

7. Dr. Arun Sehrawat, (Postdoctoral Fellow Quantum Information Group, HRI Allahabad) visited the Institute on 26th November 2019. He delivered Lecture on “Allowed region and uncertainty relations for angular momentum observable”.
8. Prof. Manish Shrimali (Professor –Department of Physics, University of Rajasthan) visited the Institute on 5th September 2019. He delivered Lecture on “Explosive death in network of nonlinear oscillators”.
9. Prof. Alok Laddha (Associate Professor –Chennai Mathematical Institute) visited the Institute on 4th November 2019. He delivered Lecture on “Gravitational Waves, Memory Effect and Quantum Gravity”
10. Prof S. P. Dash, (Chalmers Institute of Technology, Sweden) visited the Institute on 13th December 2019. He delivered Lecture on “NANO-ELECTRONICS WITH A SPIN”.
11. Prof. Mukul. S. Laad (Professor –Institute of Mathematical Sciences) visited the Institute on 6th August 2019 . He delivered Lecture on “Advanced Functional Oxides. Quantum (really does) Matter!”
12. Prof. Saurabh Basu (Department of Physics – IIT Guwahati) visited the Institute on 7th September 2019 . He delivered Lecture on “Topology and Symmetries in Condensed Matter Physics - Graphene: A paradigm”

10. AWARDS AND RECOGNITIONS

a. Won by Faculty: 02

1. Prasanta Kumar Das - I was invited to chair the Square Kilometer Array(SKA) session of the Inaugural ceremony of Vigyan Samagam 2019 (DST, Govt. of India and Indian Museum Society initiative) which were held in Nehru Science Centre, Mumbai during the period 8th May to 10th May 2019 and in VIT Museum , Bangalore during the period 29th July to 31st July 2019.
2. Rudranil Basu - Received Fulbright-Nehru Postdoctoral Research Fellowship, hosted at the Center for the Fundamental Laws of Nature, Harvard University.

b. Won by Students: Nil

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION:01

1. The Organizing committee of DAE-BRNS Symposium on Nuclear Physics (snp2019, Lucknow University) invited T K JHA to screen the contributions received to be considered for ORAL/ POSTER/ REJECTION..





12. PATENTS FILED/PUBLISHED AND GRANTED: Nil





13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES: Nil

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

B2.11 DIVISION / UNIT/ CENTRE-WISE ACTIVITY**ALUMNI RELATIONS CELL****Distinguished Alumnus Award:**

BITS Pilani has decided to confer the **Distinguished Alumnus Award 2019** to the following alumni for their significant and outstanding contributions:

	Name and Affiliation	Category
	Prof. Bir Bhanu , Bourns Presidential Chair in Engineering; Distinguished Professor of Electrical and Computer Engineering at the University of California, Riverside, USA	Academia and Research
	Prof. Ramanan Laxminarayan , Founder and Director of the Center for Disease Dynamics, Economics & Policy (CDDEP), Washington DC, USA	Academia and Research
	Prof. Arun Abraham Ross , Professor, Department of Computer Science and Engineering and Director, i-PRoBe Lab, Michigan State University, USA	Academia and Research
	Prof. Umesh Garg , Professor, Experimental Nuclear Physics, University of Notre Dame, USA	Academia and Research
	Prof. Arun Kumar Sharma , Deputy Vice-Chancellor and Vice President (Research and Innovation), Queensland University of Technology, Australia	Academia and Research
	Mr. Manu Sawhney , CEO, International Cricket Council (ICC) and Independent Director, Manchester United PIC, UK	Corporate Leadership

	Mr. Sanjay Jalona , Chief Executive Officer, L&T Infotech, India	Corporate Leadership
	Ms. Akila Krishnakumar , Chairperson, Social Venture Partners, Bangalore and former President, Global Solution Centers, SunGard	Corporate Leadership
	Mr. Amitabh Chaudhry , Managing Director and CEO, Axis Bank, India	Corporate Leadership
	Mr. Veerendra Raj Mehta , Trustee, Sir Dorabji Tata Trustee, World Trade Centre and Executive President, Bhagwan Mahaveer Viklang Sahayata Samiti	Entrepreneurship
	Dr. Bhagwati P. Agarwal , Founder and President, Sustainable Innovations Inc, USA	Entrepreneurship

This is in recognition of their significant and outstanding contributions to Academic and Research, Corporate Leadership or Entrepreneurship.

Alumni Research Talks

With BITS Pilani being hailed as an “Institute of Eminence”, the ARC of the BITS Pilani KK Birla

Goa Campus organized the first ever edition of Alumni Research Talks (ART) on 12th of January, 2019. The primary objective of the event was to familiarize the students with research and to promote scientific thinking by a series of lectures and close interaction with several distinguished alumni of BITS Pilani. The speakers included:

1. Dr. Govindan Rangarajan, Department of Mathematics, Indian Institute of Science (IISc), Bangalore
2. Mr. Sanjay Padode, Secretary, Center for Developmental Education, IFIM Business School, Bangalore
3. Dr. Sharmila C. Chatterjee, Massachusetts Institute of Technology (MIT) Sloan School of Management, USA
4. Dr. Umesh Garg, Department of Physics, University of Notre Dame, USA
5. Dr. Surendra Pal, Distinguished Scientist, Associate Director and Program Director at Satellite Navigation Program, ISRO

BITSians Day:

The first Friday of every August is celebrated worldwide as BITSian's day by all the students and the alumni of BITS. The ARC organized the 7th edition of BITSian's Day with a marathon which encouraged the student community to participate in the marathon to show their support for this institution. The winners of the run were awarded with prizes for their achievement.

Metanoia

The 5th edition of BITS Pilani, Goa Campus' annual BITS Alumni Summit- Metanoia concluded successfully on the 17th of August, 2019. Keeping in mind its resolute mission to keep the alumni of BITS connected to their Alma

mater and to maintain the integrity and strength of the vast alumni community, we invited 6 speakers to reminisce about their life back at BITS campuses and their journey thereafter. This year's edition of Metanoia featured the journey of change of six BITSians:

1. Mr. Ajit Tyagi: Former Director General of Meteorology and Chairman, IDC Foundation.
2. Ms. Nikita Tanwani: Fbb Colors Miss India Andhra Pradesh 2019.
3. Mr. Jyothi Kalyan Sura: Writer, Director and Visual Effects, Via Mar Entertainment.
4. Ms. Divya Nawale: Adventure traveller, travelled to all 7 continents.
5. Ms. Rashmi Datt: CEO (Chief Emotions Officer), Dialog Services.
6. Mr. Kunal Bhatia: Political Consultant to National Political Leaders.

Embryo and on-campus lectures:

Apart from the organization of various events, the ARC was also involved in organizing regular lectures and talks from numerous alumni who have achieved success in their respective fields. Maintaining a strong alumni network, ARC has organized several talks in LTs and the telepresence room to enable the student community to benefit from the interactions held with the alumni. The following is a list of events conducted this year:

S.No.	Dates	Title of the Talk	Speaker(s)
1.	11-01-19	Entrepreneurship and Innovation	Mr. N S Parthasarathy
2.	18-01-19	Microsoft Research Talks	Mr. Anmol Panda
3.	22-01-19	BITS2Startup	Mr. Dheeraj Bhaskar Mr. Bala Kamallakharan Mr. Piyush Kumar
4.	24-01-19	Loop Quantum Gravity	Prof. Martin Bojowald
5.	31-01-19	Social Network Analysis for Telecom Business Intelligence	Mr. Amit A. Nanavati
6.	05-02-19	BITS2CivilServices	Mr. Ashutosh Garg Mr. Anmol Bedi Mr. Kshitij Singhal
7.	12-02-19	CAT Champs	Mr. Gangal Kshitij Vijay Mr. Paranjape Anshuman Mr. Divij Sinha
8.	18-02-19	Being BITSian in Retrospect	Mr. Roger Narayan
9.	19-02-19	Young India Fellowship	Ms. Garima Shekhar
10.	21-02-19	PPO Talk	Ms. Kanupriya Maheshwari Mr. Abhinav Goyal Mr. Krishna Vardhan Mr. Pranav Mohan Mr. Tushar Aggarwal Mr. Nikhileswar Reddy Mr. Dhruv Toshniwal
11.	02-03-19	BITS2BSchool	Mr. Sandeep Murisetty Mr. Apurv Chaturvedi Mr. Saurabh Sachdeva
12.	18-03-19	Being BITSian	Mr. Anupam Maurya
13.	23-03-19	Workshop on Project Management Fundamentals	Mr. Lalit Jain
14.	25-03-19	Talk on an Independent Research group	Dr. Ashok Ajoy
15.	26-03-19	Interaction on Shri G D Birla's 125 th Birth Anniversary	Mr. Nirmal C Mathur
16.	11-04-19	India's First Tech Art Museum	Mr. Shammi Raj Bhalla Mr. Pulkit Budhiraja
17.	21-04-19	Energy Sustainability and Mitigating Climate Change	Dr. Chetan Singh Solanki
18.	10-08-19	Technological Disruptions and Future of jobs	Prof. Arun Kumar Sharma
19.	06-09-19	Attributes for Career Success in IT Industry	Mr. S.Y. Balasubramanian

S.No.	Dates	Title of the Talk	Speaker(s)
20.	11-09-19	BITS2MSPHD	Mr. Ashwin Naik Mr. Vikas Goel Mr. Abhishek Manikonda
21.	12-10-19	Pre-BITS2GRE	Mr. Dhruva Barfiwala
22.	18-10-19	BITS2SocialServices	Ms. Niharika Singh Mr. Siddhant Rathore
23.	24-10-19	BITS2GRE	Mr. Gunjan Chhablani Ms. Gargi Balasubramanian

Summer Internship Assistance:

This assistance is offered to encourage students to conduct summer research at educational / research institutions across India (including BITS' campuses). The following are the winners of the first edition of this assistance:

Name & ID number	Internship at	Award money
Glenn Fernandes (2014B1A30937G)	MIT, USA	Rs. 17000
Akshay Dharamavaram (2015A7A30039G)	IISc Bangalore	Rs. 17000
Pujika Kumar (2016A3PS0653G)	IIT Kanpur	Rs. 17000

Prof. Suresh Ramaswamy Memorial Awards:

This year's Prof. Suresh Ramaswamy Memorial Award was given to the project titled, 'Drone Control by Brainwave Mapping' done by Pranay Mathur and Kshitij Chhabra. This project was selected out of the 11 projects that had competed.

Regular Activities:

Other regular activities like bi-annual Director's Tea Party, batch snap sessions, Alumni Relations Cell registrations, souvenir distributions, bringing out the yearbook 'Melange' for out-going students, hosting visiting alumni on campus, etc.

ACADEMIC GRADUATE STUDIES & RESEARCH DIVISION

• First Degree Thesis On Campus list Second Semester 2018-2019

S.No	Student Name	ID No	Faculty	Organization
1	Vakharia Pujan A	2014B5A80967G	Prof. Gaurav Dar	BITS-PilaniK.K.Birla Goa campus
2	Vaibhav Gupta	2014B5A40543G	Prof. Gaurav Dar	BITS-PilaniK.K.Birla Goa campus
3	Anirudh Nanwal	2014B4A40307G	Dr. Sandeep Singh	BITS-PilaniK.K.Birla Goa campus
4	Akhil Kamath	2015A8PS0533G	Dr. Nitin Sharma	BITS-PilaniK.K.Birla Goa campus
5	Ashish Phogat	2015A3PS0253G	Dr. Nitin Sharma	BITS-PilaniK.K.Birla Goa campus
6	Kshitiz Agarwal	2014B3A80794G	Prof. M.K.Deshmukh	BITS-PilaniK.K.Birla Goa campus
7	Sumegha Singhania	2014B2A30859G	Dr. Ashish Chittora	BITS-PilaniK.K.Birla Goa campus
8	Vaibhav Sanghi	2014B5A80634G	Dr. Sudeep Baudha	BITS-PilaniK.K.Birla Goa campus
9	Namya Sharma	2015A8PS0468G	Dr. Sarang C Dhongdi	BITS-PilaniK.K.Birla Goa campus
10	Gurdain Singh Madan	2015A8PS0447G	Prof. Dipankar Pal	BITS-PilaniK.K.Birla Goa campus
11	Chetan Swaroop Tiwari	2014B3A80579G	Prof. Aswini K Mishra	BITS-PilaniK.K.Birla Goa campus
12	Vedant Bhardwaj	2014B3A80541G	Prof. Aswini K Mishra	BITS-PilaniK.K.Birla Goa campus
13	Siddharth Shenoy	2014B4A80478G	Dr. Himadri Mukherjee	BITS-PilaniK.K.Birla Goa campus
14	Anish Kumar	2014B4A30406G	Dr. Bijil Prakash	BITS-PilaniK.K.Birla Goa campus
15	Nupur Kokate	2015B4PS0438G	Dr. Himadri Mukherjee	BITS-PilaniK.K.Birla Goa campus
16	Shrehal Bohra	2015A7PS0034G	Prof. Vinayak Naik	BITS-PilaniK.K.Birla Goa campus
17	Swarit Kohil	2014B5A40607G	Dr.G Karthikeyan	BITS-PilaniK.K.Birla Goa campus

S.No	Student Name	ID No	Faculty	Organization
18	Satyam Gupta	2015A4PS0336G	Dr. Varinder Singh	BITS-PilaniK.K.Birla Goa campus
19	Gaurav Patil	2015A4PS0319G	Dr. Siddhartha Tripathi	BITS-PilaniK.K.Birla Goa campus
20	Katyayan Anand	2014B1A80724G	Prof. Vijayashree Nayak	BITS-PilaniK.K.Birla Goa campus
21	Harsh Vimal	2014B1A10869G	Prof. Veeky Baths	BITS-PilaniK.K.Birla Goa campus
22	Mayank S Bhandarkar	2014B5A10898G	Prof. Radhika Vathsan	BITS-PilaniK.K.Birla Goa campus
23	Aditya Kamath	2014B2A40783G	Prof. D. M.Kulkarni	BITS-PilaniK.K.Birla Goa campus
24	Chitaluri Krishna Rohit	2014B2A10788G	Dr. Vivek R	BITS-PilaniK.K.Birla Goa campus
25	Arpit Mathur	2014B3A10553G	Dr. Richa Singhal	BITS-PilaniK.K.Birla Goa campus
26	Gandhi Prasheel Chetan	2014B4A10235G	Dr.Vivek R	BITS-PilaniK.K.Birla Goa campus
27	Devesh Rawat	2014B3A10656G	Dr.Anirban Roy	BITS-PilaniK.K.Birla Goa campus
28	Sharangdhan S Bhawe	2015A1TS0135G	Prof. Srinivas Krishnaswamy	BITS-PilaniK.K.Birla Goa campus
29	Mehul Kaushik	2014B2A80964G	Prof. Veeky Baths	BITS-PilaniK.K.Birla Goa campus
30	Atish Kumar Sinha	2014B2A30958G	Prof. Veeky Baths	BITS-PilaniK.K.Birla Goa campus
31	Nimish Atul Wagh	2014B4PS0586G	Dr. Himadri Mukherjee	BITS-PilaniK.K.Birla Goa campus
32	Ashwary Sharma	2015B4PS0406G	Dr. Shilpa Gondhali	BITS-PilaniK.K.Birla Goa campus
33	Sumeet Kundnani	2015B4PS0779G	Dr. J K Sahoo	BITS-PilaniK.K.Birla Goa campus
34	Piyush Pahwa	2014B3A80593G	Prof. K R Anupama	BITS-PilaniK.K.Birla Goa campus
35	Aman Garg	2014B1A40864G	Dr. Arnab Banerjee	BITS-PilaniK.K.Birla Goa campus
36	Tadanki Joy Stephen	2014B3A10533G	Dr. Partha Saha	BITS-PilaniK.K.Birla Goa campus
37	Vishal Lavani	2013B1A80774G	Prof. Veeky Baths	BITS-PilaniK.K.Birla Goa campus
38	Samyak Jain	2014B5A40790G	Dr. Ranjit Patil	BITS-PilaniK.K.Birla Goa campus

• **First Degree Thesis Off Campus list Second Semester 2018-2019**

S.No.	Name	ID NO	Place of Thesis
1	Yash Pandya	2014B4A70914G	Indian School Of Business, Hyderabad
2	Shivan Khullar	2014A8B50373G	Raman Research Institute, Bangalore
3	Akshay Jagatap	2014B5A70808G	IISC Bangalore
4	Rohit Shekhar	2014B5A40695G	IISC, Bangalore
5	Annie Ray	2014A7B50087G	University Of Waterloo, Canada
6	Kishore Gopalakrishnan	2014B5A40523G	International Centre For Theoretical Sciences, Bangalore
7	Rachith Aiyappa	2014B5A40469G	Humboldt University Zu Berlin, Germany
8	Soumil Maulick	2015B5PS0574G	Institute For Theoretical Physics, Austria
9	Amith P	2014B3A70419G	Carnegie Mellon University, Pittsburg
10	Ashutosh Saboo	2014B4A70427G	University Of Hamburg, Germany
11	Abhik Ray	2014B5A70369G	TCS Olympus, Maharastra
12	Nikhil Ramesh	2014B5A70598G	The Institute Of Mathematical Sciences, Chennai
13	Urvashi Jain	2014B1A70697G	Stanford University School Of Medicine, CA
14	Glenn Jacob Fernandes	2014B1A30937G	Massachusetts Institute Of Technology, USA
15	Ishaan Kohli	2015A4PS0241G	IIT-Delhi
16	Piyush Gupta	2014B3A70484G	Indian School Of Business
17	Prathamesh Bodhankar	2014B5A10679G	Bhabha Atomic Research Center, Mumbai
18	Wahiduddin Patel	2014B2A10678G	University Of Pennsylvania, Philadelphia
19	Atharva Vaidya	2015A4PS0223G	IIT-Bombay
20	Abhimanyu	2015A4PS0307G	IISC Bangalore
21	Ameya Shah	2015A4PS0362G	KU Leuven, Belgium
22	Chetan Gour	2015A4PS0279G	IIT-Indore
23	Surendra Padamata	2015A4PS0387G	University Of Wisconsin Madison, Wisconsin
24	Nissim Gore Datar	2014B1A40939G	California Institute Of Tech, CA
25	Vashisht G Anand	2015A8PS0425G	Navabharat Ltd, W.Godavari, A.P

S.No.	Name	ID NO	Place of Thesis
26	Akash Navani	2014B5A30906G	RS2M, Telecom Sudparis, France
27	Adithya Narayanan	2015A3PS0224G	National University Of Singapore
28	Abhishek Moitra	2015A8PS0445G	IISC Bangalore
29	Lucky N Kapoor	2014B5A30449G	Tata Institute Of Fundamental Research, Mumbai
30	Deshpande Sanket Sushil	2014B5A30599G	Atomionics, Singapore
31	Anirudh Dwarakanath	2015A3PS0219G	Case Western Reserve University, USA
32	Pratik Manwani	2014B5A30677G	University Of California, USA
33	Piyashi Biswas	2014B2A30889G	Texas A& M University
34	Evam Gilotra	2014B1A30933G	Karlssuhe Institute Of Technology , Germany
35	Smit Himanshu Shah	2015A4PS0249G	Singapore University Of Technology & Design
36	Prashant Solanki	2014B5A40644G	Vindhya Telelinks Ltd, New Delhi
37	Atul D Shanbhag	2014B2A70959G	Institute Of Infocomm Research, Singapore
38	Shivam Agarwal	2014B3A70938G	Dublin City University, Ireland
39	Smith Sen	2014B4A40896G	Institute Of Mathematical Science, Chennai
40	Divya Mishra	2014B4A40337G	Technical University Of Munich
41	Sanyam Mehta	2014B4A70526G	IIT- Jammu
42	Manu Saraswat	2014B4A70782G	Universite Montpellier, France
43	Bauskar Await Jitendra	2014B4A70595G	INRIA
44	Rathi Shubham Pawan	2014B4A40555G	SERIS, Singapore
45	Saloni Singh	2015B4TS0444G	Cybage Software Pvt Ltd, Pune India
46	Shourya Bose	2014B4A30692G	IISC Bangalore
47	Sammit Jain	2014B4A30909G	Institute PASTEUR, Paris, France
48	Apeksha Jain	2014B4A70623G	Moody's Analytics Knowledge Services, Bangalore
49	Samarth Mittal	2015A7PS0023G	Nanyang Technological University, Singapore
50	Siddhant Jain	2015A7PS0083G	Nanyang Technological University, Singapore
51	Mugdha Mohapatra	2015A7PS0108G	Microsoft Research,Bangalore
52	Shreyas N Bhat	2015A7PS0033G	Microsoft Research, Bangalore
53	Ria Arora	2015A7PS0105G	Romanian Institute Of Science & Technology, Romania
54	Wazeer Zulfikar	2015A7PS0003G	Massachusetts Institute Of Technology, Cambridge
55	Sahith N D	2015A3PS0192G	HEC Montreal
56	Devvrit	2015A7PS0053G	Microsoft Research,Bangalore
57	Onkar More	2015A1PS0705G	Florentis Pharmaceutical Pvt Ltd, Pune
58	Prathmesh M Vinze	2015A1PS0442G	IIT-Madras
59	Jaychandran Padayasi	2014B5A30401G	University Of Sherbrooke, Quebec
60	Aaditya Vikas Vaze	2014B4A70603G	University Of Toronto
61	Pranav Garg	2015A3PS0295G	IISC Bangalore
62	Rohan Gajendragadkar	2014B3A70415G	University Of California, Berkley
63	Jain Honey Ashok	2014B1A30875G	LORIA, France
64	Akhilesh Siddhanti	2014B4A70894G	ISI Kolkata
65	Heer Vipul Joisher	2014B1A30709G	Massachusetts Institute Of Technology, Cambridge
66	Tejas Ajay Zodage	2014B5A40609G	Carnegie Mellon University, Pennsylvania
67	Shabad Lamba	2014B1A30663G	IIIT-Hyderabad

• **First Degree Thesis on Campus list First Semester 2019-2020**

S.No.	Student Name	ID No	Faculty	Organization
1	Abhishek Kumar	2015B3A30550G	Dr. Partha Saha	BITS-Pilani.K.Birla Goa Campus
2	Anshul Khambalkar	2015B5A30565G	Dr. Ashish Chittora	BITS-Pilani.K.Birla Goa Campus
3	Archit Saxena	2015B5A80525G	Dr. Sarang C. Dhongdi	BITS-Pilani.K.Birla Goa Campus
4	Ashutosh Tripathi	2016A3TS0206G	Dr. Ashish Chittora	BITS-Pilani.K.Birla Goa Campus
5	Devesh Lohia	2014B2A80785G	Prof. Halan Prakash	BITS-Pilani.K.Birla Goa Campus

S.No.	Student Name	ID No	Faculty	Organization
6	George T Saju	2015B5A40560G	Dr. Sandeep Jose	BITS-Pilani.K.Birla Goa Campus
7	Gurukiran V	2015B4A70481G	Prof. Veeky Baths	BITS-Pilani.K.Birla Goa Campus
8	Harsh Vimal	2014B1A10869G	Prof. Saroj Sundar Baral	BITS-Pilani.K.Birla Goa Campus
9	Ishan Tyagi	2015B3A70410G	Dr. Sanjay K. Sahay	BITS-Pilani.K.Birla Goa Campus
10	Jayant Jhamb	2015B2A40678G	Dr. Pritanshu Ranjan	BITS-Pilani.K.Birla Goa Campus
11	K Sai Charan Reddy	2015A7PS0088G	Dr. Partha Saha / Co-Supervisor: Prof. Biju K R	BITS-Pilani.K.Birla Goa Campus
12	Kesani Meher Manoj	2013b5a80458g	Dr. Raviprasad Aduri	BITS-Pilani.K.Birla Goa Campus
13	Manu Singh	2015B4A70708G	Prof. Vinayak Naik	BITS-Pilani.K.Birla Goa Campus
14	Mehta Yash Hasmmukh	2015B5A40553G	Dr. Sandeep Jose	BITS-Pilani.K.Birla Goa Campus
15	Pranav Murdeshwar	2016A1PS0561G	Prof. Sutapa Roy Ramanan	BITS-Pilani.K.Birla Goa Campus
16	Prateekraj Shekharan	2015B1A10814G	Dr. Raviprasad Aduri	BITS-Pilani.K.Birla Goa Campus
17	Pratyush Pradhan	2015B3A30541G	Prof. Aswini Kumar Mishra	BITS-Pilani.K.Birla Goa Campus
18	Priyank Sharma	2015B5A40827G	Prof. Radhika Vathsan	BITS-Pilani.K.Birla Goa Campus
19	Raghav Maheshwari	2015B1A80763G	Prof. K.R. Anupama	BITS-Pilani.K.Birla Goa Campus
20	Rhythem Agrawal	2015B1A10738G	Dr. Sukanta Mondal	BITS-Pilani.K.Birla Goa Campus
21	Rohan Chhibba	2016A3PS0228G	Dr. Nitin Sharma	BITS-Pilani.K.Birla Goa Campus
22	Rohit Bajirao Patil	2015B5A40603G	Dr. Pritanshu Ranjan	BITS-Pilani.K.Birla Goa Campus
23	Ronak Agarwal	2015B2A70747G	Dr. Swati Agarwal	BITS-Pilani.K.Birla Goa Campus
24	Sahil Rana	2015B1A40803G	Prof. D.M. Kulkarni	BITS-Pilani.K.Birla Goa Campus
25	Salil Jain	2015B5A30578G	Dr. Nitin Sharma	BITS-Pilani.K.Birla Goa Campus
26	Samarth Gupta	2015B5A70831G	Prof. Vinayak Naik	BITS-Pilani.K.Birla Goa Campus
27	Sanyukta Sinha	2015B4A70556G	Prof. Vinayak Naik	BITS-Pilani.K.Birla Goa Campus
28	Sarthak Munjal	2014B5A70701G	Prof. Neena Goveas	BITS-Pilani.K.Birla Goa Campus
29	Sayantana Ghosh	2015B5A30534G	Prof. Prasanta Kumar Das	BITS-Pilani.K.Birla Goa Campus
30	Shikhar Jain	2015B3A70488G	Prof. Aswini K. Mishra	BITS-Pilani.K.Birla Goa Campus
31	Shivam Khare	2015B5A40404G	Dr. Sandeep Jose	BITS-Pilani.K.Birla Goa Campus
32	SHUBH JAIN	2015B2A70644G	Prof. Ranjan Dey	BITS-Pilani.K.Birla Goa Campus
33	Shubham Jain	2014B5A40633G	Prof. P.M. Singru	BITS-Pilani.K.Birla Goa Campus
34	Varun Yeligar	2015B3A70403G	Prof. Vinayak Naik	BITS-Pilani.K.Birla Goa Campus
35	Vineet Agarwal	2015B4A70469G	Prof. Veeky Baths	BITS-Pilani.K.Birla Goa Campus
36	Vishwajeet Singh	2015B5A70599G	Prof. Bharat M. Deshpande	BITS-Pilani.K.Birla Goa Campus
37	Mahima Samant	2015A7PS0046G	Dr. Solano Jose Da Silva	BITS-Pilani.K.Birla Goa Campus
38	Mayank Surendra Bhandarkar	2014B5A10898G	Dr. Vivek R	BITS-Pilani.K.Birla Goa Campus
39	Anirudh Dwarakanath	2015A3TS0219G	Prof. Anita Agrawal	BITS-Pilani.K.Birla Goa Campus

• **First Degree Thesis Off Campus list First Semester 2019-2020**

S.No	Name	Id No	Place Of Thesis
1	Mihir Vinay Kulkarni	2016A4PS0150G	Autonomous Robots Lab, University Of Nevada, Reno, Nevada, Usa
2	Parv Dani	2016A7PS0722G	University Of York, Uk
3	Rushabh Patel	2016A3PS0168G	University Of Twente, The Netherlands
4	Nikhil Junnarkar	2015B5A40608G	Arai, Pune, Maharashtra, India
5	Aditya Dwivedi	2016A3TS0192G	Iisc, Bangalore
6	Ish Mohan Gupta	2015A1B50701G	Pennsylvania State University, State College, Pennsylvania, U.S.A
7	Jasmeet Kaur	2015B2A70642G	Carnegie Mellon University, Pittsburgh, Pa 15213, Usa
8	Meet Desai	2016A3TS0222G	University Of New South Wales, Sydney, New South Wales, Australia
9	Vedant Kumar	2015B2A70711G	Research School Of Chemistry, The Australian National University, Canberra, Act, Australia

S.No	Name	Id No	Place Of Thesis
10	Amogh Dabholkar	2016A8PS0393G	Georgia Institute Of Technology, Atlanta,Georgia, Usa
11	Akshay Kumar	2014B5A80671G	IIT Bombay, Powai, Mumbai, Maharashtra, India
12	Dharmadhikari Mihir Rahul	2016A8PS0616G	University Of Nevada, Reno, Usa
13	Atharva Pradhan	2016A8PS0374G	Department Of Bioelectronics, Centre Microélectronique De Provence, 880, Route De Mimet - 13541 Gardanne, France
14	Awani Ramdas Khodkumbhe	2016A8PS0331G	University Of Twente, Enschede, Overijssel, Netherlands
15	Mohammad Abid	2015B3A30414G	King George's Medical College, Lucknow, U.P., India
16	Arkil Patel	2016A7TS0665G	Microsoft Research, Bangalore, Karnataka, India
17	Chakraborty Arijit Gautam	2016A1TS0771G	Department Of Chemical And Biomolecular Engineering, National University Of Singapore (Nus), Singapore
18	Shivin Thukral	2015B4A70350G	University Of Stuttgart, Stuttgart, Germany
19	Alok Gokhale	2015B5A30426G	Indian Institute Of Technology Bombay, Mumbai, Maharashtra, India
20	Arnav Gupta	2015B1A30810G	University Of Iowa, Usa
21	Kamdi Krishna Rajendra	2016A4TS0273G	IIT Delhi, Delhi, India
22	Devam Awasare	2016A3PS0657G	Indian Institute Of Science, Bangalore, Karnataka, India.
23	Patel Pragnesh Rasiklal	2016A3PS0183G	University Of Texas At Austin, Usa
24	Shreesh Keskar	2015B3A70477G	IISc, Bangalore
25	Saloni Dash	2015B4A70292G	Rensselaer Polytechnic Institute, Troy, New York, Usa
26	Kshitij R Dani	2015B4A70594G	University Of New South Wales, Sydney, New South Wales, Australia
27	Esha Swaroop	2015B5A70656G	University Of Waterloo, Waterloo, Ontario, Canada
28	Nayana B	2015B5A70600G	Indian Institute Of Science, Bangalore, Karnataka, India
29	Abhineet Nigam	2015B2A10744G	Technical University Braunschweig, Germany
30	Rohan Ranganath	2016A1PS0403G	University Of Queensland, Brisbane,Queensland,Australia
31	Prakhar Aggarwal	2015B2A10748G	Positive Plastics Pvt Ltd R&D, Noida, Uttar Pradesh, India
32	Ajay Mohan	2015B5A40500G	Centre For High Energy Physics, Indian Institute Of Science, Bangalore
33	Apoorva Gondimalla	2015B2A70650G	International Institute Of Information Technology Hyderabad, Hyderabad, Telangana, India
34	Archit Bhargava	2015B3A70405G	Indian Institute Of Science, Bangalore, India
35	Shreya Arora	2015B3A70546G	Alfred Weber Institute Of Economics Heidelberg University,Germany
36	Joshi Ravishankar Pankajbhai	2016A7PS0006G	Indian Institute Of Science, Bangalore, Karnataka, India - 560012
37	Aakanksha Sanctis	2015B3A70530G	Institute Of Data Science,Maastricht University, Universiteitssingel 60, 6229 Er Maastricht, Netherlands
38	Raghav Arora	2015B5A70559G	Australian National University, Canberra
39	Priyanshu Jain	2015B4A70379G	University Of New South Wales, Sydney, Australia
40	Mihir Naik	2015B4A80518G	TIFR, Mumbai
41	Ranade Kavita Abhiram	2016A3TS0219G	IISc Bangalore
42	Sonali Gupta	2016A3PS0127G	IIT, Delhi, New Delhi, India
43	Sudeep S Katakol	2015A7B40001G	Computer Vision Center, Autonomous University Of Barcelona, Barcelona, Spain
44	Siddhinita Wandekar	2016A7PS0097G	Indian Institute Of Science, Bengaluru
45	K Pratyush Kumar	2016B5PS0435G	International Centre For Theoretical Sciences, India
46	M.V.S.Chaitanya	2015B4A70536G	Carnegie Mellon University, Pittsburg, Pennsylvania, United States Of America
47	Yashwant Singh	2016A1PS0706G	University Of Michigan, Ann Arbor, Mi 48109-2136, Usa
48	Sneha Shah	2016A8PS0343G	Aalto University, Helsinki, Finland
49	Shreyansh Singh	2016B5PS0467G	Tata Institute Of Fundamental Research (TIFR) Mumbai
50	Ayush Mall	2016A3PS0163G	Irisa, Lannion, France

S.No	Name	Id No	Place Of Thesis
51	Akshay Dharmavaram	2015A7A30039G	Indian Institute Of Science, Bangalore - 560012, India
52	Pavan Chawhan	2016B5PS0431G	Inter-University Center For Astronomy And Astrophysics (Iucaa), Pune, Maharashtra, India
53	Rohan James	2015B3A70159G	Carnegie Mellon University, Pittsburgh, Pennsylvania, Usa
54	Sachita Nishal	2016A7PS0719G	Northwestern University, Illinois, Usa
55	Rochit Sinha	2016A1PS0559G	Indian Institute Of Technology, Mumbai, Maharashtra, India
56	Lokesh Garg	2015B3A30418G	Absentia Virtual Reality Private Limited, Bangalore
57	Adit Vinay Deshmukh	2015B3A70400G	Iisc, Bengaluru, Karnataka, India
58	Shivani Mansingh	2015B1A80805G	Max Planck Institute, Bad Nauheim, Germany
59	Revanth Reddy	2016A7PS0009G	University Of Kwazulu Natal, Westville, Durban, South Africa
60	Aiswarya Subramanian	2015B4A70585G	Zuckerman Institute, New York, United States
61	Sumangala Patki	2015B5A70178G	Indian Institute Of Science, Bangalore, Karnataka, India
62	J Hareesh	2016B5PS0421G	The Institute Of Mathematical Sciences, Chennai, Tamil Nadu, India
63	Shubhransh Jagota	2015B3A70348G	University Of New South Wales, Sydney, Australia
64	Pujika Kumar	2016A3TS0653G	Intel, Folsom, Ca
65	Adhithya R	2015B2A30671G	Research School Of Chemistry, The Australian National University, Australia
66	S Siddharth Kumar	2015B1A40802G	Delft University Of Technology, Delft, The Netherlands
67	Shashank Sharma	2015B5A30453G	University Of Washington, Seattle, Wa, Usa
68	Simran Khanuja	2015B3A70423G	Microsoft Research, Bangalore
69	Sai Krishna Teja Sadhu	2015B1A80743G	Ecole Polytechnique Federale De Lausanne (Epfl), Lausanne, Vaud, Switzerland.
70	Kushav Choudhary	2015B2A30715G	Netsmartz House, Chandigarh, India
71	Chinmay Nitin Gandevikar	2015B5A40327G	International Center For Cosmology, Charusat, Anand, Gujarat, India
72	Prahalad Atreya A	2015B4A30823G	Strand Life Sciences, Bangalore, Karnataka, India
73	Rusaifd Mirza Pottengad	2015B4A70572G	Strand Life Sciences, Bangalore, Karnataka, India
74	Aravind Venugopal	2015B3A70474G	Politecnico De Milano, Milan, Italy
75	Aviral Aggarwal	2015B2A10816G	Trinity College Dublin, Ireland
76	Aman Agarwal	2015B5A70626G	The Institute Of Mathematical Sciences, Chennai
77	Vedashree D. Kulkarni	2016B4TS0637G	Indian Institute Of Technology, Bombay, Powai, Mumbai, Maharashtra, India
78	Mahima V	2016A3PS0191G	Indian Institute Of Science, Bangalore, Karnataka, India
79	Utkarsh Rai	2016A7PS0723G	University Of Chicago Center In India, New Delhi, India
80	Kushagra Shah	2016A3TS0167G	Nanyang Technological University (Ntu), Singapore
81	Shubhi Jain	2015B4A70317G	Tata Institute Of Fundamental Research, Mumbai, Maharashtra, India
82	Sarthak Moorjani	2015A7B40104G	Tata Institute Of Fundamental Research (Tifr), Mumbai, India
83	Priyal Chhatrapati	2016A8PS0378G	National University Of Singapore, Singapore
84	Pranaydeep Singh	2014B1TS0946G	University Of Ghent, Ghent, Belgium
85	Taha Faraz	2015B1A40807G	Iisc Bangalore, India
86	Aviral Agrawal	2015B4A70571G	Macquarie University, Sydney, New South Wales, Australia
87	Roshan Jaisimha Dattatri	2015B5B40064G	Chennai Mathematical Institute, Siruseri, Tamil Nadu
88	Tejal Wakchoure	2016A7PS0669G	Massachusetts Institute Of Technology, Cambridge, Massachusetts, Usa
89	Divyanshu Gupta	2015B5A30506G	Imsc, Chennai, Tamil Nadu, India.
90	Mridul S Kaimal	2015B1A10641G	Indian Institute Of Science, Bangalore, Karnataka, India
91	Rijubak Karmakar	2016A1PS0703G	Indian Institute Of Technology Bombay, Mumbai, Maharashtra, India
92	B.Aravindh Shankar	2015B5A80515G	Purdue University, West Lafayette, Indiana, Usa

S.No	Name	Id No	Place Of Thesis
93	Pushpendu Ghosh	2015B4A70366G	Ntu, Singapore
94	Aditya Sinha	2015B3A70352G	Microsoft India Research Lab, "Vigyan", No.9, Lavelle Road, Bangalore, Karnataka, India 560001
95	Mayank Jhamtani	2015B4A30591G	Indian Institute Of Science, Bangalore, Karnataka, India
96	Mayank Manuja	2015A7PS0082G	Mit Media Lab, Cambridge, Ma, Usa
97	Sourayan Basu Bal	2013B2A10685G	Indian Institute Of Technology, Delhi (IIT-Delhi)
98	Vibha Balaji	2016B5PS0385G	National University Of Singapore, Singapore
99	Nithya Nadig Shikarpur	2016A7PS0670G	Mcaffe, Bangalore, India
100	Akash Vaish	2015B4A70706G	Massachusetts Institute Of Technology, Cambridge, Massachusetts, Usa
101	Mohnish Wadhwa	2016A4PS0339G	IIT Kharagpur
102	Heli Parikh	2016A4PS0716G	Rwth Aachen, Germany
103	Arko Probho Kundu	2015B4A40579G	National University Of Singapore, Singapore
104	Komal Gupta	2015B5A30330G	Unsw Canberra, Adfa, Northcott Drive, Canberra, Australia
105	Rishi Raj Grandhe	2015B3A70544G	Microsoft Research, Bangalore, Karnataka, India
106	Alish Dipani	2016A7PS0005G	Institute Of Molecular Genetics At Montpellier, University Of Montpellier, France
107	Mehul Garg	2014B4A70805G	Nus, Singapore
108	Divya Mishra	2014B4A40337G	Technical University Of Munich, Germany
109	Shourya Bose	2014B4A30692G	IISc, Bangalore

• **Second Semester 2018-2019 M.E. (BITS G629T) "On-campus DISSERTATION"**

S.No.	Name	ID NO	Faculty	Organization
1	Chetan Kushwaha	2017H1410049G	Dr. Pritanshu Ranjan	BITS-PilaniK.K.Birla Goa Campus
2	Anand Vijayan	2017H1030036G	Dr. A Baskar	BITS-PilaniK.K.Birla Goa Campus
3	Sharvari S Gadegaonkar	2017H1290006G	Prof. Srikanth Mutnuri	BITS-PilaniK.K.Birla Goa Campus
4	Anviksha	2017H1290016G	Prof. Utpal Roy	BITS-PilaniK.K.Birla Goa Campus
5	Ratnagiri Sairam Kaushik	2017H1410061G	Dr.Sandeep Jose	BITS-PilaniK.K.Birla Goa Campus
6	Daniel Mathews	2017H1410054G	Dr.Sandeep Jose	BITS-PilaniK.K.Birla Goa Campus
7	Rajarshi Bhowal	2017H1290005G	Prof. Angshuman Sarkar	BITS-PilaniK.K.Birla Goa Campus
8	Shubham N Lanjewar	2017H1010029G	Dr. Anirban Roy	BITS-PilaniK.K.Birla Goa Campus
9	Prabhudesai Vallabh Sudhir	2017H1010026G	Dr. Sharad M. Sontakke	BITS-PilaniK.K.Birla Goa Campus
10	Harshavardhan T	2017H1010028G	Dr. Asima Shaukat	BITS-PilaniK.K.Birla Goa Campus
11	K Janaki	2017H1010027G	Prof. Saroj S Baral	BITS-PilaniK.K.Birla Goa Campus
12	Rhea Mariam John	2017H1010017G	Dr. Pradeep .K. Sow	BITS-PilaniK.K.Birla Goa Campus
13	Aastha	2017H1010024G	Dr. Amol Deshpande	BITS-PilaniK.K.Birla Goa Campus
14	Divya Joslin Mathias	2017H1010022G	Dr Vivek Rangarajan	BITS-PilaniK.K.Birla Goa Campus
15	Shree Sharan	2017H1010021G	Prof. S. D. Manjare	BITS-PilaniK.K.Birla Goa Campus
16	Pooja Paul Chowdhury	2017H1010020G	Prof. Srinivas Krishnaswamy	BITS-PilaniK.K.Birla Goa Campus
17	Sachin Gautham Mb	2017H1010023G	Dr. Jegatha Nambi Krishnan	BITS-PilaniK.K.Birla Goa Campus
18	Mitali A Waghmare	2017H1010019G	Dr Saroj Baral	BITS-PilaniK.K.Birla Goa Campus
19	Pranjali Ranade	2017H1010025G	Dr.Richa Singhal	BITS-PilaniK.K.Birla Goa Campus

• **Second Semester 2018-2019 M.E. (BITS G629T) "Off-campus DISSERTATION"**

S.No.	Name	ID NO	Place of Dissertation
1	Deeksha Mishra	2017H1410058G	Quest Global-Design Deptt, Belgaum
2	Vikram Kumar	2017H1410059G	Quest Global-Design Deptt, Belgaum
3	Soniya Shende	2017H1290008G	Surgical Oncology -ACTREC,Tata Memorial Centre,Navimumbai
4	Abhinav Panday	2017H1290002G	System Toxicology & health Risk -CSIR-IITR, Lucknow
5	Aparna Pradeep	2017H1290004G	Cancer Research Program- Rajiv Gandhi center for Biotechnology, Kerala
6	Aachal Verma	2017H1290010G	Dept of Microbiology & Cell biology-IISc, Bangalore

S.No.	Name	ID NO	Place of Dissertation
7	Vanshika Saxena	2017H1290009G	Indus Biotech Pvt Ltd, Pune
8	Bhavya Nair	2017H1290015G	ICRISAT, Hyderabad
9	Akshay S	2017H1290003G	University of Ottawa, Canada
10	Janani Sankar	2017H1290011G	Aurigene Discovery Technologies Ltd, Bangalore
11	Joel D Souza	2017H1290013G	Aurigene Discovery Technologies Ltd, Bangalore

• **First Semester 2019-2020 M.E. (BITS G629T) “on-campus DISSERTATION**

S.No.	Student Name	ID No	Faculty	Organization
1	Rohit Thakran	2018H1010020G	Prof. Srinivas Krishnaswamy	BITS-PilaniK.K.Birla Goa campus
2	Lubna Muzamil Rehman	2018H1010021G	Dr. Anirban Roy	BITS-PilaniK.K.Birla Goa campus
3	Dolly Saxena	2018h1010022G	Dr Sharad M. Sontakke	BITS-PilaniK.K.Birla Goa campus
4	Partha Sarathi Kalita	2018H1010023G	Dr. Vivek Rangarajan	BITS-PilaniK.K.Birla Goa campus
5	Kumar Vishwa Ranjan	2018H1010026G	Dr. Pradeep K Sow	BITS-PilaniK.K.Birla Goa campus
6	P Sai Pavan Kalyan	2018H1010027G	Dr Amol Deshpande	BITS-PilaniK.K.Birla Goa campus
7	Anegondi Nateri Achyuth	2018h1010028G	Dr.Jegatha Nambi Krishnan	BITS-PilaniK.K.Birla Goa campus
8	Pruthivi G	2018H1010030G	Prof. Saroj Sundar Baral	BITS-PilaniK.K.Birla Goa campus
9	Akshay Gaikwad	2018H1010031G	Dr.Paramita Halder	BITS-PilaniK.K.Birla Goa campus
10	Rishi Raj Tripathi	2018H1010029G	Prof. Sutapa Roy Ramanan	BITS-PilaniK.K.Birla Goa campus
11	Kishlay Bhaskar	2018H1010032G	Prof. Srinivas Krishnaswamy	BITS-PilaniK.K.Birla Goa campus
12	V Sree Kavya	2018H1010024G	Prof. S.D. Manjare	BITS-PilaniK.K.Birla Goa campus

• **CATEGORY-WISE DISTRIBUTION OF Ph.D. STUDENTS ON ROLLS DURING THE YEAR 2019**

S.No.	CATEGORY	NO. OF STUDENTS ON ROLL	
		II Sem 2018-2019	I Sem 2019-20
1.	Staff	09	09
2.	Staff (Pre-Ph.D course work)	0	0
3.	Research Scholars	262	271
GRAND TOTAL		271	280

I. Statistical Information for Ph.D. Programme

Sem.	Permitted to Appear in Quali. Exam.	Appeared	Passed	Failed
II Sem 2018-2019	40	40	38	02
I Sem 2019-20	37	37	33	04
Total	77	77	71	06

II. Statistical Information for Faculty Development Scheme

Sem.	Permitted to Appear in Quali. Exam.	Appeared	Passed	Failed
II Sem 2018-2019	02	02	02	0
I Sem 2019-20	0	0	0	0
Total	02	02	02	0

III. Analysis of candidates permitted to appear in Ph.D. qualifying examination

(i)	BITS Faculty (Total)	(ii)	Aspirants(Part Time) of High Standing and proven competence (Total)	(iii)	Full time Students (Total)
	02		15		60

Discipline wise Break-up	
Biological Sciences	07
Chemistry	10
Chemical	12
EEE	12
Mathematics	08
Mechanical	03
CSIS	04
Humanities & Social Sciences	10
Economics	03
Pharmacy	00
Physics	08
Civil	00

COMMUNITY WELFARE

Faculty in charge: Prof. Radhika Vathsan, Department of Physics. The Community Welfare Unit facilitated the following activities during the calendar year 2019.

The Medical Centre has been providing OPD services as well as 24 x 7 emergency medical services to all the campus residents. A 24x7 ambulance service is also available. An in-house pharmacy is available at the medical centre and a lab collection point to provide diagnostic facilities has been functioning with a tie-up with a local diagnostic laboratory, Ranbaxy and Thyrocare. The Medical Centre has state-of-the-art equipment such as Dental Chair, Digital X-ray machines, Treadmill (TMT), ECG machine, Lung function test, X-ray, Multiparameter monitors, Defibrillator, Syringe pumps.etc.

The center for mental health and rehabilitation run by M Power is operating for two years now and provides counseling services to students and staff. It has also conducted workshops for students, and workshops for training Young Mental Health First Aid Providers.

Cashless Medical Reimbursement Scheme has been operational to provide easily accessible medical care to the residents of the campus. The Scheme can be accessed through a health card, which can also be used to receive treatment for various medical and surgical ailments from the Specialists from Goa. Following are the specialties available for routine and on call basis for out-patient care – Gen. Medicine / Gen Surgery / Orthopaedics / Dermatology.

Drinking water hygiene on campus is maintained by periodic testing of water at all the water coolers installed in food outlets, hostels and administrative buildings. Water testing from a few crucial points for the campus supply is also being implemented.

A campus-wide waste-segregation programme that was successfully launched last year has now been strengthened in collaboration with Goa Health Management Services (M/s GHMS) in safe disposal and recycling after door - to - door collection.

The Child Care Centre on campus is operating as a playschool for infant children in the morning and a Day Care in the afternoon for providing invaluable support and care to the children of BITS faculty and staff. The center is run by 4 dedicated staff assisted by 3 maids. It is provided with all necessary facilities (toys, activities, educational material, infrastructure with outdoor play area, etc.). In addition, campus children are exposed to a variety of activities such as drawing, dance, karate, violin, singing, tabla, drums, drawing and mental arithmetic, for which classes by professionals are being conducted.

The Student Activity Center, apart from providing sports and wellness facilities to the students and campus residents, also has a designated as Music/Yoga/prayer hall that is being well utilized by the whole campus community. Various activities such as yoga and meditation, chanting of Vishnu Sahasranama, Sunderkand Path, conducting of Holy Mass and choir practice. Classes for Hindustani music, Carnatic music, Western classical music, violin and guitar, as well as Bharatanatyam, Zumba etc are also being conducted. New classes on drums and Kathak were introduced this year.

The SAC also houses musical instruments including violins, sitars, tanpuras, veenas, tablas, harmoniums, electronic tanpura and tabla, and keyboards. Many books on music are kept there for reference of the students, taken on lien from the Central Library. The unit also facilitated procurement of new instruments and repair of old ones for the students' Music Club.

Republic day and Independence day were celebrated with a flag hoisting ceremony and performance of patriotic songs by the students of Music Club. Religious festivals such as Pongal, Lohri, Basant Panchami (which is also BITS Pilani Founder's Day), Holi, Ugadi, Ram Navami, Janmashtami, Ganesh Chaturthi, Onam, Durga Pooja, Deepavali, Guru Nanak Jayanti and Christmas were celebrated with active participation of all the campus residents and students. During these festivals cultural performances of campus children, faculty and staff and students were organized. Some occasions also included screening of regional language movies.

International Yoga Day was observed on 21 June with a lecture demonstration and live yoga session in the Student Activity Center.

Several non-formal classes for students were also facilitated by the Community Welfare. Audit courses in Classical Vocal Music and Classical Dance were conducted each semester, with professional teachers. Several staff members and their families also benefitted from a certificate course in Sanskrit conducted by the Rashtriya Sanskrit Sansthan under the MHRD.

Srutilaya, the Indian Classical Music and Dance Society of the campus, organized a couple of its regular annual events. On 10th February they organized Tyagaraja Aradhana in which students, alumni and club members render traditional Carnatic compositions as a tribute to the Musical Saint. Maharashtra Mandal offered several melodious performances. Srutilaya organized their annual programme Sursangam, homage to late Prof Suresh Ramaswamy on 21st and 22nd September. ICCR and Himalayan Universal Trust sponsored the two-day gala, with scintillating performances by renowned artistes as well as talented BITS-Goa alumni. In this year's event we had Vidushi Jayanthi Kumaresh on the Sarasvati Veena, under ICCR's "Horizon" series, and Kathak dance by Srimati Harshada Jambekar and her troupe, preceded by Carnatic Vocal by our alumna Balakrishnan R on day 1. On the second day, our student Sukrut Tamhankar gave a Hindustani vocal prelude to a fascinating sitar jugalbandhi by Vidushi Jyoti Hegde and her student Smt Mrinalini Kotur.

The 10th edition of TEDx BITS Goa, the largest and oldest TEDx event in our country, was organized on Sunday, January 20, 2018. Themed "Flip the Script", this year's conference had the following speakers:

- **Prateep Basu:** Space scientist, Entrepreneur & Analyst.
- **Jagdish Chaturvedi:** Doctor, Innovator and Stand-up comedian.
- **Karishma Boolani:** Sports scientist & Fitness Educator.
- **Vilas Nayak:** India's Got Talent finalist, Live Artist & Speed Painter
- **Gayatri Parameswaran:** V.R.Creator, Filmmaker & Journalist .
- **Franz Gastler:** Football Coach, Social Activist & educator.
- **Elena Fernandes:** Supermodel, Influencer, Activist and Philanthropist
- **Hormis Tharakan:** Ex-chief of the Research and Analysis Wing (R&AW), IPS Officer.
- **Kirti Kulhari:** Actress, Influencer, Model.

Quark 2019, the 3-day annual techno-management festival, was held in February between 1st and 3rd. Students from all over country competed in an array of events in varying fields such as Corporate Management, Robotics, Mock UN, Electronics, Design, Computing and Programming. Exhibitions and Workshops educated and entertained the participants and students alike with informative Guest Lectures by eminent personalities who are at the top of their field

In March from 29th to 31st, SPREE, the annual inter-college sports festival, was held. With competitions in every sports field such as Basketball, Football and Cricket, interesting events were held during the nights. Waves 2019, the annual students' intercollege cultural festival was celebrated during 1st-3rd November 2019,. Themed "en Voyage", it featured a number of competitions, workshops, exhibitions and invited talks, apart from special night performances.

Student volunteers under the banner of Abhigyaan have been regularly holding classes in basic subjects for the underprivileged: children from Birla slums, of the security guards, gardeners and mess workers of the campus, and some special children. They organized a "Joy of Giving" (JoGW) week and a collection drive for donating used clothes and other articles to orphanages and old age homes. They also organized "no food wastage" campaigns in the student messes.

The students film club "Silver Screen" organized viewings of 6 films distributed through the year, including Bollywood latest releases as well as socially relevant films by independent producers

CENTER FOR INNOVATION, INCUBATION AND ENTREPRENEURSHIP (CIIE)

BITS BIRAC BioNest Innovation Lab, inaugurated on 3rd January 2019, currently has four physical incubates: Zycon Biosciences Pvt. Ltd. (Dr S Kurade); Magellan Lifesciences (Dr Abhiram); Epione Swajal Solutions (Dr Anirban Roy); Soares Healthcare (Ms. Lourdes Soares) and two virtual incubates: BacTreat Environmental Solutions (Prof. Srikanth Mutnuri) and Sattva Medtech (Mr. Vibhav Joshi).

- During 2019 Indian patent applications were filed by Prof. Srinivas Krishnaswamy (Chemical Engineering), Prof Pravin Singru (Mechanical Engineering), Prof Sachin Waigaonkar (Mechanical Engineering) and Mr. Rathnagiri Sairam Kaushik, an M.E. student in the Department of Mechanical Engineering.
- Two teams from BITS Pilani, Goa Campus, won Grand Finale of MHRD's Smart India Hackathon, 2019. Team Apthletes won Rs. 1 lakh in their problem statement under ISRO and Team Zenith won Rs 50,000 in their problem statement under the Ministry of Railways.

- A team from BITS Pilani, consisting of 3 Bitsians, Rohit K Bharadwaj (Pilani), Samarth Jain(Goa) and Gargi Balasubramaniam (Goa) along with 3 students from NTU, Singapore have won \$2000 in the recently held Singapore India Hackathon from September 28 - September 30 at IIT Madras which was organized by MHRD Innovation Cell, Government of India. Prime Minister Shri Narendra Modi was the chief guest of the function. The team at the hackathon won the 5th position out of 20 teams. The team, CodersInSing, worked on the topic of Epidemiology Analysis. They built a Machine learning model where they had used Time series data to predict the future trends of diseases and visualized the results so obtained in the form of Geographical Heat Maps. An android app was also built as part of the solution for the doctors to track their patient records effectively and easily.
- CIIE in association with BITS BIRAC BioNest organized Ideathon 2019 on Innovation Day (15th October 2019) to mark Dr. A. P. J. Abdul Kalam's Birth Anniversary. The Ideathon was held to promote innovation among startups located in Goa. Taaha Nizam and team was selected as the First prize winner for the innovation titled "Neuropathic feet- Piezo electric sole."
- A workshop on "Intellectual Property Rights and Patent Management" was held on 20th September by Ms Vrinda Kaul, ABCL.
- Goa State Innovation Council (GSIC) in association with CIIE organized a Faculty Development Program on "Innovation, Creativity and Startups" on 13-14 and 20-21 September, 2019.
- Coalescence 2019 was held during 6-8 September 2019. It is the flagship Entrepreneurship Summit event conducted by the Centre for Entrepreneurial Leadership (CEL), the student body of CIIE. With the theme - 'Where Vision Transcends Possibilities', the speakers were Radhika Gupta, CEO Edelweiss Asset Management; Shashank Murali; CEO and Founder TapChief, Tarun Katial, CEO Zee5 and Founder BIG(TV and FM), Vishakha Singh, Founder- Fourfivelabs . Apart from this, a B-Plan competition and Wolf of Wall Street was organized for the students startups to enhance their negotiation skills of an entrepreneur in a simulated market

CENTRAL SOPHISTICATED INSTRUMENTATION FACILITY (CSIF)

1.0 Preamble:

Central Sophisticated Instrumentation Facility (CSIF) is envisioned as a "State of the Art" facility at BITS Pilani - K K Birla Goa campus, which will house high end research equipment. The facility is open for faculties of all the BITS Pilani campuses as well as for researchers from other academic organizations and industries. With this, a dedicated CSIF building was being built since 2016. A formal team to take care of the activities was formed in 2018 consisting of two nucleus members and one faculty in charge (FIC).

2.0 Progress in the year 2019:

The year 2019 was planned to systematically oversee the completion of the CSIF building and commencing usage of the same. In this regard, all the pending works were completed including, electrical cabling and earthing, finishing of roof and AC ducting, interior lighting and individual equipment room readiness, fire alarm system installation, completion of flooring. These activities were completed by August 2019. After the building readiness, the individual equipment rooms were readied along with utilities, power supply as well as UPS connections.

3.0 Equipment at CSIF

Presently CSIF has the following equipment:

Equipment	Make and Model	Remarks
Field Emission Scanning Electron Microscope (FESEM)	FEI Quanta FEG 250	To be relocated to CSIF building
Liquid Chromatography - Mass Spectrometry (LCMS)	Agilent Technology 6460 Triple Quadrupole LC/MS	Relocated to CSIF in July 2019
Confocal microscope	Olympus Corporation FV3000	Installed in July 2019
Raman Spectrometer	LAB RAM HR Horiba	Installed in September 2019
X-ray Diffractometer	Bruker D8 Advance	Installed in September 2019
Nano Particle Analyzer & Autotitrator	Nanoplus & Nanoplus AT	To be relocated to CSIF
Sputter coater	LEICA EM ACE-200	To be relocated to CSIF
Critical Point Drying	LEICA EM CPD-300	To be relocated to CSIF
Ultramicrotome	LEICA EM UC7	To be relocated to CSIF
Tissue processor	LEICA EM TP	To be relocated to CSIF

4.0 CSIF Staff

At present CSIF has the following staff members:

Name	Date of Joining	Equipment handling
Laxminarayana Muriki	02.06.2018	FESEM, Confocal Microscope, Nanoparticle Analyzer
Kumar Kanneboina	13.05.2019	LCMS, XRD, and Raman Spectrometer

5.0 Manpower training

CSIF organised introductory sessions and training program by the company experts for BITS Pilani staff, faculty, and research scholars:

Dates	Equipment
16.07.2019	Confocal Microscope
04.09.2019	Raman Spectrometer
30.09.2019	X-Ray Diffractometer

INTERNATIONAL PROGRAMMES AND COLLABORATION DIVISION (Goa Campus)

MoU/ Agreement has been Signed with the following International Universities

- Cardiff University, UK - Erasmus + Inter Institutional Agreement
- University of Tartu, Estonia - Erasmus+ inter Institutional agreement (Extension for a period of Five Years)

Significant Events Organized

- From Texas A & M University, USA, a group of 23 under graduate students along with two faculty members have visited K K Birla Goa campus during 27th Dec 2018 to 14th Jan 2019 to conduct Engineering Ethics Program, which is a part of their Curriculum.
- Ms Elis Rabane and Ms Ekaterina Tikhonova, Staff members at University of Tartu, Estonia under Erasmus+ Staff Exchange Programme, visited K K Birla Goa Campus towards understanding on workings of various Academic Departments and Divisions during 22nd May to 28th May 2019.
- Prof Thomas Plank, Director, Institute of Physics, University of Tartu, Estonia visited K K Birla Goa Campus towards Collaborative meeting with Associate Dean, IPCD on 26th July 2019.
- Prof Krishnaswami (Hari) Srihari, Executive Vice Provost, International Initiatives and Chief Global Affairs Officer Dean - Thomas J. Watson School of Engineering and Applied Science, Binghamton University, New York and Prof Liz Kradjan Assistant Dean, Thomas J. Watson School of Engineering and Applied Science, Binghamton University, New York visited K K Birla Goa campus towards Collaborative meeting with Director, Deans, Associate Deans, HoDs on 19th Sept 2019.
- Dr Polina Prokopovich, College of Biomedical and Life Sciences, Cardiff University, UK visited K K Birla Goa Campus towards Collaborative meeting with faculties under Erasmus + Mobility Agreement on 27th & 28th November 2019.
- Dr Prem Pangotra, Indian Institute of Management, Ahmedabad and Ms Tomomi Yamane, Senior Researcher, Hiroshima University, Japan visited K K Birla Goa Campus for TAOYAKA On-site Training Program and interaction with faculties and the Director during 1st December 2019 to 5th December 2019.

Invited Talks

- Dr Sandeep P. Patil, Institute of General Mechanics, RWTH Aachen University, Germany delivered a talk to students on “Linking molecular and continuum mechanics with application to biomimetic nanomaterials and advanced materials’ on 14th Sept 2019.
- Ms Deborah Rosario, Education USA Adviser, USIEF Mumbai interacted with Students on Higher Education in USA on 19th Sept 2019.

Travel Grants

- To pursue First Degree thesis, 36 Students in SEM II (January – July 2019) AY 2018-19 and 58 students in SEM I (Aug- Dec 2019) AY 2019-20 have visited foreign universities.
- 08 students in SEM II (January – July 2019) AY 2018-19, and 13 students in SEM I (Aug- Dec 2019) AY 2019-20 have received Partial Travel Support from IPCD.

Outbound Students

- One Student: Mr. Kaivalya Rawal (ID: 2015A7TS0005G) attended Semester Exchange Program at Politecnico di Milano, Italy during Semester II, (January- May 2019) AY 2018-19.
- Following three students have visited international universities to conduct Summer Research Internship during May- July 2019.
 - Mr. Rochit Sinha (ID: 2016A1PS0559G)- Washington University in St. Louis, USA
 - Mr. Ishaant Agarwal (ID:2016B5A30103G)- ESPCI Institute of Paris, FRANCE
 - Mr. Siddhant Vitthal Patil (ID:2015A8TS0475G) - ILDP START Plus Program, Hiroshima University, JAPAN
- One student: Mr. Manhar Gupta, ID: 2016A4PS0156G has been selected and admitted for Masters of Engineering Program at University of Queensland, Australia (AY 2019-20) under UQ- BITS Pilani 3+2 year program.

PRACTICE SCHOOL:

During SEM II, 2018-19 and SEM I, 2019-20 597 first degree students and 54 higher degree students went for PS-II from Goa campus. The faculty member who was involved as PSII Instructor for the station in Goa was Dr. Narayan Suresh Manjarekar.

During summer term 2019, total of 796 students went to 233 PS-1 stations from the Goa campus. A total number of 15 Faculty members, 2 SME Faculty members, 3 Non Teaching staff & 04 Student co-instructors accompanied the students for PS-1. Total no. of stations opened by Goa campus students are 15.

PS 1-2019 Faculty Members

Sr.No	PSRN	Faculty Name
1	G0107	Amalin Prince
2	G0114	Sanjay Kumar
3	G0126	Rabi Narayan Panda
4	G0185	Sampatrao Dagu Manjare
5	G0334	Pravin Mane
6	G0376	Sarang Chandrashekhar Dhongdi
7	G0471	Mayank Goel
8	G0541	Rayson Kayalvarath Alex
9	G0674	Vivek Rangarajan
10	G0697	Sharad S
11	G0708	Pritanshu Ranjan
12	G0721	Vadiraj Anant Hemadri
13	G0741	Hareesh A.G
14	G0752	Anushaya Chittaranjan Mohapatra
15	G0769	Abhishek Sarkar

- **PS 1-2019 SME Faculty Members**

Sr.No	PSRN	Faculty Name
1	G0376	Sarang Chandrashekhar Dhongdi
2	G0432	Narayan Suresh Manjarekar

- **PS-1-2019 Non Teaching Staff**

Sr.No	Id No	Name of Non-Teaching Staff
1	G0220	Prakash Lamani
2	G0361	Dharmendra Nayak
3	G0512	Chandrasekhar Lamani

- **PS-1-2019 Student Co-Instructors**

Sr.No	ID No	Student Name
1	2018H1410080G	Pratik Ajit Athavale
2	2018H1410108G	Prabhat Kumar
3	2018H1410083G	Chaitanya Sudhir Modak
4	2015PHXF014G	Joseph R.D Fernandes

PUBLICATIONS DIVISION:

The Publications and Media Relations Division published the BITScan Semester Newsletter Issue 18 and 19 and the Convocation Proceedings 2019 in this year. The division also regularly sent Press Releases to National and local media after every Campus event. The website Banner News and Latest News were also updated regularly with current events. Various student achievements, campus events and significant research projects were published in Local and National media.

PUBLIC RELATIONS:

Public Relations office coordinated following events:

S.No	Topic	Date	Convener
1	Inauguration of 'BITS BIRAC BioNEST Innovation Lab' Chief Guest: Prof. Varun Sahni, Vice-Chancellor, Goa University	3rd Jan 2019	Prof. Mridula Goel
2	TEDx BITS Goa 2019	20th Jan 2019	CSA
3	International Conference on 'Region/Nation/Trans-Nation: Literature-Cinema Interface'	31st Jan -2nd Feb 2019	Dr. Parichay Patra
4	Quark -2019 Annual Tech Festival	01st -03rd Feb 2019	CSA
5	ARWA 2019: 3rd International Conference of 'ARWA: Association for Reading and Writing in Asia'	28th Feb -1st March 2019	Prof. Veeky Baths
6	2nd Workshop on 'Open Innovation in Community Based Rehabilitation (CBR) for People with Disabilities (PWD)' and Interdisciplinary Design Thinking Hackathon	15th – 17th March 2019	Prof. Veeky Baths
7	Spree -2019 Annual Sports Festival	29th - 31st March 2019	CSA
8	CCFAC Meeting	7th -11th April 2019	Director's office
9	Preparatory meeting for 'BITSAA Global Meet'	10th 11th April 2019	Director's office
10	International Consultation Workshop on the Role of Forest Ecosystems in Meeting Sustainable Development Goals in South Asia	9th May 2019	Dr. Rajiv Chaturvedi
11	Visit of Dr. Renu Swarup, Secretary, Department of Biotechnology, Government of India to BITS BIRAC BioNEST Innovation Lab	27th May 2019	Prof. Sunil Bhand
12	University & Campus review Meeting	22nd -25th June 2019	Director's office
13	Convocation 2019 Chief Guest - Prof. K. VijayRaghavan	11th August 2019	Director's office
14	BITS Alumni Summit-5.0	16th - 18th August 2019	Alumni Relations Cell
15	Visit of Mrs. Neerja Birla for update on M-Power cell	23rd August 2019	Director's office
16	Prof. L K Maheshwari, former Vice Chancellor of BITS Pilani	25th -28th August 2019	EEE Dept
17	Coalescence-19	07th - 09th Sept 2019	
18	Visit of Indian Diaspora Youth under the aegis of 55th Know India Programme organized by MEA, Govt. of India	11th Sep 2019	PR Office
19	Lumini 2019: Annual Tech Conference by IEEE BITS Goa	14th -16th Sept 2019	IEEE Dept
20	Shrutilaya- Sursangam-2019	20th -22nd Sept 2019	Dr. Radhika V

S.No	Topic	Date	Convener
21	Waves -2019 Annual Cultural Festival	1st – 3rd Nov 2019	CSA
22	Visit of IAI - Israel Aircraft manufacturing and Space technology firm	19th Nov 2019	PR Office
23	Opportunities in Indian Air Force – and display of IAF's special 'Induction Publicity Exhibition Vehicle' (IPEV) for familiarisation by Indian Air Force	19th Nov 2019	PR Office
24	6th Annual Conference of Cognitive Sciences (ACCS 2019)	10th to 12th Dec 2019	Prof. Veeky Baths
25	13th IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS) 2019	16th to 19th Dec 2019	Prof. K R Anupama
26	IAPT-UGCP i.e. Indian Association of Physics Teachers – Undergraduate Camp in Physics	19th to 22nd Dec 2019	Prof. Arun V Kulkarni
27	3rd edition of the biennial national conference New Frontiers in Chemistry-from Fundamentals to Applications-III (NFCFA2019)	21st -22nd Dec 2019	Prof. Mainak Banerjee & Prof. Amrita Chatterjee
28	International Conference on 'Secure Knowledge Management in Artificial Intelligence Era' (SKM)	21st – 22nd Dec 2019	Prof. Sanjay K. Sahay
29	<p>Around 500 students from following schools (from Goa) and other colleges/ university the campus</p> <ul style="list-style-type: none"> -Govt. High School, Vidyanagar, Aquem, Margao Goa -Govt. High School Palem Siridao Tiswadi, Goa. -Govt. High School, Kundai, Goa. -Govt. High School, Mangor Hill, Goa. -Govt. High School, Kalay, Sanguem, Goa. -Govt. High School, Baina, Vasco, Goa. -Govt. High School, Vaddem-Curdi, Sanguem, Goa. -Govt. High School, New Vaddem, Goa. -Govt. High School, Borda, Margao, Goa. -Govt. High School, Davorlim Salcete, Goa. -Ramakrishna Mission Vivekananda College, Chennai -Dept. of Biotechnology, Kathmandu University -Sree Neelakanta Govt. Sanskrit College, Pattambi, Kerala -Nirmalagiri College, Kannur, Kerala 	<p>30th Jan 2019</p> <p>04th Jan 2019</p> <p>05th Feb 2019</p> <p>12th Feb 2019</p> <p>12th Feb 2019</p> <p>12th Feb 2019</p> <p>12th Feb 2019</p> <p>12th Feb 2019</p> <p>18th Feb 2019</p> <p>18th Feb 2019</p> <p>18th Feb 2019</p> <p>19th Feb 2019</p> <p>22nd Mar 2019</p> <p>9th Dec 2019</p> <p>17th Dec 2019</p>	PRO

Teaching, Learning Centre

During the year 2019, Teaching Learning Centre at KK Birla Goa Campus evolved its programs further and worked on its vision, which is to provide a foster a thriving culture for excellence in teaching-learning processes. It provided a forum to discuss and evolve new ideas in education to address current challenges. The following activities were carried out by Teaching Learning Centre during the year 2019.

TLC organized the following seminars.

1. Prof K. Bindumadhavan, (Associate Professor, Management - Finance, Off Campus Programs, BITS Pilani Hyderabad) gave seminar on 11th January 2019. The title of the seminar was "How and Why of Building Case Studies in Pedagogy". Around fifteen participants were present
2. Dr. Pankaj Sharma from BITS, Pilani – Pilani Campus gave seminar on 01st March 2019. The title was "The Art of Questioning". Around twenty-five participants were present
3. Dr. Manoj Kannan, from Pilani Campus gave a seminar on 30th March 2019. The title of the seminar was "Connecting to, Communicating with, and Caring for Students". Around twenty-five participants were present.
4. Prof. L K Maheshwari, Former Vice Chancellor, BITS Pilani gave a seminar on 27th August 2019. The title of the seminar was " Emerging Trends in Higher Education". Around twenty-five participants were present.
5. Prof. Arunan MC, Homi Bhabha Center for Science Education, TIFR gave a seminar on 04th September 2019. The title of the seminar was "Populating India with STEM Spectators: Gully Cricket Model of Spreading STEM Culture". Around twenty-five participants were present.
6. Prof. Biju K Raveendran, from Goa Campus gave a seminar on 19th September 2019. The title of the seminar was "Effective Teaching @ BITS: Youngster's Perspective". Around twenty-five participants were present.
7. Prof. Lakshmi Subramanian, from Goa Campus gave a seminar on 29th October 2019. The title of the seminar was "Teaching and Researching in Indian Universities: challenges and directions". Around twenty-five participants were present.

TLC conducted Intensive teaching workshops (ITW) for new faculty members.

1. The 1st part of Intensive Teaching Workshop (ITW-1) for new faculty members was held on 29th- 30th March 2019. Numbers of participants in the workshop were twenty-one.
2. The 2nd part of Intensive teaching workshop (ITW-2) was held on 20th April 2019. 24 new faculty members participated in the workshop.

Conferences

1. Prof. Rajesh Mehrotra from Teaching-Learning Center attended the “National Teachers Congress” Conference held in MIT College Pune from 04th to 06th January 2019
2. Prof. Rajesh Mehrotra & Prof. Gaurav Dar from Teaching-Learning Center attended the workshop “Team-based learning” on 9th March 2019 at Pilani campus. The workshop was organized by TLC Pilani Campus.

Research Project in pedagogy

1. Research project on “EMT1 Pedagogy improvement – Describing the initial student state of learning attitude and nature of conceptual difficulties in electricity & magnetism” was funded by the TLC. The Principal investigator for the project was Prof Raghunath Ratabole from Physics Department.
2. Research project on “Impact of Different Pedagogical Approaches to Teaching Film and Literature in an Engineering Curriculum” was funded by the TLC. The Principal investigator for the project was Prof Geetha Bakilapadavu of Humanities & Social Sciences Department. A Research Associate was also hired for the project.
3. Research project on “SamaTulyata: Automated Evaluation for Computer Programming course” was funded by the TLC. The Principal investigator for the project is Dr. Soumyadip Bandyopadhyay of Computer Science and Information Systems
4. Research project on “Towards Contributing to a management plan for ACB students at BITS, Pilani, Goa Campus” was funded by the TLC. The Principal investigator for the project is Dr. Rajiv Kumar Chaturvedi & Co-PI Dr. Bidisha Banerjee of Humanities and Social Sciences. A Research Associate was also hired for the project.
5. Student Editors & Graphic Designers Position was advertised for the magazine for Teaching Learning center (TLC) at BITS Pilani Goa Campus. Received around 12 application for the post 02 for Graphic Designers, 07 Student Editors & 03 for Student Editors & Graphic Designers. 05 students are selected for the TLC magazine.

B2.12 CENTRAL FACILITIES REPORT**CENTRAL LIBRARY**

The Library complex of BITS, Pilani – K K Birla Goa Campus comprises of a spacious building covering an area of 3512 m². It is designed to provide several reading halls, apart from a large area earmarked for books storage. The Library has been provided with a wireless network whereby users can access the internet using their laptops. The Library is equipped with modern furniture well designed taking into consideration the future growth of the Library collection and the needs of the users. Presently, it has a seating capacity of 550+ which is likely to be expanded in the coming years.

The Library remains open throughout the year (except on 5 public holidays) from 09.00 am to 11.00 pm on all working days, from 9.00 am to 8.00 pm on Saturdays and from 10.00 am to 8.00 pm on Sundays and other holidays when the academic session is on. And during exams the timings are further extended from 09.00 am to 02.00 am. During recess and vacations, it is open from 09.00 am to 05.00 pm.

The Library web-site has been linked with the Institute home page for easy access. The home page was designed and developed by students. The Library had been using LIBSYS Library Management Software to automate all its housekeeping activities; from July 2014 a switch to LibLime Koha software system has been made. The Library Koha Web OPAC includes advanced search options for books and journals. The Library also hosts an online repository of publications of the students and faculty members of the Campus. As of now, these services (Koha OPAC and the repository) are accessible only while connected to the Campus intranet. In future, Internet connectivity will be offered.

The Online Portal

We have our catalogue and transactions management on the Koha server which is a FLOSS. We also are developing a repository of our own (campus-level) research output like theses and publications. Together, using FLOSS tools, we are in the process of organizing a Library portal that we hope will become an academic social networking platform for the Campus. Sooner or later, this will become a component in the University-level library portal in the offing for some time. We have taken the opportunity created after the exit of a staff member to recruit a person with a technical profile instead of non-tech library professionals, in order to drive this development forward. This is a new beginning.

Acquisition and circulation

The Library collection has reached 40108 volumes, growing by 3%. The average growth in the last decade had been around 10%. The decline in this year had been foretold, during the budgeting exercise for the current FY: unfavorable exchange rate rise and aggressive price rise by journal publishers is putting pressure on the share of

journals and online resources in the budget. In order to continue subscriptions to all the important content, the Library has been forced to cut down on the budget for books.

Reference Section

The Library has a good collection of reference materials, like encyclopedias and handbooks. However, a clear trend among users has emerged that is making the print versions obsolete: the rise in the use of online databases and search engines. The Library, through deliberations in the Library Committee, is planning to shift to this mode in future. Just as many journal and online content publishers are raising subscription rates, there is also a mitigating trend of free online access and shared resources. The Library is gearing up to become an efficient facilitator for accessing this online treasure trove through Koha.

Journals and Online Resources

The Library subscribes to 59 Indian Journals and 21 Foreign Journals in print, 11 online journals, 8 digital library packages for researchers of different disciplines. Digital library packages include IEL Online, ASME, ScienceDirect, ProQuest, ACM Digital library etc. Apart from these, online access to more than 3000 journals through INFLIBNET is available to the Campus. The Library home page gives links to the resources available, for easy location and access. Useful articles, news, newspaper clippings are displayed from time to time on the notice board for the information of readers.

Other services

The Library has a collection of 35 educational video cassettes and 1485 CDs. The Library keeps the readers informed of all the books added to the Library through a regular display of new arrivals as well as updates on email. From time to time book exhibitions by publishers are arranged to facilitate faculty members selecting books for the library.

New Reading Lounge

As a part of an effort to make library a happening place on campus, a new lounge area has been designed in the library. Created with the purpose of encouraging reading, it brings a welcome splash of color to the library. A plush room boasts of comfortable couches and carpet flooring meant to dampen sound and allow discussion between students without disturbing those outside the room. These spaces play host to book discussions; in future we want to organize author talks and more. We have earmarked exhibition spaces on the walls for displaying artwork, encouraging our Campus community's creativity. Some new installation for this purpose, including a glass-board for brainstorming and collaboration, is happening now. Reading area that welcomes younger children is also developed with couches. Our Library is an alcove of reading, collaborating and thinking.

COMPUTER CENTRE

(A) Computer Hardware

S.No	Make	Configuration	Number	Area of utilization
01	DELL 7010	Intel Core i7 Processor,8GB RAM,1TB HDD	22	Central Computing Labs, Various Department Labs, Faculty members and Staff members for carrying out their academic teaching and research work.
02	Dell Optiplex 9020 MT	Intel Core i7, 4th Generation, 8GB RAM, 1 TB HDD	50	
03	Lenovo Edge73	Intel Core i7 Processor,8GB RAM,500GB HDD	56	
04	Dell Optiplex 3010	Intel Core i3 / i5 Processor, 8GB RAM,500GB/1TB HDD	100	
05	Dell Optiplex 9020	Intel Core i7 Processor, 8 GB RAM,1 TB HDD	39	
06	Dell Optiplex 390	Intel Core i3 Processor,8GB RAM,500GB HDD	11	
07	HP Prodesk	Intel Core i7 8th Gen Processor,16 GB RAM,1 TB HDD	60	
08	HP Prodesk	Intel Core i7 Processor,16 GB RAM,1 TB HDD	73	
09	Dell Optiplex 755	Intel Core 2 Duo Processor,2GB RAM,160GB HDD	66	
10	HP ProDesk 400	Intel Core 7i Processor,16GB RAM, TB HDD	40	
11	Lenovo G510	Intel Core i5 Processor,4GB RAM,500GB HDD	22	Faculty members and Staff members for carrying out their academic teaching and research work
12	HP 440G5	Intel Core i7 Processor,16 GB RAM,1 TB HDD	50	
13	Dell Latitude E5430	Intel Core i3 Processor,4GB RAM,500GB HDD	18	
14	Dell Vostro 1550	Intel Core i3 Processor,4GB RAM,500GB HDD	17	
15	Dell Latitude 3400	Intel Core i7 Processor,16 GB RAM,1 TB HDD	50	
16	Dell Vostro 3550	Intel Core i3 Processor,4GB RAM,500GB HDD	56	
17	Dell Vostro 3500	Intel Core i3 Processor,4GB RAM,500GB HDD	25	
18	HP Tablet PC	Intel Core i3 Processor, 2GB RAM, 500GB HDD	4	
19	HP Elite Book Tablet 2730P	Intel Core i3 Processor, 2GB RAM, 500GB HDD	1	

(B) Servers

S.No.	Server	Make	Qty	Configuration	OS
Network servers					
1	DNS	IBM	3	[IBM x3650 M4, Dual Processors(6 Core),16GB RAM, 500GB Hard Disk]	Windows 2016
2	DHCP	IBM	2	[IBM x3650 M4, Dual Processors(6 Core),16GB RAM, 500GB Hard Disk]	Windows 2016
3	LDAP	IBM	2	[IBM x3650 M4, Dual Processors(6 Core),128GB RAM, 3GB Hard Disk]	Cent OS
4	Network Monitor (Notice)	DELL	1	[DELL Intel Xeon E5-2620 v4, Dual Processors(6 Core), 128 RAM ,4 TB Hard Disk]	Windows server 2016
5	Cacti Monitor	DELL	1	[IBM x3650 M4, Dual Processors(6 Core),128GB RAM, 3TB Hard Disk]	RedHat
6	CC Tv	DELL	1	[DELL Intel Xeon E5-2620 v4, Dual Processors(6 Core), 128 RAM ,70 TB Hard Disk]	Windows server 2016
7	Antivirus	DELL	1	[DELL Intel Xeon E5-2620 v4, Dual Processors(6 Core), 128 RAM ,4 TB Hard Disk]	Windows server 2016
8	NTP Server	DELL	-	Dell PowerEdge T610 - tower - Xeon E5620 2.4 GHz - 16 GB RAM - 1 TB Hard Disk	Windows Server 2012
Communication Servers					
1	Web Server	IBM	3	[IBM x3650 M4 Dual Processors(6 Core),128GB RAM, 3TB Hard Disk]	Windows server 2016
2	Call Manager	Cisco	1	[Cisco BE6000, 2.4 GHz,10MB Cache, 8GB DDR3 RAM Dual Rank, 500GB SATA_ 7.2K RPM SFF Hot Plug/Drive Sled Mounted]	Cisco Business Edition 6000 - Software App Version 10.X
3	Call Account/Reporting tool	DELL	1	[DELL Intel Xeon E5-2620 v4, Dual Processors(6 Core), 128 RAM ,4 TB Hard Disk]	Windows Server 2012
4	SWD Server	DELL	1	[DELL Optilex 755,Core 2 Duo 2.33GHZ, 2 GB RAM,160GB HDD]	Windows 2003
5	Teeme & Dashboard	DELL	1	[DELL Intel Xeon E5-2620 v4, Dual Processors(6 Core), 128 RAM ,4 TB Hard Disk]	Windows 2012
6	Application Server	DELL	2	[DELL Intel Xeon E5-2620 v4, Dual Processors(6 Core), 32 RAM ,4 TB Hard Disk]	Windows Server 2016
Academic Servers					
1	Academic FTP	IBM	1	[IBM x3650 M4, Dual Processors(6 Core),128GB RAM, 3TB Hard Disk]	Fedora
2	Staff/ Faculty FTP	IBM	1	[IBM x3650 M4, Dual Processors(6 Core),128GB RAM, 3TB Hard Disk]	Fedora
3	Mech (Ansys, MATLAB,etc)	IBM	2	[IBM x3650 M4, Dual Processors(6 Core),128GB RAM, 3TB Hard Disk]	Windows 2016
3	Course Management (Moodle)	IBM	1	[IBM x3650 M4, Dual Processors(6 Core),128GB RAM, 3TB Hard Disk]	CentOS
4	BITSAT	DELL	3	[DELL Optilex 755,Core 2 Duo 2.33GHZ, 2 GB RAM,160GB HDD]	Windows 2003
(C) COMPUTER CENTER (Central Facility)					
Central Computing Lab, Zone I	DELL 7010 [Intel Core i7 Processor,8GB RAM,1TB HDD]	12	Windows 10 and Linux Office 2010, AutoCAD Modelsim, Xilinx		
	Dell Optilex 9020 [Intel Core i7, 4th Gen, 8GB RAM, 1TB HDD]	46			
	DELL 3040 [Intel Core i7 Processor,8GB RAM,1TB HDD]	42			
Central Computing Lab, Zone II	Dell Optilex 3010 [Intel Core i3 / i5, 8GB RAM,500GB/1TB HDD]	67	Windows 10 and Linux, Office 2010, AutoCAD Modelsim, Xilinx		
	Lenovo Edge73 [Intel Core i7,8GB RAM,500GB HDD]	21			
	Dell Optilex 990 [Intel Core i3,4GB RAM,500GB HDD]	12			
Central Computing Lab, Zone III	HP ProDesk 400[Intel Core 7i Processor,16GB RAM, TB HDD]	40	Windows 10 and Linux, Office 2010, AutoCAD Modelsim, Xilinx		
	Lenovo Edge73 [Intel Core i7,8GB RAM,500GB HDD]	22			
	Dell Optilex 7010 & 9020 [Intel Core 2 Duo, 2GB RAM,320GB HDD]	9			

(D) Operating System and Software Licenses		
Windows	Windows 10	400
Windows	Windows Server Standard 2012 / 2016	50
Seqrite	Seqrite End point Security	850
Microsoft Office	Office 2010 and Office 2016	400

Network Facilities

Campus Local Area Network

The Campus LAN Project of BITS Pilani – K K BIRLA Goa Campus is a state of the art, completely switched, voice-enabled LAN infrastructure. LAN is able to provide 100 Mbps fibre channel network connectivity to all faculty cubicles, offices, library, Labs, lecture theatres, workshop, auditorium all hostel rooms, staff quarters, visitors' guest house, shopping complex, student activity centre & other public facility locations in the campus. There are 5000+ nodes across the campus.

The network is a three-layer network, namely core, distribution and access. The core & distribution layer is connected through gigabit fibre optic backbone, while the access layer is using enhanced CAT6 / CAT6A cabling. The network is designed to provide link level and device level redundancy.

Wi-Fi Network

The Institute building, Visitors' Guest House, Student Activity Center and Medical Center are provided with a secured Wi-Fi network facility. The Wi-Fi solution used for this is from RUCKUS. All hostels have WiFi connectivity. This Wi-Fi solution is using CISCO access points.

Cloud Based Services (e-mail and File Storage)

University e-mail solution is supported by Google for 30,000 users of BITS campuses and WILP students. This solution is an integrated solution covering e-mail with 30 GB space, file storage with 5 GB space, collaboration tool, file sharing, personal web-pages, calendaring system, etc.

LAN Security

The LAN security is provided by Sophos XG 750 firewall with high availability and redundancy. The facility also supports high availability of internet lines and support on-demand bandwidth at any location with load balancing.

Voice Communication

All faculty members have been provided with a laptop/desktop and VoIP telephone facility in their chambers. The VoIP facility facilitates receiving of incoming call directly on the individual telephone.

Video Communication

Multi-point video conferencing facility is made available using the POLYCOM HDX machine. This facility is utilized for online meetings of research groups in India as well as across the world apart from the administrative meetings.

Internet Bandwidth

S.No.	Area	Bandwidth Allocated	Service Provider
01	Hostels, Guest House	1000 Mbps	GWave (500) EtherNet Express (500)
02	Institute Building, Staff Quarters	1000 Mbps	Vodafone (250) Vodafone (250) Reliance Jio (500)
04	Wifi Hostels, Academic building and Quarters	750 Mbps	Vodafone (250) Reliance Jio (500)
03	Cross Campus Teaching and Lectures/talks from BITS Alumni using web-based technology	45 Mbps	Tata Tele Services

Cross Campus Connectivity

SI. No.	Area	Bandwidth Allocated	Service Provider
01	MPLS Connectivity connecting Pilani, Hyderabad, Goa campus with the Datacenter co-hosted at Mumbai for the ERP applications.	5 Mbps	Tata Tele Services

Sl. No.	Area	Bandwidth Allocated	Service Provider
02	MPLS Connectivity connecting Pilani, Hyderabad, Goa campus with the Datacenter co-hosted at Mumbai for the BITS Connect 2.0 applications.	75 Mbps	Tata Tele Services

Virtual Class Room (BITS Connect 2.0)

The virtual classroom is set up at K K BIRLA Goa campus. This facility will enable faculty to deliver lectures to all four BITS campuses simultaneously; alumni and experts to remotely deliver lectures and conduct workshops or panel discussions to multiple BITS campuses simultaneously, with recording and streaming of lectures.

Telepresence Conferencing Room (BITS Connect 2.0)

Telepresence Director and Placement Office conference room of 18 capacity have been set up at K K BIRLA Goa campus to facilitate virtual meetings for academic and administrative decisions at University level. Licenses for WebEx (web conferencing software) have been provided to all the faculty to facilitate discussions related to course work and research. This facility will also open up avenues of multimedia collaboration with anybody outside the campus. High end (CISCO EX 90) desktop systems are set up on the desk of.

Bring your own device (BYOD)

As a part of an effort to make Computer Centre Lab enhancement, collaborative learning with students own personal digital devices on campus, bring your own device (BYOD) area has been designed in the Computer Centre Lab. It is created with the purpose of encouraging students to use technology to support their academic learning and research. Students are permitted to bring devices that can connect to the campus Wired/Wi-Fi network for any accessible digital content.

CCTV Network

CCTV systems provide surveillance capabilities used in the protection of people, assets and systems through an Internet Protocol camera (IP camera) system). This system capable of a higher-resolution video recording and thus provide better, clearer images and perform in low-light recording situations. Presently, we have 110 IP cameras connected through the local area network to dedicated local storage media with 30 days of recording.

Workshop

The central workshop is equipped with following equipment's purchased during the year **2019** are as follows:

S.No.	Particulars
1	Channel Pressure Scanner 10" H2O along with software development kit for Lab View.
2	Cryogenic Treatment Equipment and Accessories - Cryogenic Chamber
3	Diesel Smoke Meter with USB Communication & with latest modifications of Oil temperature & RPM measurement as per Ripple sensor with Printer.
4	CNC Simulator Pro Platinum Edition: 8 seat Educational license
5	Precision 5820 Tower (DELL Workstation) Intel Xeon W-2155 (3.3GHz, 4.5GHz Turbo, 10C, 13.75MB Cache, HT, (140W)) DDR4- 2666
6	2 kN Low Force Test System with compression platen, Including: 1. 10 kN load frame with electrically movable crosshead and integrated servo controller, 2. ± 2 kN servo electric actuator, 3. ± 2 kN load cell, 4. Tablet for system control over WiFi, 5. Compression platen, 6. Testbuilder application package, 7. ± 200 N load cell, 8. ± 44 N load
7	NI USB 6361, X Series DAQ (16 AI, 24DIO, 2AO) with power cord. Compact data acquisition system for connecting the sensor to PC using USB.
8	Integrated Bomb Calorimeter, Operating Principal : Isothermal, Temperature Resolution : 0.001/0.01 C
9	Twin Cylinder (Dual Fuel / Turbocharged) Diesel Research Engine Set-up with Open ECU System (Add-ons: Dual Fuel Mode, Turbocharger, CNG Fuel System, H2 Fuel System, Constant RPM Mode / Constant Torque Mode, Gasoline Fuel System, DPF Filter, LPG System, Laptop with dual display)
10	JULABO F25-HL Refrigerated/heating circulator and Thermal H10 bath fluid 10 liters (-20...+180 Deg C)
11	HP desktop workstation with HP 24" Monitor, With following item description, 2WY66AV - HP ProDesk 400 G5 Microtower PC, Single Unit (Microtower) Packaging, HP 400 G5 Country Kit INDIA, HP ProDesk 400PLA250W MT Chassis, HP DisplayPort Port, Intel Core i7 8700 3.2 2666MHz 6C 65W CPU, 32GB (2x16GB) DDR4 2666 DIMM Memory, 1TB
12	Position Tensile Creep of Polymer and Rubber Materials. (12 1 lb weights and (6) 1/2 lb weights. Also supplied with 10 lbs of steel shot). Model No. ASTM.D2990.13 and Position Flexure Creep Testing Stands for specimens in 150°C oven. Model No. ASTM.D2990.75 E6852 I6854
13	Olympus Next Generation Inverted Research Microscope Model IX73 complete set

S.No.	Particulars
14	Dell Desktop Workstation with Monitor, OptiPlex 5070 MT XCTO, Dell 24" Monitor - E2418HN, Intel® Core™ i7-9700 (8 Cores/12MB/8T/3.0GHz to 4.7GHz/65W); supports Windows 10/Linux

Central Facilities & Monitoring:

The central facilities on campus include central water receiving and distribution facility, central electric power receiving distribution center, Sewage Treatment plant, Diesel Generator, and central Air-conditioning plant. The details of these facilities are as follows:

Central Facilities	Installed Size/Capacity
PWD Water Connection	500cumec
Water Storage Sump	1800 cumec . Three tanks of 600 cumec each
Utility II building	Water tanks of 1,30,000 ltrs, and 1,00,000 ltrs each of flusing and irrigation are provided to cater to the newly constructed residential blocks.
Utility I building	Domestic tank – 2,60,000 ltrs, Flushing- 1,30,000 ltrs and Irrigation – 1,30,000 ltrs constructed to cater to the new academic block, DH side hostels, D mess.
Overhead Water Tank	150 cumec. Water pumped from the main sump to over head tank and distributed to campus residences through gravity.
No. of Bore Wells	5 Nos. / 55 cumec
GEB Electricity Supply	3000KVA and 2000 KVA transformers at 33 KV substations is energized with distribution of load by completing loop. A separate 11 KV line connected at PCC2 for AC plant with 1000 KVA transformer
Transformer	500/1500/750/750 KVA at PCC1,2,3 and 4 respectively. 3000KVA and 2000 KVA transformers installed at 33 KV substation step down power from 33 KV to 11 KV. At utility I building, two of 1000 KVA transformers are charged to connect load to new cademic block, hostels and dining area.
Diesel Generator	2X500 connected to main building lighting, 750 KVA DG connected to air condition plant. One 62.5 installed for pump house for to pump water in case of power failure another 62.5 installed at VGH and 35 KVA DG connected to medical centre.
Air Condition Plant	660 TR load connected to main building includes class rooms, cubicles, computer centre, Library and Auditorium etc.
VRV units at new academic block (Air condition)	25 TR capacity of four units are provided to DLT5 to DLT8. Two of 15 TR are provided to four class rooms D101 to D 104.
Sewage Treatment Plant	Capacity 600 cumec and treated water is used for campus garden watering with the expansion of sewage plant, it is planned to connect the treated water to flushing ti newly built hostels & residences, for which separate flushing tanks are provided.
Renewable energy	Two, 6.75, 3.75 and 4.5 KW solar roof top panel are installed and connected to street lights. With this we have completed around 85% street lights on solar.
Solar Water Heater	All hostels existing as well as newly buil are backed with solar water heater for hot water requirement
Tele presence class room	200 capacity class room has been built for across three campus live class with the help of latest technology.

B2.13 MAJOR MAINTENANCE, RENOVATIONS OR NEW CONSTRUCTION REPORTS

Incubation Centre: A separate block has been constructed and developed in association with Birac bio nest and has been occupied by incubates

Four more Lecture halls and four class rooms are added in the new academic block to accommodate additional students other than the existing lecture halls and class rooms.

Three residential blocks of C type are added having 2 and half bedroom of 48 flats. And one tower comprising residential flats associated to medical centre with 9flats of single bed room and two of two bed room.

The entire existing campus buildings are repainted to external surface as well as replacing of Mangalore tiles with monier tiles to roof to increase the building life expectancy.

Hostels

Two more new hostels are added to existing hostels with a capacity of each 100 rooms with double sharing. Attached new dining hall has been commissioned to cater to the added students.

B2.14 MAJOR EQUIPMENTS ACQUIRED DURING THE YEAR

S.No.	Asset Description	Department	Rate	Qty	Purch.Value
1	Dell precision 5820 tower XCTO base workstation with 27" monitor and Dell 16GB RAM	Mechanical Engg.	264,236	1	264,236
2	HP desktop workstation with monitor (HP ProDesk 400 G5 Microtower PC)	Mechanical Engg.	81,687	9	735,183
3	Dell Laptop (Optiplex 5060SFF XCTO)	Placement office	67,230	2	134,459
4	5KVA online UPS with 1 HR backup	CSIF	131,000	1	131,000
5	10KVA online UPS with battery with isolation transformer K13,1ph	CSIF	198,500	1	198,500
6	10KVA online UPS with battery with isolation transformer 3ph	CSIF	365,000	1	365,000
7	20KVA online UPS with battery with isolation transformer K13- 3ph	CSIF	454,000	1	454,000
8	Dell Latitude 3400 CTO (Laptop)	Computer Centre	70,210	25	1,755,250
9	Dell Latitude 3400 CTO (Laptop)	Computer Centre	70,210	25	1,755,250
10	Dell Optiflex desktop computer (i5 8th gen, 8gb RAM, 1TB HD, Keyboard, Mouse, windows 10)	WILPD	55,106	5	275,530
11	13" Macbook air with 2 year additional warranty & USB VGA multiport adaptor	CS&IS dept	134,476	1	134,476
12	ANT PC Pheidole CL9700K AJ workstation/server	EEE Dept.	196,368	1	196,368
13	6KVA UPS system with DC power pack	Maintenance department	128,502	1	128,502
14	12V 100AH QUANTA VRLA SMF battery	Computer Centre	7,680	30	230,400
15	20 kVA Gigamax Online UPS from consul neowatt along with accessories	Mechanical Engg.	290,000	1	290,000
16	Precision 5820 Tower XCTO Base with 27" Monitor	Mechanical Engg.	260,061	1	260,061
17	Precision 5820 Tower XCTO Base	CSIF	159,300	1	159,300
18	OptiPlex 3070 MT XCTO	CSIF	80,653	2	161,305
19	Precision 3630 Tower CTO Base	Mechanical Engg.	118,099	1	118,099
20	OptiPlex 5070 MT XCTO	Mechanical Engg.	120,360	14	1,685,040
21	Dell Precision 3630 tower CTO base	Mechanical Engg.	136,790	1	136,790
22	Cisco Wireless Access Points	Computer Centre	19,172	120	2,300,619
23	Cisco Switch 48 port full Power Over Ethernet	Computer Centre	195,797	5	978,987
24	Switch 12 port Power Over Ethernet+	Computer Centre	40,791	5	203,956
25	Switch 12 port Power Over Ethernet	Computer Centre	26,514	5	132,571
26	Cisco UC Phone 7841	Computer Centre	6,934	30	208,035
27	Switch 48 port Non Power Over Ethernet	Computer Centre	138,690	5	693,449
28	Ant PC pheidole XE2630 PA with Monitor (desktop)	EEE Dept.	187,000	1	187,000
29	Ant PC pheidoleX PA-1 with Monitor (desktop)	EEE Dept.	205,040	1	205,040
30	3KVA UPS system (96V/FM) Sno: from V181007643 upto V181007656	Computer Centre	33,890	14	474,460
31	Epson Projector Model EB 108	Computer Centre	42,880	10	428,800
32	Epson Projector Model EB 536 WI	Computer Centre	64,640	2	129,280
33	Valrack moducab networking 42U 600*800 (Racks for server & switches along with accessories)	Computer Centre	39,257	9	353,317

S.No.	Asset Description	Department	Rate	Qty	Purch.Value
34	802.11ac W2 Ap w/CA; 4x4:3;Mod; Int Ant; 2xGbE D (wifi access point) including Software and accessories	Computer Centre	37,345	170	6,348,712
35	Cisco catalyst 3650 Switch (48 port full POE along with accessories)	Computer Centre	197,441	5	987,203
36	Catalyst 9500 24x1/10/25G and 4 port 40/100G, essential (24 Port 10G Switch) (incl accessories)	Computer Centre	1,458,697	2	2,917,394
37	Catalyst 9500 40x10G, 2x40G Bundle, Network essentials (40 Port 10G Switch) (incl accessories)	Computer Centre	1,552,110	2	3,104,220
38	Cisco Catalyst 9500 2x 40GE Network module (40 Port 10G Switch) (incl accessories)	Computer Centre	122,299	2	244,597
39	Cisco Catalyst 3560-CX 12 Port PoE IP Base (12 port POE Switch) (incl accessories)	Computer Centre	87,679	4	350,717
40	802.11ac W2 Ap w/CA; 4x4:3;Mod; Int Ant;mGig D Domain (Wifi access point) including Software	Computer Centre	55,955	8	447,637
41	Cisco Catalyst 3650 24 Port PoE 4x1G Uplink LAN Base (24 port POE switch) (incl accessories)	Computer Centre	87,679	11	964,471
42	Cisco Catalyst 3650 48 Port PoE 4x1G Uplink LAN Base (48 port non- POE switch) (incl accessories)	Computer Centre	87,679	38	3,331,810
43	Cisco Catalyst 3650 48 Port PoE 4x1G Uplink LAN Base (48 port POE switch) (incl accessories)	Computer Centre	101,980	5	509,899
44	Cisco Catalyst 3650 48 Port PoE 4x1G Uplink LAN Base (48 port full POE switch) (incl accessories)	Computer Centre	87,679	2	175,358
45	802.11ac W2 Ap w/CA; 4x4:3;Mod; Int Ant; 2xGbE D (wifi access point) including Software	Computer Centre	55,955	140	7,833,651
46	Cisco Aironet 1815i Series (wifi access point) including Software	Computer Centre	55,955	4	223,819
47	Dell Latitude 3460CTO Laptop along with windows 10 OS license for the laptops (Under-FIST-Mathematics - Prasanna Kumar)	50% institute -FIST Mathematics	28,890	25	722,238
48	Dell Desktop computer intel core i5, 8th Gen, 16 GB Ram, DVD writer, standard keyboard, mouse with windows 10 PRO	Chemistry Dept	66,434	2	132,868
49	Dell Precision 3630 with 24" monitor	EEE Dept.	122,838	10	1,228,380
50	Dell Optiplex 5060 SFF with 24" monitor	EEE Dept.	76,464	6	458,784
51	Dell Precision 3630 tower CTO base	EEE Dept.	130,685	2	261,370
52	Ultimaker S5 3D printer (incl Installation & freight)	EEE Dept.	675,269	1	675,269
53	Dell Workstation precision 5820 tower XCTO Base (along with 20 inch monitor)	mechanical engg	281,135	1	281,135
54	P01-S104XX00 smartzone 100 with 4 gige ports (networking equipment)	Computer Centre	436,600	1	436,600
55	Ruckus R510 zone flex dual band wireless access point (network equipment)	Computer Centre	23,777	52	1,236,404
56	ANT PC PHEIDOLE XE2620V4 V (server)	CS&IS Dept	144,020	1	144,020
57	Server	WILPD	141,600	1	141,600
58	Nvidia quadro P4000 8 GB Cards - Used in Data Science & AI	CS&IS Dept	62,318	4	249,270

S.No.	Asset Description	Department	Rate	Qty	Purch.Value
59	Dlink 32 ch NVR 1080p 4 Sata with 6U valrack-with 6TB Hard disk surveillance record (to increase the backup capacity storage of the hostel CCTV system)	SWD	109,976	1	109,976
60	24 Port Switch with accessories	CC	454,883	2	909,765
61	48 Port Switch	CC	205,359	1	205,359
62	48 Port Switch with Power cable	CC	139,285	5	696,425
63	Wifi Access Points (incl Software license for- Access Point)	CC	26,766	35	936,798
64	24 Port Switch with accessories	CC	454,883	1	454,883
65	48 Port Switch	CC	205,359	1	205,359
66	48 Port Switch with Power cable	CC	139,285	5	696,425
67	Wifi Access Points (incl Software license for- Access Point)	CC	26,766	35	936,798
68	Outdoor Wifi Access Points (incl Software license for- Access Point)	CC	55,827	5	279,133
69	12 Port Switch	CC	41,765	2	83,531
70	Outdoor Wifi Access Points (incl Software license for- Access Point)	CC	55,827	5	279,133
71	48 Port Switch with Power Plug	CC	162,814	1	162,814
72	48 Port Switch with Power Plug	CC	162,814	1	162,814
73	UPS - 3.5KVA UPS for Electrical backup-DH Hostels	DH Hostel	53,300	2	106,600
74	ECG 1100A Upright Chiller	SWD	102,660	1	102,660
75	Idli Box (100 capacity)	SWD	51,525	2	103,050
76	HVLS fan	SWD	310,576	3	931,728
77	Aquaguard water storage cooler cum purifier with storage facility of 80LPH – Stainless Steel body. It has two faucet, one for normal purified water and one for chilled purified water. Model No.: PC80SS	SWD	75,520	10	755,200
78	Aquaguard water storage cooler cum purifier with storage facility of 120LPH – Stainless Steel body. It has three faucet, one for normal purified water and two for chilled purified water. Model No.: PC120PSS	Hostel	88,320	2	176,640
79	Submersible sewage pumps	Hostel	118,952	1	118,952
80	Water cooler	Hostel	51,500	2	103,000
81	Supply & Installation of Racold Solar Water Heater (8nos.)	Hostel	99,015	8	792,120
82	Supply & Installation of Racold Solar Water Heater (2nos.)	Hostel	99,015	2	198,030
83	900mm Sweep High speed Ceiling Fan with 5 star rated 60W (incl fan regulator)	Hostel	3,328	420	1,397,638
84	Storage Rack - 4 Shelves 1350 X 600 X 1800	Hostel	24,697	8	197,576
85	Chapathi Plate with Puffer 1500 X 750 X 850 +150	Hostel	53,752	2	107,505
86	Work Table with Sink 850 X 800 X 850 +150	Hostel	159,804	1	159,804
87	Steam Generator	Hostel	246,970	1	246,970
88	Steam Vessel - Manual Tilting	Hostel	87,166	4	348,664
89	Idly Steamer with Stand	Hostel	72,638	2	145,277
90	Dosa Plate 1500 X 610 X 850+150	Hostel	53,752	2	107,505

S.No.	Asset Description	Department	Rate	Qty	Purch.Value
91	Pickup Counter with Tray Slide & Sneeze Guard 1750 x 650 +300 x 850 +450	Hostel	50,847	3	152,541
92	Bain Marie Counter with Tray Slide & Sneeze Guard 1800 x 650 +300 x 850 +450	Hostel	79,902	6	479,413
93	Water Cooler Blue Star Make, Model : Sdlx 120	Hostel	39,397	4	157,588
94	Exhaust Hood - Wall Mounted (Sweet making area) 2500 X 960 X 525	Hostel	116,221	1	116,221
95	Exhaust Hood - Ceiling Mounted (Chapathi Making Area) 3000 X 960 X 525	Hostel	145,277	1	145,277
96	Exhaust Hood - Wall Mounted (Veg Kitchen) 5000 X 960 X 525	Hostel	290,553	1	290,553
97	Exhaust Hood - Wall Mounted (Veg Kitchen) 5450 X 960 X 525	Hostel	305,081	1	305,081
98	Exhaust Hood - Wall Mounted (Non Veg Kitchen) 5800 X 960 X 525	Hostel	326,873	1	326,873
99	Exhaust Hood - Wall Mounted (Steam Operated) 5300 X 960 X 525	Hostel	246,970	1	246,970
100	Exhaust Hood - Wall Mounted (Breakfast & Tea coffee) 1500 X 960 X 525	Hostel	72,638	2	145,277
101	Exhaust Hood - Ceiling Mounted (Breakfast & Tea coffee) 4200 X 960 X 525	Hostel	246,970	1	246,970
102	Blower Motor with Acostic for Exhaust System for Breakfast & Steam Cooking Cap : 7.5 HP	Hostel	138,013	2	276,026
103	Blower Motor with Acostic for Exhaust System for Non Veg Cooking Cap : 5 HP	Hostel	123,485	1	123,485
104	Blower Motor with Acostic for Exhaust System for Veg Kitchen Cap : 10 HP	Hostel	181,596	1	181,596
105	Blower Motor with Acostic for Exhaust System for Chapathi Making Cap : 3 HP	Hostel	108,958	1	108,958
106	Blower Motor with Acostic for Fresh Air System for Breakfast, Non Veg Kitchen, Chapathi Making Area, Veg Cooking Area Cap : 5 HP	Hostel	123,485	2	246,970
107	Blower Motor with Acostic for Fresh Air System for Steam Cooking & Sweet Making Area & Chapathi Making Area Cap : 3 HP	Hostel	108,958	2	217,915
108	LPG manifold (15+15) Cylinders with fittings	Hostel	1,234,852	1	1,234,852
109	Fire Suppression System	Hostel	2,033,874	1	2,033,874
110	Drain grating 900 X 300 X 30	Hostel	21,927	61	1,337,524
111	1200mm ceiling fan Opal white	Hostel	1,349	350	472,100
112	Chairs made from industrial Nylon (Venus B) -(Red colour)	SWD	3,009	100	300,900
113	Hostel Room Metal Cupboard (S1) Supply & Installation of Cupboard (Metal) size : 900(L) x 500(D) x 2000(H)	Hostel	11,724	402	4,712,991
114	Hostel Room bed size : 1950 (L) x 900(D) x 530(H)	Hostel	9,645	402	3,877,251
115	Hostel Room Study Table (T1-A) Hostel Room Study Table (T1) size : 1100(L) x 600(D) x 750(H)	Hostel	6,664	402	2,679,047
116	Fabric / White board Panel (M) Supply & Installation of Softboard / cum writing board size : 1100(L) x 600(B)	Hostel	4,927	402	1,980,650

S.No.	Asset Description	Department	Rate	Qty	Purch.Value
117	Movie chairs without arms (black colour)	Hostel	2,832	500	1,416,000
118	Chairs with arms	Hostel	496	500	247,800
119	DINING TABLE NO.2000 X 750	Hostel	22,217	74	1,644,064
120	PICKLE SS TABLE :1800 X 600	Hostel	33,750	4	135,002
121	Multi Channel electrochemical workstation (VSP model with 4 Channel with EIS facility)	Chemical Engineering	1,631,457	1	1,631,457
122	ANT PC MYRMICA - Rx700XBU (for humanities dept for a course on film & video production)	Humanities Dept	178,300	1	178,300
123	Flexural Testing Rig/Stand (Used in MEF452 Composite material and design & MST G 522 Advanced Composite course) - Model:ASTM.D2990.13	Mechanical Engg.	483,641	1	483,641
124	Tensile creep Testing Rig/Stand (Used in MEF452 Composite material and design & MST G 522 Advanced Composite course) - Model: ASTM.D2990.75	Mechanical Engg.	455,137	1	455,137
125	Quest ATR Diamond Acy + base Plate 549-453 along with Power Cord, accessories and attachments (Analytical instrument for sample analysis)	Chemical Engineering	1,049,180	1	1,049,180
126	Millipore Water Purification System - ZRQSV5IN- DIRECT smartpak purification pack (Express 20 filter model)	Biological Department	499,966	1	499,966
127	Circuit board plotter (LPKF Protomat E44 with Set of accessories) also includes - LPKF Vacuum Cleaner system for Protomat & ProConduct - Installation, training & commissioning cost, Customs &	EEE	860,186	1	860,186
128	Mixed Domain Oscilloscope (along with accessories & probes)	EEE	483,579	1	483,579
129	TBS 1104B 100MHZ,1G/S sampling rate channel oscilloscope	EEE	55,161	6	330,967
130	TBS 1102B - EDU 100MHZ,2G/S sampling rate channel oscilloscope	EEE	35,634	17	605,779
131	2 Channel 25MHZ Arbitrary Function Generator	EEE	24,449	8	195,589
132	Syringe Pumps INFS with TCH SCRIN with gastight 50ml. Make:COLEPARMER	Mechanical Engg.	340,636	1	340,636
133	IOFL-23-150WH 150W led flood light	Maintenance department	8,232	27	222,264
134	Shimadzu UV-VIS spectrophotometer, UV 2600 along with Integration Sphere attachment and UV 100 mm GS kit (includes matched pair 10mm quartz cuvettes)	Chemical Engineering	950,741	1	950,741
135	T100 Thermal Cycler (PCR equipment)	Biological Department	225,750	1	225,750
136	ANT PC Pheidole XE4110 VJ server with SSD	Chemical Engg. Dept.	200,000	1	200,000
137	Table top refrigerated centrifuge model ST 16 R Cat.# 75004380	Biological Department	743,400	1	743,400
138	Multifrequency Ultrasonic Interferometer - Mittal make	Chemical Engg. Dept	153,141	1	153,141

S.No.	Asset Description	Department	Rate	Qty	Purch.Value
139	Ruckus R510 dual band wireless access points along with accessories	Computer Centre	23,777	28	665,756
140	CO2 incubator (with RaPIDell fast temperature recovery without overshoot lifecell along with control software to optimize parameters)	Biological Department	399,042	1	399,042
141	Tubular reactor with furnace assembly, Gas fed assembly, liquid fed assembly, condenser, pressure gauges & instruments, Temperature measurement, PID based control pannel, structure assembly.	Chemical Engg. Dept.	840,000	1	840,000
142	Ultrasonic Processor DP 500	Mechanical Engg.	106,779	1	106,779
143	Vacuum Pump with accessories	Biological Department	214,189	1	214,189
144	Interactive Digital Source Meter 2450	Physics Dept.	336,300	1	336,300
145	Olympus next eneration inverted sesearch microscope model IX73	Mechanical Engg.	907,127	1	907,127
146	Lyophilizer vacuum Freze dryer	Chemistry	697,085	1	697,085
147	High Voltage amplifier	Mechanical Engg.	204,810.44	1	204,810
148	Labram HR UV VIS NIR Raman Spectrometer & accessories with honeycomb table top with active vibration isolated support	CSIF	15,171,613.00	1	15,171,613
149	LPI XRD 002-BAXS water cooling unit for D8 advance XRD	CSIF	13,150,517.00	1	13,150,517
150	Motorized Microscope with high resolution camera	CSIF	18,164,838.00	1	18,164,838
151	Electronic Ebulliometer (test Ethyl alcohol in wine)- Thermodynamics course in chemical engineering course	Chemical Eng.	159,300	1	159,300
152	Biochemical Filtration Equipment Includes: Filter funnel; Membrane filter holder; Vaccum manifold; Filtering flask; Buchner funnel	Chemical Eng.	102,895	1	102,895
153	Orbitek LE -Orbital Incubator Shaker and its accessories and components	Chemical Eng.	331,373	1	331,373
154	2 channel PC12 (AE) Acoustic Emission system along with its accessories (Crack detection system)	Workshop	1,344,007	1	1,344,007
155	TMS 320C6748 DEVELOPMENT kit along with XDS100_V2 JTAG Emulator, power supply adaptor and signal processing cable set.	EEE Dept.	33,630	5	168,150
156	EG1213 gantry type CNC plasma cutting machine (incl. Installation & freight)	EEE Dept.	648,282	1	648,282
157	Blue star Water Cooler SDLX15150A/150150B (150 ltr water cooler) sr no. KRV00399 / LRV00617 / LRV00620	SWD	48,501	3	145,502
158	Blue star split AC 1.5 ton (incl freight)	Chemical Engg lab	52,257	2	104,514
159	Ultrasonic Processor DP-500 (Sonicator instrument)	Chemistry dept	120,000	1	120,000
160	Current Probes - GCP-100 (sno: US180065 / US 180067 / US 180033 / US 180035 / US 180034) (Used in high voltage experimental setups)	EEE	55,461	5	277,306
161	RFL-AMS-A advanced motorized antenna trainer device	EEE	141,895	3	425,685

S.No.	Asset Description	Department	Rate	Qty	Purch.Value
162	RFL RFGD 3G generator and detector device	EEE	272,875	4	1,091,500
163	Bi Directional Coupler device type N (for return loss measurement)	EEE	43,660	4	174,640
164	RFL AMS A advanced motorized antenna trainer (Incl. all accessories)	EEE	174,640	1	174,640
165	Diesel Smoke Meter (make:NETEL, model:NPM SM111B with USB communication and with latest modification of oil temperature and RPM measurement as per sensor (battery operated) with printer	Mechanical Engg Dept	124,576	1	124,576
166	Zen Board zynq-700 ARM/FPGA SOC development board	EEE	39,648	13	515,424
167	DCS-B VLSI based digital communication training system (Communication System training kit)	EEE	53,100	10	531,000
168	DCS-A VLSI based advanced digital communication training system (Communication System training kit)	EEE	53,100	10	531,000
169	MX418/C Gooseneck Microphone	Computer Centre	17,110	8	136,880
170	Blue star 2.5 TR split AC	Computer Centre	89,386	2	178,772
171	Blue star 3 TR split AC	Computer Centre	99,886	2	199,772
172	Motorized treadmill machine Af 103	SAC	155,000	1	155,000
173	Rowing Machine FR E 316	SAC	145,000	1	145,000
174	Scanivalve make: MPS4264: 64 channel pressure scanner 10" H2O with purge option along with single power supply 12" cable; Ethernet patch cable 10 feet along with software development kit for lab view.	Mechanical Engg	1,808,225	1	1,808,225
175	Integrated bomb calorimeter (Used to measure calorific value of the fuel (petrol, gas, diesel) in experiments)	Mechanical Engg	531,000	1	531,000
176	Analytical Balance capacity 220 Gms Model:ATX 224 Make: Shimadzu	Mechanical Engg	141,600	1	141,600
177	Microwave Bench Set up (wave guide based - Oscillator -microwave power generator) includes: - MT - Klystron Basic (qty - 2) - MT Advance (qty - 4) - MT - GUNN Basic (qty - 2)	EEE Dept.	436,600	1	436,600
178	Snapdragon 820 development kit with 4GB LPDDR4 ram/64GB and UFS processing units (incl.15264 AC 100-240V to DC 5A 12V 60W power adapters Qty 20)	EEE Dept.	51,914	20	1,038,282
179	2kn low force test (equipment) system with compression platen (equipment used for Material characterisation ie: testing quality of material)	Mechanical Engg Dept	3,926,533	1	3,926,533
180	Twin cylinder engine set up with open ECU add ons dual fuel with accessories. (turbocharger,CNG,fuel system,constant RPM,gasoline fuel system,DPF filter LPGfuel system,laptop with dual display)	Mechanical Engg Dept	3,513,386	1	3,513,386
181	Keil MCB 2370 single board computer evaluation board for NXP (Kits)	EEE Dept.	26,373	6	158,238

S.No.	Asset Description	Department	Rate	Qty	Purch.Value
182	Keil Ulink2-ED usb Jtag adapter for flash programming and debugging(Kits)	EEE Dept.	30,090	5	150,450
183	Keil MCBSTM 32F 400 UME single computer evaluation board for STM	EEE Dept.	42,834	4	171,336
184	CROWN XTi6002 Power Amplifier along with cables and accessories as under: - Blenden 1800B - Audio Cable with Neutrik XLR 2 m-(qty 2)-Audio only - 8 Core Snake (Blenden) with XLR (Neutrik) - (qty 1)-Audio only - XLR-XLR 100m with Neutrik and Blenden 1800C - (qty 1)-Audio only - EP to TRS 5m Blenden 1800 and Neutrik connectors - (qty 10)-Audio only - NEXO NXAE104 Network card (qty 2) -Audio only	Audio Visul dep	139,992	2	279,985
185	V-1HD(Video Mixer) Roland	Audio Visul dep	111,923	1	111,923
186	Shure P3TINR112GR - Microphone	Audio Visul dep	61,124	2	122,248
187	H Led CT-4 (Operation theater light equipment)	Medical Centre	112,100	1	112,100
188	Camera set and accessories (incl. Camera set, Camera lens set , Camera Safety materials, RCA cables, & Audio integration);Installation & Integration; Software Services feesAMC fees(3yrs)	WILPD	238,326	1	238,326
189	Thermocouple input module (16 Channel) equipment, isothermal terminal block and includes: - NI 9178 compact data acquisition chassis - Thermocouple T-type (temperature measurement range 32 degF to 500 degF fiberglass insulation 2mtr cable.	Mechanical Engg Dept	338,610	1	338,610
190	Tangential flow filtration system (including all components & accessories)	Biology	1,468,533	1	1,468,533
191	Cryogenic treatment equipment, along with it components & accessories (Incl. freight) -(Cold tempering facility)	Mechanical Engg Dept	630,970	1	630,970
192	AM Receiver trainer (Communication training system kits) - Scientech 2202 DSB/SSB	EEE Dept.	105,600	1	105,600
193	NI USB 6361 X series with power cord (Compact Data Acquisition system for connecting the sensor to PC using USB) (make:National instruments)	Mechanical Engg Dept	203,974	1	203,974
194	NI-9214 Thermocouple (16 channel thermocouple input module includes Isothermal terminal block also includes: - NI9203 analog current input module 8 channel AI module along with thermocouple connector J type	Mechanical Engg Dept	247,376	2	494,751
195	ECO ION Chromotograph equipment & accessories (Make: Metrohm AG) - used for water analysis	Chemistry lab	2,332,654	1	2,332,654
196	Refrigerated/heating circulator (make:Julabo F25 HL)	Mechanical Engg Dept	569,775	1	569,775
197	BD FACS melody (cell sorter) equipment (50:50) FIST program..Biology Lab	Biology	6,738,854	1	6,738,854
198	Non mercury ambulatory blood pressure monitors (including application software)	Medical Centre	113,187	1	113,187

S.No.	Asset Description	Department	Rate	Qty	Purch.Value
199	820 development kit with 4GB LPDDR4 RAM/ 64GB UFS processing units	WILPD	51,330	10	513,300
200	(UP make) Squared IoT grove development kit - (used for collecting and processing data in connection with gas) (Components include:UP Squared 02/32 board,Grove sensors,5V6A powersupply and power cord) incl:freight & customs clearance	EEE Dept.	25,153	5	125,765
201	MS office & anti Virus software	Placement office	17,532	1	17,532
202	CommControl Call Accounting & Reporting software for 500 extension CUCM	Computer Centre	179,950	1	179,950
203	1 single user (Software) stata/ MP 16(64-core) Upgrade for 501506269006 with download link	Economics	158,408	1	158,408
204	BC5 modules - CFD Ricardo Vectis training modules along with e resources (on automotive systems).	WILPD	438,854	1	438,854
205	Wifi Access Points management licenses along partner watchdog support for the wifi access points (for Ruckus R510 -AP)	Computer Centre	9,151	28	256,237
206	ARC GIS EIGAP plan with all extension	Economics	171,985	1	171,985
207	Comsol Multiphysics named single user License for one named user - perpetual license no. 16078451	EEE Dept.	120,750	1	120,750
208	2 Core academic License LS-DYNA software (used in elective course automotive vehicles, CDC courses mechanical vibrations and dynamics and vibration)	Workshop	136,605	2	273,210
209	Access Point management License (software)- S02-0001-3LSG	Computer Centre	5,959	57	339,663
210	Perpetual License of CST studio suite license	EEE Dept.	400,020	1	400,020
211	Professional IP camera license software	Computer Centre	9,034	40	361,363
212	MS office professional edition AE	Mechanical Dept	17,688	9	159,194
213	Digital simulation softwareE learing software BC-1 IC Engines	WILPD	146,284	1	146,284
214	Digital simulation softwareE learing software BC-3 Mechatronics	WILPD	329,141	1	329,141
215	Digital simulation softwareE learing software BC-2 Automotive Systems	WILPD	438,854	1	438,854
216	Digital simulation softwareE learing software BC-4 EV & HEV	WILPD	329,141	1	329,141
217	Implementation Cloud-based learning platform (incl: advance configuration, user training & support for software)	WILPD	354,000	1	354,000
218	Software license: HEP-1 back end IC Nanometer design - 60 user license	EEE Dept.	415,360	1	415,360
219	Software License: Mentor Graphics HEP2 front end design verification & Test -60 user license	EEE Dept.	415,360	1	415,360
220	Software License: Cadence EDA tools - PG Bundle 50 user license	EEE Dept.	2,000,000	1	2,000,000
221	Software: Real Learning.in platform using AI for evaluation of question papers	AUGSD	354,000	1	354,000

S.No.	Asset Description	Department	Rate	Qty	Purch.Value
222	Intel PCF999LLAE01X1Z - Intel parallel studio XE composer edition for fortran Linux ESD license	Mechanical Engg Dept	35,736	4	142,945
223	Intel PCF999WLAE01X1Z - Intel paralle studio XE composer edition for fortran windows ESD license	Mechanical Engg Dept	31,756	5	158,781
224	MIPAR premier image analysis software for CSIF unit installed in chemical engg lab (Includes MIPAR Software license; MIPAR Custom recipe-3pack & MIPAR AMC plan)	EEE	659,380	1	659,380
225	Transformer 1250 KVA with OLTC panel for AC plant	Maintenance Dept	2,451,112	1	2,451,112
226	off girid solar power plant connected to PCC-4 street light	Maintenance department	885,727	1	885,727
227	Solar street light 24W LED 75hrs. Battery 120w solar panel with GI pole & accessories	SWD	27,300	4	109,200
228	Force traveller 3350 WB 10+p with PS/ABS/AC/ABS WITH AIS 125 NORMS TYPE C AMBULANCE	Medical Centre	2,022,919	1	2,022,919
Total					196,048,152

B2.15 STUDENTS ACTIVITIES, ACHIEVEMENTS, SCHOLARSHIPS, CULTURAL AND ACADEMIC FESTIVAL

All the sports activities at BITS Goa campus are conducted under the supervision of the SAC/SWD headed by the Physical Education Instructor. In addition to this, there is sports secretary from the student council. The main function of the SAC is to promote sports culture, provide world class sports facilities for daily sporting activities, organize sports in various sports disciplines and build institute teams for the participation and Further select the best among them for the National and other level tournaments. SAC also organizes staff sports events annually.

The sports infrastructure at BITS Goa Campus is broadly categorized into two major facilities: Indoor and outdoor sports, Any student, staff/faculty can avail any of the above facilities as per his/her convenience. Recent Upgradation carried out in the year 2018-19 are Construction of Two New Synthetic all weather Basketball Courts and Upgradation of Gym with latest exercise machines and Upgradation of Badminton hall with standard LED Flood lights. Presently two all weather synthetic Tennis courts are under construction.

Institute Teams Achievements in 2019

“ARENA” 2019

- Institute Table Tennis (Mens) Team won the First place in “Arena” BITS Hyderabad Sports festival in Table Tennis (Mens) event.
- Institute Squash (Mens) Team won the First place in “Arena” BITS Hyderabad Sports festival in SQUASH (Mens) event.
- Institute Basketball (Womens) Team won the First place in “Arena” BITS Hyderabad Sports festival in Basketball (Womens) championship

K.J. SOMAIYA Sports Festival – 2019

- Institute Badminton Team Singles (womens) won the championship on K.J. Somaiya annual sports festival
- Institute Badminton Team Doubles (womens) won the championship on K.J. Somaiya annual sports festival
- Institute Table Tennis Team (Mens) won the championship on K.J. Somaiya annual sports festival
- Institute Chess Team won the first place in the K.J. Somaiya annual sports festival

SPREE 2109 –BITS Pilani K.K.Birla Goa campus

- Carrom “A” team won the first place in the “SPREE” 2019 CAROM championship Team event
- Carrom “B” team won the SECAND place in the “SPREE” 2019 CAROM Championship Team event
- Chess Team won the first place Carrom “A” team won the first place in the “SPREE” 2019 CAROM Team event

MIT Summit Sports Festival 2019

- Institute Badminton (Womens) Team won the championship in MIT summit sports festival Badminton (Womens event).
- Institute Squash (Mens) Team won the First place in “MIT Summit” Sports festival in SQUASH (Mens) event
- Institute Basketball (Mens) team won the first place in the championship

BITS PILANI, BOSM – 2019

- Institute Table Tennis (Men) – Winners First place in Annual Sports meet of BITS Campus “BOSM” 2019
- Carrom team won the finals first place in BITS campus annual sports festival “SPREE” March 2017

Open tournaments – 2019 - Tennis

- Tennis Singles team was the runner up at the annual Gasper Dias All India open Tennis tournament organized at Miramar, Goa in Tennis event
- Tennis Doubles team was the runner up at the annual Gasper Dias All India open Tennis tournament organized at Miramar, Goa in Tennis event

Football

Institute Football team retained in IInd division league of Goa Football Association

Award of Scholarship to Students

SCHOLARSHIP	NO. OF STUDENTS (figures indicates no. of awards in 2019)	AMOUNT
INSTITUTE'S MERIT & MCN SCHOLARSHIP	1667	96990768
STUDENT AID FUND FINANCIAL ASSISTANCE	19	770000
SCHOLARSHIP FROM ADITYA BIRLA GROUP	3	300000
SCHOLARSHIP FROM BHUSHAN BHATIA	4	88500
MUKYAMANTRI MEDHAVI VIDYARTHI YOJANA	2	300000
WESTERN DIGITAL SCHOLARSHIP FOR STEM	4	549784
TOTAL :	1699	98999052

NISHCHAY MEHTA (2017B3A80511G), SHIVANG GUPTA (2017B3A70331G), PATIL TINA SANJAY (2017B3AA0316G) and YASH AGARWAL (2017B3AA1008G) won Regional Round of RBI policy challenge 2019.

Note :

Students are also in receipt of INSPIRE, KVPY, NTS.

LIST OF ANNEXURE

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Annexure B2-4	NUMBER OF STUDENTS REGISTERED	B2: A6
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NAME AND DESIGNATION OF SENIOR OFFICE BEARERS OF GOA CAMPUS

S.No.	GPSRN	Name	Department/ Facility	Activity	Designation
1.	0631	Prof. Gunaje Raghurama	EEE / Director	Director	Senior Professor
2.	0095	Prof. Sunil Bhand	Chemistry / Sponsored Research and Consulting Division	Dean, Institute Wide	Professor
3.	0068	Prof. Srinivas Krishnaswamy	Chemical Engineering/ Academic - Graduate Studies & Research	Dean, Institute Wide	Professor
4.	0006	Prof. Dhananjay Madhukar Kulkarni	Mechanical Engineering / General Administration	Dean, Campus Specific	Professor
5.	0080	Prof. Srikanth Mutnuri	Biological Sciences	HOD	Professor
6.	0310	Prof. Saroj Sundar Baral	Chemical Engineering	HOD	Associate Professor
7.	0318	Prof. Halan Prakash	Chemistry	HOD	Associate Professor
8.	0729	Prof. Vinayak Naik	Computer Science & Information Systems	HOD	Senior Professor
9.	0338	Prof. Aswini Kumar Mishra	Economics	HOD	Associate Professor
10.	0735	Prof. Abhijit Jayant Pethe	Electrical & Electronics Engineering	HOD	Associate Professor
11.	0123	Prof. Reena Cheruvalath	Humanities and Social Sciences	HOD	Associate Professor
12.	0416	Dr. Jajati Keshari Sahoo	Mathematics	HOD	Associate Professor
13.	0482	Dr. Ranjit Shankarrao Patil	Mechanical Engineering	HOD	Assistant Professor
14.	0062	Prof. Radhika Vatsan	Physics	HOD	Assistant Professor
15.	0078	Prof. Bharat Madhusudan Deshpande	Computer Science & Information Systems / Academic Graduate Studies and Research	Associate Dean	Professor
16.	0010	Prof. Neena Goveas	Computer Science & Information Systems / Academic Under Graduate Studies	Associate Dean	Professor
17.	0094	Prof. Sutapa Roy Ramanan	Chemical Engineering / Faculty Affair Division	Associate Dean	Professor
18.	0058	Prof. Narendra Nath Ghosh	Chemistry / International Programs & Collaboration	Associate Dean	Professor
19.	0104	Prof. Meenal Kowshik	Biological Sciences / Sponsored Research & Consulting	Associate Dean	Professor
20.	0033	Prof. Anupama Karuppiyah	Electrical & Electronics Engineering / Practice School Division	Associate Dean	Professor
21.	0104	Prof. Raghunath Anand Ratabole	Physics / Work Intigrated & Learning Programs	Associate Dean	Associate Professor
22.	0333	Prof. Ramesha C. K.	Electrical & Electronics Engineering / Student Welfare Division	Associate Dean	Associate Professor
23.	0082	Prof. Veeky Baths	Biological Sciences / Alumuni Relations Division	Associate Dean	Associate Professor
24.	0729	Prof. Vinayak Naik	Computer Science & Information Systems / Computer Centre	FIC	Professor

S.No.	GPSRN	Name	Department/ Facility	Activity	Designation
25.	0107	Prof. Amalin Prince A	Electrical & Electronics Engineering / Placement	FIC	Associate Professor
26.	0189	Dr. Rashmi Chauhan	Chemistry / Community Welfare	FIC	Assistant Professor
27.	0604	Dr. Rajorshi Sen Gupta	Economics / Centre for Innovation, Incubation and Entrepreneurship (CIIE)	FIC	Assistant Professor
28.	0089	Prof. Gaurav Dar	Physics / Teaching Learning Centre	FIC	Associate Professor
29.	0377	Prof. Ram Shanker Patel	Physics / Central Sophisticated Instrumentation Facility (CISF)	FIC	Associate Professor
30.	0211	Prof. P Bhavna	Chemistry / Instruction	FIC	Professor
31.	0364	Prof. Amrita Chatterjee	Chemistry / Registration	FIC	Associate Professor
32.	0362	Prof. Chandradew Sharma	Physics / Academic Research	FIC	Associate Professor
33.	0021	Dr. Vikas Vinayak Chaudhari	Mechanical Engineering / Admissions	FIC	Assistant Professor
34.	0488	Dr. Malabika Biswas	Biological Sciences / Academic Counselling & Monitoring	FIC	Assistant Professor
35.	0414	Prof. Angshuman Sarkar	Biological Sciences / Student Welfare Division	Chief Warden	Associate Professor
36.	0009	Mr. Anand K. Patil	Purchase & Stores & Estate	IC	Estate Manager
37.	0050	Dr. Anuradha Voolapalli	Library	IC	Deputy Librarian
38.	0230	Dr. Raghavendra Kota Madhyastha	Medical Centre	IC	Chief Medical Officer
39.	0796	Mr. Ajay Kumar Agarwal	Finance	IC	Head - Accounts & Finance
40.	0658	Mr. Sailesh Narayan Mohanty	General Administration	IC	Deputy Registrar
41.	0668	Mr. Arjun Chandrakant Halarnkar	Public Relations	IC	Public Relations Officer

NAMES OF WARDENS OF GOA CAMPUS

S.No.	GPSRN	Name	Hostel	Activity
1.	G0414	Prof. Angshuman Sarkar		Chief Warden
2.	G0343	Dr. Amit Setia	CH-1	Warden
3.	G0334	Dr. Pravin Sakharam Mane	CH-2	Warden
4.	G0414	Prof. Angshuman Sarkar	CH-3	Warden
5.	G0420	Prof. Alamelu Geetha Krishnamurthy	CH-4	Warden
6.	G0588	Dr. Jegatha Nambi Krishnan	CH-5	Warden
7.	G0414	Prof. Angshuman Sarkar	CH-6	Warden
8.	G0671	Dr. Shilpa Suresh Gondhali	CH-7	Warden
9.	G0621	Dr. Himadri Mukherjee	AH-1	Warden
10.	G0500	Prof. Kundan Kumar	AH-2	Warden
11.	G0372	Dr. Manoj Kumar Pandey	AH-3	Warden
12.	G0072	Dr. V.V.S.N.V. Prasad Chundru	AH-4	Warden
13.	G0228	Dr. Kiran Dinkar Mali	AH-5	Warden
14.	G0056	Dr. Varinder Singh	AH-6	Warden
15.	G0565	Dr. Raviprasad Aduri	AH-7	Warden
16.	G0124	Dr. Sunilkumar Vattezhath	AH-8	Warden
17.	G0363	Prof. Mainak Banerjee	AH-9	Warden
18.	G0492	Dr. Sukanta Mondal	DH-1	Warden
19.	G0492	Dr. Sukanta Mondal	DH-2	Warden
20.	G0114	Prof. Sanjay Kumar Sahay	DH-3	Warden
21.	G0114	Prof. Sanjay Kumar Sahay	DH-4	Warden

DETAILS OF ADMISSIONS MADE DURING THE YEAR 2019**(a) Second Semester 2018-19****Doctoral Programmes:**

Ph.D.	45(24)
	<u>45(24)</u>

(b) First Semester 2019-20**Doctoral Programmes:**

Ph.D.	36(15)
	<u>36(15)</u>

1. Integrated First Degree Programmes

	No. of students joined	BITSAT Cut-off scores	
		Highest	Lowest
Group A			
B.E.			
Chemical	77(14)	300	254
Electrical & Electronics	88(08)	338	310
Mechanical	104(06)	340	280
Computer Science	171(13)	406	352
Electronics & Instrumentation	87(12)	324	294
Electronics & Communication	90(07)	351	322
	<u>617(60)</u>		
Group B			
M.Sc.			
Biological Sciences	46(04)	284	250
Chemistry	54(14)	288	256
Economics	69(07)	341	295
Mathematics	67(10)	322	276
Physics	58(06)	331	274
	<u>294(41)</u>		
Group C			
M.Sc.			
Information Systems			
Total :	<u>911(101)</u>		

2. Higher Degree Programmes :

M.E.	
Biotechnology	15(10)
Embedded Systems	26(08)
Computer Science	39(10)
Micro Electronics	27(04)
Chemical Engineering	09(04)
Design Engineering	22(01)
Mechanical	24(00)
Sanitation Science, Technology and Management	05(02)
M. Phil. In Liberal Studies	02(02)
Total	<u>169(41)</u>

3. Doctoral Programmes :

Ph.D. – Full Time	34(15)
Ph.D. – Part Time	01(00)
PhD Aspirant Scheme	01(00)

SUMMARY

	II Semester 2018-19	I Semester 2019-20
On-Campus Programmes		
Integrated First Degree Programmes	-	911(101)
Higher Degree Programmes	-	169(41)
Doctoral Programmes	45(24)	36(15)
Total	45(24)	1116(157)

**STATEMENT SHOWING THE NUMBER OF CANDIDATES WHO HAVE BEEN PERMITTED IN THE ACADEMIC YEAR
2018-2019 TO PURSUE VARIOUS DUAL DEGREE PROGRAMMES UNDER VARIOUS PRIORITIES**

(ii) K.K. Birla Goa Campus:

FIRST PRIORITY (Dual Degree)

(From Group 'B' to Group 'A' Programmes)

Programmes* From ↓To→	A1	A3	A4	A7	A8	AA	Total
B1	5	3	10	10	5	7	40
B2	1	11	10	10	11	4	47
B3	1	13	10	27	6	13	70
B4	6	7	6	19	7	15	60
B5	1	7	10	15	11	7	51
Total	14	41	46	81	40	46	268

OTHER PRIORITY

Programmes* From ↓ To →	A1	A3	A4	A7	A8	AA	B1	B2	B3	B4	B5	Total
A1												
A3												
A4												
A7												
A8												
AA												
Total												

B-B Transfer

Programmes* From↓To→	B1	B2	B3	B4	B5	Total
B1			1			1
B2	2		1			3
B3						
B4						1
B5			1			1
Total	2		3			5

Transfer

	A1	A3	A4	A7	A8	AA	Total
A1							
A3						2	2
A4						1	1
A7							
A8						2	2
AA				2			2
B1							
B2							
B3							
B4							
B5							
Total				2		5	7

***Legend:**

A1: B.E. Chemical,

A2: B.E. Civil,

A3: B.E. Electrical & Electronics,

A4: B.E. Mechanical,

A5: B.Pharm.),

A7: B.E. Computer Science,

A8: B.E. Electronics and Instrumentation,

AA: B.E. Electronics & Communication,

AB: B.E. Manufacturing,

B1: M.Sc. Bio. Sciences

B2: M.Sc. Chemistry

B3: M.Sc. Economics,

B4: M.Sc. Mathematics,

B5: M.Sc. Physics,

C2: M.Sc. General Studies,

C6: M.Sc. Information Systems

C7: M.Sc. Finance.

NUMBER OF STUDENTS REGISTERED**Second Semester 2018-2019**

Programme	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
Chemical	-	-	-	1(0)	1(0)	71(5)	55(10)	77(12)	72(8)	277(35)
EEE	-	-	-	1(0)	3(0)	72(8)	83(8)	81(9)	83(7)	323(32)
Mechanical	-	-	-	-	-	68(1)	66(3)	96(1)	105(2)	335(7)
Computer Science	-	-	1(0)	-	1(1)	96(9)	104(11)	163(14)	173(9)	538(44)
Electronics & Instrumentation	-	-	-	-	1(0)	78(8)	78(10)	76(9)	79(10)	312(37)
Electronics & Communication	-	-	-	-	-	-	-	81(15)	89(11)	170(26)
M.Sc.(Hons)										
Biological Science	-	-	-	3(0)	28(4)	43(5)	38(4)	24(9)	44(4)	180 (26)
Chemistry	-	-	-	2(0)	31(5)	39(4)	38(2)	35(10)	46(4)	191(25)
Economics	-	-	-	1(0)	59(7)	48(4)	45(9)	66(14)	73(4)	292(38)
Mathematics	-	-	-	1(0)	52(9)	46(10)	44(3)	70(11)	66(10)	279(43)
Physics	-	-	-	1(0)	49(3)	42(4)	40(3)	48(7)	56(9)	236(26)
Total	0	0	1(0)	10(1)	225(29)	603(58)	591(63)	817(111)	886(78)	3133(339)
B. Higher Degree Programmes										
Biotechnology	-	-	-	-	-	-	-	14(10)	17(16)	31(26)
Design Engg.	-	-	-	-	-	-	-	16(1)	38(3)	54(4)
Embedded System	-	-	-	-	-	-	-	15(7)	30(14)	45(21)
Chemical Engg.	-	-	-	-	-	-	-	11(7)	12(3)	23(10)
Microelectronics	-	-	-	-	-	-	-	12(5)	33(6)	45(11)
Computer Science	-	-	-	-	-	-	-	16(7)	39(10)	55(17)
Total	-	-	-	-	-	-	-	84(37)	169(52)	253(89)
Grand Total	0	0	1(0)	10(1)	225(29)	602(58)	591(63)	901(148)	1055(130)	3386(428)

First Semester 2019-2020

Programme	Year of Admission									Total
	2011	2012	2013	2014	2015	2016	2017	2018	2019	
A. Integrated First Degree Programmes										
B.E.(Hons.)										
Chemical	-	-	-	-	6(0)	55(10)	76(12)	72(8)	75(13)	284(43)
EEE	-	-	1	0	3(0)	81(8)	81(9)	82(7)	84(8)	332(32)
Mechanical	-	-	-	-	3(0)	65(3)	95(1)	105(2)	101(6)	369(12)
Computer Science	-	-	-	-	6(1)	104(11)	163(14)	172(9)	170(12)	615(47)
Electronics & Instrumentation	-	-	-	-	2(0)	76(10)	76(9)	79(10)	85(12)	318(41)
Electronics & Communication	-	-	-	-	-	-	80(15)	89(11)	90(8)	259(34)
Biological Science	-	-	-	3(0)	42(5)	39(5)	24(9)	44(4)	46(4)	198(27)
Chemistry	-	-	1	2(0)	39(4)	37(2)	35(10)	45(4)	54(14)	213(34)
Economics	-	-	-	3(0)	42(4)	46(9)	66(14)	73(4)	69(7)	299(38)
Mathematics	-	-	-	4(0)	41(8)	44(3)	70(11)	64(10)	67(10)	290(42)
Physics	-	-	1	5(0)	40(4)	40(3)	46(7)	56(9)	58(6)	246(29)
Total	-	-	3(0)	17(0)	224(26)	587(64)	812(111)	881(78)	899(100)	3423(379)
B. Higher Degree Programmes										
	-	-	-	-	-	-	2017	2018	2019	
Biotechnology	-	-	-	-	-	-	1(0)	17(16)	15(10)	33(26)
Design Engg.	-	-	-	-	-	-	1(0)	38(3)	22(1)	61(4)
Embedded System	-	-	-	-	-	-	-	29(13)	25(8)	54(21)
Chemical Engg.	-	-	-	-	-	-	-	12(3)	9(4)	21(7)
MicroElectronics	-	-	-	-	-	-	1(0)	33(6)	26(4)	60(10)
Computer Science	-	-	-	-	-	-	0	38(10)	39(10)	77(20)
Mechanical	-	-	-	-	-	-	-	-	24(0)	24(0)
Sanitation	-	-	-	-	-	-	-	-	5(2)	5(2)
M.phil	-	-	-	-	-	-	-	-	2(2)	2(2)
Total	-	-	-	-	-	-	3(0)	167(51)	167(41)	337(92)
Grand Total			3(0)	17(0)	224(26)	587(64)	815(111)	1048(129)	1066(141)	3760(471)

C. PhD Programmes

	Year of Admission										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Semester II 2018-2019	1(1)	1(0)	1(1)	35(15)	17(3)	28(12)	45(16)	63(20)	82(39)	-	273(107)
Semester I 2019-2020	1(1)		1(1)	24(9)	14(2)	28(12)	40(14)	61(19)	78(37)	33(14)	280(109)
Summer term 2018-2019	-	-	-	5(1)	2(0)	-	-	-	-	-	7(1)
Grand Total	2(2)	1(0)	2(2)	64(25)	33(5)	56(24)	85(30)	124(39)	160(76)	33(14)	560(217)

Summer Term 2018-2019

Programme	2013	2014	2015	2016	2017	2018	Total
Chemical	-	-	-	-	76(12)	-	76(12)
EEE	-	-	-	01	79(9)	-	80(09)
Mechanical	-	-	01	02	93(0)	-	96(0)
Computer Science	-	-	01		161(14)	-	162(14)
Electronics & Instrumentation	-	-		01	74(9)	-	75(9)
Electronics & Communication	-	-	-	-	78(14)	-	78(14)
M.Sc.(Hons)							
Biological Science	-	-	-	7	22(7)	-	29(7)
Chemistry	-	-	-	4	32(8)	-	36(8)
Economics	-	-	-	6	66(14)	-	72(14)
Mathematics	-	-	-	12(2)	67(10)	01	80(12)
Physics	-	-	-	02	43(07)	-	45(7)
Total	-	-	02	35(2)	791(104)	01	829(106)

STATEMENT OF DEGREES AWARDED

Degrees	No. of degrees	No. of degrees
	85th Award 28.4.19, 5.7.19, 9.7.19	86th Award 5.9.19, 17.10.19, 2.11.19,7.12.19
(i) Integrated First Degree		
B.E.(Hons.)		
Chemical	12(1)	3(0)
Chemical (with Practice School)	77(6)	10(1)
Electrical and Electronics	23(4)	8(2)
Electrical and Electronics (with Practice School)	104(16)	5(0)
Mechanical	24(0)	3(2)
Mechanical (with Practice School)	84(2)	-
Computer Science	36(5)	8(3)
Computer Science (with Practice School)	109(12)	7(0)
Electronics and Instrumentation	14(2)	-
Electronics and Instrumentation (with Practice School)	95(11)	7(0)
Biological Sciences	14(3)	2(0)
Biological Sciences (with Practice School)	13(1)	1(0)
Chemistry	17(2)	-
Chemistry (with Practice School)	13(3)	-
Economics	18(0)	1(0)
Economics (with Practice School)	44(7)	-
Mathematics	29(6)	3(0)
Mathematics (with Practice School)	22(5)	1(0)
Physics	32(2)	3(0)
Physics (with Practice School)	17(2)	-
Sub Total	797(90)	62(9)

Degrees	No. of degrees	No. of degrees
	85th Award 28.4.19, 5.7.19, 9.7.19	86th Award 5.9.19, 17.10.19, 2.11.19, 7.12.19
(ii) Higher Degree		
M.E.		
Chemical Engineering	11(7)	1(0)
Computer Science	1(0)	-
Design Engineering	5(1)	-
Biotechnology	12(8)	-
Design Engineering (with Practice School)	10(0)	1(0)
Computer Science (with Practice School)	15(7)	-
Microelectronics(with Practice School)	12(5)	-
Biotechnology (with Practice School)	2(2)	-
Embedded Systems (with Practice School)	14(7)	-
Sub Total	82 (07)	2(0)
Ph.D	13 (3)	8(4)
Total	892(130)	72(13)

SUMMARY

Award	85 Award	86 Award	Total
Integrated First Degree	797(90)	64(9)	861(99)
Higher Degree	82 (37)	2(0)	84(37)
Ph.D	13 (3)	8(4)	21(7)
Total	892(130)	72(13)	966(143)

Note: The numbers in brackets indicate number of female students.

**86 AWARD OF DEGREES TO BE APPROVED BY
THE BOARD OF GOVERNORS**

(No. in brackets indicates no. of female students)

Programme	Dist	I	II	Total
B.E.(Hons.)(Chemical)(with Practice School)	0	7	3	10(1)
B.E.(Hons.)(Chemical)	0	0	3	3(0)
B.E.(Hons.)(Electrical and Electronics)(with Practice School)	1	3	1	5(0)
B.E.(Hons.)(Electrical and Electronics)	1	4	3	8(2)
B.E.(Hons.)(Mechanical)(with Practice School)	0	0	0	-
B.E.(Hons.)(Mechanical)	1	1	1	3(2)
B.E.(Hons.)(Computer Science)	2	4	2	8(3)
B.E.(Hons.)(Computer Science)(with Practice School)	0	6	1	7(0)
B.E.(Hons.)(Electronics and Instrumentation)	0	0	0	0
B.E.(Hons.)(Electronics and Instrumentation) (with Practice School)	0	4	3	7(0)
M.Sc.(Hons.)(Biological Sciences)	0	0	2	2(0)
M.Sc.(Hons.)(Biological Sciences) (with Practice School)	0	1	0	1(0)
M.Sc.(Hons.)(Economics) (with Practice School)	0	0	0	-
M.Sc.(Hons.)(Economics)	0	1	0	1(0)
M.Sc.(Hons.)(Physics) (with Practice School)	0	0	0	-
M.Sc.(Hons.)(Physics)	0	2	1	3(1)
M.Sc.(Hons.)(Chemistry)	0	0	0	-
M.Sc.(Hons.)(Maths) (with Practice School)	0	1	0	1(0)
M.Sc.(Hons.)(Maths)	0	1	2	3(0)
Sub - Total	5	35	22	62(9)
M.E				2(0)
Ph.D.				8(4)
TOTAL				72(13)

Note: Numbers in brackets indicate total females

Annexure `B2-7'

(4 Pages)

Ref. AR 2019, Page No.B2-4

LIST OF THE ORGANISATIONS WHICH CONDUCTED CAMPUS INTERVIEWS**LIST OF THE COMPANIES VISITED / RECRUITED FOR THE AY 2018-19**

SR.#	COMPANY VISITED / RECRUITED	NUMBER OF STUDENTS		SECTOR
		INTERVIEWED	OFFERS	
1	159 Solutions	68	6	AN
2	ADM Agro	70	2	CH
3	Adobe	1	1	IT
4	Aeques	27	4	CH
5	Affle India Limited	1	1	OT
6	Afour technologies	1	1	IT
7	Aizant	2	2	BP
8	Amazon	236	7	IT
9	Analogic	1	1	ET
10	Apple	140	3	IT
11	Arcesium	115	6	IT
12	Arete Advisors	120	1	AN
13	Atlassian	63	3	IT
14	Auquan	1	1	IT
15	Aurigene	1	1	BP
16	Axxela Advisory Services	75	2	BF
17	Bajaj Auto	1	1	MF
18	Becton Dickinson Technology Campus India LLP	1	1	BP
19	Bluejays Global Trotters	1	1	IT
20	Brain Labs Digital Limited (UK)	1	1	IT
21	Breathing Rooms	53	1	OT
22	Byju's	45	9	OT
23	Cadence Design Systems	2	1	ET
24	Capgemini	38	7	IT
25	Capillary Technologies	208	15	IT
26	CGI	70	11	IT
27	Cisco	65	5	ET
28	CloudCherry	1	1	IT
29	CodeNation	70	0	IT
30	Cognizant	50	1	IT
31	Cogoport	107	20	AN
32	Crane CPE	19	1	ET
33	Credit Suisse	7	7	BF
34	Cyient	1	1	MF
35	Cypress	58	1	ET
36	Dalberg	79	1	CO
37	DE Shaw	2	2	IT
38	Dell	55	4	IT
39	Deutsche Bank	62	4	BF
40	DRIP Capital Services India	1	1	BF
41	Envision Wind Power	1	1	MF
42	Espressif Systems	25	3	ET
43	EXL Services	54	1	AN

SR.#	COMPANY VISITED / RECRUITED	NUMBER OF STUDENTS		SECTOR
		INTERVIEWED	OFFERS	
44	Exxon Mobil	36	2	MF
45	Fico	30	5	IT
46	Fiorano	19	1	IT
47	Flipkart	122	20	IT
48	Flow Traders(Singapore)	50	0	BF
49	Fractal Analytics	15	1	AN
50	Freshworks	1	1	IT
51	Futures First	103	5	BF
52	GE India	92	2	MF
53	Genpact	1	1	AN
54	Goldman Sachs	8	8	BF
55	Goodera	60	14	IT
56	Google (Ireland)	1	1	IT
57	Grey Orange	55	4	ET
58	Hardik Nayak Investments	1	1	BF
59	HDFC Life	33	3	BF
60	Healthcare Technology	40	3	ET
61	Himachal Futuristic Communications Ltd	26	4	ET
62	Histogenetics	7	1	IT
63	Honeywell	56	4	CH
64	HSBC	97	11	BF
65	IBM	1	1	IT
66	Indospirit	1	1	OT
67	Indus Insights	185	9	CO
68	Indus Valley partners	24	1	IT
69	Infineon Technologies	1	1	ET
70	Infinera	1	1	IT
71	Infor	5	5	IT
72	Infosys	28	2	IT
73	Infoworks	123	6	IT
74	Inmobi	10	6	IT
75	Intel	1	1	ET
76	Intuit	3	3	IT
77	J P Morgan Services	9	9	BF
78	JDA Software	2	2	IT
79	Jivox	61	2	IT
80	John Deere	25	6	MF
81	JP Morgan & Chase	40	2	BF
82	Juniper Networks	1	1	ET
83	Kristal.AI	1	1	IT
84	Kruzer	2	2	CO
85	Kubric	1	1	IT
86	L&T	27	11	IF
87	Lightplane Technologies	1	1	IT
88	Lithium Technologies	70	4	IT
89	Lowes	3	3	AN
90	Make My Trip	50	1	IT
91	Manthan Advisors	34	1	AN

SR.#	COMPANY VISITED / RECRUITED	NUMBER OF STUDENTS		SECTOR
		INTERVIEWED	OFFERS	
92	Maruti Suzuki	25	2	MF
93	Marvell Semiconductors	1	1	ET
94	Mathworks	33	3	ET
95	Mckinsey & Co	1	1	CO
96	Mediatek	20	2	ET
97	Microsoft IDC	74	12	IT
98	Moog India Technology	1	1	MF
99	Morgan Stanley	2	2	IT
100	Morning Star	4	1	BF
101	NetApp	18	1	IT
102	NetSkope	1	1	IT
103	Nomura	1	1	BF
104	Novartis	86	4	BP
105	Nucleus Software	3	3	IT
106	Nutanix	70	7	IT
107	Nvidia Graphics	2	2	ET
108	Open Silicon	2	2	ET
109	Optimus Rid (US)	1	1	IT
110	Optiver (Singapore)	10	0	IT
111	Oracle	110	18	IT
112	Orbees	84	2	CO
113	Oyo Rooms	5	5	IT
114	Paypal	53	8	IT
115	PayU	70	3	IT
116	Piramal Group	1	1	IT
117	Postman	64	1	IT
118	Praj Industries	44	3	CH
119	Price Waterhouse Coopers(PwC)	1	1	CO
120	Publicis Sapient	227	5	IT
121	Qualcomm	49	7	ET
122	Quantiphi	34	4	AN
123	Qubole	5	5	IT
124	Quest Global	11	2	MF
125	Rao IIT	45	7	OT
126	RazorPay	89	4	IT
127	Reflexis	20	15	IT
128	Reliance Industries Limited	25	7	CH
129	Reliance Jio	1	1	ET
130	ROHM Semiconductors	25	1	ET
131	Rubrik	52	1	IT
132	Sagacious Research	1	1	AN
133	Samhita Social ventures	1	1	OT
134	Samsung R&D (Semiconductors Division)	1	1	ET
135	Samsung Research Institute,Bangalore	3	3	IT
136	Sattva Media Consulting Group	1	1	AN
137	ServiceNow	173	7	IT
138	Shadowfax	95	8	CO
139	Siemens	50	7	ET

SR.#	COMPANY VISITED / RECRUITED	NUMBER OF STUDENTS		SECTOR
		INTERVIEWED	OFFERS	
140	Star India	117	2	IT
141	State Street Corporation	2	2	BF
142	Suven Life Sciences	13	1	BP
143	Swiggy	5	5	IT
144	Symphony AI	1	1	IT
145	Synopsys	26	0	ET
146	Tally Solutions	15	3	IT
147	Target	40	6	IT
148	Tata Technologies	30	2	MF
149	Tata Trust	125	8	OT
150	Tejas Networks	2	2	ET
151	Telstra	13	1	IT
152	Tesco	65	6	IT
153	Texas Instruments	49	6	ET
154	Thermax	1	1	CH
155	Thorogood Associates	115	10	CO
156	Toshiba	95	4	IT
157	Uber	9	8	IT
158	UBS	30	3	BF
159	Udaan	20	1	IT
160	Upgrad	72	3	IT
161	UST Global	1	1	IT
162	Viacom18 Media Pvt. Ltd	146	6	CO
163	Wabco Auto	32	1	MF
164	Western Digital	70	8	ET
165	Wipro	10	0	IT
166	Worley Parsons India	1	1	MF
167	Xceedance	1	1	IT
168	Xilinx	26	3	ET
169	ZenDrive	53	3	IT
170	ZS Associates	77	6	AN
		6519	602	

Summary

Total No. of Companies:	170
Total No. of Students Interviewed:	6519
Total No. Appointments offered including multiple offers:	602

Legend:

IT: Information Technology, CH: Chemical, MF: Manufacturing, CO & AN: Consulting and Analytics, ET: Electronics, BF: Banking Finance, EL: Electrical, S & M - Sales & Marketing, OT - Others

BITS Pilani

annual report 2019

Part B3: Hyderabad Campus

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B3.1 SENIOR OFFICERS AND APPOINTMENTS**I. Senior Officers**

- a) Prof. G Sundar, Senior Professor and Director, BITS Pilani Hyderabad Campus and Director, Off-Campus Programme and Industry Engagement.
- b) Prof. Niranjan Swain, Professor and Dean, Dean - Administration
- c) Prof. Suman Kapur, Senior Professor and Dean, International Programmes and Collaboration Division (University Wide)
- d) Prof. Sourj Banerjee, Professor and Dean, Faculty Affairs Division (University Wide)
- e) Prof. C R Hota, Professor In-charge, BITS Entrance Examinations
- f) Prof. P Yogeeswari, Professor In-charge, of Centre for Innovation, Incubation and Entrepreneurship (CIIE).

II. New appointments

- a) Dr. Kishore Kumar Mishra, Dy. Chief Medical Officer
- b) Dr. Naga Jyothi, Medical Officer
- c) Mr. Sahukari Murli Krishna, Manager – Education Operations, WILP
- d) Mr. Vitesh Gupta, Managert – Business Development, WILP
- e) Mr. Sabaresh Rao, B G, Manager – Educational Operations, WILP
- f) Mr. Lokesh Chandu, Manager – Business Development, WILP
- g) Mr. Sankhojit Bhattacharjee, Manager – Business Development, WILP
- h) Mr. Venkata Narayana Rao A, Deputy Registrar

The names and designations of senior officers of Hyderabad Campus are given in Annexure 1 (part B3)

B3.2 ADMISSIONS

The number of students admitted in each of the semesters is given below.

	&Integrated First Degree Programmes		Higher Degree Programmes		Integrated Higher Degree Programmes		*Doctoral Programmes (PhD Full-time)		§Doctoral Programmes (PhD Part-time)		Total
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female	
Second Semester 2018-19	-	-	-	-	-	-	56	25	10	1	66 (26)
First Semester 2019-20	1122	198	275	89	-	-	56	29	17	4	1470 (320)
Grand Total											1536 (346)

& Incl. of both – BITSAT category & International Students category

* Incl. of both – Full time & Faculty input

§ Incl. of both – Part time & Aspirants

B3.3 DUAL DEGREE AND TRANSFERS

During the Year 2019, a total no of 284 students (out of 284 offers: Priority 1 – 284, Other Priorities - 0) were permitted to pursue concurrently two first degrees under the Dual Degree scheme as per details given Annexure2 (Part B1).

TRANSFERS:

During the Year 2019, a total no of 21 students (13 A-A transfers + 8 B-B transfers) were permitted to transfer from the initial allotment of First Degree programme to the other programmes of First Degree to pursue under the Transfers scheme as per details given Annexure2 (Part B1).

VERTICAL TRNSASFERS:

During the year 2019, Three students were permitted to transfer from Higher Degree to Ph.D. Programme and One student was permitted to transfer from First Degree to Higher Degree at Hyderabad Campus.

B3.4 ACADEMIC CALENDAR

The Academic year of the Institute is divided into two semesters and a summer term.

	Starting Date	Ending Date	No of Instruction Days (Excluding Examination Days)
Second semester 2018-2019	07.01.2019	28.04.2019	83
First Semester 2019 -20	02.08.2019	29.11.2019	88
Summer Term 2018-2019	21.05.2019	10.07.2019	42

B3.5 COURSES OFFERED

The number of courses, offered during the year 2019 are as follows:

	Number of Courses Offered
Second semester 2018-2019	341
First Semester 2019-2020	362
Summer Term 2018-2019	22

During the year the following new courses are added

Second semester 2018-2019	7
First Semester 2019-2020	12

The list of new courses added is attached as a separate **Annexure 3 (Part B3)**.

B3.6 REGISTRATION OF STUDENTS

The registration processes for both the semesters was completed on the first day of each semester.

	Number of students registered
Second Semester 2018-2019	4369
Summer Term 2018-2019	1157
First Semester 2019-2020	4917

Details of Registration of students for the First Semester 2018-2019 are given in Annexure 4 (Part B3)

B3.7 ACADEMIC AND PROFESSIONAL COUNSELLING**II Semester 2018 – 2019**

There were **120** students under the purview of the Academic Counselling Board (ACB) at the beginning of the First Semester 2018 - 2019. At the end of First Semester 2018 - 2019, **57** students who have fulfilled the minimum academic requirements as per the Academic Regulations and the stipulations laid down by the ACB were declared outside the purview of ACB. **2** students left the Institute and **74** new cases came under the purview of ACB at the end of First Semester 2018-2019. The total number of students who are under the purview of ACB at the beginning of Second Semester 2018-2019 is **135**.

The details are given below:	No. of Students
Under the purview of ACB at the beginning of First Semester 2018 – 2019	120
Declared outside the purview of ACB at the end of First Semester 2018 – 2019	57
Left the Institute	2
Continue to be under the purview of ACB	61
New cases referred to ACB at the end of First Semester 2018 – 2019	74
Under the purview of ACB during Second Semester 2018-2019	135

I Semester 2019 – 2020

There were **135** students under the purview of the Academic Counselling Board (ACB) at the beginning of the Second Semester 2018 - 2019. At the end of Summer Term 2018 - 2019, **96** students who have fulfilled the minimum academic requirements as per the Academic Regulations and the stipulations laid down by the ACB were declared outside the purview of ACB. **11** students left the Institute at the end of Summer Term 2018-2019 and **50** new cases came under the purview of ACB at the end of Summer Term 2018-2019. The total number of students who are under the purview of ACB at the beginning of First Semester 2019-2020 is **78**.

The details are given below:	No. of Students
Under the purview of ACB at the beginning of Second Semester 2018 – 2019	135
Declared outside the purview of ACB at the end of Summer Term 2018 – 2019	96
Left the Institute	11
Continue to be under the purview of ACB	28
New cases referred to ACB at the end of Summer Term 2018 – 2019	50
Under the purview of ACB during First Semester 2019-2020	78

B3.8 AWARD OF DEGREES

Convocation was conducted on Sunday 04th August, 2019, the Vice Chancellor Prof. Souvik Bhattacharyya have participated in the Convocation of the campus for award of various degrees (First Degree (744), Higher Degree (147) and Ph.D (31)) to 922 students.

LIST OF INTEGRATED FIRST DEGREE PROGRAMMES FOR AWARD OF MEDALS

S.No.	Name and ID No	CGPA Obtained	Position Obtained	Type of Medal to be Awarded
1	ANIRUDH SRINIVASAN, 2015A7TS0382H	9.96	FIRST	GOLD
2	V THEJAS, 2015A7TS0142H	9.82	SECOND	SILVER
3	BHAVSAR NEEL HITESHBHAI, 2015A7PS0014H	9.77	THIRD	BRONZE
4	SANGI MANISH RAO, 2015A7PS0235H	9.77	THIRD	BRONZE

During the year, a total of 922 students graduated and the details are as follows:

S.No	Programmes	B.E. (Hons.)	M.Sc. (Hons.)	M.Sc. (Tech.)	H.D.	Ph. D	Total
First Degree							
1.	Chemical Engineering	51	-	-	-	-	51
2.	Civil Engineering	53	-	-	-	-	53
3.	Electrical & Electronics Engineering	73	-	-	-	-	73
4.	Mechanical Engineering	72	-	-	-	-	72
5.	B. Pharmacy	19	-	-	-	-	19
6.	Computer Science Engineering	146	-	-	-	-	146
7.	Electronics and Instrumentation	36	-	-	-	-	36
8.	Electronics and Communication	81	-	-	-	-	81
9.	Manufacturing Engineering	31	-	-	-	-	31
10.	Biological Sciences	-	24	-	-	-	24
11.	Chemistry	-	30	-	-	-	30
12.	Economics	-	52	-	-	-	52
13.	Mathematics	-	43	-	-	-	43
14.	Physics	-	33	-	-	-	33
	Sub-Total	562	182	-	-	-	744

S.No	Programmes	B.E. (Hons.)	M.Sc. (Hons.)	M.Sc. (Tech.)	H.D.	Ph. D	Total
Higher Degree							
15.	M.E. (Chemical Engineering)	-	-	-	7	-	7
16.	M.E. (Computer Science)	-	-	-	18	-	18
17.	M.E. (Mechanical)	-	-	-	12	-	12
18.	M.E. (Microelectronics)	-	-	-	12	-	12
19.	M.E. (Communication Engineering)	-	-	-	12	-	12
20.	M.E. (Biotechnology)	-	-	-	15	-	15
21.	M.E. (Civil with specialization in Transportation Engineering)	-	-	-	7	-	7
22.	M.E. (Design Engineering)	-	-	-	14	-	14
23.	M.E. (Civil with specialization in Structural Engineering)	-	-	-	12	-	12
24.	M. Pharm.(with specialization in Pharmaceutics)	-	-	-	18	-	18
25.	M.E.(Mechanical with specialization in Thermal Engineering)	-	-	-	10	-	10
26.	M.E. (Computer Science with specialization in Information Security)	-	-	-	10	-	10
Sub-Total							147
Ph.D		-	-	-	-	31	31
Grand Total							922

B3.9 CAMPUS INTERVIEWS AND PLACEMENT

Number of companies which conducted campus interviews	202
Number of interviews	8069
Number of offers made	773

The discipline-wise statistics and the list of organizations which conducted campus interviews during the year are given in **Annexure 5 (Part B3)**.

B3.10 Department-wise report

B3.10.1 Department of Biological Sciences

Number of faculty members

Senior Professors, Professors	03
Associate Professors	04
Assistant Professors	08
Lecturers	0
Visiting Faculty	0

Head of the Department : Prof K. Naga Mohan
Contact details : Email: kommumohan@gmail.com
 mohankn@hyderabad.bits-pilani.ac.in

Number of PhD Scholars : 38

Full Time : 30

Part Time : 08

1. SPONSORED RESEARCH AND CONSULTANCY

PROJECTS SANCTIONED

A. Government Sanctioned

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Deciphering the role of host-microbiota derived bile acids in programming immune cell function during intestinal inflammation	Biology	Dr. Trinath Jamma	-	CSIR	-	19,65,000
2	Probing the functional and regulatory role of m6A reversible RNA methylation in skeletal myogenesis and muscle wasting	Biology	Dr Piyush Khandelia	-	DST-SERB	-	55,58,360
3	Elucidating the role of long non coding RNAs (lncRNAs) in neuronal cell death during Japanese Encephalitis (JE)	Biology	Vivek Sharma	-	DBT	-	68,76,000

B. Industry Sanctioned Projects - NIL -

C. International Sanctioned Projects - NIL -

D. Institute Sanctioned Projects - NIL -

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Mechanistic basis of abnormal neurogenesis due to HSN1E-associated DNA methyltransferase 1 (Dnmt1) mutation and pharmacological intervention for phenotypic correction	Biology	Dr. Kommu Naga Mohan	-	DBT	-	68,40,000
2	Harnessing mucosal immunity towards improved resistance against tuberculosis.	Biology	Dr. Ruchi Jain Dey	-	DBT-Ramalinga-swamy Fellowship	-	32,50,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
3	Protein structure and stability modulation due to In-Cell and In-Vitro Crowding: Molecular insights on the origin of the effects of crowding	Biology	Ramakrishna Vadrevu	-	DST	-	54,00,000
4	Sequence based design and characterization of peptide-amyloid nano material: Exploring functionality	Biology	Ramakrishna Vadrevu	-	BRNS	-	29,70,000
5	Identification of the regulatory mechanisms executed by bile acids during inflammation induced colon cancer	Biology	Dr. Trinath Jamma	-	DST-SERB ECRA	-	43,00,000
6	Conditional pathogenesis: understanding why potentially beneficial rhizobacteria turn pathogenic under certain environmental conditions.	Biology	Dr. Sridev Mohapatra	-	DBT	-	45,00,000
7	Epigenetics of megabase-scale rRNA gene regulation and genomic instability of rDNA and telomeres	Biology	Dr. Gireesha T.M.	-	DST-SERB	-	38,00,000
8	Understanding the role of long non-coding RNAs (lncRNAs) in transforming growth factor-beta (TGF- β) pathway in Glioblastoma	Biology	Dr. Vivek Sharma	-	DST-SERB	-	47,00,000

B. Ongoing Industry Projects - NIL -

C. Ongoing International Sanctioned Projects - NIL -

D. Ongoing Institute Projects - NIL -

3. COMPLETED PROJECTS

A. Completed Government Projects - NIL -

B. Completed Industry Projects - NIL -

C. Completed International Projects - NIL -

D. Completed Institute Projects - NIL -

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

- Imran Khan, R. Ganesan and Jayati Ray Dutta*, Probiotic Lipase derived from *Lactobacillus plantarum* and *Lactobacillus brevis* for Biodiesel Production from Waste Cooking Olive Oil: An Alternative Feedstock. *International Journal of Green Energy*, Taylor & Francis. <https://doi.org/10.1080/15435075.2019.1688157>, Nov, 2019.
- Almas Shamaila Mohammed, Ravikiran Nagarjuna, Mahammad Nanne Khaja, Ramakrishnan Ganesan, Jayati Ray Dutta*, Effects of Free Patchy Ends in ssDNA and dsDNA on Gold Nanoparticles in a Colorimetric Gene Sensor for Hepatitis C Virus RNA. *Microchimica Acta*, 186, August, 2019, pp. 566-576. <https://doi.org/10.1007/s00604-019-3685-1>.
- Narayana Penta and Jayati Ray Dutta*, Enhanced production of *Shigella flexneri* polysaccharide from a newly devised silicate method as a potential vaccine conjugate, *Current Microbiology*, 76(12), pp. 1398-1406, Springer Nature, DOI: 10.1007/s00284-019-01780-y, Oct, 2019.
- Imran Khan, Ravikiran Nagarjuna, Jayati Ray Dutta* and R. Ganesan*, Enzyme embedded degradation of Poly(ϵ -caprolactone) using lipase derived from probiotic *Lactobacillus plantarum*. *ACS Omega*, 4, Feb, 2019, pp. 2844-2852. DOI: 10.1021/acsomega.8b02642.
- Imran Khan, Ravikiran Nagarjuna, Jayati Ray Dutta* and R. Ganesan*, Towards single crystalline, highly monodisperse and catalytically active gold nanoparticles capped with probiotic *Lactobacillus plantarum* derived lipase, *Applied Nanoscience*, Springer, 9(5), July, 2019, pp. 1101-1109. <https://doi.org/10.1007/s13204-018-0735-7>
- Yamini Rakesh Nikhariya and Jayati Ray Dutta*, Probiotic strains for biofilm associated infections, *Emerging concepts in Bacterial Biofilms: Molecular mechanism and control strategies* published by Cambridge Scholars Publishing Ltd, England, UK, 2019.

7. S. K. Rahaman, Jayati Ray Dutta, Arkamitra Kar and Mohna Bandyopadhyay, Investigating the Growth of Microbial Colonies in Cement Paste to Aid in Concrete Repair, Vol. 46, Kaustubh Dasgupta et al. (Eds): Proceedings of SECON'19, 978-3-030-26364-5, 481018_1_En, (24), 2019, Springer Nature publisher.
8. Hang S, Paik D, Yao L, Kim E, Jamma T, Lu J, Ha S, Nelson BN, Kelly SP, Wu L, Zheng Y, Longman RS, Rastinejad F, Devlin AS, Krout MR, Fischbach MA, Littman DR, Huh JR. Bile acid metabolites control TH17 and Treg cell differentiation. *Nature*. 2019;576(7785):143-148.
9. Reddy VS, Trinath J, Reddy GB. Implication of homocysteine in protein quality control processes. *Biochimie*. 2019;165:19-31.
10. Trinath J, Bayry J. Current trends with FOXP3+ regulatory T cell immunotherapy to contest autoimmunity and inflammation. *Immunotherapy*. 2019;11(9):755-758.
11. Daipayan Ghosh*, Anshika Gupta*, Sridev Mohapatra. 2019. A comparative analysis of exopolysaccharide and phytohormone secretions by four drought-tolerant rhizobacterial strains and their impact on osmotic-stress mitigation in *Arabidopsis thaliana*. *World Journal of Microbiology and Biotechnology*. 35:90. * Equal contribution.
12. Daipayan Ghosh, Anshika Gupta, Sridev Mohapatra. 2019. Dynamics of endogenous hormone regulation in plants by phytohormone secreting rhizobacteria under water-stress. *Symbiosis*. 77(3): 265-278
13. Aaron N. Bruns*, Sizhun Li*, Gireesha Mohannath and David M. Bisaro. Phosphorylation of *Arabidopsis* eIF4E and eIF5o4E by SnRK1 Inhibits Translation. (2019). *FEBS Journal*. 286(19): 3778-3796.
(* Equal contribution)
- Highlighted as the Editor's choice: (2019) *FEBS Journal*. 286(19).
- Highlighted in the commentary article: Miller and Dinesh-Kumar. 'A new mechanism for translational control in plants'. (2019) *FEBS Journal*. 286(19): 3775-3777.
14. Elechalawar CK*, Bhattacharya D*, Ahmed MT, Ravuri HG, Sridharan K, Chaturbedy P, Sinha SH, Jaggarapu MMCS, Narayan KP, Chakravarty, Eswaramoorthy M, Kundu T and Banerjee RK (2019) Dual targeting of folate receptor-expressing glioma tumor-associated macrophages and epithelial cells in brain using carbon nanosphere-cationic folate nanoconjugate *Nanoscale Adv.*, 2019, DOI: 10.1039/C9NA00056A (*Equal contribution)
15. Anurag Gautam, Komal P and Ram S. Singh (2019) Future demands for high field MRI diagnostic *Journal of chemical sciences* Vol.131:89.
16. Anurag Gautam and Komal P (2019) Synthesis of montmorillonite clay/poly (vinyl alcohol) nanocomposites and their mechanical properties *Journal of nanoscience and nanotechnology* Vol. 19, 1–7.
17. Mohan KN, Cao Y, Pham J, Cheung SW, Hoffner L, Ou ZZ, Surti U, Cook EH, Beaudet AL. Phenotypic association of 15q11.2 CNVs of the region of breakpoints 1-2 (BP1-BP2) in a large cohort of samples referred for genetic diagnosis. *J Hum Genet*. 2019 Mar;64(3):253-255. doi: 10.1038/s10038-018-0543-7. Epub 2018 Dec 12. PubMed PMID: 30542208.
18. Mohan KN. Stem Cell Models to Investigate the Role of DNA Methylation Machinery in Development of Neuropsychiatric Disorders. *Stem Cells Int*. 2016;2016:4379425. doi: 10.1155/2016/4379425. Epub 2015 Dec 20. Review. PubMed PMID: 26798355; PubMed Central PMCID: PMC4699075.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

1. Almas Shamaila Mohammed, Ravikiran Nagarjuna, Mahammed Nanne Khaja, Ramakrishnan Ganesan and Jayati Ray Dutta, HCV detection using non-functionalized gold nanoparticles - "Nonthiolated vs. thiolated probes comparison, National Symposium on Convergence of Chemistry and Materials - 2019 (CCM-2019), December 17-18, BITS-Hyderabad, India.
2. Narayana PVSLSS, Jayati Ray Dutta, Conjugation and Purification of *Shigella flexneri* polysaccharide and CRM197 protein derivatized with ADH linker, National Symposium on Convergence of Chemistry and Materials - 2019 (CCM-2019), December 17-18, BITS-Hyderabad, India.
3. Naga Sai Sriteja B., Yamini Rakesh Nikhariya, S Hrishikesh, Akash Arora and Jayati Ray Dutta, Lipase mediated Polycaprolactone degradation derived from probiotic sources, National Symposium on Convergence of Chemistry and Materials - 2019 (CCM-2019), December 17-18, BITS-Hyderabad, India.
4. B. Radha Kiranmaye, Jayati Ray Dutta, Arkamitra Kar*, Chandu Parimi, Sridhar Raju, Optimization of growth parameters of *Pseudomonas alcaligenes* for Crack healing in Concrete, "2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), November 20-22, 2019, Dubai, UAE, (Oral presentation).

5. Sk Rahaman, Jayati Ray Dutta, Arkamitra Kar, Mohna Bandyopadhyay, Investigating the growth of microbial colonies in cement paste to aid in concrete repair, "T9900hird National Conference on Structural Engineering & Construction Management"- SECON' 19, 15-16, May, 2019, Kerala, India.
6. Dingxia Feng, Chinmayi Chandrasekhara, Gireesha Mohannath and Craig S. Pikaard. Delimiting NOR on/off Switch Elements via Recombination and Chromosome Engineering in: Emerging roles for the nucleolus- American Society for Biochemistry and Molecular Biology (ASBMB) meeting 2019, Kansas City, MO, USA. (Oral presentation)
7. Gireesha Mohannath, Gargi Prasad S., Aveepsha Bera and Snigdha Ghosh. Genome editing to create novel epigenetic variation for next-generation crop improvement in: National conference on integrative Plant Biochemistry and Biotechnology (NCIPBB), November 8-9, 2019, Hyderabad, India. (Oral presentation)
8. Gireesha Mohannath. (Lead Talk): Recent advances in Plant Biotechnology in: National conference on Current Status and Future Prospects of Biotechnology, 2019, November 15-16, Hyderabad, India.
9. Gargi Prasad S., Aveepsha Bera and Gireesha Mohannath. Structure-function analysis of Histone Deacetylase 6 (HDA6) in ribosomal RNA gene regulation and in maintaining genomic stability in Arabidopsis thaliana in: National conference on Current Status and Future Prospects of Biotechnology, November 15-16, 2019, Hyderabad, India. (Oral presentation).
10. Aveepsha Bera, Snigdha Ghosh, Gargi Prasad S. and Gireesha Mohannath. Role of Chromatin Assembly Factor-1 (CAF-1) in ribosomal RNA gene regulation and in maintaining genomic instability in Arabidopsis thaliana in: National conference on Current Status and Future Prospects of Biotechnology, November 15-16, 2019, Hyderabad, India. (Oral presentation)
11. Gireesha Mohannath, Gargi Prasad S., Rahul Kumar and Snehasri Motamarry. Role of ADK and APT1 in SnRK1-mediated Cellular Stress Response and Antiviral Defense in: National conference on integrative Plant Biochemistry and Biotechnology (NCIPBB), November 8-9, 2019, Hyderabad, India. (Poster presentation).
12. Gireesha Mohannath, Gargi Prasad S., Rahul Kumar and Snehasri Motamarry. Role of ADK and APT1 in SnRK1-mediated Cellular Stress Response and Antiviral Defense in: National conference on Current Status and Future Prospects of Biotechnology, November 15-16, 2019, Hyderabad, India. (Poster presentation)
13. Gireesha Mohannath, Gargi Prasad S. and Craig S. Pikaard. Epigenetics of Ribosomal RNA (rRNA) gene regulation and their genome stability in Arabidopsis in: Young Investigators Meeting (YIM) 2019, Guwahati, India. (Poster presentation: As a selected Young Investigator).
14. Trinath Jamma. Selected and attended Young Investigator Meeting-2019, Guwahati, Assam
15. Shifa Kotwal Bushra, Trinath Jamma. National Conference on Present and Future Prospects of Biotechnology, Nizam College, Hyderabad. (Nov, 2019)
16. P. Khandelia. Attended ACS on Campus, IICT, Hyderabad, February 7, 2019
17. P. Khandelia. Attended 7th Indian Peptide Symposium, BITS Pilani, Hyderabad, February 28 - March 1, 2019
18. P. Khandelia K. Yap and E.V. Makeyev. Streamlined platform for short hairpin RNA interference and transgenesis in cultured mammalian cells. 10th RNA Group Meeting, RGCB, Thiruvananthapuram, May 2-4, 2019 (Poster presentation)
19. Karthiya R and P Khandelia. Uncovering the role of reversible m6A methylation in skeletal myogenesis and muscle wasting. 88th Annual Meeting SBCI, BARC, Mumbai, October 31 - November 3, 2019 (Poster presentation)
20. Narayan KP. Attended ACS on Campus, IICT, Hyderabad, February 7, 2019
21. Bharati MR, Bhattacharya DP, Mohan KN and Narayan KP. Saponins from plants under Indian agro-climatic condition as candidate for vaccine adjuvant. International Conference on Advances in Chemical Biology and Biologics (ICACB, 2019) (CSIR-IICT Platinum Jubilee) from Feb 28 to March 2, 2019 at CSIR-IICT, Hyderabad.
22. Bharati MR, Mohan KN and Narayan KP. Saponins as diverse and dynamic molecules for immunomodulation and anticancer activity. International Chemical Biology Society (ICBS) 8th Annual Conference on Navigating Translational Discoveries from 2nd to 4th Nov., 2019 at CSIR-IICT, Hyderabad.
23. Bhattacharya DP, Akshaya VP, Bharati MR and Narayan KP. Utilization of saponins for the formulation of gene delivery system. International Chemical Biology Society (ICBS) 8th Annual Conference on Navigating Translational Discoveries from 2nd to 4th Nov., 2019 at CSIR-IICT, Hyderabad.
24. Kalyani S, Akshaya VP, Bharati MR, Bhattacharya DP and Narayan KP. Synthesis of plant based nano particle for antimicrobial and anticancer activity of the oral cavity. International Chemical Biology Society (ICBS) 8th Annual Conference on Navigating Translational Discoveries from 2nd to 4th Nov., 2019 at CSIR-IICT, Hyderabad.

25. Sanghamitra S, Deshmukh SS, Narayan KP. Effects of alternate nutrient medium on microalgae biomass and lipid production as a bioenergy source for fuel production. 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IIMT 2019), November 20-22, 2019, Dubai, UAE.
26. Vivek Sharma. Attended 7th Indian Peptide Symposium, BITS Pilani, Hyderabad, February 28 - March 1, 2019.
27. Vivek Sharma. LncRNAs in DNA repair. 10th RNA Group Meeting, RGCB, Thiruvananthapuram, May 2-4, 2019.
28. Bakhshyree GB and Vivek Sharma. Genome wide screening of transforming growth factor- β (TGF- β) regulated long non-coding RNA (lncRNA) in Glioblastoma multiforme (GBM) 88th Annual Meeting SBCI, BARC, Mumbai, October 31 - November 3, 2019 (Poster presentation).
29. Manjari SKV, Sanjana Srinivas, Sathwik P G and Pragya Komal Vitamin D3 supplement rescues motor disability in 3-nitropropionic acid induced mouse model of Huntington's disease, 37th Annual Meeting of Indian Academy of Neurosciences (IAN), AIIMS, New Delhi 21-15th Nov, 2019.
30. Pragya Komal, Manjari S K V, Anurag Gautam, Neuroprotective Role of TNF α -loaded Ln³⁺-based Upconversion Nanoparticles in Mouse Model of Huntington's Disease, 10th International Brain Research Organization world congress of neurosciences, Daegu, South Korea, 21st -25th Sept-2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED - NIL -

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT - NIL -

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Narayan KP. Effects of alternate nutrient medium on microalgae biomass and lipid production as a bioenergy source for fuel production. 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IIMT 2019), November 20-22, 2019, Dubai, UAE.
2. Gireesha Mohannath. (Lead Talk): Recent advances in Plant Biotechnology in: National conference on Current Status and Future Prospects of Biotechnology, 2019, November 15-16, Hyderabad, India.
3. Gireesha Mohannath. Epigenetic regulation and genomic instability of ribosomal RNA (rRNA) genes in plants and human cancers, at IIIT-Hyderabad, India (April 2019).
4. Gireesha Mohannath. Regulation and instability of ribosomal RNA (rRNA) genes in plants and human cancers, at CSIR-NEIST, Jorhat-India (March 2019)
5. Gireesha Mohannath. Plant-based "breakthrough technology" viral vector system to overexpress and purify prokaryotic and eukaryotic proteins at CSIR-NEIST, Jorhat-India (March 2019).
6. Gireesha Mohannath. Mentor talk to students and research fellows: Tips for short oral presentations, at CSIR-NEIST, Jorhat-India (March 2019).
7. Gireesha Mohannath. Revisiting the Central Dogma of Molecular Biology from Epigenetic Perspective at Bhavan's Vivekananda College, Hyderabad-India (February 2019).
8. Vivek Sharma. LncRNAs in DNA repair. 10th RNA Group Meeting, RGCB, Thiruvananthapuram, May 2-4, 2019.
9. Pragya Komal, Adolescent and Nicotine: Can Technology Help Quit Smoking; International winter institute in global health, WIGH-BITS-Pilani, Hyderabad Jan 8th-17th 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

Arranged by Gireesha Mohannath as faculty coordinator of Synapsis:

1. Title: Spatiotemporal Dynamics of 3-D Genome Architecture and Gene Expression During Cellular Differentiation
Speaker: Dr. Sreenivasulu Kurukuti, Professor, Department of Animal Biology, School of Life Sciences, University of Hyderabad (September 2019)
2. Title: From histone methylation to chromosome congression: Novel roles for MLL in mitosis.
Speaker: Dr. Shweta Tyagi, Head, Laboratory of Cell Cycle Regulation, Centre for DNA fingerprinting and Diagnostics, Hyderabad (September 2019)
3. Title: Watching '3R's (DNA replication, repair and recombination) of life' at single-molecule level
Speaker: Dr. Theetha Pavankumar, Postdoctoral Fellow, UC Davis, USA (October 2019)

4. Title: The Double Life of Flowering Plants: Control of the Sporophyte to Gametophyte Transition by the *SHUKR* Gene of *Arabidopsis*
Speaker: Dr. Imran Siddiqi, JC Bose Fellow, Centre for Cellular and Molecular Biology, Hyderabad (October 2019)
5. Title: Cell-adhesion based mitotic regulations and the study of mice TERB1 MYB domain during meiosis
Speaker: Dr. Deepesh Gupta, Postdoctoral Fellow, University of Gothenberg, Sweden (November 2019)
6. Title: Intracellular Parasitism 101: Survival strategies of a eukaryotic cell inhabiting another eukaryotic cell
Speaker: Dr. Nishith Gupta, Research Group Leader, Humboldt-Universität zu Berlin, HU Berlin · Institute of Biology, Faculty of Life Sciences (November 2019)

10. AWARDS AND RECOGNITIONS

1. Best Poster Award Bharati MR, Bhattacharya DP, Mohan KN and Narayan KP. Saponins from plants under Indian agro-climatic condition as candidate for vaccine adjuvant. International Conference on Advances in Chemical Biology and Biologics (ICACB, 2019) (CSIR-IICT Platinum Jubilee) from Feb 28 to March 2, 2019 at CSIR-IICT, Hyderabad.
2. Best Oral Presentation award. Gireesha Mohannath, Gargi Prasad S., Aveepsha Bera and Snigdha Ghosh. Genome editing to create novel epigenetic variation for next-generation crop improvement in: National conference on integrative Plant Biochemistry and Biotechnology (NCIPBB), November 8-9, 2019, Hyderabad, India.
3. Best Oral Presentation award. Gargi Prasad S., Aveepsha Bera and Gireesha Mohannath. Structure-function analysis of Histone Deacetylase 6 (HDA6) in ribosomal RNA gene regulation and in maintaining genomic stability in *Arabidopsis thaliana* in: National conference on Current Status and Future Prospects of Biotechnology, November 15-16, 2019, Hyderabad, India.
4. Best Poster award. Gireesha Mohannath, Gargi Prasad S., Rahul Kumar and Snehasri Motamarri. Role of ADK and APT1 in SnRK1-mediated Cellular Stress Response and Antiviral Defense in: National conference on integrative Plant Biochemistry and Biotechnology (NCIPBB), November 8-9, 2019, Hyderabad, India.
5. Best Poster award, Manjari SKV, Sanjana Srinivas, Sathwik P G and Pragya Komal Vitamin D3 supplement rescues motor disability in 3-nitropropionic acid induced mouse model of Huntington's disease, XXXVII Annual Meeting of Indian Academy of Neurosciences (IAN), AIIMS, New Delhi 21-15th Nov, 2019.
6. Pragya Komal, Recipient of international brain research organization (IBRO) world congress travel grant award for IBRO-meeting, Daegu, South Korea, 2019.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

Gireesha Mohannath:

1. Laboratory of Prof. Craig S. Pikaard, Howard Hughes Medical Institute, Departments of Biology and Molecular and Cellular Biochemistry, Indiana University, USA.
2. Laboratory of Prof. Venkat Gopalan, Department of Chemistry and Biochemistry, The Ohio State University, USA
3. Laboratory of Prof. David M. Bisaro, Department of Molecular Genetics, The Ohio State University, USA
4. Laboratory of Dr. Todd Blevins, CNRS-UPR2357, Institut de Biologie Moléculaire des Plantes, Strasbourg cedex, France
5. Dr. Artem Babaian, Terry Fox Laboratory, British Columbia Cancer Agency/Department of Medical Genetics, University of British Columbia, Vancouver, Canada

12. PATENTS FILED/PUBLISHED AND GRANTED

- NIL -

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

Pragya Komal

1. Serving member of DCA 2018 Aug-December; serving member of DCA from Aug-2019
2. Serving member of academic counselling cell (ACC)-BITS-Hyderabad 2018-Continued

Jayati Ray Dutta

1. Serving as member of DCA
2. Serving as nucleus member of SRCD

Gireesha T. Mohannath

1. Synopsis Faculty coordinator. Under synopsis several activities have been initiated to benefit both the faculty members and the students of the department. One major activity is arrangement of research talks by external and internal speakers (Since 2018)
2. Serving member of DAC (2019)
3. Serving member of Library committee (2019)
4. Serving member of Academic Counselling Cell (ACC)-BITS-Hyderabad (2019)

Trinath Jamma

1. Serving as member of DRC
2. Serving member of Academic Counselling Cell (ACC)-BITS-Hyderabad **2019**

Ruchi Jain Dey

1. Serving as DCA member 2017-till date

Piyush Khandelia

1. Serving as member of DCA
2. Serving as placement coordinator

Vivek Sharma

1. Serving as DRC member 2019
2. Serving as member Purchase Committee

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

Major maintenance, renovations or new construction reports:

1. Plant Biotechnology Lab Room No: B307
2. Central Facility Lab Room No: B308
3. Infectious Diseases Lab Room No: B309
4. RNA Biology Lab Room No: B310

Major equipment acquired during the year:

1. NanoDrop One C Micro volume UV-Vis Spectrophotometer
2. Speed VAC Concentrator
3. Liquid Nitrogen Containers
4. Galaxy 170 S CO₂ Incubator
5. Premium U410 Upright Freezer, -86°C
6. NucleofectorTM 2b Device
7. Magnus zoom stereo trinocular microscope
8. Millipore unit
9. CO₂ Incubator
10. Thermomixer
11. Muffle Furnance Chamber
12. Refrigerated Orbital Shaking Incubator
13. Significant new equipment/experimental facility added during the year
14. Plant growth rooms
15. Bioruptor

B3.10.2 Department of Chemical EngineeringNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	1
Associate Professors	5
Assistant Professors	5
Lecturers	1
Visiting Faculty	1
Visiting Assistant Professors	1

Head of the Department : Dr. Srikanta dinda

Contact details : 040 - 66303586

Number of Ph.D. Scholars : 17

Full Time : 12

Part Time : 5

Aspirant Scheme : 0

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1.	P. Madhuri	2013PHXF101H	Study of Pulp Characteristics after Cooking and Bleaching for optimization of Process parameters.	Dr. Rameshbabu A	Dr. Asma Ahmed
2.	PATHI SURESH	2013PHXF511H	“Process and Engineering Studies on Wet Granulation”	Dr. I. Sreedhar	Dr. Vikranth K. Surasani
3.	LAKSHMI SIRISHA P	2013PHXF600H	Development of an environmental friendly process for the production of biofuels and value added products from Lignocellulosic biomass residues	Dr. Asma Ahmed	Dr. I. Sreedhar
4.	K. Chandrakala	2014PHXF404H	Thermo-Mechanical Characterization of Human Hair Fibres.	Dr. Rameshbabu A	Dr. Karthik Chetan V.
5.	B.Madhavi	2014PHXF408H	Development of Novel Bioelectrodes for Enzymatic Biofuel Cell	Prof: Balaji Krishnamurthy	Dr Vikranth K. Surasani & Prof: Sanket Goel

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned in INR
1	Waste minimization and carbon capture with coal flyash doped sorbents-a two edged sword	Chem. Engg	Dr. I. Sreedhar	-	CSIR	-	18,80,000
2	Modeling the capacity loss in lithium ion batteries during cycling	Chem. Engg	Dr. Balaji K.	Dr. Vikranth K.Surasani	CSIR	-	23,50,000
3	Designing of potential adsorbent via molecular modelling and simulation for the high temperature CO	Chem. Engg	Dr. Angan Sengupta	-	DST	-	22,00,000

B. Industry Sanctioned Projects - NIL -

C. International Sanctioned Projects - NIL -

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1.	Underwater Superoleophobic Surfaces for Oil/Water Separation	Chem.Engg	Dr. Nandini Bhandaru	-	ACRG	-	9,50,000
2.	"Synthesis of core-shell nanoparticles (CSNs) for photocatalytic reforming"	Chem.Engg	Dr. Satyapaul A. Singh	-	ACRG	-	10,00,000

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Composition of phenolic resin from two sources for their properties	Chem.Engg	Dr. Karthik C. V	Dr. Rameshbabu A	ASL (DRDO)	-	9,79,000
2	Reactive transport modeling & simulation of CO ₂ sequestration in deccan volcanic province	Chem.Engg	Dr. Vikranth K. Surasani	Dr, Balaji K	DST	-	21,74,000
3	Cracking of hydrocarbon fuel for a possible heat sink application	Chem.Engg	Dr. Srikanta Dinda	-	DRDL (DRDO)	-	40,65,000
4	Development of superomniphobic surfaces for self cleaning and anti-microbial applications	Chem.Engg	Dr. Nandini Bhandaru	-	DST-Inspire	-	35,00,000

B. Ongoing Industry Projects - NIL -

C. Ongoing International Sanctioned Projects - NIL -

D. Ongoing Institute Projects - NIL -

3. COMPLETED PROJECTS

A. Completed Government Projects - NIL -

B. Completed Industry Projects - NIL -

C. Completed International Projects - NIL -

D. Completed Institute Projects - NIL -

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty in Journals

1. Sengupta, Optimal Safe Layout of Fuel Storage Tanks Exposed to Pool Fire: One Dimensional Deterministic Modelling Approach, Fire Technology, 50, 1-29, 2019.
2. R. Kareemi and B. Krishnamurthy, Modeling the concentration of gases in the anode of a Direct Carbon fuel cells, Journal of Electroanalytical Chemistry, 834,167-172, 2019.
3. M. Bandapathi, P. Rewatkar, B. Krishnamurthy and S. Goel, Functionalized and enhanced HB pencil graphite as bio anode for glucose oxygen bio fuel cells, IEEE sensors, 3, 802-811, 2019.

4. M. Bandapati, B. Krishnamurthy and S. Goel, Fully assembled membraneless glucose bio fuel cells with MWCNT modified Pencil graphite leads as novel bio electrodes IEEE transaction on Nanobioscience, 18, 170-175, 2019.
5. M. Bandapati, S. Goel and B. Krishnamurthy, A review of catalyst utilization in PEM and Direct Methanol fuel cells, Accepted in Journal of Electrochemical Science and Engineering, DOI:10.5599/jese.665, 2019.
6. A. Singh and B. Krishnamurthy, Parametric modeling of microbial fuel cells, Accepted in Journal of Electrochemical Science and Engineering, DOI:10.5599/jese671, 2019.
7. S. Aparna and D. Purnima, Influence of PP content on mechanical properties, water absorption and morphology in PA6/PP blend, Journal of Applied Polymer Science, 136, 47690, 1-13, 2019.
8. Sreedhar, B. Agarwal, P. Goyal and S. A. Singh, Recent Advances in Material and Performance Aspects of Solid Oxide Fuel Cells, J. Electroanal. Chem. 848, 113315, 2019.
9. Sreedhar, Y. Varun, S. A. Singh and B. M. Reddy, Developmental Trends in CO₂ Methanation using various catalysts, Catal. Sci. Technol. 9, 4478-4504, 2019.
10. A. Sailaja, B. Srinivas, I Sreedhar, Electro-viscous effect of power law fluids in slit microchannel with asymmetric wall zeta potentials, Journal of Mechanics, 35, 537-547, 2019.
11. S. Sahoo, N. Bhandaru, R. Mukherjee, Reversible morphological switching and deformation hysteresis in electric field mediated instability of thin elastic films, Soft Matter, 15, 3828-3834, 2019.
12. M. Pydimalla, B. R. Muthyala and R. B. Adusumalli, Influence of temperature on kraft pulping of whole bagasse and depithed bagasse, Sugar Technology, DOI: 10.1007/s12355-019-00719-8, 2019.
13. M. Pydimalla, N. S. Reddy and R. B. Adusumalli, Characterization of subabul heartwood and sapwood pulps after cooking and bleaching, Cellulose Chemistry and Technology, 53, 479-492, 2019.
14. C. Kunchi, Karthik Chethan Venkateshan and R. B. Adusumalli, Nanoindentation of hair cortex and medulla regions, Fibers and Polymers, 20, 1538-1545, 2019.
15. S. A. Singh, S. Mukherjee and G. Madras, Role of CO₂ methanation into the kinetics of preferential CO oxidation on Cu/Co₃O₄, Mol. Catal. 466, 167-180, 2019.
16. S. Challagulla, S. Payra, C. Chakraborty, S. A. Singh, S. Roy, Understanding the role of catalytic active sites for heterogeneous photocatalytic oxidation of methanol and thermal reduction of NO_x, Mol. Catal. 476, 110505, 2019.
17. N.K.R. Eswar, S.A. Singh, J. Heo, Atomic Layer Deposited Photocatalysts: Comprehensive Review on Viable Fabrication Routes and Reactor Design Approaches for Photo-Mediated Redox Reactions, J. Mater. Chem. A 7, 17703-17734, 2019.
18. S. Dinda, P. Murge, B. Chakravarthy, A Study on Zeolite-Based Adsorbents for CO₂ Capture. Bulletin of Materials Science, 2019. 42, 240
19. G. Tom, D. Panda, V. K. Surasani, Lattice Boltzmann Simulations for Invasion Patterns during Drying of Capillary Porous Media, Chemical Engineering Science, 196, 310-323, 2019.
20. Premanath Murge, Srikanta Dinda, Sounak Roy. Zeolite-based Sorbent for CO₂ Capture: Preparation and Performance Evaluation, Langmuir, 2019, 35, 14751-14760.
21. B. Vishali, B. Venu, V. Vijay Kumar, G. Naresh, I Sreedhar, A. Venugopal, Unravel the surface active sites on Cu/MgLaO solid base catalyst by DRIFT spectroscopy and adsorption techniques for the synthesis of triazoles by click reaction, Journal of Molecular Catalysis, 476, 110523-110530, 2019.
22. D. Nath, Sai Kiran, P. Rewatkar, B. Krishnamurthy, S. Ganesh and S. Goel, E-coli fed paper based microfluidic microbial fuel cell with MWCNT composed bucky paper bioelectrodes, IEEE Transactions in Nanobioscience, 18, 510, 2019.
23. Sudeshna Patra, Pallavi Thakur, Bhaskar Soman, Anand B. Puthirath, Pulickel M. Ajayan, Santosh Mogurampelly, V. Karthik Chethan and Tharangattu N. Narayanan. Mechanistic insight into the improved Li ion conductivity of solid polymer electrolytes. 66, 2019.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

1. Premanath Murge, Srikanta Dinda, MgO Promoted Carbonate Impregnated Activated Carbon for CO₂ Capture, CHEMCON-2019, Delhi, India, December 16-19, 2019.
2. Appala Naidu Uttaravalli, Srikanta Dinda, Application of Additives to Improve Ketonic Resin Properties, International Conference on Polymer Processing and Characterization (ICPPC), Kerala, India, 11-13 October, 2019, PP 2.
3. Ritwik Kinra, Premanath Murge, Srikanta Dinda, Amine Functionalized Zr Based Metal-Organic Framework for CO₂ Capture, Translational Research Trends in Process Engineering (TRTPE), Hyderabad, India, 26-27 June, 2019,
4. Appala Naidu Uttaravalli, Srikanta Dinda. Rheological Studies of In-House Developed Resin Material for Paint and Coating Applications. Advance Research and Technology in Chemical Engineering and its Allied Fields (ARTCHE), Hyderabad, India, 22-23 March, 2019.
5. Nandini Bhandaru, Gagandeep Kaur, Apurva Panjla and Sandeep Verma, Morphology Modulation in Self Assembly of Peptides by Spin Coating: From Nanodots to Fibers, 7th Indian Peptide Symposium, BITS Hyderabad, 2019.
6. Sharon Mariam Varughese, Nandini Bhandaru, Chemical Durability of Biomimetic Superhydrophobic Surfaces on Polymers, at The National Conference on "Advances in Chemical Engineering and Science (ACES-2019)", Chemical Engineering Department, IISER Bhopal, 7 - 8 March, 2019.
7. Sharon Mariam Varughese, Nandini Bhandaru, Durability of Polymer based Biomimetic Super Hydrophobic Surfaces, Advances in polymer science and rubber technology, IIT Kharagpur, 24-27 September, 2019.
8. Hithessh Augustus, Satyapaul A. Singh, "Fabrication of Nanocomposite Catalysts for Value Added Products" at The National Conference on "Advances in Chemical Engineering and Science (ACES-2019)" at Chemical Engineering Department, IISER Bhopal (7 - 8 March, 2019), Madhya Pradesh, India. (Best Oral Presentation Award)
9. Hithessh Augustus, Satyapaul A. Singh, "Photocatalytic Degradation Studies using Nanocomposite Catalysts" at The National Conference on "Advanced Research and Technology in Chemical Engineering and it's Allied Fields (ARTCHE-2019)" at Chemical Engineering Department, CBIT (22 - 23 March, 2019), Hyderabad, Telangana, India.
10. Angan Sengupta, "Prediction of Safe Distance Between Fuel Storage Tanks under Fire: One Dimensional Modelling Approach", Accepted for lecture and conference proceedings in Loss Prevention, 2019. Tu Delft, Netherlands.
11. Pritvinath Madduri and Angan Sengupta, "2-D Modelling of Jet Diffusion Rising Fire Plume", Advances in Chemical Engineering and Science, 2019, IISER Bhopal, India.
12. Nithin B. Kummamuru, Angan Sengupta and Srikanta Dinda, "Adsorption Study of Carbon Dioxide in 'L' Shaped Slit Pores at High Temperatures and Pressures using Monte Carlo Simulations", International Conference on Applied Energy, 2019, Sweden.
13. Nandini Bhandaru, "Confinement Induced Ordering of Instabilities in Multi-Component Thin Polymer Films", Young Scientist Conference, India International Science Festival (IISF), 5th-8th November 2019, Kolkata.
14. Satyapaul A. Singh: "Trends in Thermo and Photo-Catalytic Processes: Mechanistic Aspects of PrOx, Scope for ALD Based Reactors", World Summit on Catalysis Engineering and Technology (CatET- 2019) scheduled during November 12-13, 2019 at Valencia,
15. Rudresh Naik, Sneha Shetgar, D. Purnima, Surface treatment of jute fibre using eco-friendly method and its use in PP composites", Mohit Agrawal, , ICMPC-2019, 8-10 March, Hyderabad

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED - NIL -**7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT - NIL -**

8. INVITED TALKS GIVEN BY BITS FACULTY (Not in conference)

1. Dr. Sreedhar Inkollu: Invited Speaker at Department of Chemical Engineering, CBIT, Hyderabad on 6th September 2019 on "Importance of Chemical Process Calculations in Chemical Engineering Design".
2. Dr. Srikanta Dinda, invited talk on 'Journey of Oil Refinery: Past-Present-Future Configuration' on 13th March 2019, at B.V.R.I.T., Narsapur, Telangana.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Mr. Sanjay Jindal, Director Consulting Engineers Group, Jaipur interacted with Higher Degree students and Invited talk on 'Technological Advances on Coal and Pet Coke Gasification Crude Oil and Natural Gas processing' by Mr. Thomas Mathew, President – CoE Gasification, Reliance Industries Limited. (Held on 24th October, 2019)
2. Invited talk on " Biological Hazards, its Prevention and Control in the Military" by Captain Raghunath Reddy Army Medical Corps (AMC) (10 April, 2019)
3. Invited talk on "A brief introduction to molecular simulations and its application to gas hydrates" by Dr. Srikanth Ravipati, Imperial College London, UK. (8 February, 2019)
4. Invited talk on " Current Trends in Industrial Automation" by Mr. Srinivas D Yanaboina, Andritz, Bangalore. (1 March, 2019).

10. AWARDS AND RECOGNITIONS**a. Won by Faculty:**

1. Dr. Satyapaul A. Singh won Prof. N.R. Kuloor Memorial Award for best PhD thesis, IISc Bangalore. (12th September, 2019)

b. Won by Students:

1. Mr. Rajat Gupta won Padmasri Dr. B V Raju Memorial Best Merit Student Award. (7th July, 2019)
2. Mr. Hithesh Augustus and Mr. Prithvinath won Best oral presentation awards at The National Conference on "Advances in Chemical Engineering and Science (ACES-2019)" at Chemical Engineering Department, IISER Bhopal (7 - 8 March, 2019), Madhya Pradesh, India.
3. Mr. Aditya S Venkataraman; Mr. Prakhar Jain; Mr. Piyush Sharma won 3rd Prize in Padmasri B V Raju Memorial Technical QUIZ Competition (An IChE Event held on 21st February, 2019).
4. Ms. Vedika Y. Kulkarni won 1st Prize in Ramanathan Memorial ESSAY WRITING Competition (An IChE Event held on 21st February, 2019).

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION - NIL -**12. PATENTS FILED/PUBLISHED AND GRANTED - NIL -****13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES****Chemical Engineering Association:**

- a. Cataclysmic Deductions: This event requires participants to apply some technical knowledge related to industries. (Held on 19th October, 2019)
- b. Chem-E-Switch: In this event participants are supposed to develop a reaction vessel that breaks an electrical circuit in a given time. (Held on 19th October, 2019)
- c. Workshops: A 2-day workshop organized on Engineering simulation and 3D design software – ANSYS. (19th and 20th October, 2019)
- d. Student Mentorship Programs to teach students MATLAB

14. SIGNIFICANT (>3 lakhs) NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

- Contact Angle goniometer with Temperature Control
- Novascan UV / Ozone System

B3.10.3 Department of Chemistry**Number of faculty members**Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	03
Associate Professors	08
Assistant Professors	05
Lecturers	-
Visiting Faculty	-
Visiting Assistant Professors	-

Head of the Department : **Prof. Manab Chakravarty**
 Contact details : manab@hyderabad.bits-pilani.ac.in
 Number of Ph.D. Scholars : 50
 Full Time : 34
 Part Time : 16
 Aspirant Scheme :

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Zubair Khalid Baig	2014PHXF0409H	Exploration on Synthesis and Applications of Naphthalene and Anthracene-based Organophosphonates: Finding Aggregation-Induced Emission Active Fluorogens	Prof. Manab Chakravarty	-
2	Ms. Swapna Challagulla	2014PHXF0400H	deNO _x Catalysis: A Study on Rationalizing Materials' Properties and Reaction Performances	Prof Sounak Roy	-
3	Mr. Nagarjuna Ravi Kiran	2014PHXF0008H	Metal-Oxides (M _x O _y , where M = Ti, Al, Fe, Ta and W): Synthesis, Fabrication, Surface Functionalization and Applications in Catalysis	Prof. Ramakrishnan Ganeshan	-
4	Ms. Shweta Vinod	2014PHXF0403H	Detailed Investigation of Nanoscale Light-Matter Interaction for Useful Sensing Applications	Prof. Amit Nag	-
5	Mr. Srinivasa Rao	2014PHXF0002H)	Design, Synthesis and Biological Activity of Novel Heterocyclic Compounds as Inhibitors of Bacterial Quorum Sensing and Tuberculosis	Prof. K V G Chandrasekhar	-
6	Mr. T. Uday Kumar	2013PHXF0405H	Synthetic studies on nitrogenated fused heterocycles and their applications	Prof Anupam Bhattacharyya	-
7	Ms. Karuna Anna Sajeewan	2015PHXF0404H	Structural and Functional Characterization of Animal Venom Toxin using computer simulations	Dr. Durba Roy	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Beta-Glucan-Cholesterol interaction-MD simulation	Chemistry	DURBA ROY	-	SERB	-	36,70,000
2	Mechanofluorochromic Materials	Chemistry	Manab Chakravarty	-	SERB	-	28,80,000
3	DST Inspire Fellowship	Chemistry	Chanchal Chakraborty	-	DST INSPIRE	-	35,00,000
4	DST Inspire Faculty award	Chemistry	Amit A. Vernekar	-	DST	-	35,00,000
5	Women Scientist (Dr. Atasi Mukherjee Under Prof. Manab Chakravarty)	Chemistry	Manab Chakravarty	-	WOS	-	31,55,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Preparation and characterization of electrode material for Lithium ion Batteries	Chemistry	Sounak Roy	-	HBL Power Systems Limited	-	7,00,000
2	Zinc Air Battery	Chemistry	Sounak Roy	Chanchal Chakraborty	HBL	-	13,50,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Develop of novel anti-leishmanial analogues loaded with novel nano-formulations	Chemistry	-	K V G Chandra Sekhar	DBT	-	13,00,000

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Design of highly stable fluorescent metal-organic frameworks for iodine capture. Department: Chemistry	Chemistry	Dr. Himanshu Agarwal	-	ACRG	-	10,00,000
2	Synthesis of Highly Functionalized and Medicinally Potential Bioactive Heterocycles through Trifluoromethylative Cyclization Strategy	Chemistry	Tanmay Chatterjee	NA	ACRG	Dr. Balaram Ghosh	8,00,000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Synthesis, Study of optical properties and Anti-cancer activity of di-substituted tetracyanoquinodimethane	Chemistry	Jayanty Subbalakshmi	-	DST	-	25,75,000
2	Photocatalytic reduction of CO ₂ to biofuels	Chemistry	Sounak Roy	-	CSIR	-	4,00,000
3	Efficacy of appropriately tailored biopolymer and carbonaceous adsorbents for the separation and recovery of Europium	Chemistry	N. Rajesh	-	DST SERB	-	29,59,000
4	Investigations on naphthalene and anthracene based phosphates/phosphates: important sources for alkene based new alegers and polyaryllalkanes	Chemistry	Manab Chakravarty	-	CSIR	-	18,00,000
5	Beta-Glucan-Cholesterol interaction-MD simulation	Chemistry	Durba Roy	-	SERB	-	36,70,000
6	Mechanofluorochromic Materials	Chemistry	Manab Chakravarty	-	SERB	-	28,80,000
7	DST Inspire Fellowship	Chemistry	Chanchal Chakraborty	-	DST INSPIRE	-	35,00,000
8	DST Inspire Faculty award	Chemistry	Amit A. Vernekar	-	DST	-	35,00,000
9	Women Scientist (Dr. Atasi Mukherjee Under Prof. Manab Chakravarty	Chemistry	Manab Chakravarty	-	WOS	-	31,55,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Preparation and characterization of electrode material for Lithium ion Batteries	Chemistry	Sounak Roy	-	HBL Power Systems Limited	-	7,00,000
2	Zinc Air Battery	Chemistry	Sounak Roy	Chanchal Chakraborty	HBL	-	13,50,000

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Develop of novel anti-leishmanial analogues loaded with novel nano-formulations	Chemistry	-	K V G Chandra Sekhar	DBT	-	13,00,000

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Design of highly stable fluorescent metal-organic frameworks for iodine capture. Department: Chemistry	Chemistry	Dr. Himanshu Agarwal	-	ACRG	0	10,00,000

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Synthesis and Biological Activity of Various Triazoles as Effective Antifungal Agents	Chemistry	KVG Chandra Sekar	-	DBT	-	19,60,000
2	Finding Aggregation-induced emission active materials : design, synthesis and photophysical studies of sterically hindered triarylethenes and Tetraarylethenes	Chemistry	Manab Chakravarty	-	DST	-	38,38,000
3	Laboratory investigation and field application towards the effective defluoridation of water using appropriately tailored sorbents	Chemistry	N.Rajesh	-	DST	-	26,67,000
4	Towards metalloneurochemistry inside a niosome : a fluorescence spectroscopy approach	Chemistry	Amit Nag	-	DST	-	24.98,000
5	Photocatalytic NO _x abatement: From Mechanism and Materials Properties to Catalytic Performance	Chemistry	Sounak Roy	-	DST	-	24,48,000
6	Investigation of magneto-optical effect in composite magneto-plasmonic nanostructures for sensing applications	Chemistry	-	Balaji Gopalan	DST	-	33,20,000
7	Investigation of magneto-optical effect in composite magneto-plasmonic nanostructures for sensing applications	Chemistry	-	Krishnan Rangan	DST	-	33,20,000
8	Investigation of the folding of Cysteine-rich Neurotoxins in Ionic Liquid by Molecular Dynamics Simulation and Quantum Mechanical Calculations	Chemistry	Durba Roy	-	DST	-	25,23,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
9	CO ₂ capture from flue gases using regenerable solid adsorbents	Chemistry	-	Sounak roy	CSIR	-	24,50,000

B. Completed Industry Projects - NIL -

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Synthesis of Iron Oxide Nanoparticles for Propellant Applications	Chemistry	Balaji Gopalan	-	Premier Explosives	-	12,15,000

C. Completed International Projects - NIL -**D. Completed Institute Projects - NIL -****4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS****Papers Published by Faculty in Journals**

- M.Barathi, A. Santhana Krishna Kumar, N. Rajesh, Impact of fluoride in potable water-An outlook on the existing defluoridation strategies and the road ahead, *Coordination Chemistry Reviews*, 387 (2019) 121-128.
- A. Santhana Krishna Kumar, Jyun-Guo You, Wei-Bin Tseng, G. D. Dwivedi, N. Rajesh,* Shiuh-Jen Jiang, and Wei-Lung Tseng, Magnetically Separable Nanospherical g-C₃N₄@Fe₃O₄ as a Recyclable Material for Chromium Adsorption and Visible- Light-Driven Catalytic Reduction of Aromatic Nitro Compounds, *ACS Sustainable Chemistry and Engineering* 7 (2019) 6662-6671
- T.Sathvika, Smruthi Balaji, Mritunjai Chandra, Amitesh Soni, Vidya Rajesh, N.Rajesh," A co-operative endeavour by nitrifying bacteria *Nitrosomonas* and Zirconium based metal organic framework to remove hexavalent chromium", *Chemical Engineering Journal*, 360, 2019, 879–889.
- B. Arunraj, Talasila Sathvika, Vidya Rajesh and N. Rajesh, "Cellulose and *Saccharomyces cerevisiae* Embark To Recover Europium from Phosphor Powder", *ACS Omega*, 4 (2019) 940-952.
- Binding Interactions of Gemini Surfactants with Nanotubes of β -Cyclodextrin and Controlled Release of Guest Molecules: Effect of Spacer Chain Length and Concentration of Surfactants, Sunita Kumari, Ganapathisubramanian Sundar,* and Subit K. Saha*, *ChemistrySelect*, 4, 4190 (2019).
- Effect of gemini surfactants on binding interactions of Coumarin 485 with calf thymus deoxyribonucleic acid in presence of nanotubes of β -cyclodextrin, Sunita Kumari, Sayantan Halder, Rishika Aggrawal, Ganapathisubramanian Sundar,* and Subit K. Saha*, *Journal of Molecular Liquids* (Just accepted for publication, 2019).
- Refolding of protein unfolded by gemini surfactants using β -cyclodextrin and sodium dodecyl sulfate in aqueous medium: Study on role of spacer chain of surfactants, Sunita Kumari, Sayantan Halder, Rishika Aggrawal, Vinod Kumar Aswal, Ganapathisubramanian Sundar,* and Subit K. Saha*, (Manuscript communicated for publication, 2019).
- Srinivasarao, S., Adinarayana, N., Shashidhar, N., Tsz, T.Y., Sravani, P., Balaram, G., Murugesan, S., Naresh, K., Chandra Sekhar, K.V.G. Design, synthesis and biological evaluation of 1,2,3-triazole based 2-aminobenzimidazoles as novel inhibitors of LasR dependent Quorum Sensing in *Pseudomonas aeruginosa*. *RSC Adv.*, 2019, 9, 29273-29292.
- Surendar, C., Srinivasarao, S., Santosh, P.K.R., Prakruti, T., Yamini, B., Chandan, K., Krishnan, R., Balaram, G., Chandra Sekhar, K.V.G. Design, synthesis and biological evaluation of 2-(3,4-dimethoxyphenyl)-6-(1,2,3,6-tetrahydropyridin-4-yl)imidazo[1,2-a]pyridine analogues as antiproliferative agents. *Bioorg. Med. Chem. Lett.*, 2019, 29, 2551-2558.
- Suresh, N., Surendar, C., Suresh, A., Sridhar, G., Mallika, A., Debanjan, B., Nishant, J., Chandra Sekhar, K.V.G. Design, Synthesis, and Biological Evaluation of 2-(4-Aminophenyl) benzothiazole Analogues as Antiproliferative Agents, *J. Het. Chem*, 2019, 56, 520-532.
- Arun kumar, T., Ratnakaram V. N., Srinivasu, N., Yamini, B., Balaram, G., Chandra Sekhar, K.V.G., Design, synthesis and anti-tumour activity of new pyrimidine-pyrrole appended triazoles. *Toxicol. In Vitro*, 2019, 60, 87–96.

12. Mechanistic Insights on n-BuLi Mediated Phospha-Brook Rearrangement, S. Ranga, Manab Chakravarty, Tanmay Chatterjee,* Subhas Ghosal* Accepted for Publication in New Journal of Chemistry'2019
13. Monopyridyl-linked unsymmetrical anthracenyl π -conjugate as a platform for acid-pen and base-eraser, Moghal Zubair Khalid Baig, Banchhanidhi Prusti and Manab Chakravarty*, Accepted in J. Mater. Chem. C, 2019, 7, 3735.
14. Di-styrylanthracenes as established AIEgens: Can Di-anthracylethenes be AIE-active? Moghal Zubair Khalid Baig, Banchhanidhi Prusti, Sandeep Kondipati, Manab Chakravarty* Journal of Luminescence 209 (2019) 188–196.
15. Positional Variation of Monopyridyl-N in Unsymmetrical Anthracenyl π -Conjugates: Difference in Solution and Aggregate State Emission Behaviour, Moghal Zubair Khalid Baig, Banchhanidhi Prusti, Durba Roy and Manab Chakravarty* ACS Omega, 2019, 4, 5052.
16. Fused Chromeno-Thieno/Furo-Pyridines as Potential Analogs of Lamellarin D and their Anticancer Activity Evaluation. T. Uday Kumar, Y. Bobde, S. Pulya, R. Krishnan, B. Ghosh and A. Bhattacharya. Chemistry Select, 2019, 4, 10726-10730.
17. Total synthesis of the plant alkaloid racemic Microthecaline A: First example of a natural product bearing tricyclic quinoline-serrulatane scaffold. T.R. Penjarla, M. Kandrapu, S. Baquer and A. Bhattacharya. RSC Advances, 2019, 9, 23289-23294.
18. Iron(III) catalyzed direct C-H functionalization at the C-3 position of chromone for the synthesis of fused chromeno-quinoline scaffolds. T. Uday Kumar, D. Roy and A. Bhattacharya. Tetrahedron Letters, 2019, 60, 1895-1898.
19. Functionalized Chitosan-Carbon Dots: A Fluorescent Probe for Detecting Trace Amount of Water in Organic Solvents. S. Pawar, T. Uday Kumar, A. Bhattacharya and A. Nag. ACS Omega 2019, 4, 11301-11311.
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21. Selective Sensing of Iron by pyrrolo[2,3-c]quinolines, T. Uday Kumar, S. Pawar, A. Nag and Anupam Bhattacharya, Journal of Fluorescence, 2019, 29, 271-277.
22. Application of Polyphosphoric Acid-Mediated Acyl Migration for Regiospecific Synthesis of Diverse 2-Acylpyrroles from Chalcones. T. Uday Kumar, Y. Thigulla, K. Rangan and A. Bhattacharya. Journal of Heterocyclic Chemistry, 2019, 56, 1283-1290.
23. Enzyme-Embedded Degradation of Poly(ϵ -caprolactone) using Lipase-Derived from Probiotic Lactobacillus plantarum, Imran Khan, Ravikiran Nagarjuna, Jayati Ray Dutta, and Ramakrishnan Ganesan, ACS Omega, 2019, 4 (2), pp 2844–2852.
24. Large Scale Solid-state Synthesis of Catalytically Active Fe₃O₄@M (M = Au, Ag and Au-Ag alloy) Core-shell Nanostructures, Srinivasa Rao Nalluri, Ravikiran Nagarjuna, Dinabandhu Patra, Ramakrishnan Ganesan and Gopalan Balaji, Scientific Reports, 2019, 9: 6603.
25. Damera, D. P.; Kaja, S.; Janardhanam, L. S. L.; Alim, S.; Venuganti, V. K. and Nag, A.* "Synthesis, detailed characterization and dual drug delivery application of BSA loaded Aquasomes"ACS Applied Bio Materials 2019.
26. Pawar, S., Ravi Teja, B., Nagarjuna, R., Ganesan, R.* and Nag, A.* "Probing the surface composition effect of silver-gold alloy in SERS efficiency" Colloids and Surfaces A 2019, 578, 123638.
27. A hydrogen evolution reaction induced unprecedentedly rapid electrocatalytic reduction of 4-nitrophenol over ZIF-67 compare to ZIF-8; S. Payra, S. Challagulla, C. Chakraborty, Sounak Roy, Journal of Electroanalytical Chemistry.
28. Understanding the role of catalytic active sites for heterogeneous photocatalytic oxidation of methanol and thermal reduction of Nox S. Challagulla, S. Payra, C. Chakraborty, S. A. Singh, Sounak Roy, Molecular Catalysis, 476 (2019) 110505 – 110515
29. A trade-off between acidic sites and crystallinity of WO₃-TiO₂ catalyst towards dehydration of glucose to 5-hydroxymethylfurfural G. Parameswaram, Sounak Roy, Energy & Fuels, 33 (2019) 5293-5303.
30. Probing the photo- and electro-catalytic degradation mechanism of methylene blue dye over ZIF-derived ZnO S. Payra, S. Challagulla, Y. Bobde, C. Chakraborty, B. Ghosh, Sounak Roy, Journal of Hazardous Materials, 373 (2019) 377-388.

31. Determination of band edges and their influences on photocatalytic reduction of nitrobenzene by bulk and exfoliated g-C₃N₄S. Challagulla; S. Payra, C. Chakraborty, Sounak Roy, Physical Chemistry Chemical Physics, 21 (2019) 3174-3183.
32. Role of synthesis of upconversion nano particles towards surface modification and photocatalysis; S. Challagulla, S. Payra, M. Bajaj, Sounak Roy, Bulletin of Materials Science, 42 (2019) 102.
33. Dinabandhu Patra, Balaji Gopalan, Ramakrishnan Ganesan. Direct solid-state synthesis of maghemite as a magnetically recoverable adsorbent for the abatement of methylene blue. Journal of Environmental Chemical Engineering. 2019.
34. Srinivasa Rao Nalluri, Ravikiran Nagarjuna, Dinabandhu Patra, Ramakrishnan Ganesan, Balaji G. Large scale solid state synthesis of Fe₃O₄@M (M = Au, Ag and Au-Ag alloy) core-shell nanostructures and their applications as magnetically recoverable catalysts in hydrogen generation from NH₃BH₃/NaBH₄ mixture. Scientific Reports, 2019, 9: 6603.
35. Principal Component Analysis of a Conotoxin Delineates the Link Among Peptide Sequence, Dynamics and Disulfide Bond Isoforms. Karuna Anna Sajeevan and Durba Roy* J. Phys. Chem. B, 2019, 123, 5483 – 5493.
36. Unprecedented ultralow detection limit of amines using a thiadiazole-functionalized Zr(IV)-based metal-organic framework. A. Mallick, A. M. El-Zohry, O. Shekhah, J. Yin, J. Jia, H. Aggarwal, A.-H. Emwas, O. F. Mohammed, and M. Eddaoudi, J. Am. Chem. Soc. (Accepted Manuscript)
37. A Tailor-Made Interpenetrated MOF with Exceptional Carbon-Capture Performance from Flue Gas. W. Liang, P. M Bhatt, A. Shkurenko, K. Adil, G. Mouchaham, H. Aggarwal, A. Mallick, A. Jamal, Y. Belmabkhout, M. Eddaoudi, Chem. (Accepted Manuscript).
38. Constructing Highly Hydrophobic POPs via MBB Strategy for Methane Storage and Organic Vapor Capture. J. Jia, Z. Chen, H. Jiang, Y. Belmabkhout, G. Mouchaham, H. Aggarwal, K. Adil, E. AbouHamad, J. Czabanjozwiak, M. R. Tchalala, and M. Eddaoudi, Chem 5, 180-191. IF = 14.03.
39. A folic acid-sensitive polyfluorene based "turn-off" fluorescence nanoprobe for folate receptor overexpressed cancer cell imaging. Susmita Roy, Anusha Gunukula, Balaram Ghosh, Chanchal Chakraborty, Sens. Actuators B Chem. 2019, 291, 337-344.
40. DNA-Binding, Cytotoxicity and Apoptosis Induction of Pt/Fe-Based Heterometallo-Supramolecular Polymer for Anticancer Drug Application. Utpal Rana, Chanchal Chakraborty, Miki Kanao, Hiromi Morita, Takashi Minowa, Masayoshi Higuchi, J. Organomet. Chem. 2019, 891, 28-34.
41. Nanostructured metallo-supramolecular polymer based solid- state electrochromic devices with ultrafast switching time and high colouration efficiency. Susmita Roy, Chanchal Chakraborty* J. Mater. Chem. C 2019, 7, 2871-2879.
42. Carbazole-Anthranyl π -Conjugates as Small and Stable Aggregation-Induced Emission-Active Fluorogens: Serving as a Reusable and Efficient Platform for Anticounterfeiting Applications with an Acid Key and Multicolor Ink for a Quill Pen. Manab Chakravarty and B. Prusti, ACS Omega 2019, 4, 16, 16963-16971.
43. Almas Shamaila Mohammed., Jayati Ray Dutta., Mahammad Nanne Khaja., Ramakrishnan Ganesan., Ravikiran Nagarjuna (2019) Effects of free patchy ends in ssDNA and dsDNA on gold nanoparticles in a colorimetric gene sensor for Hepatitis C virus RNA, Microchimica Acta V-186,566
44. Hemanth Kumar Narsetti., Nikhil Navaratna., Dinabandhu Patra., Balaji Gopalan., Kannan Ramaswamy (2019) Enhanced Magneto-Optical effects in Core-Shell Plasmonic nanostructure Fe₃O₄ – Au, 9th International Conference on Surface Plasmon Photonics (SPP9)
45. Marvadi S.K., Krishna V.S., Sriram D., Kantevari S. (2019) Synthesis of novel morpholine, thiomorpholine and N-substituted piperazine coupled 2-(thiophen-2-yl)dihydroquinolines as potent inhibitors of Mycobacterium tuberculosis, European Journal of Medicinal Chemistry vol-164,171-178
46. Khan I., Ganesan R., Dutta J.R.(2019) Probiotic lipase derived from Lactobacillus plantarum and Lactobacillus brevis for biodiesel production from waste cooking olive oil: an alternative feedstock, International Journal of Green Energy
47. Aveli Rambabu., Sreenu Daravath., Kadtala Venkateswarlu., Nirmala Ganji., Shivaraj., Rangan Krishnan (2019) Mononuclear Co(II), Ni(II) and Cu(II) complexes of the Schiff base, 2-(((4-trifluoromethoxy) phenylimino)methyl)-6-tert-butylphenol: Synthesis, spectroscopic characterization, X-ray study and biological evaluation, Journal of Molecular Structure, vol-1199
48. Premanath Murge., Srikanta Dinda., Sounak Roy (2019) Zeolite-Based Sorbent for CO₂ Capture: Preparation and Performance Evaluation, Langmuir
49. Kumari B., Singh S.P., Santosh R., Dutta A., Mallajosyula S.S., Ghosal S., Kanvah S. (2019) Branching effect on triphenylamine-CF₃ cyanostilbenes: enhanced emission and aggregation in water, New Journal of Chemistry, VOL-43,4106-4115

50. Pogaku V., Krishna V.S., Balachandran C., Rangan K., Sriram D., Aoki S., Basavoju S. (2019) The design and green synthesis of novel benzotriazoloquinolinyl spirooxindolopyrrolizidines: Antimycobacterial and antiproliferative studies, *New Journal of Chemistry*, VOL-43, 17511-17520.
51. Saini H.K., Dhiman S., Nandwana N.K., Krishnan R., Kumar A. (2019) Copper and palladium-catalyzed sequential reactions: One-pot synthesis of isoindolo[2,1-b] isoquinolin-7(5 H)-ones, *Organic and Biomolecular Chemistry* vol-17 ,4281-4290
52. Anwarhussaini S D., Himabindu Battula., Pavan Kumar Reddy Boppidi., Souvik Kundu., Chanchal Chakraborty., Subbalakshmi Jayanty (2019) Photophysical, electrochemical and flexible organic resistive switching memory device application of a small molecule: 7,7-bis(hydroxyethylpiperazino) dicyanoquinodimethane, *Organic Electronics: physics, materials, applications*, vol-76.
53. Venkateswarlu K., Ganji N., Daravath S., Kanneboina K., Rangan K., Shivaraj (2019) Crystal structure, DNA interactions, antioxidant and antitumor activity of thermally stable Cu(II), Ni(II) and Co(III) complexes of an N,O donor Schiff base ligand, *Polyhedron*, vol- 171, 86-97.
54. Anoop Singh., Satheeshvarma Vanaparthi., Sachin Choudhary., Rangan Krishnan., Indresh Kumar (2019) Synthesis of C2-tetrasubstituted indolin-3-ones via Cu-catalyzed oxidative dimerization of 2-aryl indoles and cross-addition with indoles, *RSC Advances*, vol- 9, 24050- 24056.
55. T Sathvika., Akhil Raj Kumar Saraswathi., Vidya Rajesh., N Rajesh (2019) Confluence of montmorillonite and Rhizobium towards the adsorption of chromium(VI) from aqueous medium, *RSC Advances*, vol-9, 28478- 28489
56. Krishnan Rangan., Om PS Patel., Saroj., Anil Kumar (2019) Metal-free synthesis of pyridin-2-yl ureas from 2-aminopyridinium salts, *Tetrahedron Letters*, vol-60.
57. Thiriveedhi A., Nadh R.V., Srinivasu N., Bobde Y., Ghosh B., Sekhar K.V.G.C. (2019) Design, synthesis and anti-tumour activity of new pyrimidine-pyrrole appended triazoles, *Toxicology in Vitro*, vol- 60,87-96.
58. Md Irshad Alam., P Ravi Kiran., P Radhakrishnanan., B Anjaneyulu Reddy (2019) A Validated Stability Indicating RP-HPLC Method Development for Anticancer Drug Enzalutamide in Bulk & Pharmaceuticals, *INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND DRUG RESEARCH* vol-11,85-90.
59. Pogaku V., Krishna V.S., Sriram D., Rangan K., Basavoju S. (2019) Ultrasonication-ionic liquid synergy for the synthesis of new potent anti-tuberculosis 1,2,4-triazol-1-yl-pyrazole based spirooxindolopyrrolizidines, *Bioorganic and Medicinal Chemistry Letters*, vol-29,1682-1687.
60. Shiva Raju K., AnkiReddy S., Sabitha G., Siva Krishna V., Sriram D., Bharathi Reddy K., Rao Sagurthi S. (2019) Synthesis and biological evaluation of 1H-pyrrolo[2,3-d]pyrimidine-1,2,3-triazole derivatives as novel anti-tubercular agents, *Bioorganic and Medicinal Chemistry Letters*, vol -29,284-290.
61. Marvadi S.K., Krishna V.S., Sriram D., Kantevari S. (2019) Synthesis and evaluation of novel substituted 1,2,3-triazolyldihydroquinolines as promising antitubercular agents, *Bioorganic and Medicinal Chemistry Letters*.
62. Bhaskar V., Chowdary R., Dixit S.R., Joshi S.D.(2019) Synthesis, molecular modeling and BACE-1 inhibitory study of tetrahydrobenzo[b] pyran derivatives, *Bioorganic Chemistry*, vol-84,202-210.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. N. Adinarayana, S. Murugesan and K.V.G. Chandra Sekhar, 3,4-Dihydroisoquinoline benzylidenes and 3,4-dihydroquinoline phenyl acetamides as potent Leishmanial inhibitors. 24th CRSI National Symposium in Chemistry, organized by CLRI and IIT Madras at Chennai, February 8-10th, 2019.
2. N. Adinarayana, S. Srinivas Rao, H. N. Nagesh, S. Murugesan and K.V.G. Chandra Sekhar, One-Pot Synthesis of 4-Substituted-2H-1,2,3-triazoles by Deprotection of Methylene Nitrile using elemental sulfur. Drug Discovery in India 2019 - Breakthrough Research in Medicinal Chemistry, organized by Selectbio Sciences India Pvt. Ltd., Mumbai, January 17-18th, 2019.
3. S. Srinivas Rao, A. Suresh and K.V.G. Chandra Sekhar, N. Adinarayana, H. N. Nagesh, S. Murugesan and K.V.G. Chandra Sekhar, Seeking potential Quorum Sensing Inhibitors against *Pseudomonas aeruginosa*: Design, Synthesis and QSI activity of various triazoles. Drug Discovery in India 2019 - Breakthrough Research in Medicinal Chemistry, organized by Selectbio Sciences India Pvt. Ltd., Mumbai, January 17-18th, 2019.
4. Arunraj B. Sathvika T. Vidya Rajesh, N.Rajesh, Synergistic influence of biopolymer-microbe towards the recovery of Europium, Presented at 3rd International Conference on Recent Advances in Materials Chemistry (ICRAMC-2019) , organized by SRM University, Chennai during Feb 13-15, 2019.

5. B. Prusti and Manab Chakravarty *N-Alkyl carbazole-linked anthracenyl π -conjugates as AIEgens: Solvatochromism and acid/base stimuli-responsive materials* at 24th CRSI National Symposium in Chemistry, Feb 8-10, 2019

ii) International:

1. S. Srinivasarao, G. Balaram, S. Murugesan and K.V.G. Chandra Sekhar. Design and synthesis of novel 1,2,3-triazole based quorum sensing inhibitors using molecular hybridization approach against *Pseudomonas aeruginosa*. 20th Tetrahedron International Symposium - Bangkok, Thailand, 17-21st June 2019.
2. Aggregation-Induced Emission and piezochromic luminescence of N-alkyl phenothiazine-based anthracene derivatives with different lengths of alkyl chains. B. Prusti and Manab Chakravarty at 20th Tetrahedron symposium at Bankok, Thailand, June 18-21, 2019

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED - NIL -

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Department of Chemistry organized a RSC workshop on “RSC - Meet the Editor” on 1st November’2019.
2. Department of Chemistry organized the 7th Indian Peptide Society Symposium at BITS-Pilani Hyderabad Campus on Feb28-1st March’2019.
3. Chemistry Day (in-house symposium) was celebrated on 5th January’2019

8. INVITED TALKS GIVEN BY BITS FACULTY:

- i) Prof. Subit Kumar Saha Invited talk entitled “Binding Interactions of Gemini Surfactants with Nanotubes of β -Cyclodextrin and Controlled Release of Guest Molecules from Nanotubular Cavities: Effect of Spacer Chain Length and Concentration of Surfactants” delivered in Fourth International Conference on Nanomaterials: Synthesis, Characterization and Applications (ICN 2019) held during April 12-14, 2019 in Mahatma Gandhi University, Priyadharshini Hills, P.O. Athirampuzha, Kottayam, Kerala.
- ii) Prof. Subit Kumar Saha Invited talk entitled “Role of Spacer Chain of Gemini Surfactants and Different States of Solubilized Water on Solvation Dynamics and Rotational Relaxation of Coumarin 490 in Reverse Micelles, Water/12-s-12.2Br-(s = 5, 6, 8)/n-Propanol/Cyclohexane” delivered in XIXth National Conference on Surfactants, Emulsions and Biocolloids (NATCOSEB-XIX) held at the Department of Chemistry, Amity University, Kolkata organized under the aegis of Indian Society for Surface Science & Technology (ISSST), Department of Chemistry, Jadavpur University, Kolkata during October 18-20, 2019
- iii) Dr. CHANCHAL CHAKRABORTY Invited lecture on "*Nanostructured metallo-supramolecular polymer-based electrochromic devices: The sub-second switching time and high coloration efficiency*" at IISER Kolkata, Kolkata Chapter meeting of The Society of Polymer Science (SPS), India, 5-6th July 2019
- iv) Prof..N. RAJESH : Role of carbonaceous materials and biopolymer composites for environmental remediation- a perspective, Presented at the Fourth International conference on Nano materials (ICN 2019) organised by Mahatma Gandhi University and Institut Jean Lamour, Nancy, France, during 12-14 April 2019.
- v) Prof..N. RAJESH : Application of customized biopolymers, resins and graphene oxide for defluoridation, Presented at the Indian Analytical Science Congress 2019 (IASC 2019) at Thiruvananthapuram, Kerala during Sep 19-21, 2019.
- vi) Dr. AMIT NAG: "Gold nanoparticle-based plasmon enhanced fluorescence of Polyallylamine Hydrochloride: An efficient and selective sensor for Picric Acid in aqueous media", ACS Fall 2019 National Meeting & Exposition in San Diego, CA, USA, August 25 - 29, 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

- i) Prof. Penelope Brothers, School of Chemistry, Australian National University *has given a talk on LIGHTING UP SUGARS AND OTHER ADVENTURES WITH BORON PYRROLE LIGANDS*, Thursday 5-9-2019.
- ii) Dr. Veera Reddy Organo, ICT, Hyderabad delivered a talk on “Organometallic and Photocatalytic Reactions on 27th August, 2019.
- iii) Dr. Arijit Mukherjee, Dr. Reddy’s Laboratory, Organic Crystal Engineering: Expanding the Boundaries" on March 16, 2019
- iv) Prof. S. Sampath, IPC Division, IISc Bangalore delivered a talk on “Electrocatalysis Using Nitrides, Carbides and Layered Chalcogenides” on 21-11-2019

- v) Dr. Kaushik Venkatesan, Department of Molecular Sciences, Macquarie University, Australia has given a talk on “Conceptual Design Approaches to Next Generation Electronic and Optoelectronic Materials” on November 21, 2019
- vi) There is a talk Prof. Sundara Ramaprabhu from IIT-M on Carbon Nanomaterials for advanced energy related applications’ 4th July’2019
- vii) Prof A K Tyagi from BARC has delivered a talk on “Rational Design of Functional Materials by Crystallography and Chemical Concepts” on 19/03/19.
- viii) Dr. Arun Kumar Gupta S V S ofrom BIOCON, Bangalore presented “Evolution of Fluoroquinolones: Synthetic Efforts & Technological Developments of Ciprofloxacin” on 29/03/2019
- ix) A talk by Dr Ravi Kumar Venkatraman: Newton International Fellow from the University of Bristol. Novel Insights into the photophysics and photochemistry of benzophenone: A tale of two different solvent environments on 17/01/19
- x) Dr. M.I.S. Sastry from IOCL gave a talk on “Technological Developments & Avenues for Collaboration in Downstream Petroleum Industry” on 28/01/19.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

- (i) Prof. Jayanty Subbalakshmi was awarded "Distinguished Women in Science" by Venus International Foundation.
- (ii) Prof Sounak Roy was selected in the list of finalists for NASI Scopus Award
- (iii) The research work of Prof Manab Chakravarty was recognized by Indian Sciences Wire (S&T News from India).

b. Won by Students:

- 1. Mr. Arunraj B was selected to the final round of the Young Chemist Award conducted by METROHM-IIT Bombay during September 2019.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION - NIL -

12. PATENTS FILED/PUBLISHED AND GRANTED

- (i) Indian Patent TEMP/E-1/2727/2019-CHE applied and filed on 22-01-2019 for the work on “Compounds for use as anticancer agents and a process for synthesizing the same”. Application No. 201941002679; Principal Inventor: Prof. Jayanty Subbalakshmi, Co-Inventors: Syed Anwar, Dr. Balaram Ghosh, Ms. Yamini Bobde Applicant: Birla Institute of Technology and Science-Pilani, Hyderabad
- (ii) Indian Patent TEMP/E-1/21120/2019-DEL applied and filed on 21-05-2019 for the work on “Novel rhodamine B amides and processes for preparing the same”. Application number Principal Inventor: Prof. Jayanty Subbalakshmi Co-Inventors: B. Himabindu, Dr. Balaram Ghosh, Ms. Yamini Bobde Applicant: Birla Institute of Technology and Science-Pilani, Hyderabad.

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

Chemical Engineering Association:

a) Social Events

- Orientation for 2018 chemistry students: 9th August, 2019.

As the 2018 students entered the second year and were ready to begin their journey with the department, we organized an interactive session with the professors where they could get to know more about them, the department, the courses they teach, and the ongoing research in the department. They were also given insight as to what the future holds in the field of chemistry in terms of employment, higher studies or research.

- Freshmen orientation for 2019 chemistry students: 9th September, 2019.

The event was diligently organized by the members of Alchemy. It was held as a welcome party for the batch of 2019-2024 B2 students. The purpose of this event was to make every “fresher” feel welcome and an integral part of the BITS family and to give them the confidence they need to take on the challenges of their years ahead.

b) Pre - ATMOS events:

- IONIC SUDOKU:

Alchemy’s first Pre-ATMOS event IONIC SUDOKU was conducted on 13th September 2019. The event was our take on the regular SUDOKU where participants filled out ions in place of numbers. The event was liked and appreciated by many and overall saw a great amount of participation.

B3.10.4 Department of Civil Engineering**Number of faculty members**

Senior Professors, Professors	3
Associate Professors	3
Assistant Professors	9
Lecturers	0
Visiting Faculty	0

Head of the Department : **Prof. Sridhar Raju**

Contact details : 040-66303682; Email: sridhar.raju@hyderabad.bits-pilani.ac.in

Number of PhD Scholars : 29

Full Time : 24

Part Time : 5

Aspirant Scheme : NA

Ph.D. Thesis Submitted/defended during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1.	Agnivesh Pani	2014PH300065H	Analysis & Modelling of Urban Freight Demand for Seven cities in Kerala, India.	Dr. Prasanta Kumar Sahu	-
2.	Ashok Kumar Suluguru	2015PHXF0406H	Behavior of Shallow Foundation Resting on Soil Partially Replaced with Building Derived Materials under a Static Loading Condition	Dr. Arkamithra kar	Dr. Anasua Guha Ray
3.	P Chaitanya Jasti	2013PHXF0512H	Integrated & Sustainable Benchmarking of Urban Public Transport Systems for India Context	Prof. V Vinayaka Ram	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1.	Examination of binder loss in bituminous mixture for In-Service pavements	Civil Engineering	Prof. Sridhar Raju	Dr. Prasanta Sahu	Telangana Roads & Buildings	-	9,90,000
2.	Rainfall-Runoff Modelling for Lower Godavari Basin in a Changing Climate	Civil Engineering	Prof. K.Srinivasa Raju & Prof D.Nagesh Kumar	-	CSIR	Indian Institute of Science, Bangalore	20,00,000
3.	"Experimental and Computational studies of Surface Water Quality Parameters from Morphometry and Spectral Characteristics"	Civil Engineering	Dr. Jagadeesh Anmala	Dr. Murari R. R. Varma's & Dr. K Rajitha	CSIR	-	41,98,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
4.	Development of a comprehensive methodology to improve road traffic safety in Indian urban roadways based on advanced statistical techniques	Civil Engineering	Dr. Bandhan Majumdar	-	DST-SERB	-	11,39,000
5.	Congestion Pricing: Planning for optimal strategies and commuters behavioral implications under different pricing schemes	Civil Engineering	Dr. Prasanta Sahu	Dr. Bandhan Majumdar	SPARC-MHRD & UKERI	Cardiff University & New Castle University UK	42,00,000
6.	Prevention of Hazardous Field-Firing of Bagasse and Its Sustainable Utilization as a Raw Material in an Innovative Industrial Process	Civil Engineering	Dr. Srinivas Appari (Chemical Engg., BITS Pilani -Pilani	Dr. Bahurudeen A & Dr. Prasanta Sahu	SPARC-MHRD	Kyushu university Japan	32,00,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1.	Evaluation of the efficiency of bacterial inclusions in concrete	Civil Engineering	Dr. A. Kar,	Prof. Sridhar Raju, Dr. Chandu Parimi, Dr. Jayati Ray Dutta	ALIENS Developers Ltd.	-	11,40,000
2.	Pedestrian Safety Evaluation in Hyderabad	Civil Engineering	Dr. Bandhan Majumdar	Dr. Prasanta Sahu	AIA Hyderabad	-	1,00,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Transport policy interventions to curb particulate matter emissions in Chandigarh	Civil Engineering	Prasanta Sahu	Dr. Bandhan Majumdar	GCRF UK	Cardiff University	25,50,000

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Road Safety Evaluation	Civil Engineering	Dr. Bandhan Majumdar	-	ACRG	-	8,00,000

E. Travel/Research Visit Grants

S.No	Faculty Name	Department	Funding Agency	Amount Sanctioned (INR)
1	Dr. Bandhan Majumdar	Civil Engineering	SERB-DST	2,00,000
2	Dr. Prasanta Sahu	Civil Engineering	Volvo Research and Educational Foundation	2,35,000

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Multiobjective Evolutionary Approach for Solving Water Distribution Network Design Optimization	Civil Engineering	Prof. Vasan A.	Dr. Murari R. R. Varma	CSIR	-	18,46,000
2	Improving the seismic performance of dynamically similar buildings using damper connected control technique	Civil Engineering	Dr. Mohan. S.C.	-	DST - SERB	-	43,20,000
3	<i>Performance Evaluation of Backfill Soils partially replaced with Building Derived Materials</i>	Civil Engineering	Dr. Anasua GuhaRay	Dr. A. Kar, and Dr. N. James (IIT Ropar)	DST - SERB	-	24,43,000
4	Economic Construction Practice Using Bacterial Inclusions in Concrete to Improve its Durability	Civil Engineering	Dr. A. Kar,	Prof. Jayati Ray Dutta (Biology)	CSIR	-	1,70,000
5	Development of Pedestrian Facility Assessment Tool for Improving Pedestrian Safety Condition in Hyderabad	Civil Engineering	Dr. Bandhan Majumdar	Dr. Prasanta Kumar Sahu	Awareness in Action, Hyderabad	-	1,00,000
6	Coastal wetland Characterization using L and S bands of Polarimetric SAR data	Civil Engineering	Dr. Rajitha K.	-	ISRO	-	13,58,000
7	Examination of binder loss in bituminous mixture for In-Service pavements	Civil Engineering	Dr. Sridhar Raju	Dr. Prasanta Sahu	Telangana Roads & Buildings	None	9,90,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Evaluation of the efficiency of bacterial inclusions in concrete	Civil Engineering	Dr. A. Kar	Prof. Sridhar Raju, Dr. Chandu Parimi, Dr. Jayati Ray Dutta	ALIENS Developers Ltd.	-	11,40,000

C. Ongoing International Sanctioned Projects:

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1.	Implementation of plants and treated natural fibers to enhance the strength properties of soft soil and to decrease the rate of surface erosion (<i>Nat-Treat</i>)	Civil Engineering	Dr. Anasua GuhaRay & Dr. Wei Wu (University of Vienna, Austria)	Dr. A. Kar, and Dr. M. Acharya (University of Vienna, Austria)	Indo-Austria Scientific and Technological Cooperation between WTZ (Austria) and DST (India)	BOKU, University of Vienna, Austria	6,40,000
2.	Transport policy interventions to curb particulate matter emissions in Chandigarh	Civil Engineering	Dr. Prasanta Kumar Sahu	Dr. Bandhan Bandhu Majumdar and Prof. Ashoke Kumar Sarkar (Pilani Campus)	Global Challenge Research Fund - United Kingdom	Cardiff University	25,50,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
3.	Congestion Pricing: Planning for optimal strategies & commuters behavioral implications under different pricing schemes	Civil Engineering	Dr. Prasanta Kumar Sahu	Dr. Bandhan Majumdar and Prof. Asoke Kumar Sarkar (Pilani Campus)	SPARC - MHRD, Govt. of India	Cardiff University, New Castle University	42,00,000

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Shrinkage Properties of Concrete with Alkali - Activated Binder. (OPERA)	Civil Engineering	Dr. A. Kar,	-	OPERA	-	18,20,000
2	Performance assessment of agrowaste as supplementary cementitious materials (OPERA)	Civil Engineering	Dr. Bahurudeen	-	OPERA	-	18,20,000
3	Bicycle and Pedestrian Modelling in Hyderabad	Civil Engineering	Dr. Bandhan Majumdar	-	RIG	-	2,00,000

3. COMPLETED PROJECTS

A. Completed Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1.	Basic Geotechnical Tests of Soil, Palamuru RangaReddy Lift Irrigation Scheme (PRLIS) and Dindi Lift Irrigation Scheme (DLIS), Government of Telangana	Civil Engineering	Dr. Anasua GuhaRay, Prof. Sridhar Raju, Dr. A. Kar Dr. Mohan. S.C. Dr. Vinayaka Ram, Dr. Murari R R Varma, Dr. Jagadeesh Anmala	-	Government of Telangana	-	81,96,000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1.	Rehabilitation and Upgrading to 2-lanes/2-lane with paved shoulder configuration and strengtheninh of Birpur-Bihpur section of NH-106 in the state of Bihar under Phase 1 of NHIP on EPC basis	Civil Engineering	Dr. Mohan. S.C, Prof. Sridhar Raju Prof. P N Rao, Dr. Chandu. Parimi, Dr. Anasua GuhaRay	-	IL&FS Engineering and Construction Company Ltd	-	9,50,000

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Evaluating the market potential and policy context for battery electric buses in Indian cities	Civil Engineering	Dr. Bandhan Bandhu Majumdar	-	GCRF-HEFCW	-	12,54,000

D. Completed Institute Projects - NIL -**4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS****Papers Published by Faculty in Journals**

- Swathi V, K.Srinivasa Raju, Murari R R Varma, S.Sai Veena. Automatic Calibration of SWMM using NSGA-III and the Effects of Delineation Scale on an Urban Catchment, Journal of Hydroinformatics, IWA Publishing, Vol. 21, No. 5, pp. 781-797. DOI: 10.2166/hydro.2019.033
- Swathi V, K.Srinivasa Raju, S Sai Veena, A Santosh Kumar A (2019) Urban Floods in Hyderabad, India under Present and Future Rainfall Scenarios-A Case Study, Natural Hazards, Springer, Vol.95, No.3, pp. 637-655, DOI :10.1007/s11069-018-3511-9 .
- Mahesh B. Patil, Maddukuri Naveen Naidu, A Vasana, Murari R R Varma. "Water distribution system design using Multi-objective Particle Swarm Optimization", Sadhana. (Accepted on November 5, 2019)
- Kalyana Rama JS, MVN Sivakumar, Sai Kubair K, A Vasana, "Influence of plastic viscosity of mix on Self Compacting Concrete with river and crushed sand", Computers and Concrete, 23(1), 37-47, 2019.
- M M Prakash Mohan, K Rajitha & Murari R R Varma (2020) Integration of soil moisture as an auxiliary parameter for the anchor pixel selection process in SEBAL using Landsat 8 and Sentinel - 1A images, International Journal of Remote Sensing, 41:3, 1214-1231, DOI: 10.1080/01431161.2019.1658239
- V. Swathi, K. Srinivasa Raju, Murari R. R. Varma, S. Sai Veena; (2019) Automatic calibration of SWMM using NSGA-III and the effects of delineation scale on an urban catchment. Journal of Hydroinformatics DOI: <https://doi.org/10.2166/hydro.2019.033>
- Mazhar Syed, Anasua GuhaRay, Sagar Agrawal, Arkamitra Kar (2019), "Stabilisation of Expansive Clays by combined effects of geopolymerisation and fiber reinforcement", Journal of the Institution of Engineer (India): Series A, Springer (accepted).
- Junwei Liu, Vinay Kumar Gadi, Ankit Garg, Suriya Prakash Ganesan, Anasua GuhaRay (2019), "A Novel Approach to Interpret Soil Moisture Content for Economical Monitoring of Urban Landscape", Sustainability, 11, 5609, doi:10.3390/su11205609.
- Anasua GuhaRay, Mei Guoxiong, Arijit Sarkar, Sanandam Bordoloi, Ankit Garg, Spandan Pattanayak (2019), "Geotechnical and chemical characterization of expansive clayey soil amended by biochar derived from invasive weed species Prosopis juliflora" Innovative Infrastructure Solutions, Springer, DOI: 10.1007/s41062-019-0231-2
- Jayatheja M., A. GuhaRay, A.Kar (2019), "Experimental Analysis of Strength and Deformation Behavior of Soils Reinforced with Building-Derived Materials", Indian Geotechnical Journal, Springer, doi: 10.1007/s40098-019-00367-5.
- Mahipal, H. A. F., Kar, A., and Raychoudhury, T. (2019), "Fluoride removal by novel composite material and its performance in the fixed bed column filter", Current Science, 116 (12), pp. 2077-2083
- Babu Sharath, V VinayakaRam and Sridhar Raju (2019), "Simulation of field aging of bituminous concrete with and without warm mix additive using modified oven" International Journal of Pavement Research and Technology. DOI: 10.1007/s42947-019-0054-8
- Babu Sharath, V VinayakaRam and Sridhar Raju (2019), "Investigation of laboratory and field aging of bituminous concrete with and without anti-aging additives using FESEM and FTIR" Construction and Building Materials, DOI: 10.1016/j.conbuildmat.2019.06.153
- Majumdar, B.B., and Mitra, S. (2019). A study on route choice preferences for commuter and non-commuter bicyclists: A case study of Kharagpur and Asansol, India. Transportation Volume 46, Issue 5, pp 1839–1865
- Guharay A., Majumdar BB and Sahu PK (2019) Identification and Evaluation of Key Determinants of Two-Wheeler Ownership Model in the Context of Developing Countries: A Case Study of Pune City, India". Journal of the Eastern Asia Society for Transportation Studies (Accepted)

16. Sahu, P., and Pani, A. (2019) "Freight Generation and Geographical Effects: Modelling Freight Needs of Establishments in Developing Economies and Analyzing their Geographical Disparities" *Transportation*. DOI: 10.1007/s11116-019-09995-5
17. Mishra, S., Sahu, P., Sarkar, A., Mehran, B. and Sharma, S. (2019) "Geo-Spatial Site Suitability Analysis for Development of Health Care Units in Rural India: Effects on Habitation Accessibility, Facility Utilization and Zonal Equity in Facility Distribution" *Journal of Transport Geography*, Vol. 78, pp. 135-149. DOI: 10.1016/j.jtrangeo.2019.05.017
18. Saboo, N., Khalpada, V., Sahu, P., Rajneesh, R., and Gupta, A. (2019) "Optimal Proportioning of Grout Constituents using Mathematical Programming for Semi Flexible Pavement" *International Journal of Pavement Research and Technology*, Vol. 12 (3), pp. 297-306 DOI: <https://doi.org/10.1007/s42947-019-0036-x>
19. Pani, A., and Sahu, P. (2019) "Comparative Assessment of Industrial Classification Systems for Modelling Freight Production and Freight Trip Production" *Transportation Research Record*. DOI: <https://doi.org/10.1177/0361198119834300>.
20. Pani, A., Sahu, P. (2019) "Planning, Designing and Conducting Establishment-based Freight Surveys: A Synthesis of the Literature, Case-Study Examples and Recommendations for Best Practices in Future Surveys", *Transport Policy*, Vol.78, pp.58-75 DOI: 10.1016/j.tranpol.2019.04.006
21. Sahu, P., Padhi, A., Patil, G., Mahesh, G., and Sarkar, A. (2019) "Spatial Temporal Analysis of Freight Flow through Indian Major Seaport System", *Asian Journal of Shipping and Logistics*, Vol. 35 (1), pp. 77- 85. DOI: 10.1016/j.ajsl.2019.03.011
22. Roh, H-J., Bhat, F., Sahu, P., Sharma, S., Mehran, B., Khan, M. A., and Rodriguez, O. (2019) "Appraisal of Temporal Transferability of Cold Region Winter Weather Traffic Models for Major Highway Segments in Alberta Canada", *Geosciences*, Vol. 9(3) pp. 1-20. DOI:10.3390/geosciences9030137.
23. Sahu, P., and Patil, G.R. (2019) "Estimation of Cargo Demand at Major Seaports in India", *Journal of Maritime Research*, Vol. 14(3) (2017), pp.1-8. <https://www.jmr.unican.es/index.php/jmr/article/view/480>
24. Athira. G, Bahurudeen. A, Appari.S, Volarisation of by-product and cleaner production in agriculture, energy, and construction industries, *Journal of Cleaner Production* (Impact factor: 6.352), Elsevier, Vol 236, 2019. (SCI indexed)
25. Shingare PP, Jittin V, Bahurudeen A, Athira G and Senthilkumar R. *International Perspectives on Industrial Concrete and the way forward in India*. IC Journal. Vol 93, pp 22–38, 2019

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED:

1. Swathi V, K.Srinivasa Raju, V.Anirudh Reddy, Urban Flood Inundation Mapping using HEC-RAS - Case Study, International Conference on Innovative Trends in Civil Engineering for Sustainable Development (ITCSD-2019), September 13-15, 2019, Warangal, India, 253-254.
2. K Shruti 1*, Sreeram Rajesh 2, Sabareesh GR 2 , PN Rao 1, has presented Study of Interference Effects on Chimneys in International Conference on Recent Advances in Fluid and Thermal Sciences, IOP Conf. Series: Journal of Physics: Conf. Series 1276 (2019) 012033 IOP Publishing doi:10.1088/1742-6596/1276/1/012033.
3. S Saiteja, Sriman Pankaj, A Vasana, "Comparative Analysis of Bioinspired Algorithms for Structural Optimization Problems", 7th International Congress on Computational Mechanics and Simulation, IIT Mandi, India, December 11-13, 2019.
4. M Naveen Naidu, A Vasana, Murari RR Varma, "Many objective optimization of water distribution networks using NSGA-II", Water Future Conference 2019 – Towards a Sustainable Water Future, Divecha Centre for Climate Change, IISc Bengaluru, India, September 24-27, 2019.
5. M Naveen Naidu, Sriman Pankaj, A Vasana, Murari RR Varma, "Improved NSGA-II Multiobjective Genetic Algorithm for Optimization of Water Distribution Network Design", 17th International Computing & Control for the Water Industry Conference, University of Exeter, UK, September 1-4, 2019.
6. Sriman Pankaj, A Vasana, "Optimal Irrigation Planning and Operation of Reservoir Using Self-Adaptive Cuckoo Search Algorithm (SACSA)", 3rd World Irrigation Forum organized by International Commission on Irrigation and Drainage (ICID) held at Nusa Dua Convention Centre, Bali Indonesia, September 1-4, 2019.
7. M Naveen Naidu, A Vasana, Murari RR Varma, "Nature Inspired Multiobjective Optimization of Water Distribution Network Design", International Conference on Sustainable Practices and Innovations in Civil Engineering (SPICE 2019), Department of Civil Engineering, S.S.N. College of Engineering, Chennai, India, March 26-27, 2019.

8. Ansuman P, Ginjala V G, Shivaraj P, Chakravarthula A M T, U Ramkrishna, Kalyana Rama J S, Mohan S C, Design of Experiments for Structural Model Updating of Steel Structure using Dynamic Testing, International conference on Advances in civil Engineering, KLEF, Vijayawada, Mar 21-23, 2019
9. B.Radha Kiran Kiranmaye, Jayati Ray Dutta, A. Kar, Chandu Parimi, Sridhar Raju., "Optimization of Culture Parameters of Pseudomonas alcaligenes for Crack Healing in Concrete". Has attentend [2nd Internation Conference on recent Advances in Materials & Manufacturing Technologies (IMMT 2019), Dubai, UAE]. 20-22 Nov 2019.
10. V. Vinayaka Ram, Singhal, R. Parameshwaran "Presentation & characterization of hybrid nanocomposite PCM-cement concreat for thermal energy storage in buildings". Has attentend [2nd Internation Conference on recent Advances in Materials & Manufacturing Technologies (IMMT 2019), Dubai, UAE]. 20-22 Nov 2019.
11. Mazhar, S., GuhaRay, A. (2019), "Stabilization of Expansive Black Cotton Soil Reinforced with Polypropylene Fiber in Cement and Alkali Activated Binder: A comparative study", Symposium on Recent Advances in Sustainable Geotechnics, IIT Kanpur, 17-20 October.
12. Jayatheja M., GuhaRay, A., Kar, A. (2019), "Experimental Investigations on Earth Pressures of Soil admixed with Building Derived Materials under Rotational Failure mode", Symposium on Recent Advances in Sustainable Geotechnics, IIT Kanpur, 17-20 October.
13. Mazhar, S., GuhaRay, A. (2019), "Stabilization of Expansive Black Cotton Soil using Alkali Activated Binder with Glass and Polypropylene Fiber", Indian Geotechnical Conference (IGC), Geotechnics for Infrastrcutre Development and Urbanisation, NIT Surat, 19-21 December (paper accepted).
14. Jayatheja M., GuhaRay, A. (2019), "Earth Pressures under Rotational Movement Mode for Red Soil Backfill partially replaced with Building Derived Materials", Indian Geotechnical Conference (IGC), Geotechnics for Infrastrcutre Development and Urbanisation, NIT Surat, 19-21 December (paper accepted).
15. Mazhar, S., GuhaRay, A. (2019), "Stabilization of Expansive Soil Reinforced with Polypropylene and Glass Fiber in Cement and Alkali Activated Binder", GeoMEast International Congress and Exhibition, Sustainable Civil Infrastructures, Cairo, Egypt, 10-14th November, 2019, pp. 41-55, doi: 978-3-030-34206-7_4 (published as book chapter in "Advancements in Unsaturated Soil Mechanics", Springer).
16. Jayatheja M., GuhaRay, A., Kar, A., Suluguru, A.K. (2019), "Building Derived Materials-Sand Mixture as a Backfill Material", 2nd International Conference on Environmental Geotechnolgy, Recycled Waste Materials and Sustainable Engineering (EGRWSE), Illinois, Chicago, USA, June 16-20.
17. Mazhar S., GuhaRay A. (2019), "Microstructure and Geoengineering Properties of Expansive Soil treated with Polypropylene Fiber and Alkali Activated Binder", National Conference on Geotechnical Applications (GeoApps), IIT Hyderabad, India, 30th March.
18. A.K. Suluguru, A. GuhaRay (2019), "Geotechnical Performance of Building Derived Materials for Soil Reinforcement in Acidic Environment", National Conference on Geotechnical Applications (GeoApps), IIT Hyderabad, India, 30th March.
19. Mazhar, S., Agarwal, S., GuhaRay, A. (2019), "Stabilisation of Expansive Black Cotton Soil with Polypropylene Fiber and Alkali Activated Binder", 7th Indian Young Geotechnical Engineers Conference (7IYGEC), NIT Silchar, Assam, India, 15-16 March (accepted as book chapter in Springer publication).
20. Kruthi Kiran Ramagiri, Darshan Chauhan, Shashank Gupta, Arkamitra Kar and Dibyendu Adak, (2019), "Evaluation of structural performance of concrete with ambient-cured alkali-activated binders", Third National Conference on Structural Engineering and Construction Management SECON 19, Angamaly, Kerala, May 15-16, 2019.
21. Sriman Pankaj Boindala, Kruthi Kiran Ramagiri, Anju Alex, Arkamitra Kar, (2019), "Step-wise multiple linear regression model development for shrinkage strain prediction of Alkali activated binder concrete, Third National Conference on Structural Engineering and Construction Management SECON 19, Angamaly, Kerala, May 15-16, 2019.
22. Anju H Alex, Kruthi K Ramagiri, Arkamitra Kar, (2019), "Correlation between microstructural characteristics and specimen-level shrinkage of alkali-activated binder concrete", UKIERI Concrete Congress 2019, Jalandhar, India, 5-8 March 2019.
23. Bhanu Prasad, Sridhar Raju, Ashoke Kumar Sarkar, Sumit Kumar Singh and Sham Ravindranath (2019) "Performance of Reclaimed Asphalt Pavement (RAP) Material in Asphalt Mixtures" 18th AAPA International Flexible Pavements Conference & Exhibition, Sydney from 18 to 21 August 2019.
24. Anurag Anand, Mukesh Ravichandran; Sridhar Raju; and Kashinath Gumme (2019), Design of Emergency Airstrip on an Expressway in India, International Airfield and Highway Pavements Conference 2019.

25. Pandey, A., Ravindranath, S. S., & Raju, S. (2019). "Rheological analysis of PG rutting criterion in polymer modified asphalt binders", 18th AAPA International Flexible Pavements Conference & Exhibition, Sydney from 18 to 21 August 2019.
26. Attended and presented two research papers in 14th Conference of EASTS in Colombo, Sri Lanka (2019).
27. Attended and presented three research papers in 15th World Conference of Transportation Research Society in IIT Bombay, Mumbai, India (2019).
28. Panchal J., Majumdar B.B., Ram. VV and Basu D. "Analysis of user perception towards a key set of attributes related to Bicycle-Metro integration: A case study of Hyderabad, India. Transportation research procedia (Accepted).
29. Basu, D., Roy, S., Roy, S.M, and Majumdar, B.B. 2019. An assessment towards identifying improvement needs of urban bus stop infrastructure: Knowledge gained from Bhubaneswar. Transportation research procedia (Accepted)
30. Agarwal. P., Mitra S., Majumdar B.B., Akkelagunta P. and Sahu P. (2019). Investigation on Risk Factors Influencing Crash Occurrence in Urban Context: A Case Study of Hyderabad, India. EASTS Proceedings (Accepted)
31. Majumdar B.B. and Sahu P. (2019). Identification and prioritization of operational requirements related to battery-electric-bus (BEB) operation in Indian setting. Paper accepted for presentation in WCTR-Young conference to be held at IIT Bombay
32. Srivastava A, Pani A, Majumdar B.B and Sahu P. (2019) Development of Speed Management Measures at Uncontrolled Intersections: A Case Study of Hyderabad, India. Abstract accepted for presentation in CTRG-5TH conference to be held at MANIT Bhopal
33. Patil M and Majumdar B.B. (2019). Analysis on the key determinants of electric two wheeler use in Indian context. Abstract accepted for presentation in CTRG-5TH conference to be held at MANIT Bhopal.
34. Nikitha V, Patil M, Majumdar B.B. and Sahu P. (2019) an analysis of factors influencing safety and walkability of pedestrian facilities in Indian urban settings. Abstract accepted for presentation in CTRG-5TH conference to be held at MANIT Bhopal (2019)
35. Pani, A., and Sahu, P. (2019) "Modelling Non-Response in Establishment-based Freight Surveys: A Sampling Tool for Statewide Freight Data Collection in Middle-Income Countries" 15th World Conference on Transport Research - Y (WCTRS-Y), Young Researcher's Conference, Mumbai, India, May, 26-15.
36. Nath, B., Sahu, P., Maji, A., and Roh, H-J. (2019) "Analysis of Driver Behavior at Intersection to Develop Guidelines for Roadway Geometric Design" 15th World Conference on Transport Research (WCTRS), Mumbai, India, May, 26-15.
37. Chandra, A., Pani, A., and Sahu, P. (2019) "Designing Zoning Systems for Freight Transportation Planning: A GIS-based approach for Automated Zone Design using Public Data Sources" 15th World Conference on Transport Research (WCTRS), Mumbai, India, May, 26-15
38. Veerappan, M., Sahu, P., Pani, A., Patil, G., and Sarkar, A. (2019) "Analyzing and modelling the relationship between air freight movement and airport characteristics in India" 15th World Conference on Transport Research (WCTRS), Mumbai, India, May, 26-15
39. Pani, A., and Sahu, P. (2019) "Comparative Assessment of Industrial Classification Systems for Modelling Freight Production and Freight Trip Production" 98th Annual Meeting, Transportation Research Board (TRB), Washington D.C., USA, 13th – 17th January
40. Chandra, A., Pani, A., Sahu, P., and Sarkar, A. (2019) "Investigating the Effects of Zoning Systems on Modeling Freight Demand: A Spatial-Statistical Approach for Understanding Modifiable Areal Unit Problem" 98th Annual Meeting, Transportation Research Board (TRB), Washington D.C., USA, 13th – 17th January
41. Mishra, S., Sahu, P., Sarkar, A., Mehran, B. and Sharma, S. (2019) "Geo-Spatial Site Suitability Analysis for Development of Health Care Units in Rural India: Effects on Habitation Accessibility, Facility Utilization and Zonal Equity in Facility Distribution" 98th Annual Meeting, Transportation Research Board (TRB), Washington D.C., USA, 13th – 17th January.
42. Sahu, P., Mahapatra, S., Mehran, B., and Sharma, S. (2019), "Determination of Optimal Bus Stop Locations using Spatial Data Analysis Approach" 98th Annual Meeting, Transportation Research Board (TRB), Washington D.C., USA, 13th – 17th January
43. Khalpada, V., Saboo, N., Sahu, P., Rajneesh, R., and Gupta, A. (2019), "Optimal Proportioning of Grout Constituents using Mathematical Programming for Semi Flexible Pavement" 98th Annual Meeting, Transportation Research Board (TRB), Washington D.C., USA, 13th – 17th January.

44. Akanksha Pandey, Sham S. Ravindranath and Sridhar Raju (2019), "PG grading of bitumen using capillary and Brookfield viscometers", 5th Conference of Transportation Research Group of India (CTRG-2019), Bhopal, India, 18-21 December 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Praneeth P, Vasana A, K.Srinivasa Raju K. (2019) Pipe Size Design Optimization of Water Distribution Networks Using Water Cycle Algorithm, Harmony Search and Nature Inspired Optimization Algorithms, Edited by Yadav N, Yadav A, Bansal J, Deep K, Kim J, Advances in Intelligent Systems and Computing, Vol.741. Springer, Singapore, pp.1057-1067, DOI: https://doi.org/10.1007/978-981-13-0761-4_99 (Article available in Springer web site).
2. Naveen Naidu M., Boindala P.S., Vasana A., Varma M.R.R, "Optimization of Water Distribution Networks Using Cuckoo Search Algorithm", In: Venkata Rao R., Taler J. (eds) Advanced Engineering Optimization Through Intelligent Techniques, Advances in Intelligent Systems and Computing, Springer, Singapore, Print ISBN978-981-13-8195-9, 67-74, 2020.
3. Nikitha V., Majumdar B.B., Ram. V and Raju. S. (2019). A User Perception Based Prioritization of Determinants Walkability of Pedestrian Infrastructure Based On Multi-Attribute Decision Making (MADM) Approach: An Indian Experience. Lecture notes in Civil Engineering (Accepted).
4. Panchal J., Majumdar B.B., Ram. V and Raju. S. (2019) Methodology to identify a key set of elements influencing bicycle-metro integration: A case study of Hyderabad, India. Lecture notes in Civil Engineering (Accepted).

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Prof. K. Srinivasa Raju & Prof. Vasana had organized a *Workshop on Fuzzy Logic & Applications in Civil Engineering*, Centre of Excellence in Water Resources Management, Department of Civil Engineering, BITS Pilani, Hyderabad Campus, 15-16 March, 2019.
2. Dr. Bahurudeen has organized a SPARC *Workshop on SPCCE 2019 14-16, November, 2019*
Dr. Prasanta Sahu, Prof. Sridhar Raju and Dr. Bandhan Majumdar had organized a 2 -day workshop on Highway Design for ME Transportation Engineering Students, 10-11 November, 2019 by Mr. Manjunath from Ms. Atkins, Bangalore.

8. INVITED TALKS GIVEN BY BITS FACULTY:

1. Prof. K.S. Raju delivered a lecture on Optimization, Three Day Symposium on Water Conservation-Challenges & Solutions, Sreenidhi Institute of Science and Technology, Hyderabad, September 24-26, 2019. Guest Lecture delivered on September 25, 2019.
2. Prof. K.S. Raju delivered a lecture on Basics of fuzzy data mining, Workshop on fuzzy logic and applications in civil engineering, BITS Pilani Hyderabad campus, March 15-16, 2019. Guest lectures delivered on March 15, 2019.
3. Prof. A. Vasana delivered a lecture on Delivered a Lecture on "*Engineering Optimization*" during the Workshop on Fuzzy Logic & Applications in Civil Engineering organized by Centre of Excellence in Water Resources Management, Department of Civil Engineering, BITS Pilani, Hyderabad Campus, March 15-16, 2019.
4. Dr. Anasua GuhaRay delivered an invited talk on "Geotechnics beyond Classroom: Slope Instability and Stabilisation Methods" at Civil Engineering Department, Vasavi College of Engineering, Hyderabad on 25th October, 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT:

1. Mr K Sitaramanjaneyulu, Chief Scientist, Pavement Evaluation Division, CSIR-Central Road Research Institute, New Delhi has visited us and gave an expert lecture to the students, scholars and had a fruitful interaction with our transportation engineering team members on 12th October, 2019.
2. Mr. I V Madhusudhana Reddy, senior engineer in Megawide consultant has visited us and gave an expert lecture to the students, scholars and had a fruitful interaction with our transportation engineering team members on 25th October, 2019.
3. Mr. Manjunath Rao Ramakrishna, from M/s Atkins Limited Bangalore has visited us for conducting two days' workshop (1st & 2nd November 2019) on Highway Geometric Design at our campus and gave an expert lecture to the students, scholars.

10. AWARDS AND RECOGNITIONS:**a. Won by Faculty:**

1. AT015 Best Paper Award – Freight Transportation and Logistics Committee, Transportation Research Board, National Academy of Sciences, Washinton D C, USA
2. Dr. Anasua GuhaRay was elected as an Executive Member of Indian Geotechnical Society, Hyderabad Chapter (2019-2021).
3. Prof. K. Srinivas Raju was chosen as Member, International editorial board, Journal of Water and Climate Change, IWA Publishing (https://iwaponline.com/jwcc/pages/Editorial_Board [with effect from May 23, 2019])
4. Prof. K. Srinivas Raju was chosen as subject editor, H2 Open Journal, IWA Publishing [with effect from May 6, 2019] (https://iwaponline.com/h2open/pages/Editorial_Board)
5. Dr. Kalyana Rama, from the Department of Civil Engineering, was awarded the travel grant under Young Researcher Category by FRAMCOS-2019, France (June 2019).
6. Dr. Anasua Guharay, from the Department of Civil Engineering, received “2018 Outstanding Reviewer’ recognition from International Journal of Geomechanics, American Society of Civil Engineers (ASCE) in March 2019.
7. Dr. Arkamitra Kar, from the Department of Civil Engineering, received “Recognized Reviewer Status’ from Construction and Building Materials, Elsevier in February 2019.

b. Won by Students:

1. Mr. Agnivesh P (2014PH30005H). - AT015 Best Paper Award – Freight Transportation and Logistics Committee, Transportation Research Board, National Academy of Sciences, Washinton D C, USA
2. Mr. Mazhar Syed (2017PHXP0007H) has won a BEST CONSOLATION PRIZE in GEOAPPS 2019 from IIT. HYDERABAD in April 2019.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION:

1. Dr. Mohan S C was sponsored by the institute to receive training on research activities in Earthquake Engineering at UCB Berkeley, through University immersion programme during May 20 - July 20, 2019.
2. Dr. Prasant Sahu was sponsored by the institute to receive training on Transportation and Landuse Planning in Urban Areas at Lea Associates through Industry immersion program during May 17 - July 17, 2019.

12. PATENTS FILED/PUBLISHED AND GRANTED

Indian Patent No: 201711033016

Filed on 18th September 2017

Accepted on 22nd March 2019

Title: Treatment process for cellulose based geotextile and geotextile obtained therefrom

Authors: A. GuhaRay, A. Kar and S. Gupta

(Availableat: https://patentscope.wipo.int/search/en/detail.jsf?docId=IN241091712&tab=NATIONALBIBLIO&_cid=P12-K2S2C0-57625-1)

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES:

World Water Day Celebrations Centre of Excellence in Water Resources Management, Department of Civil Engineering conducted a number of activities as part of World Water Day celebrations. Activities conducted include painting competition and elocution for campus community. In addition, number of activities was also conducted for the students.

Some more Civil Dept. Associations Activities are followed below:

1. Mr K Sitaramanjaneyulu, Chief Scientist, Pavement Evaluation Division, CSIR-Central Road Research Institute, New Delhi has visited us and gave an expert lecture to the students, scholars and had a fruitful interaction with our transportation engineering team members on 12th October, 2019.
2. Mr. I V Madhusudhana Reddy, senior engineer in Megawide consultant has visited us and gave an expert lecture to the students, scholars and had a fruitful interaction with our transportation engineering team members on 25th October, 2019.

3. Mr. Manjunath Rao Ramakrishna, from M/s Atkins Limited Bangalore has visited us for conducting two days' workshop (1st & 2nd November 2019) on Highway Geometric Design at our campus and gave an expert lecture to the students, scholars.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	PTV VISSIM	1
2.	HDM-4 Software	1
3.	ARC GIS 10	1
4.	ERDAS imagine host of other open Sources	1
5.	Model Retaining Wall Test Set Up	1

B3.10.5 Department of Computer Science and Information Systems

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	1
Associate Professors	5
Assistant Professors	13
Lecturers	0
Visiting Faculty	2
Visiting Assistant Professors	0

Head of the Department : **Prof. Tathagata Ray**

Contact details : 040 66303596

Number of Ph.D. Scholars :

a) Full Time : 19

b) Part Time : 3

Aspirant Scheme : 1

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1.	Abhishek Thakur	2011PHXF0402H	Optimization of Video Delivery Over Opportunistic Networks	Prof. C. Hota	-

1. SPONSORED RESEARCH AND CONSULTANCY

PROJECTS SANCTIONED

A. Government Sanctioned

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	MUT-DROCO: Multipath networking test-bed for Drone Communications	CSIS	Dr. Paresh Saxena	-	DST-SERB	-	22,00,000
2	Interpretation of Tuberculin Reaction Using Medical Photography and Computer Aided Diagnosis.	CSIS	Dr. Jabez Christopher	-	DST-SERB	-	9,94,400

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Network Coding with Deterministic Coefficients for Unreliable Networks	CSIS	Dr. Paresh Saxena	-	AnsuR Tech, Oslo, Norway	-	5,50,000

C. International Sanctioned Projects

- NIL -

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	<i>Blockchain Enabled Solutions for Integration of MHR with Access Control and Personally Identifiable Information</i>	CSIS	Dr. Subhrakanta Panda	-	ACRG	-	8,00,000
2	<i>Investigation of the Effectiveness of Meta-Heuristic Techniques in Software Testing</i>	CSIS	Dr. Subhrakanta Panda	-	RIG	-	2,00,000
3	Privacy Preserving Authentication Framework for e-Health Applications	CSIS	Dr. Odelu Vanga	-	RIG	-	2,00,000
4	How Should I Detect and Fix Code Smell? - Investigating Source Code, and Text Analytic Based Approaches to Find Structural Design Problems in Software Systems	CSIS	Dr. Lov Kumar	-	RIG	-	2,00,000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Lightweight Code Self-verification for Internet of Things (IoT) Devices	CSIS	Chittaranjan Hota	Nil	MeitY	Herbert Bos, VU, Netherlands	42,94,000
2	MUT-DROCO: Multipath networking test-bed for Drone Communications	CSIS	Dr. Paresh Saxena	-	DST-SERB	-	22,00,000
3	Interpretation of Tuberculin Reaction Using Medical Photography and Computer Aided Diagnosis.	CSIS	Dr. Jabez Christopher	-	DST-SERB	-	9,94,400

B. Ongoing Industry Projects

- NIL -

C. Ongoing International Sanctioned Projects

- NIL -

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	<i>Blockchain Enabled Solutions for Integration of MHR with Access Control and Personally Identifiable Information</i>	CSIS	Dr. Subhrakanta Panda	-	ACRG	-	8,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
2	Privacy Preserving Authentication Framework for e-Health Applications	CSIS	Dr. Odelu Vanga	-	RIG	-	2,00,000
3	How Should I Detect and Fix Code Smell? - Investigating Source Code, and Text Analytic Based Approaches to Find Structural Design Problems in Software Systems	CSIS	Dr. Lov Kumar	-	RIG	-	2,00,000
4	ReSeThIoT: Building Research Framework for Investigating Security Threats for Internet of Things over WiFi.	CSIS	Dr. Rajib Ranjan Maiti	-	RIG	-	2,00,000
5	Performance Evaluation and Behavioral Study of Trajectory and Discontinuous Methods based Metaheuristics.	CSIS	Dr Jabez Christopher	-	RIG	-	2,00,000

3. COMPLETED PROJECTS

A. Completed Government Projects - NIL -

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Network Coding with Deterministic Coefficients for Unreliable Networks	CSIS	Dr. Paresh Saxena	-	AnsuR Tech, Oslo, Norway	-	5,50,000

C. Completed International Projects - NIL -

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	<i>Investigation of the Effectiveness of Meta-Heuristic Techniques in Software Testing</i>	CSIS	Dr. Subhrakanta Panda	-	RIG	-	2,00,000
2.	Designing an Attribute Enhanced Spatially and Temporally Aware Role Based Access Control (AESTARBAC) Model for Electronic Healthcare Systems	CSIS	Dr. Barsha Mitra	-	RIG	-	2,00,000

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty in Journals

1. M. V. Prudhviraj, S Panda (2019). Simulated Annealing: An Experimental Application on Pairwise Testing. *International Journal of Innovative Technology and Exploring Engineering*, 8:6, 377-381.
2. Rajesh Kumar Shrivastava, and Chittaranjan Hota, Profile-guided code identification and hardening using return oriented programming, *Journal of Information Security and Applications (JISA)*, Elsevier, Vol. 48, October 2019.
3. Sanket Mishra, Chittaranjan Hota, and Sarthak Rajwanshi, IoT Based Occupancy Detection using Ensemble Classifier in Smart Buildings, *J. Comput. Theor. Nanosci.* 2019, Vol.16, pp. 1-8. American Scientific Publishers.

4. S. Batabyal, P. Bhaumik, S. Chattopadhyay and S. Misra, "Steady-State Analysis of Buffer Occupancy for Different Forwarding Strategies in Mobile Opportunistic Network," in *IEEE Transactions on Vehicular Technology*, , vol. 68, no. 7, pp. 6951-6963, July 2019.
5. Surendra Singh, Suvadip Batabyal, and Sachin Tripathi, and, "Security aware dynamic scheduling algorithm (SADSA) for real-time applications on grid" in *Journal of Cluster Computing*, vol. 22, pp. 1-17, July 2019.
6. Goutham Reddy Alavalapati, Ashok Kumar Das, Vanga Odelu, Awais Ahmad, Ji Sun Shin: A Privacy Preserving three-factor authenticated key agreement protocol for client-server environment. *J. Ambient Intelligence and Humanized Computing*, Vol. 10(2), pp. 661-680, 2019.
7. Soumya Banerjee, Vanga Odelu, Ashok Kumar Das, Jangirala Srinivas, Neeraj Kumar, Samiran Chattopadhyay, Kim-Kwang Raymond Choo: A Provably Secure and Lightweight Anonymous User Authenticated Session Key Exchange Scheme for Internet of Things Deployment. *IEEE Internet of Things Journal*, Vol. 6(5), pp. 8739-8752, 2019.
8. Soumya Banerjee, Vanga Odelu, Ashok Kumar Das, Samiran Chattopadhyay, Joel J. P. C. Rodrigues, Youngho Park: Physically Secure Lightweight Anonymous User Authentication Protocol for Internet of Things Using Physically Unclonable Functions. *IEEE Access*, Vol. 7, pp. 85627-85644, 2019.
9. Vanga Odelu, Sourav Saha, Rajendra Prasath, Lakshminarayana Sadineni, Mauro Conti, Minh Jo: Efficient privacy preserving device authentication in WBANs for industrial e-health applications, *Computers & Security*, Vol. 83, pp. 300-312, 2019.
10. Lov Kumar and Ashish Sureka, Quality of Service (QoS) Parameters Prediction for Web Services using Hybrid Neural Network and Ensemble Methods, *International Journal of System Assurance Engineering and Management*, 2019.
11. Lov Kumar, Sangeeta Lal and Lalita Bhanu Murthy Neti, Estimation of maintainability parameters for object-oriented software using hybrid neural network and class level metrics", *International Journal of System Assurance Engineering and Management*, 2019.
12. Harshit Gujral, Abhinav Sharma, Sangeeta Lal, and Lov Kumar, A Three Dimensional Empirical Study of Logging Questions From Six Popular Q&A Websites, *e-Informatica Software Engineering Journal*, 2019.
13. Sanket Mishra, Chinmay Hota, Lov Kumar, Abhaya Nayak, "An Evolutionary GA-based Approach for Community Detection in IoT", *IEEE Access*, 2019.
14. BKSP Kumar Raju and G Geethakumari, "SNAPS: Towards Building Snapshot based Provenance System for Virtual Machines in the Cloud Environment", *Elsevier Computers and Security Journal*, June, 2019. (Impact Factor: 2.65; SCI-E indexed); <https://doi.org/10.1016/j.cose.2019.05.020>
15. D. Radha Rani and G Geethakumari, "Secure Data Transmission and Detection of Anti-Forensic Attack in Cloud Environment using MECC and DLMNN", Accepted at the *Elsevier Computer Communications Journal*, SCI-E indexed, Impact Factor: 2.766, Elsevier, 2019.
16. Surender Singh Samant, N.L. Bhanu Murthy, Aruna Malapati, "Improving Term Weighting Schemes for Short Text Classification in Vector Space Model", *IEEE Access (SCIE, IF 4.098)*
17. N. Singh, Tathagata Ray, C. Parimi, S. Kuchibhotla," Input size independent efficient quality meshing of the interior of 2D point cloud data", *Journal of Computational Design and Engineering* 6 (3), 316-326.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Dr. Subhrakanta Panda has presented his research article titled, Community Detection Techniques for Evolving Social Networks, In 9th International Conference on Cloud Computing, Data Science and Engineering, CONFLUENCE- 2019, IEEE, held at Amity University, Noida, U.P., India, during 10th – 11th January, 2019.
2. Dr. Subhrakanta Panda attended the IEEE workshop on AI and ML held at T-Hub, IIIT Hyderabad on 27th September, 2019.
3. Dr. Subhrakanta Panda attended a Knowledge Feast Program organized by EBSCO and IEEE held at Taj Krishna, Hyderabad on 7th August, 2019.
4. Harshit Gujral, Abhinav Sharma, Sangeeta Lal, Amanpreet Kaur, Lov Kumar and Ashish Sureka , Empirical Analysis of the Logging Questions on the SO Website ",Conference On Software Engineering & Data Sciences (CoSEDS 2018), University of Kashmir, Srinagar, India, 2018.
5. Prof. Tathagata Ray attended Deloitte Deans Summit 2019 held in Hyderabad Deloitte Office on 8-9th April 2019.

ii) International:

1. Dr. Subhrakanta Panda has presented his research article titled, A Comparative Study of the Effectiveness of Meta-Heuristic Techniques in Pairwise Testing, In 34th IEEE Computer Software and Applications Conference (COMPSAC-2019), held in Marquette University, Milwaukee, Wisconsin, USA, during 15th - 19th July, 2019.
2. Dr. Barsha Mitra presented the paper titled "Enhancing User Access Information with Spatial Data" at the International Conference on Data Sciences, Security and Applications (ICDSSA 2019) New Delhi on 7th and 8th March 2019.
3. Dr. Barsha shall be presenting the paper titled "Toward Implementing Spatio-Temporal RBAC Extensions" at the 15th International Conference on Information Systems Security (ICISS 2019) to be held in IDRBT, Hyderabad, 18th to 20th Dec. 2019.
4. G. Goudar and S. Batabyal, "Characterizing and Estimating Bulk Transfer Size in Mobile Opportunistic Network," *2019 IEEE 89th Vehicular Technology Conference (VTC2019-Spring)*, Kuala Lumpur, Malaysia, 2019, pp. 1-5.
5. G. Goudar and S. Batabyal, "A Modified Balls-into-Bins Model for Expected Buffer Occupancy in Mobile Opportunistic Networks," *2019 15th International Wireless Communications & Mobile Computing Conference (IWCMC)*, Tangier, Morocco, 2019, pp. 1488-1493.
6. Suvadip Batabyal, Kounteya Sarkar, "Realizing parallelism in quantum MISD architecture," in Proc. of the 16th ACM Intl. Conf. on *Computing Frontiers (CF'2019)*, pp. 230-234, Alghero, Italy — April 30 - May 02, 2019.
7. Vanga Odelu, "IMBUA: Identity Management on Blockchain for Biometrics-based User Authentication", International Congress on Blockchain and Applications (BLOCKCHAIN'19 congress), VOL. 1010, pp. 1-10, Avila (Spain), 26th-28th June, 2019, Springer.
8. Soumya Banerjee, Vanga Odelu, Ashok Kumar Das, Samiran Chattopadhyay, and Debasis Giri. "Anonymous fine-grained user access control scheme for Internet of Things architecture," in 5th International Conference on Mathematics and Computing (ICMC 2019), Bhubaneswar, India, 2019, Springer.
9. Soumya Banerjee, Vanga Odelu, Ashok Kumar Das, Samiran Chattopadhyay, and Debasis Giri. "On the design of a secure anonymous user authentication scheme for multiple base stations-based wireless sensor networks," in 5th International Conference on Mathematics and Computing (ICMC 2019), Bhubaneswar, India, 2019, Springer.
10. Vanga Odelu, "An Efficient Two-Server Password-only User Authentication for Consumer Electronic Devices", 37th IEEE International Conference on Consumer Electronics (ICCE 2019), January 11-13, 2019, Las Vegas, USA.
11. Sahithi Tummalapalli, Lov Kumar, and Lalita Bhanu Murthy Neti, An Effective Web Service Anti-Pattern Prediction Model Using Smote, 16th Annual IEEE India Conference (INDICON 2019), India, 2019.
12. Anand Tirkey, Ramesh Mohapatra and Lov Kumar, atomizing Android Malwares, 26th Asia-Pacific Software Engineering Conference (APSEC 2019), Putrajaya, Malaysia, 2019.
13. VAMSI KRISHNA ARIBANDI, Lov Kumar, Lalita Bhanu Murthy, and Aneesh Krishna, Prediction of Refactoring-Prone Classes using Ensemble Learning, 26th International Conference on Neural Information Processing (ICONIP2019), Sydney, Australia, 2019.
14. Lov Kumar, Chinmay Hota, Arvind Mahindru, and Lalita Bhanu Murthy Neti, Android Malware Prediction Using Extreme Learning Machine with Different Kernel Functions, 15th Asian Internet Engineering Conference (AINTEC 2019), Phuket, August, 2019.
15. Chinmay Hota, Lov Kumar, and Lalita Bhanu Murthy Neti, An Empirical Analysis on E effectiveness of Source Code Metrics for Aging Related Bug Prediction, 25th International DMS Conference on Visualization and Visual Languages (DMSVIVA2019), Lisbon, Portugal, 2019.
16. Sahithi Tummalapalli, Lov Kumar, and Lalita Bhanu Murthy Neti, An Empirical Framework for Web Service Anti-pattern Prediction using Machine Learning Techniques, 9th Information Technology, Electromechanical and Microelectronics Conference (IEMECON 2019), Jaipur, India, 2019.
17. Himanshu Gupta, Lov Kumar, and Lalita Bhanu Murthy Neti, An Empirical Framework for Code Smell Prediction using Extreme Learning Machine, 9th Information Technology, Electromechanical and Microelectronics Conference (IEMECON 2019), Jaipur, India, 2019.
18. Lov Kumar, Shashank Mouli Satapathy, and Lalita Bhanu Murthy Neti, Method Level Refactoring Prediction on Five Open Source Java Projects using Machine Learning Techniques, 12th Innovations in Software Engineering Conference (ISEC 2019), Pune, India, 2019.

19. Lov Kumar, Sangeeta Lal, Anjali Goyal, and Lalita Bhanu Murthy Neti, Change-Proneness of Object-Oriented Software using Using Combination of Feature Selection Techniques and Ensemble Learning Techniques, 12th Innovations in Software Engineering Conference (ISEC 2019), Pune, India, 2019.
20. Manish K Tripathi, Divyanshu Chaubisa, Lov Kumar, and Lalita Bhanu Murthy Neti, Prediction of Quality of Service Parameters Using Aggregate Software Metrics and Machine Learning Techniques, 15th Annual IEEE India Conference (INDICON 2018), India, 2018.
21. Lov Kumar, Shashank Mouli Satapathy, and Aneesh Krishna, Application of SMOTE and LSSVM with various Kernels for Predicting Refactoring at Method Level, 25th International Conference on Neural Information Processing (ICONIP2018), Siem Reap, Cambodia, 2018.
22. Lov Kumar, and Ashish Sureka, An Empirical Analysis on Web Service Anti-Pattern Detection using a Machine Learning Framework, 42nd IEEE Computer Software and Applications Conference (COMPSAC), Tokyo, Japan, pp. 2-11, 2018.
23. Ramnath Kumar and G Geethakumari, "Temporal Dynamics and Spatial Content in IoT Malware Detection", Proceedings of the IEEE TENCON 2019, the flagship premier international technical conference of IEEE Region 10, October 17 – 20, 2019, India: IEEE Explore (Scopus-indexed), Ranking: Core-C.
24. Rashmi Sahay, G Geethakumari, Barsha Mitra and Naman Goyal, "Investigating Packet Dropping Attacks in RPL-DODAG in IoT", Proceedings of the 5th IEEE International Conference for Convergence in Technology, 2019 (IEEE I2CT 2019), IEEE Explore (Scopus-indexed), March 29 - 31, 2019, India
25. Mohit Goyal, Ipsit Sahoo and G Geethakumari, "HTTP Botnet Detection in IOT Devices using Network Traffic Analysis", Proceedings of the IEEE International Conference on Recent Advances on Energy Efficient Computing and Communication (ICRAECC -2019), IEEE Explore (Scopus-indexed), March 7 - 8, 2019, India.
26. Keval M. Morabia, Neti Lalita Bhanu Murthy, Aruna Malapati, Surender S. Samant, "SEDTWik: Segmentation-based Event Detection from Tweets using Wikipedia", 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL SRW 2019), Minneapolis, USA. June 2019 (CORE A)
27. Jabez Christopher (2019), The Science of Rule-based Classifiers. In Ninth International Conference on Cloud Computing, Data Science and Engineering, Noida U.P., pp. 299-303. IEEE, 2019. IEEE Explore (Scopus-indexed)
28. Roshan Sivakumar, Jabez Christopher (2019), Fuzzy Resembler An approach for evaluation of fuzzy sets. In Seventh International Conference on Information and Computer Science Engineering. GNI, Hyderabad. Springer LNNS (Scopus-indexed) (In Press).
29. Geetha Dharani, Nimisha Nair, Pallavi Satpathy, Jabez Christopher, Covariate Shift: A Review and Analysis on Classifiers, Global Conference for Advancement in Technology, Bangalore, IEEE 2019 (in press), IEEE Explore (Scopus-indexed)
30. Naren Surampudi, Srirangan, Jabez Christopher, Enhanced Feature Extraction Approaches for Detection of Sound Events, 9th International Advance Computing Conference, Trichy, IEEE 2019 (Accepted), IEEE Explore (Scopus-indexed).
31. Nikhil Madaan, Siddharth Dharm, Aruna Malapati, Comparative Analysis of Machine Learning Algorithms for Fake News Detection, International Conference on Machine Learning and Data Science (ICMLDS) 2019 (Accepted) ACM Digital Library (Scopus-indexed).
32. Prof. Tathagata Ray attended CALDAM 2019 held at IIT Kharagpur on 14-15th February, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Deepak Chitkara, Anupama Mittal, and Ram I. Mahato, Molecular Medicines for Cancer: Concepts and Applications of Nanotechnology, CRC Press, Taylor Francis, Florida, USA.
2. Tiwari P., Bhat A.K., Tikoria J. (2018) Factors Affecting Individual's Intention to Become a Social Entrepreneur. In: Agrawal A., Kumar P. (eds) Social Entrepreneurship and Sustainable Business Models; pp 59-98; Palgrave Macmillan, Cham. (DOI https://doi.org/10.1007/978-3-319-74488-9_3); Print ISBN 978-3-319-74487-2; Online ISBN 978-3-319-74488-9.
3. N. Chaturvedi, S. Mishra, S. Dhakad, N. Sharma, K. Singh, Nitin Chaturvedi, R. Taliyan, A. Chauhan, D. K. Kharbanda, P. K. Khanna, "Development of GaN HEMTs Based Biosensor", The Physics of Semiconductor Devices Series, Springer Proceedings in Physics, Springer Nature Switzerland AG, Published on 28, October 2018.
4. Sahithi Tummalapalli, Lov Kumar, and Lalita Bhanu Murthy Neti, Detection of Web Service anti-pattern using Machine Learning, A journey Towards Bio-Inspired Techniques in Software Engineering, 2019.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Department of Computer Science & Information Systems and IEEE Hyderabad Section jointly organized a Workshop “**Evolving Technologies in Network and Communication Systems**” during the 29th and 30th August 2019. Dr. Suvadip Batabyal was the convener of the workshop. Dr. Barsha Mitra and Dr. Sudeepta Mishra were the co-ordinators.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Dr. Subhrakanta Panda delivered an Invited Talk on “*Research Advances in Software Testing*” in the *12th Workshop on Recent Trends in Software Testing (RTST-2019)*, organized by the Dept. of Computer Science and Engineering, BIT, Mesra, Ranchi, on 23rd May, 2019.
2. Dr. Suvadip Batabyal delivered an invited talk with hand-on session in a TEQUIP-III sponsored workshop on “Delay Tolerant Networks” at J.C. Bose University of Science & Technology, YMCA, Faridabad on 3-4 October, 2019.
3. Dr. Suvadip Batabyal delivered an invited talk on “Quantum Computing and Quantum Micro-architectures” at MCEME, Hyderabad on 31st October, 2019.
4. Dr. Lov Kumar delivered an Invited Talk on “Practical Implementation of Effective Fault Prediction Model Developed using Artificial Intelligence Techniques” in AICTE Sponsored Two-Week Faculty Development Programme on Machine Learning and Deep Learning for Real Time Stream Analytics 2019 organized by Mepco Schlenk Engineering College, Sivakasi, India, Nov 11-22, 2019
5. Dr. Lov Kumar delivered an Invited Talk on “Practical Implementation of Bayes Learning, Probabilistic Learning Models, Hands-on Training Session on Text Classification Problems” in AICTE Sponsored Two-Week Faculty Development Programme on Machine Learning 2019 organized by CVR College of Engineering, Hyderabad, India, Nov 18-30, 2019
6. Dr. Lov Kumar delivered an Invited Talk on “Practical Practical Implementation of Feature Selection Techniques, Data Sampling Techniques, Machine Learning and Ensemble techniques” in AICTE Sponsored Two-Week Faculty Development Programme on Machine Learning to Deep Learning: Trends & Challenges 2019 organized by Lakireddy Bali Reddy College of Engineering, Mylavaram, Vijayawada, Krishna(dt), Andhra Pradesh, Nov 4-16, 2019.
7. Dr. Lov Kumar delivered an Invited Talk on “Android Malware prediction using Machine Learning in National Level” an IT Exhibition-St. Ann's Technocrats 2019 organized by St. Ann's Degree & PG College, Hyderabad, Sept 23, 2019
8. Dr. Lov Kumar delivered an Invited Talk on “Practical Implementation of Machine Learning and Ensemble techniques, Feature extraction and selection in AICTE Sponsored Five days Workshop on Artificial Intelligence and its Applications, 2019 organized by National Institute of Technology Andhra Pradesh, Sept 16-20, 2019
9. Dr. Lov Kumar delivered an Invited Talk on “Practical Implementation of data Preprocessing algorithms, Feature extraction and selection, and Machine Learning and Ensemble techniques” in Two Weeks Faculty Development Program (FDP) on Emerging Trends in Machine Learning for Biomedical Applications 2019 organized by NARASARAOPETA ENGINEERING COLLEGE, India, July 29-Aug 10, 2019
10. Dr. Lov Kumar delivered an Invited Talk on “Android Malware prediction using Source Code Metrics” in SERI 2019 organized by IISc Bengaluru, India, 2019.
11. Dr. Lov Kumar delivered an Invited Talk on “Android Malware Prediction Using Source Code Metrics and Machine Learning Techniques” in the 12th Workshop on Recent Trends in Software Testing (RTST-2019), organized by the Dept. of Computer Science and Engineering, BIT, Mesra, Ranchi, on 23rd May, 2019.
12. Dr. Lov Kumar delivered an Invited Talk on “Application of Artificial Intelligence Techniques in Development of Effective Fault Prediction Model” in Verizon, Hyderabad, 2018.
13. Dr. Lov Kumar delivered an Invited Talk on “Application of Artificial Intelligence Techniques in Development of Effective Fault Prediction Model” in the 11th Workshop on Recent Trends in Software Testing (RTST-2018), organized by the Dept. of Computer Science and Engineering, KIIT, Bhubaneswar, on 23rd May, 2018.
14. Dr. Lov Kumar delivered an Invited Talk on “Application of Artificial Intelligence Techniques in Development of Effective Fault Prediction Model in FDP on Data Visualization and Machine Learning using Python” organized by the CVR College of Engineering, Hyderabad, India.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Dr. Jagadish Suryadevara from Volvo Group, Sweden delivered a talk on "Emerging Systems Landscape: From Connected Machines to Data Analytics" on 1st January 2019 organized by the department of CSIS at BITS Pilani, Hyderabad Campus.
2. Prof. Abhaya Nayak from Macquarie University, Australia. delivered a talk on "Is Revision a Special Kind of Update?" (2) "Trust in Context" on 15th and 16th January 2019 organized by the department of CSIS at BITS Pilani, Hyderabad Campus in association with CSA.
3. Prof. Rajendra Prasath delivered a talk on "Harnessing Blockchain Technology" on Friday 1st February, 2019 organized by the department of CSIS at BITS Pilani Hyderabad Campus in association with CSA.
4. Dr. Anoop Kunchukuttan, Senior Applied Researcher, Microsoft AI and Research has delivered a lecture on "Machine Translation for Related Languages" on 7th of February, 2019 organized by the department of CSIS at BITS Pilani Hyderabad Campus.
5. Prof. Swades Kumar De from IIT, Delhi delivered a talk on "Channel-aware link layer transmission strategies in wireless networks" on 23rd February, 2019 organized by the department of CSIS at BITS Pilani Hyderabad Campus.
6. Prof. P. Sreenivasa Kumar, CSE Dept., IIT Madras delivered a talk on "Ontologies and Applications" on 2nd August, 2019 organized by the department of CSIS at BITS Pilani Hyderabad Campus.
7. Dr. Anjneya Swami Kare, from University of Hyderabad delivered a talk on "Parameterized Algorithms for Graph Partitioning Problems" on the 9th of September, 2019.
8. Mr. Rajkumar Iyer from Qubole, Bangalore delivered two talks on (1) "A Brief History of Distributed Data Management Systems" and (2) "Transactions in Distributed Databases" on 24th and 25th September 2019 respectively organized by the department of CSIS at BITS Pilani, Hyderabad Campus.
9. Prof. Parama Bhaumik delivered a talk on "Universal Intelligent Problem Solver: A Concept of AGI" on 25th October, 2019 organized by the department of CSIS at BITS Pilani, Hyderabad Campus.
10. Prof. Nimmi Rangaswamy from IIIT Hyderabad delivered a talk on "Perspectives on the Intersections of HCI and the Social Sciences" on 14th November, 2019 organized by the department of CSIS at BITS Pilani Hyderabad Campus.
11. Prof. Anirudha Joshi (IIT Bombay, Industrial Design Centre) delivered a talk on "Designing technology for adoption by emergent users" on 19th November, 2019 by the department of CSIS at BITS Pilani, Hyderabad Campus.
12. Prof. Deborah Richards from Macquarie University delivered a talk on "Intelligent Virtual Agents for Education, Training and Health" on 21st November, 2019 by the department of CSIS at BITS Pilani, Hyderabad Campus in association with IPCD and CSA.
13. Prof. Anand Srivastava, Prof. and Dean R&D, IIIT Delhi, visited our campus on 2nd October 2019 for an interaction session with Faculty for research collaboration.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Dr. Subhrakanta Panda was External Technical Expert member of the committee for Preliminary Design Review of Project PRIDE (Programmer's Ready Integrated Development Environment), ANURAG, DRDO, Hyderabad.
2. Dr. Subhrakanta Panda was External Expert Panel Member of the Faculty Selection Committee of MLRIT, Hyderabad.
3. Dr. Subhrakanta Panda was Technical Committee member of TENCON-2019 Conference held in Kochi, Kerala, India, from 17th - 20th October, 2019.
4. Dr. Subhrakanta Panda was Technical Committee member of Fed CSIS - LASD-2019 Conference held in Leipzig, Germany, from 1st - 4th September, 2019.
5. Dr. Barsha Mitra acted as a Technical Committee member of IDRBT Doctoral Colloquium 2019.
6. Dr. Barsha Mitra acted as Program Committee member of 2nd International Workshop on Open Services and Tools for Document Analysis (ICDAR-OST) 2019.
7. Dr. Barsha Mitra acted as a Technical Committee member of the 1st IEEE International Conference on Trust, Privacy and Security in Intelligent Systems, and Applications (IEEE TPS) 2019.
8. Dr. Suvadip Batabyal received the TUBITAK 2019 fellowship from Govt. of Turkey for visiting scientist at Sabanci University, Turkey for 3 months.

9. Dr. Suvadip Batabyal acted as the TPC member at the IDRBT Doctoral colloquium 2019.
10. Dr. Suvadip Batabyal acted as the TPC member in IEEE ANTS 2019 to be held at BITS Pilani, Goa from 16-19 December, 2019.
11. Dr. Odelu Vanga is TPC member of International Congress on Blockchain and Applications (BLOCKCHAIN'19) will be held in Avila from 26th to 28th of June, 2019.
12. Dr. Odelu Vanga is one of the Organizing Chair of International Conference on Mining Intelligence and Knowledge Exploration (MIKE2019), will be held at NIT Goa, Goa.
13. Dr. Lov Kumar Singh was appointed as an Editorial Board Member of the Journal of Computer Science and Artificial Intelligence, Nov, 2019.
14. Dr. Lov Kumar was PC Member of 17th International Conference on Information Technology: New Generations (ITNG 2020), 2020.
15. Dr. Lov Kumar was PC Member of PC Member of 13th Innovations in Software Engineering Conference (ISEC 2020) PhD Symposium.
16. Dr. Lov Kumar was invited as Chief Guest and judge for National Level an IT Exhibition-St. Ann's Technocrats 2019.
17. Dr. Lov Kumar was invited as Chief Guest for Two Weeks Faculty Development Program (FDP) on Emerging Trends in Machine Learning for Biomedical Applications 2019, NARASARAOPETA ENGINEERING COLLEGE, India, July 29-Aug 10, 2019
18. Dr. Lov Kumar Received Best Young Researcher Award (Male) (Below 40 years) for outstanding research International Academic and Research Excellence Awards (IARE-2019).
19. Dr. Lov Kumar Received Young Scientist Award for outstanding research by IOSRD.
20. Dr. Lov Kumar Received Best Researcher Award for outstanding research for the year 2018, by IOSRD.
21. Dr. Rajib Ranjan Maiti is Organizing Chair for Student Travel Grant in CoDS-COMAD, 2020, ISB, Hyderabad.
22. Prof. Tathagata Ray was awarded "Best Professor In Information Studies" by Business School Affaire & Dewang Mehta National Education Awards (Regional Round) at Taj Banjara, Hyderabad on 15th November 2019.
23. Prof. Tathagata Ray was a member of the organizing committee for CALDAM 2019, conducted in IIT Kharagpur, Feb 14-16 2019.

b. Won by Students:

1. Mr. Kounteya Sarkar (2016H3130077H) received the student travel grant from ACM for presenting the paper: Suvadip Batabyal, Kounteya Sarkar, "Realizing parallelism in quantum MISD architecture," in Proc. of the 16th ACM Intl. Conf. on *Computing Frontiers (CF'2019)*, pp. 230-234, Alghero, Italy — April 30 - May 02, 2019.
2. Mr. Himanshu Gupta won Best Paper Award for An Empirical Framework for Code Smell Prediction using Extreme Learning Machine, 9th Information Technology, Electromechanical and Microelectronics Conference (IEMECON 2019), Jaipur, India.
3. Afroz Ahamad Siddiqui received partial travel grant of INR 100,000 for presenting paper titles *Generating Text through Adversarial Training using Skip-Thought Vectors* at the North American Chapter of the Association for Computational Linguistics (NAACL) in Minneapolis, USA in June 2019.
4. keval Morabia received partial travel grant of INR 100,000 for presenting paper titled SEDGWick: Segmentation-based Event Detection from Tweets Using Wikipedia at the North American Chapter of the Association for Computational Linguistics (NAACL) in Minneapolis, USA in June 2019.
5. Mr. Mandan Naresh, a PhD student of CSIS Department, has been selected for the TCS Research Scholar Program in August 2019.
6. Mr. Morabia Keval Mahendra, Mr. Afroz Ahamad Siddiqui, Mr. V. Thejas, Mr. Ankit Anand, Mr. Ajaykrishna Karthikeyan, Mr. Hitesh V. Bhagchandani, Mr. Rakesh Chinthakrindi have got the Off Campus Thesis in the Microsoft Research Lab India, Bangalore in the II Semester 2018-19.
7. Mr. Anirudh Srinivasan got the Off Campus Thesis at the University De Montreal, Canada in the II Semester 2018-19.
8. Mr. Keyur Jain got the Off Campus Thesis in the Media. Net, Bangalore in the II Semester 2018-19.
9. Mr. Tarun Raheja got the Off Campus Thesis in the Indian Institute of Science Education and Research, Pune in the II Semester 2018-19.

10. Mr. Aditya Kumar got the Off Campus Thesis in the Microsoft Redmond WA, USA in the II Semester 2018-19.
11. Mr. Arnav Dhamija got the Off Campus Thesis at the National University of Singapore, Singapore in the II Semester 2018-19.
12. Mr. Arvind A S got the Off Campus Thesis in the Nayang Technological University, Singapore in the II Semester 2018-19.
13. Mr. Yash Raj Jain, Ms. Ahana Ghosh have got the Off Campus Thesis in the II Semester 2018-19 and Mr. Skanda Vaidyanath has got the Off Campus Thesis I Semester 2019-20 in the Max-Planck-Institute for Intelligent Systems, Germany.
14. Mr. Aditya Vidhate got the Off Campus Thesis in the Inter-University Centre for Astronomy and Astrophysics, Pune in the II Semester 2018-19.
15. Ms. Supriya Lakhtakia got the Off Campus Thesis in the Indian Institute of Information Technology, Hyderabad in the II Semester 2018-19 in the II Semester 2018-19 in the I Semester 2019-20.
16. Ms. Shivani Reddy got the Off Campus Thesis in the Indian Institute of Science, Bangalore, Bangalore in the I Semester 2019-20.
17. Ms. Aditi Sharma got the Off Campus Thesis at the University of Michigan, USA in the I Semester 2019-20.
18. Mr. Vamsi Krishna Aribandi got the Off Campus Thesis in the Kno.e.sis, Wright University, USA in the I Semester 2019-20.
19. Ms. Deeksha Kartik got the Off Campus Thesis in the Shafiee Lab-Harvard University, Cambridge, MA-02139 I Semester 2019-20.
20. Mr. Bharat Malhan a First Degree student of CS&IS department did on On-Campus thesis with Dr. Paresh Saxena and visited Simula Research Centre, OSLO, Norway to work with Co-Supervisor Dr. Thomas Dreiholz I Semester 2019-20.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Dr. Suvadip Batabyal was a visiting scientist at Sabanci University, Turkey from May to July 2019.
2. Dr. Rajib Ranjan Maiti is a collaborator in Singapore University of Technology and Design from September, 2019 to September, 2021.
3. Dr. Paresh Saxena was a visiting researcher at AnsuR Technologies, Oslo, Norway from May to July 2019.

12. PATENTS FILED/PUBLISHED AND GRANTED

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

Computer Science Association:

Computer Science Association organized several events, workshops and talks this year successfully. The following events were conducted:

1. Talks on 'ASTRA: a compilation and execution framework that optimizes the execution of a deep-learning job' and 'An overview of the research at Microsoft Research India and an RF programme' on 11th January by Mr. Sanjay Srivallabh, a 2013 alumnus from BITS Hyderabad campus, then employed as a Research Fellow at Microsoft Research Lab India (MSRI), Bengaluru.
2. Talk on Dynamics of Trust on 16th January 2019 was delivered by Dr. Abhaya Nayak, Associate Professor Department of Computing, Macquarie University, Sydney (Australia). He holds a PhD degree from the University of Rochester, USA.
3. The event Mock Algomaniac – Tech Week'18 was the event which grabbed the attention of around 120 students; competing to become the fastest solver of the given algorithms with accuracy. The questions had negative marking to test the competitors to the fullest. The questions ranged from basic algorithms in everyday life to complicated ones.
4. The event Competitive Coding Bootcamp– Tech Week'18 was conducted. This was a Two-day event aimed at giving a decent idea about competitive coding to even the noobest of coders. It started off from topics such as arrays, strings, etc and progressed on to more advanced data structures such as vectors, maps, etc; finally concluding with topics from the graph theory.
5. An Interaction session with CS Alums working at Nutanix – 9th April 2019 was conducted. Our seniors, Monica Adusumilli Adusumilli] (2014A7) & Devendra Shekhawat Shekhawat] (2013A7) dropped by to talk about their experience working in industry.
6. The event Coding Contest was conducted on 8th Sept 2019. This was a contest for the entire campus organized in association with the students union with cash rewards, the participation was tremendous and the turnout was 400+.

7. CS Dept. Student-faculty interaction event was conducted on 12th Sept 2019. With over 150 freshers attending the talk, this event aimed at giving the students a basic insight on how to go about with the semester while also giving the students to ask anything about their coursework, areas of interest to the CS faculty.
8. The event PreATMOS Algomaniac was conducted on 15th October. With a huge participation of around 100+ students, this was a successful precursor event to the main Algomaniac which was held during ATMOS 2019.
9. In ATMOS 2019, following events were organized by CSA:
 - ALGOMANIAC – Prize Money 25,000 – This was the event which grabbed the attention of around 350 students; competing to become the fastest solver of the given algorithms with accuracy. The event had 2 rounds and only the brilliant ones made it to the second round. The questions had negative marking to test the competitors to the fullest. The questions ranged from basic algorithms in everyday life to complicated ones.
 - CODEGOLF – Prize Money 20,000 – With the participation of around 150 enthusiastic students, this event focused primarily on the coding skills of the person, the rules were simple, 'SHORTEST CODE WINS', thus putting everyone's skills to the ultimate test. There was only 1 round and the top three were awarded with cash prizes.
 - BINARY BATTLES – Prize Money 20,000 – As a break from conventional coding events, this event was introduced for the first time. It had two rounds and with 1v1 knockout tournament style coding competitions, this was a huge success.
 - PAPER PRESENTATION – With some amazing presentations our judges had a hard time selecting the best from the lot and were really impressed with the creativity and hard work of the students.
 - ETHICAL HACKING WORKSHOP – This was the most successful workshop during ATMOS, with a footfall of around 250 students, coming from various colleges. The workshop started from the basics and progressed on to the tougher topics. The students who attended the workshop were given notes along with a CD for further reference. The workshop was spread across two days, with the level and difficulty increasing each day.
 - ARTIFICIAL INTELLIGENCE WORKSHOP – With a footfall of around 350 students, this event also successfully grabbed the attention of many enthusiastic people. This was also spread across two days and started from the absolute basics of data science and advancing to the intrinsic and complicated details. This was also one of the most successful events in terms of revenue generation.
10. Talk by a startup called Ambee was conducted on 20th November 2019, The speaker was Madhusudhan Anand, CTO and Co-founder at Ambee. Ambee story, how a hackathon led to a real-life incident and how it turned out to be an enterprise startup, now working to help hundreds of millions of lives and improve the health of the planet, how AI, ML and deep learning is used to measure things in the environment and how as an environmental intelligence startup, the micro-climate is studied to bring about the necessary actions and interventions for change and social impact using both research and technology.
11. Talk on Intelligent Virtual Agents for Education, Training and Health on 21st November by Prof. Deborah Richards from Macquarie University, Australia. The talk provided an overview of the field, including research concerning IVAs and memory, emotions and collaborative learning for applications such as debriefing and reminiscing, border security officer training, scientific inquiry and science education, real estate assistance, museum guidance, behaviour/attitude change, empowerment and adherence to treatment advice.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	Mobile Systems Lab and Data Science Lab was established with Lenovo M720 Tower (Corei7-8700 2.8GHz 6C Processor, 8GB DDR4 2666MHz Ram, 1TB SATA HDD, Nvidia Quadro K420 2GB)	56 + 84
2.	Research Scholar Lab was established with HP Mini Tower Workstations (Intel Xeon E3 1225 V5, 16GB Ram, 1TB HDD, Nvidia Quadro K420 2GB, 21" DVI/VGA Monitor)	20
3.	ROT3U A Server HPE DL 380 GEN 10 SERVER I Xeon Silver 4114 (Deca Core)/2.2Ghz-256 GB RAM DDR4 2666 MHZ DIMM-HP1.8TB 10K SAS HDD-408i-a controller with 96W)	1

B3.10.6 Department of Electrical and Electronics EngineeringNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	1
Associate Professors	4
Assistant Professors	25 Including 2 who will join by end of Dec 2019
Lecturers	3
Visiting Faculty	0
Visiting Assistant Professors	0

Head of the Department : **Prof. Sanket Goel**
 Contact details : sgoel@hyderabad.bits-pilani.ac.in / 040-6630-3686
 Number of Ph.D. Scholars : 62
 Full Time : 44
 Part Time : 18
 Aspirant Scheme : 0

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Spandana	2011PHXF0013H	Detection of Breast Cancer using image processing	Prof. Prabhakar Rao	Prof. K. M. M. Rao
2	Manu Gupta	2013PHXF0412H	Detection of Brain Tumor Using Magnetic Resonance Imaging	Prof. Prabhakar Rao	Dr. Venkateswaran Rajagopalan
3	Poorna Lakshmi	2013PHXF0008H	Optical MEMS	Dr. P. K. Pattnaik	NA
4	Mahesh Kumar Adimulam	2012PHXF0300H	Ultra-Low Power SoC	Prof. M. B. Srinivas	NA

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Micro-plasma transistor for high temperature application	EEE	Karumbaiah C Chappanda	-	SERB	-	22,00,000
2	Automated IoT based Microfluidic Electrochemiluminescence ECL Biosensing platform for various biomarker detection".	EEE	Prasant Kumar Pattnaik	Sanket Goel	SERB	-	47,00,000
3	Design of High Power CW Magnetrons and investigations on strategies for their phase control	EEE	Joseph John (IIT B)	Harish V. Dixit	DST	-	52,00,000
4	Microfluidic Enzymatic Biofuel Cell for Energy Harvesting and Blood Parameters monitoring	EEE	Sanket Goel		DSIR	-	15,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
5	Fully Integrated Smartphone and IoT enabled Microfluidic Sensor for Real-time Quantification of Soil Macronutrients, Conductivity and pH	EEE	Satish Dubey	Sanket Goel and Ponnalagu RN	DST	-	27,98,000
6	Studies and Multiphysics Simulation of Mode Converters for Application in Directed Energy Weapons (DEWs)	EEE	Harish Dixit	Runa Kumari	DRDO	-	4,18,000
7	Design and development of an autonomus flow calibration System for Fuel and Oxidizer injectors in Reaction Control System	ME	SS Deshmukh	Rajesh K Tripathy, Supradeepan K	DRDO	-	10,00,000
8	Organ on a chip for drug screening	EEE	Sanket Goel	Satish Dubey, Arshad Javed and Anasuya Ganguli (Goa)	DST	-	43,00,000
9	Indo-Norwegian collaboration in Autonomous Cyber-Physical Systems	EEE	Soumya J & Lingareddi C		Norwegian Research Council	-	42,43,000
10	Management of Distributed Energy Resources in Smart Cities: Challenges and Advanced Control Strategies, Accepted	EEE	Hitesh Mathur	Bijoy Mukherjee, Alivelu M Parimi	MHRD SPARC	-	42,56,000
11	MRI based non-invasive quantitative biomarker for Early diagnosis and prognosis of Brain Tumor	EEE	Venkateswaran R	BVVSN Prabhakara Rao, Prof. Yogeewari, Dr. C.Kesavadas	DBT	-	23,99,000

B. Industry Sanctioned Projects – NIL -**C. International Sanctioned Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Indo-Norwegian collaboration in Autonomous Cyber-Physical Systems	EEE	Soumya J & Lingareddi C	-	Norwegian Research Council	-	42,43,000

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Direct growth of 2D materials by Chemical Vapor Deposition (CVD) on flexible substrates and its application in wearable electronics	EEE	Parikshit Sahatiya	-	-	-	10,00,000
2	RISC-V based Approximate Processor and its FPGA Prototype for Image processing Applications	EEE	Chetan Kumar V	-	-	-	4,70,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
3	Design and development of an AI-based Remote Fault Signature Analyzer (ReFSA) for condition monitoring of rotor bar failures in an Industrial electrical machine	EEE	Sudha Radhika	-	-	-	9,80,000
4	Black TiO ₂ nanotubes for detection and degradation of pollutants in drinking water	EEE	Karumbaiah C N	-	-	-	10,00,000
5	Development of a New Vegetable-Oil-Based Dielectric Fluid for Liquid-Filled Transformers	EEE	Mithun Mondal	-	-	-	8,00,000
6	Cleanroom free solution processed fabrication of flexible nanoelectronic devices for sensing applications	EEE	Parikshit Sahatiya	-	-	-	2,00,000
7	Detection of sleep related disorders from various physiological signals using multiscale analysis and deep neural network	EEE	Rajesh Kumar Tripathy	-	-	-	2,00,000
8	Design and Synthesis methodologies for CNFET-based Multi-Valued Logic Circuits.	EEE	Chetan Kumar V	-	-	-	2,00,000
9	Design and development of an instrumentation system to measure dynamic signals	EEE	. N. Ponnalagu	-	-	-	2,00,000
10	Synthesis of nano-porous metal oxide composite material for water splitting application	EEE	Karumbaiah C N	-	-	-	2,00,000
11	Design and Development of an optimized Electrical Interface for Smart Hybrid Microgrid and Energy Storage for Peak Load Saving	EEE	Ankur Bhattacharjee	-	-	-	2,00,000
12	Miniaturization and Enhancement of port isolation of MIMO antennas	EEE	Sourav Nandi	-	-	-	2,00,000

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Name	Principal Investigator	Co- Investigator	Funding Agency	Sanctioned Amount (INR)
1	Metal-Oxide and Nano-Composite Based Low-Power Non-volatile Switching Device: A Novel Approach.	Souvik Kundu	Souri Banerjee	BRNS, DAE	35,56,000
2	Investigations of the effects of photon up-conversion materials on the electrical performance of ferroelectric/semiconductor heterojunction photovoltaic devices	Souvik Kundu	Kannan Ramaswamy and B. Venkat. Hariharan	SERB (EMR), DST	35,63,000
3	Strategies for Fault-Tolerant Network-on-Chip Design	Soumya J	S. K. Sahoo	ECR-SERB	25,93,000
4	Underwater Characterization of Solar cells and its Optimization	Sanket Goel	Radhika Sudha	DMSRDE, DRDO	9,85,000
5	Digital 3D Printed Electronic Technology for Space Electronic Packaging Applications	Sanket Goel	-	ISRO	26,36,000

S.No	Project Name	Principal Investigator	Co- Investigator	Funding Agency	Sanctioned Amount (INR)
6	Microfluidic Enzymatic Biofuel Cell for Energy Harvesting and Blood Parameters monitoring	Sanket Goel	-	DSIR	15,00,000
7	MRI based non-invasive quantitative biomarker for Early diagnosis and prognosis of Brain Tumor	Venkateswaran R	BVVSN Prabhakara Rao, Yogeeswari, C.Kesavadas	DBT	23,90,000
8	Design and development of an autonomus flow calibration System for Fuel and Oxidizer injectors in Reaction Control System	SS Deshmukh	Rajesh K Tripathy, Supradeepan K	DRDO	10,00,000
9	Organ on a chip for drug screening	Sanket Goel	Satish Dubey and Arshad Javed	DST	40,00,000
10	Management of Distributed Energy Resources in Smart Cities: Challenges and Advanced Control Strategies, Accepted	Hitesh Mathur	Bijoy Mukherjee, Alivelu M Parimi	MHRD SPARC	42,56,000
11	Fully Integrated Smartphone and IoT enabled Microfluidic Sensor for Real-time Quantification of Soil Macronutrients, Conductivity and pH	Satish Dubey	Sanket Goel and Ponnalagu R N	DST	27,98,000
12	Characterization of Gyroscope for Defense Application	Satish Dubey	Sanket Goel, Arshad Javed	DRDO	5,30,000
13	Automated IoT based Microfluidic Electrochemiluminescence ECL Biosensing platform for various biomarker detection".	Prasant Kumar Pattnaik	Sanket Goel	SERB	47,00,000

B. Ongoing Industry Projects – NIL -**C. Ongoing International Sanctioned Projects**

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of Methodologies for Self-Aware Network-on-Chip Design (India-Austria)	EEE	Soumya J	Axel Jantch	DST- Austria	Austria	8,89,000
2	Indo-Norwegian collaboration in Autonomous Cyber-Physical Systems	EEE	Soumya J & Lingareddi C	-	Norwegian Research Council"	Norway	42,43,000

D. Ongoing Institute Projects

S.No	Project Name	Principal Investigator	Co- Investigator	Funding Agency	Sanctioned Amount (INR)
1	OPERA	Sayan Kanungo	-	BITS OPERA	3,60,000 per year
2	Simulation Design and Modelling of Vertical Heterostructure Transition Metal Dichalcogenides for Label-free Electrochemical Gas-sensing Applications	Sayan Kanungo	-	BITS RIG	2,00,000
3	Studies on the design of High Power, low loss power driver and combiner	Harish V Dixit	-	BITS RIG	2,00,000
4	Design and Implementation of Hardware Architectures for Media Processing Applications	Syed E Ahmed	-	BITS RIG	2,00,000
5	Condition Monitoring and Diagnosis of High Voltage Transmission Line Insulators Under the Influence of Extreme Environmental Conditions	Mithun Mondal	-	BITS RIG	2,00,000
6	Nano-Scale Power Management Interface Circuits for IoT Node	Saroj Mondal	-	BITS RIG	2,00,000

S.No	Project Name	Principal Investigator	Co-Investigator	Funding Agency	Sanctioned Amount (INR)
7	Wavelet based pattern recognition and motor current signature analysis of stator winding faults due to insulation failure in industrial machines	Sudha Radhika	-	BITS RIG	2,00,000
8	Simulation Design and Modelling of Vertical Heterostructure Transition Metal Dichalcogenides for Label-free Electrochemical Gas Sensing Applications	Sayan Kanungo	-	BITS RIG	2,00,000
9	Cleanroom free solution processed fabrication of flexible nanoelectronic devices for sensing applications	Parikshit Sahatiya	-	BITS RIG	2,00,000
10	Detection of sleep related disorders from various physiological signals using multiscale analysis and deep neural network	Rajesh Kumar Tripathy	-	BITS RIG	2,00,000
11	Design and Synthesis methodologies for CNFET-based Multi-Valued Logic Circuits.	Chetan Kumar V	-	BITS RIG	2,00,000
12	Design and development of an instrumentation system to measure dynamic signals	R. N. Ponnalagu	-	BITS RIG	2,00,000
13	Development of a New Vegetable-Oil-Based Dielectric Fluid for Liquid-Filled Transformers	Mithun Mondal	-	BITS CRG	8,00,000
14	Condition Monitoring and Diagnosis of High Voltage Transmission Line Insulators Under the Influence of Extreme Environmental Conditions	Syed E Ahmed	-	BITS RIG	2,00,000
15	Nano-Scale Power Management Interface Circuits for IoT Node	Mithun Mondal	-	BITS CRG	8,00,000
16	Wavelet based pattern recognition and motor current signature analysis of stator winding faults due to insulation failure in industrial machines	Saroj Mondal	-	BITS RIG	2,00,000
17	Direct growth of 2D materials by Chemical Vapor Deposition (CVD) on flexible substrates and its application in wearable electronics	Parikshit Sahatiya	-	BITS-CRG	10,00,000
18	RISC-V based Approximate Processor and its FPGA Prototype for Image processing Applications	Chetan Kumar V	-	BITS-CRG	4,70,000
19	Design and development of an AI-based Remote Fault Signature Analyzer (ReFSA) for condition monitoring of rotor bar failures in an Industrial electrical machine	Sudha Radhika	-	BITS-CRG	9,80,000
20	Black TiO ₂ nanotubes for detection and degradation of pollutants in drinking water	Karumbaiah C N	-	BITS-CRG	10,00,000
21	Synthesis of nano-porous metal oxide composite material for water splitting application	Karumbaiah C N	-	RIG	2,00,000
22	Design and Development of an optimized Electrical Interface for Smart Hybrid Microgrid and Energy Storage for Peak Load Saving	Ankur Bhattacharjee	-	RIG	2,00,000
23	Miniaturization and Enhancement of port isolation of MIMO antennas	Sourav Nandi	-	RIG	2,00,000

3. COMPLETED PROJECTS

A. Completed Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Studies and Multiphysics Simulation of Mode Converters for Application in Directed Energy Weapons (DEWs)	EEE	Dr. Harish Dixit	Dr. Runa Kumari	RCI-DRDO	-	4,17,000

B. Completed Industry Projects - NIL -

C. Completed International Projects - NIL -

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Development of Microfluidic Enzymatic Biofuel Cell	EEE	Sanket Goel	-	BITS RIG	-	2,00,000

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty in Journals

- Puneeth, S. B., & Goel, S. (2019). Amperometric automation and optimization paper microfluidic viscometer. *IEEE Sensors Letters*, 3(3), 1-4.
- RK Tripathy, A Bhataacharyya, RB Pachori (2019). A Novel Approach for Detection of Myocardial Infarction from ECG signals of Multiple Electrodes. *IEEE Sensors Journal*, 19, 4509 – 4517.
- P. Veda Bhanu, Pranav Venkatesh Kulkarni, Soumya J (2019). Butterfly-Fat-Tree Topology based Fault-Tolerant Network-on-Chip Design using Particle Swarm Optimization accepted for publication in *Journal of Experimental & Theoretical Artificial Intelligence*.
- P. Veda Bhanu, Pranav Venkatesh Kulkarni, U. Anil Kumar, J. Soumya (2019). Butterfly-Fat-Tree Topology-Based Fault-Tolerant Network-on-Chip Design Using Particle Swarm Optimization Book title: *Harmony Search and Nature Inspired Optimization Algorithms*, Book Series: *Advances in Intelligent and Soft Computing*, Volume: 741, Publisher: Springer Nature Singapore Pte Ltd. Book ISBN: 978-981-13-0760-7, Book ID: 461655_1_En, Chapter 108
- Monil Shah, Mohit upadhyay, P. Veda Bhanu, J. Soumya, Linga Reddy Cenkeramaddi (2019). A Novel Fault-Tolerant Routing Algorithm for Mesh-of-Tree Based Network-on-Chips. Book title: *VLSI Design and Test*, Book Series: *Communications in Computer and Information Science*, Volume: 892, Publisher: Springer Nature Singapore Pte Ltd., Book ISBN: 978-981-13-5949-1, Book ID: 479122_1_En, Chapter.
- RK Tripathy, Mario R. A. Paternina, Juan G. Arrieta, Alejandro Zamora-Mendez, and Ganesh R. Naik (2019). Automated Detection of Congestive Heart Failure from Electrocardiogram Signal using Stockwell Transform and Hybrid Classification Scheme. *Computer Methods and Programs in Biomedicine (Elsevier)*, 173, 53-65.
- Viswabhargav Ch.S.S.S, RK Tripathy, U R Acharya (2019). Automated Detection of Sleep Apnea using Sparse Residual Entropy Features with Various Dictionaries extracted From Heart rate and EDR signals. *Computers in Biology and Medicine, Elsevier*.
- Haroon Khan, Chul Min Kim, Sung Yeol Kim, Sanket Goel, Prabhat K. Dwivedi, Ashutosh Sharma, Young Ho Kim, Gyuman Kim (2019). Fabrication of an Enzymatic Biofuel Cell with Electrodes on Both Sides of a Microfluidic Channel. *International Journal of Precision Engineering and Manufacturing-Green Technology (Springer)*, 6, 511-517.
- Madhavi Bandapati, Balaji Krishnamurthy and Sanket Goel (2019). Fully Assembled Membraneless Glucose Biofuel Cell with MWCNT Modified Pencil Graphite Leads as Novel Bioelectrodes. *IEEE Transactions for Nanobioscience*, 18(2), 170-175.
- Chaitali Mankar, Prakash Rewatkar, Mayuri Dhone, Suresh Balpande, Jayu Kalambe, Rajesh Pande, Sanket Goel (2019). Paper based Microfluidic Microbial Fuel Cell to Harvest Energy from Urine. *Sensors Letters*, 17, 69–74.
- Puneeth S B and Sanket Goel (2019). 3D Printed Microfluidic Paper-based Analytical Device with Integrated Screen-printed Electrodes for Automated Viscosity Measurements. *IEEE Transactions on Electron Devices*, 66(7), 3196-3201.
- Sandeep Kumar and Runa Kumari (2019). Composite Right/Left-Handed Wideband Metamaterial Antenna Loaded with SRRs and CSRRs to Improve Gain and Efficiency. *IET Microwave, Antennas and Propagation*, 13(9), 1467 – 1474.
- Runa Kumari and Santanu Kumar Behera (2019). Capacitive coupled Frequency Independent Dielectric Resonator Antenna Array for X-band Applications. *IETE Journal of Research (TIJR)*, Taylor & Francis.
- Swapna Challagundla, Shaikshavali Chitraganti, Samir Aberkane. (2019). Event-based state estimation under the presence of multiplicative measurement noise. *IEEE Control System Letters*, 3(3), 625 – 630.

15. Himabindu.T, A.V.Ravi Teja, G.Bhuvanewari, Bhim Singh (2019). Performance Enhancement in a Multilevel Inverter Fed Induction Motor Drive by Optimal Voltage Vector Selection. *International Journal of Power Electronics and Drive System*, 10(2), 801- 812.
16. Sandeep Kumar and Runa Kumari (2019). Bandwidth Enhanced CPW-Fed CRLH Antenna Loaded with Resonating Rings. *IET Microwave, Antennas and Propagation*.
17. Madhavi Bandapati, Sanket Goel and Balaji Krishnamurthy (2019). Platinum Utilization in Proton Exchange Membrane Fuel Cell and Direct Methanol Fuel Cell: A Review. *Journal of Electrochemical Science and Engineering*.
18. Dipankar Nath, Pichkari Sai Kiran, Prakash Rewatkar, Balaji Krishnamurthy, P. Sankar Ganesh and Sanket Goel (2019). Escherichia coli fed Paper based Microfluidic Microbial Fuel Cell with MWCNT Composed Bucky Paper Bioelectrodes. *IEEE Transactions on NanoBioscience*, 18(3), 510-515.
19. Prakash Rewatkar and Sanket Goel (2019). Next Generation 3D Printed Membraneless Microfluidic Enzymatic biofuel Cell: Cost-effective and Rapid Approach. Accepted for publication with *IEEE Transactions on Electron Devices*, [Early access available].
20. Puneeth S B, Mary Salve, Akshatha R and Sanket Goel (2019). Realization of Microfluidic Paper-based Analytical Devices using a 3D printer: Characterization and Optimization. Accepted for publication with *IEEE Transactions on Device and Materials Reliability*.
21. Prakash Rewatkar and Sanket Goel (2019). Microfluidic Paper based Biofuel Cell to Harvest Energy from various Beverages. Accepted for publication with *Journal of Electrochemical Science and Engineering*.
22. G O Zhdanova, E Yu Konovalova, M Yu Tolstoy, A V Kashevsky, L Barbora, P Goswami, S Goel, V A Fialkow, A B Kupchinsky and D I Stom (2019). Comparative Analysis of Electrogenic Activity of Complex Microbial Preparations in Microbial Fuel Cells. *IOP Conference Series: Earth and Environmental Science*, 272, 032161.
23. Karumbaiah N.Chappandaa, ArnaudChaixcSandeep G.SuryabBasem A.MoosacNiveen M.KhashabcKhaled N.Salama (2019). Trianglamine hydrochloride crystals for a highly sensitive and selective humidity sensor. *Sensors and Actuators B: Chemical*, 294, 40-47.
24. Venkateswaran Rajagopalan and Erik P.Pioro (2019). Longitudinal 18F-FDG PET and MRI Reveal Evolving Imaging Pathology That Corresponds to Disease Progression in a Patient with ALS-FTD. *Frontiers in Neurology Front. Neurol.*, <https://doi.org/10.3389/fneur.2019.00234>
25. Venkateswaran Rajagopalan and Erik P.Pioro (2019). Unbiased MRI Analyses Identify Micropathologic Differences Between Upper Motor Neuron-Predominant ALS Phenotypes. *Frontiers in Neuroscience Front. Neurosci.* <https://doi.org/10.3389/fnins.2019.00704>.
26. Pranjali Gajbhiye, RK Tripathy, A Bhatacharyya, RB Pachori (2019). Novel Approaches for the removal of motion artifacts from EEG recordings. *IEEE Sensors Journal*, (Accepted).
27. RK Tripathy, A Bhatacharyya, RB Pachori (2019). Localization of Myocardial Infarction from Multi-Lead ECG Signals using Multiscale Analysis and Convolutional Neural Network. *IEEE Sensors Journal*, (accepted).
28. Venkatarao Selamneni, Priyash Barya, Nirmitt Deshpande and Parikshit Sahatiya (2019). Low-cost, disposable, flexible and smartphone enabled pressure sensor for monitoring drug dosage in smart medicine applications. *IEEE Sensors Journal*, (Accepted).
29. P. Joshna, S.R.G, P. M. P. Raj, B.V.V.S.N.P. Rao, P. Sahatiya, Souvik Kundu (2019). Plasmonic Ag nanoparticles arbitrated enhanced photodetection in p-NiO/n-rGO heterojunction for future self-powered UV photodetectors. *Nanotechnology (IOP, UK)*, 30, 365201.
30. B Suresh, PKR Boppidi, BVVSNP Rao, S Banerjee, Souvik Kundu (2019). Realizing spike-timing dependent plasticity learning rule in Pt/Cu:ZnO/Nb:STO memristors for implementing single spike based denoising autoencoder. *Journal of Micromechanics and Microengineering (IOP, UK)*, 29, 085006.
31. Tatahaga Sarkar, Ankur Bhattacharjee*, Hiranmay Samanta, Konika Bhattacharya, Hiranmay Saha (*Corresponding author) (2019). Optimal design and implementation of Solar PV-Wind-Biogas-VRFB storage integrated smart hybrid microgrid for ensuring zero loss of power supply probability. *Energy Conversion and Management, Elsevier*, 191,102-118.
32. Lanka Tata Rao, Sanket Goel, Satish Kumar Dubey and Arshad Javed (2019). Performance Investigation of T-Shaped Micromixer with Different Obstacles. *Journal of Physics: Conference Series*, 1276(1).
33. Prakash Rewatkar, Vivek Pratap Hitaishi, Elisabeth Lojou and Sanket Goel (2019). Enzymatic fuel cells in microfluidic environment: status and opportunities. A mini review *Electrochemistry Communications* (accepted).

34. Sohan Dudala, Satish K Dubey and Sanket Goel (2019). Fully Integrated, Automated and Smartphone enabled Point-of-Source Portable Platform with Microfluidic Device for Nitrite Detection. *IEEE Transactions on Biomedical Circuits and Systems* (accepted).
35. Sabyasachi Banerjee, C.S. Amith, Deepak Kumar, Ganesh Damarla, Anil Kumar Chaudhary, Sanket Goel, Bishnu P. Pal, and Dibakar Roy Chowdhury (2019). Ultra-thin subwavelength film sensing through the excitation of dark modes in terahertz metasurfaces. *Optics Communications*, 453, 12436.
36. Prakash Rewatkar and Sanket Goel (2019). 3D Printed Bioelectrodes for Enzymatic Biofuel cell: Simple, Rapid, Optimized and Enhanced Approach. Accepted for publication with *IEEE Transactions on Nanobioscience*.
37. T. Siddharth, RK Tripathy, Ram Bilas Pachori (2019). Detection of Focal and Non-focal Seizures from EEG Signals using Sliding Mode Singular Spectrum Analysis. *IEEE Sensors Journal*, (Accepted).
38. P Michael PreetamRaj, Srinivasan M.P, Souvik Kundu (2019). Alternative Approaches to Program Memristor and Reduce the Effect of Random Telegraphic Noise. *IETE Journal of Research* (Taylor & Francis, UK, accepted) <https://doi.org/10.1080/03772063.2019.1670105>
39. P Michael PreetamRaj, Jeffry V., S. K. Chatterjee, S.Kanungo, and Souvik Kundu (2019). Ferroelectric Memristive Networks for Dimensionality Reduction: A Process for Effectively Classifying Cancer Data Sets. *Integrated Ferroelectrics* (Taylor & Francis, UK, accepted).
40. P Michael PreetamRaj, V. J. Louis, V. Aditya, Souvik Kundu (2019). A Simple Design of Memristive Counters and their Applications in Automatic Irrigation System. *IET Circuits, Devices & Systems* (IET, UK, accepted). (<https://digital-library.theiet.org/content/journals/10.1049/iet-cds.2019.0218>)
41. Anwarhussaini SD, H. Battula, PKR Boppidi, Souvik Kundu, C. Chakraborty, J. Subbalakshmi, (2019). Photophysical, electrochemical and flexible organic resistive switching memory device application of a small molecule: 7,7-bis(hydroxyethylpiperazino) dicyanoquinodimethane *Organic Electronics*, Elsevier, 76, 105457.
42. Hari Priya, T, Alivelu M. Parimi (2019). Energy Management System for PV—Wind and Battery-Fed DC Microgrid Using Fuzzy-Based Proportional Integral Controller. Book Chapter: Applications of Computing, Automation and Wireless Systems in Electrical Engineering. *Lecture Notes in Electrical Engineering*, Springer, Singapore, 55, 31201-1211.
43. Ahmad Waseem, Souvik Kundu, Kannan Ramaswamy, H. V. Balasubramanian (2019). Influence of transition metal ion doping on structural and dielectric properties of sol - gel synthesized bismuth ferrite nanoceramics *IEEE Explore* (Accepted, Scopus Indexed).
44. PKR Boppidi, S. Siddhartha Raman, Renuka H, and Souvik Kundu (2019). Pt/Cu:ZnO/Nb:STO Memristive Dual Port For Cache Memory Applications. *AIP Proceedings* (Accepted, Scopus Indexed).
45. Vinnakota Sarath Sankar, Basudev Majumder, and Runa Kumari (2019). Dual Polarized High Gain Resonant Cavity Antenna for RF Energy Harvesting. *International Journal of RF and Microwave Computer-Aided Engineering* (Wiley).DOI:10.1002/mmce.22003
46. Prakash Rewatkar and Sanket Goel (2019). Miniaturized Additively Manufactured co-laminar Microfluidic Glucose Biofuel Cell with Optimized Grade Pencil Bioelectrodes. *International Journal of Hydrogen Energy*.
47. Samit Kumar Ghosh, R. K.Tripathy, R. N. Ponnalagu and R. B. Pachori (2019). Automated Detection of Heart Valve Disorders from PCG Signal using Time-Frequency Magnitude and Phase Features. *IEEE Sensors Letters* (Accepted for publication).
48. P Joshna, A. Hazra, K. N Chappanda, P. K. Pattnaik and Souvik Kundu (2019). Fast Response of UV Photodetector Based on Ag Nanoparticles Embedded Uniform TiO₂ Nanotubes Array. *Semiconductor Science and Technology* (IOP, UK), 35, 015001. <https://doi.org/10.1088/1361-6641/ab52f1>
49. KN Chappanda, AZ Hajjaj, NM Batra, MAA Hafiz, P Costa, MI Younis (2019). Miniature pressure sensor based on suspended MWCNT. *Sensors and Actuators A: Physical* 292, 11-16.
50. Sandeep G. Surya, Sreenu Banoth, Sanjit M. Majhi, Yogeshwar D. More, Mani Teja, Karumbaiah. N. Chappanda (2019). Silver Nanoparticles anchored UiO-66 (Zr) Metal-Organic Framework (MOF) based Capacitive H₂S Gas Sensor. *Cryst Engg Comm*.
51. Sanjay Vidhyadharan, Ramakant, Simhadri Hariprasad and Surya S. Dan (2019). A Nanoscale Gate Overlap Tunnel FET (GOTFET) Based Improved Double Tail Dynamic Comparator for Ultra-Low-Power VLSI Applications. *Analog Integrated Circuits and Signal Processing*.
52. Sanjay Vidhyadharan, Ramakant Yadav, Simhadri Hariprasad and Surya Shankar Dan (2019). An Advanced Adiabatic Logic Using Gate Overlap Tunnel FET (GOTFET) Devices for Ultra-Low Power VLSI Sensor Applications. *Analog Integrated Circuits and Signal Processing*.

53. Prasanth K. Enaganti, Prabhat K. Dwivedi, Radhika Sudha, Alok K. Srivastava and Sanket Goel (2019). Underwater Characterization of Amorphous and Monocrystalline Solar Cells in Diverse Water Settings, Accepted for publication with IEEE Sensors Journal.
54. S. Surya, S. Majhi, D. Agarwal, A. A. Lahcen, S. Yuvaraja, K. N. Chappanda, K. N. Salama, (2019). A label-free aptasensor FET based on Au nanoparticles decorated Co₃O₄ nanorods and SWCNTs layer for detection of cardiac Troponin T protein. *J. Mater. Chem. B*.
55. Prasanth K. Enaganti, Prabhat K. Dwivedi, Alok K. Srivastava, Souvik Kundu, Sanket Goel, (2019) Performance Analysis of Submerged Polycrystalline Photovoltaic Cell in Varying Water Conditions, *IEEE Journal of Photovoltaics*, (Accepted, In press).

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National: - NIL -

ii) International:

1. Sanjay Vidhyadharan, Ramakant and Surya Shankar Dan. An Efficient Design Approach for Implementation of 2 bit Ternary Flash ADC Using Optimized Complementary TFET Devices in 32nd IEEE International Conference on VLSI Design 2019.
2. Ramakant, Sanjay Vidhyadharan and Surya Shankar Dan. Novel Low and High Threshold TFET Based NTI and PTI Cells Benchmarked with Standard 45 nm CMOS Technology for Ternary Logic Applications" in 32nd IEEE International Conference on VLSI Design 2019.
3. Sumit K. Chatterjee and Sravan K. Vittapu. An Efficient Motion Estimation Algorithm for Mobile Video Applications in IEEE International Conference on Advanced Computational and Communication Paradigms 2019.
4. Mohit Upadhyay, Monil Shah, P. Veda Bhanu, Soumya J., and Linga Reddy Cenkeramaddi. Multi-Application based Network-on-Chip Design for Mesh-of-Tree topology using Global Mapping and Reconfigurable Architecture in 32nd IEEE International Conference on VLSI Design 2019.
5. Aviraj Jadhav, Joseph John, Kushal Tuckley, Harish Dixit, P K Sharma. Conceptual Design of a 3.7 GHz magnetron in 20th IEEE Vacuum Electronic International Conference 2019.
6. Dinesh Kumar, Runa Kumari, Sourav Nandi. Meandering Slot Patch Antenna for UAV Applications in IEEE International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW-2019), held at NIT Tiruchirappalli, India, during 22-24 May 2019.
7. Hariharasudhan K and Runa Kumari. Metasurface Loaded Patch Antenna for Wi-Fi Applications in IEEE International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW-2019), held at NIT Tiruchirappalli, India, during 22-24 May 2019.
8. Pradeep Singh and Runa Kumari. Monopole Patch Antenna for C band Application in IEEE International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW-2019), held at NIT Tiruchirappalli, India, during 22-24 May 2019.
9. Pradeep Singh, Kota Siva Rama Krishna Chaitanya, and Runa Kumari. Microstrip Patch Antenna for application in Intelligent Transport Systems in IEEE International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW-2019), held at NIT Tiruchirappalli, India, during 22-24 May 2019.
10. Vinnakota Sarath Sankar, Basudev Majumder, and Runa Kumari. Suspended Metasurface Loaded Dual Band Dual Polarized Dipole Antenna Array with Polarization Flexibility for RF Energy Harvesting in URSI Asia Pacific Radio Science International Conference (AP-RASC 2019), New Delhi, India, during 9-15 March 2019.
11. Alejandro Zamora-Mendez; Daniel Dotta; Joe H. Chow; Rajesh K. Tripathy; Mario R. Arrieta Paternina. Data-Driven Modal Features Extraction Through the Variational Mode Decomposition Method in IEEE PES Innovative Smart Grid Technology International Conference - Latin America 2019.
12. P. Veda bhanu, Samala Jagadeesh, Vasant Bhat, Garima Agarwal, and Soumya J. FPGA Implementation of Novel Routing Algorithm for Butterfly-Fat-Tree Topology based NoC Design in 15th International Conference on PhD Research in Microelectronics and Electronics (PRIME 2019), Lausanne, Switzerland, during 15-18 July, 2019.
13. P. Veda Bhanu, Pranav Venkatesh Kulkarni, Sai Pranavi Avadhanam, Soumya J and Linga Reddy Cenkeramaddi. Multi-Application based Fault-Tolerant Network-on-Chip Design for Mesh Topology using Reconfigurable Architecture in "23rd International Symposium On VLSI Design And Test (VDAT-2019), held at Indian Institute of Technology Indore, India during July 4 - 6, 2019.

14. Deepesh Chandwani, M. Chaitanya Sai and Runa Kumari. Microstrip Patch Antenna Array for RFID Applications 3rd International Conference on Electronics and Communication and Aerospace Technology (ICECA 2019), Coimbatore, India, during 12-14 Jun 2019.
15. R Venkata Sravya and Runa Kumari. Gain Enhancement of Annular Ring Patch using Cascaded EBG in IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes, IMWS-AMP 2019, held at Ruhr University Bochum, Bochum, Germany, during 16-18 Jul. 2019.
16. Dvivedi Rohan Kumar, P. Veda Bhanu and Soumya J. Flexible Processor Architecture Design in International Conference on Distributed computing, VLSI, Electrical Circuits and Robotics (DISCOVER) held at Manipal University, Mangalore, India during July 2019.
17. Divyansh M, P. Veda Bhanu, Swarali Patil, Vipul S, Mohit D and Soumya J. Design Automation of Network-on-Chip Prototype on FPGA International Conference on Distributed computing, VLSI, Electrical Circuits and Robotics (DISCOVER) held at Manipal University, Mangalore, India during July, 2019.
18. Arun Mohan, Saroj Mondal, Surya Sankar Dan. On-Chip Threshold Compensated Voltage Doubler for RF EnergyHarvesting in 23rd International Symposium on VLSI Design and Test (VDAT), IEEE, 2019 held at Indian Institute of Technology Indore during July, 2019.
19. M.T.L. Gayatri, Gayatri Vooturi, Vamsi Devathoti, Alivelu Manga Parimi. Fundamentals and Future Prospects of Smart Grids: Indian Scenario ICISGT-2019: IEEE International Conference on Intelligent Systems and Green Technology, At Vishakhapatnam Andhra University, Andhra Pradesh during 29-30 June 2019.
20. M.T.L. Gayatri, Varimadla Mahesh, Alivelu Manga Parimi. Multi Microgrid Current Quality Conditioning using Active Custom Power Conditioner 2019 4 IEEE International Conference on Recent Trends on Electronics, Information & Communication Technology Benagaluru, Karnataka during 17-18 May, 2019.
21. M.T.L. Gayatri, Varimadla Mahesh, Alivelu Manga Parimi. Power Quality Enhancement of MMG using Active Custom Power Conditioner 2019 3rd International conference on Electronics, Communication and Aerospace Technology (ICECA) Coimbatore, India during 12-14 June 2019.
22. M.T.L. Gayatri, Alivelu Manga Parimi. Multi Microgrid Power Quality Enhancement using Distribution Power Conditioner IEEE International Conference On Computing, Power and Communication Technologies (Gucon 2019) Greater Noida, New Delhi during Sept 27-28 2019.
23. A V Pavan Kumar, G. S. Sreehari, M Vijay, Alivelu M Parimi. A Technical Implementation of Frequency Subordinate Control of WPG IEEE International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC) 2019 at Tamil Nadu during 27-28 March 2019.
24. Ahmad Waseem, Souvik Kundu, Kannan Ramaswamy, Harihara Venkataraman Balasubramanian. Tailoring the Physical Properties of Multiferroic Bismuth Ferrite Nanoceramics via Chemical Substitution for Photovoltaic Applications. ICMAT 2019 Singapore during 23-28th June 2019.
25. Alaukik Joshi, Amritanshu Tripathi and R.N.Ponnalagu. Modelling and Design of a Hybrid Aerial Vehicle Combining VTOL Capabilities with Fixed Wing Air Craft, ICA 2019, 6th International Conference on Control and Automation Indonesia during 31st July to 2nd August 2019.
26. P. Joshna and Souvik Kundu Highly Responsive p-NiO/n-rGO Heterojunction Based Self-Powered UV Photodetectors ICNN International conference 2019, Zurich, Switzerland during 16-17th Sept 2019.
27. Ahmad Waseem, Souvik Kundu, Kannan Ramaswamy, Harihara Venkataraman Balasubramanian. Influence of transition metal ion doping on structural and dielectric properties of sol - gel synthesized bismuth ferrite nanoceramics 2019 IEEE International Symposium on Applications of Ferroelectrics (ISAF) EPFL Lausanne, Switzerland during July 14-19, 2019.
28. Samit Kumar Ghosh and R.N.Ponnalagu. A Novel Algorithm based on Stockwell Transform for Boundary Detection and Segmentation of Heart Sound Components from PCG signal, 16th IEEE INDICON International conference 2019 Rajkot, Gujarat during 13-15 Dec 2019.
29. Sudipta Ranjan Subudhi and R.N.Ponnalagu. An Intelligent Shopping Cart with Automatic Product Detection and Secure Payment System i16th IEEE INDICON International conference 2019 Rajkot, Gujarat during 13-15 Dec 2019.
30. P. Veda Bhanu, Soumya J. Fault-tolerant Application-Specific Network-on-Chip Design Using Discrete Particle Swarm Optimization 2019 14th International Conference on Industrial and Information Systems (ICIIS) University of Peradeniya, Sri Lanka during 18-20 December, 2019.
31. N. RajaSekhar, R. Ramana Reddy, Runa Kumari, and R. Sowjanya. Performance Analysis of Conical Dielectric Resonator Antenna with Various Feeding Techniques IEEE Indian Conference on Antennas & Propagation (InCAP-2019) Ahmedabad, India during 19-22 December, 2019.

32. Rutuja Gomase and Sourav Nandi. A Circular Patch Dual-Band MIMO Antenna for Sub-6 GHz Applications IEEE Indian Conference on Antennas & Propagation (InCAP-2019) Ahmedabad, India during 19-22 December, 2019.
33. Venkateswaran Rajagopalan and Erik Pioro .Cortical thickness, white matter graph network, and 18F-FDGPET reveal abnormal brain structure and function in ALS-FTD: Neuronopathy or axonopathy 30th International Symposium on ALS/MND Perth, Australia during 6-8 Dec 2019.
34. Aditya Viswakumar, Venkateswaran Rajagopalan, Tathagata Ray, Chandu Parimi A Computer Vision Approach to Human Gait Analysis Using OpenPose International Conference on Image Information Processing Jaypee University of Information Technology during 15-17 November 2019.
35. Joshua P Pushparaj, P. Veda Bhanu, and Soumya J A Link Fault-Tolerant Routing Algorithm for Mesh-of-Tree Based Network-on-Chips 5th IEEE International Symposium on Smart Electronic Systems (ISES-2019) held at National Institute of Technology Rourkela, Odisha, India, 769008 during 16-18 December 2019.
36. Venkatarao Selamneni and Parikshit Sahatiya, Black phosphorous on paper based strain sensor for human motion monitoring, IEEE Nanomaterials and Device Conference (IEEE-NMDC), Stockholm, Sweden, October, 2019.
37. Venkataro Selamneni and Parikshit Sahatiya, SnS₂ based Near Infrared photodetector, International Workshop on Physics of Semiconductor, (IWPSD), Kolkata, 2019.
38. P. Michael Preetam Raj and Souvik Kundu, PWM Based Memristive Synaptic Learning Techniques for Applications in Econometrics, International Workshop on Physics of Semiconductor, (IWPSD), Kolkata, 2019.
39. P.Joshna and Souvik Kundu, Performance improvement in self-powered p-NiO/n-rGO heterojunction UV photodetectors through embedding plasmonic Ag nanoparticles, International Workshop on Physics of Semiconductor, (IWPSD), Kolkata, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Samit Kumar Ghosh, **R N Ponnalagu, R K Tripathy**, "Heart Sound Data Acquisition and Pre-processing Techniques: A Review", Advancement of Artificial Intelligence in Healthcare Engineering, IGI Global, doi: 10.4018/978-1-7998-2120-5, (In press), 2019.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. A hands on Workshop on LabVIEW software and hardware, for WILP BITS for faculty, July 22-25 2019, Convener:
Dr. Ponnalagu, from Dept. of EEE.
2. A hands on Workshop on LabVIEW software and hardware, for BITS students, Aug 19 to 21, 2019, Convener:
Dr. Ponnalagu, from Dept. of EEE.
3. Practical RF/Microwave Active Circuit Design with NI-AWR, January 2-6 2019, Conveners: Dr. Harish Dixit and Dr. Runa Kumari, from Dept. of EEE.
4. Workshop on Internet of Smart Sensor Things (IoSST), September 25, 2019, Convener: Prof. Sanket Goel from Dept. of EEE in collaboration with School of Engineering, Macquarie University, Australia.
5. Advanced Technologies for Enhanced Healthcare, September 25, 2019, Convener: Prof. MB Srinivas from Dept. of EEE in collaboration with School of Engineering, Macquarie University, Australia and Yashoda Hospital, Hyderabad.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Parikshit Sahatiya, Symposium on Carbon Nanomaterials Electronics, BITS Pilani, Pilani Campus, Nov, 2019 (Invited Talk)
2. Parikshit Sahatiya, National Seminar on Bio Signal processing for Healthcare Applications, K L University, Hyderabad Campus, Dec, 2019 (Invited Talk)
3. Souvik Kundu, 21st International Conference on Nanoelectronics and Nanodevices, Zurich Switzerland, 16th Sept 2019.
4. Souvik Kundu, 64th DAE Solid State Physics Symposium 2019, IIT Jodhpur, 19th Dec 2019.
5. Souvik Kundu, FDP on RECENT TRENDS AND APPROACHES IN ANALOG/ DIGITAL LOW POWER VLSI DESIGN, MLR Institute of Technonolgy, Dec 2019.
6. Harish Dixit, Microwave Applications, Vidyavardhini's college of eng. And tech. , Vasai, August 29, 2019.

7. Harish Dixit, Application of Microwaves in directed energy weapons at MCEME, Secunderabad, September 5, 2019.
8. Harish Dixit, History of Electromagnetics at KJSCE, February 12, 2019.
9. Harish Dixit Works of Maxwell and Faraday at RAIT, February 12, 2019.
10. Alivelu M Parimi, Advanced FACTS controllers and their applications in Power Systems at Geethanjili College of Engineering, 6th Sept, 2019.
11. Alivelu M Parimi, FACTS devices in Microgrids" at FDP/PDP organised in association with IEEE – PES/IAS/PELS - Jt. Chapter/Hyderabad Section at GCET on "Microgrids & BESS, Geethanjili College Hyderabad, 6th May 2019.
12. Sourav Nandi, Beamforming Networks for Phased Array Antennas, Military College of Electronics and Mechanical Engineering (MCEME), Secunderabad on 18th September, 2019.
13. R. N. Ponnalagu, Recent trends in transducers, Geethanjili College of Engineering, 15th March 2019.
14. Sanket Goel, Microfluidic Devices for Biochemical Applications, 135th TAOYAKA Program Seminar, TAOYAKA Program, Hiroshima University, Japan, 21-Jan-19.
15. Sanket Goel, 3D printing based Microfluidic Devices for Biochemical Applications, Workshop on MEMS Engineered Medicine: Breaking Barriers in Medical Diagnostics, NIT Silchar, Silchar, 14-Apr-19.
16. Sanket Goel, Renewable Energy Research: Opportunities and Way Forward Keynote lecture, Ivy League Academy, Hyderabad, 22-Jun-19.
17. Sanket Goel, Bio-microfluidic Devices: Status and Scope for High-speed vision, ILDP Faculty Exchange Program, ILDP, Hiroshima University, Japan, 2-Jul-19.
18. Sanket Goel, A Guidebook for Young Researchers, Invited Lecture, St. Ann's College for Women, Hyderabad, 17-Jul-19.
19. Sanket Goel, A Guidebook for Young Researchers, Invited Lecture, St. Ann's College for Women, Hyderabad, 17-Jul-19.
20. Sanket Goel, Microfluidic Bio-devices: Case studies from Engineering Perspective, Medical Innovation and Design Thinking 2019, BITS-Pilani, Hyderabad Campus, 2-Aug-19.
21. Sanket Goel, Rapidly Prototyped Microfluidic Devices for Biochemical Applications, Microfluidics and Lab-on-a-chip 2019, Selectbio India, Mumbai, 13-Sept-19.
22. Sanket Goel, Nanotechnology for Sensing Applications, MCEME, Hyderabad, 16-Sept-19.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Advancement in the Field of High Voltage Engineering by Dr. Pradeep Nirgude Additional Director and Unit Head of UHV Research Laboratory, Central Power Research Institute (CPRI), Hyderabad, September 21, 2019.
2. Technology Pillars from Generation to Utilization towards Efficient and Reliable, "Smart Grid" by Dr. Balakrishna. P, Sr Lead Technical Application Engineer from GE Hyderabad Technology Center, Hyderabad, Nov 13, 2019.
3. Computational modelling of particle and droplet flows by Dr Fatemeh Salehi (Macquarie U, Australia) Nov 21st, 2019.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Dr. Souvik Kundu was appointed by VC, JNTU Hyderabad as an expert for Faculty Selection at KG REDDY COLLEGE OF ENGINEERING & TECHNOLOGY, Jan 2019.
2. Dr. Sanket Goel became associate editor for IEEE Sensors and IEEE Access Journals
3. Dr. Parikshit Sahatiya received Outstanding Reviewer award from IOP Materials Research Express Journal in 2019.
4. Dr. Karumbaiah C N received Outstanding Reviewer award from Sensors & Actuators B Journal in 2019..
5. Dr. Sanket Goel received Visiting fellowship from TAOYAKA Program, Hiroshima University, Jan 2019.
6. Dr. Runa Kumari became Secretary, MTT/AP/EMC Society Jt. Chapter, IEEE Hyderabad Section and also promoted to IEEE Senior Member.

7. Dr. Sanket Goel has become the Visiting Associate Professor with the UiT he Arctic University of Norway, February 2019 onwards.

b. Won by Students:

1. Students attended Industrial work/interns at Qualcomm, Google, CEE Ahmedabad, SanDisk, Inodaatatics, etc.
2. Sarthak and Yohan did their B.Tech thesis at Korea and US, respectively. Jeffry is visiting Technion-Israel for the same.
3. Students attended (also going to attend) summer internships at prestigious Universities in Singapore, Paris, Canada, and Germany with fellowships like DAAD, MITACS Globalink, etc.
4. Student Teams from EEE Department participated in E-Yantra (National level competition) and Launchpad.
5. N. Madan has participated (ranked 50/6733) in Flipkart grid challenge, whereas A. Dubey participated Hackharvard (ranked 9/650). M. Gupta & R. Singh participated Texas Instruments India Innovation Challenge.
6. K Parvatha, Naresh Sonti, Akash K and Sai Teja Selected for final round - Anveshan Fellowship 2019 (Analog Devices)
7. SIP Project grants received by Parasuram IVLN, Dhanvanth Balakrishnan, Jay Karhade, Digvijay Singh, and Prasad Gole.
8. Naren Surampudi AIR 28 in the ZS Young Data Science Challenge 2019 Final Select in Invesco Hack2Hire 2019.
9. Priyash Barya got selected for the MITACS Globalink Summer Research Internship 2019. Through the program, she got a fully-funded opportunity to work at the University of Alberta, Canada for 3 months.
10. Prathamesh Saraf got accepted the Presentation in IEEE INDICON Conference 2019. Conference paper on a project 'A Convolutional Neural Networks approach Towards Self Driving Cars'.
11. K G Sankalp Won the First prize at Tech expo during ATMOS 2019 worth 45K for demonstrating prototype of novel biosensor for detection of cancer from saliva.
12. Abhishek Khurana made a 3d scanner that can be used to scan and hence obtain a mesh for any object. He backed the 4th prize in TechExpo, Atmos 2019 for the same.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Dr. Soumya J was a visiting Scholar, University of New South Wales (UNSW), Sydney, Australia, during May 2019 to July 2019 under University Immersion Program from BITS-Pilani.
2. Dr. Sanket Goel, Microfluidic Devices for Biochemical Applications, 135th TAOYAKA Program Seminar, TAOYAKA Program, Hiroshima University, Japan, 21-Jan-19.
3. Dr. Sanket Goel, Bio-microfluidic Devices: Status and Scope for High-speed vision, ILDP Faculty Exchange Program, ILDP, Hiroshima University, Japan, 2-Jul-19.
4. Dr. Sanket Goel has ` the Visiting Associate Professor with the UiT he Arctic University of Norway, February 2019 onwards.

12. PATENTS FILED/PUBLISHED AND GRANTED

1. Microfluidics Based Integrated Based Integrated System for Nitrite and Nitrate Detection and Analysis, Sohan Dudala, Satish K Dubey and Sanket Goel, 201911004347, Filed, 4 Feb 2019.
2. A Microfluidic Electro-Viscometer to Determine Relative Viscosity of a Fluid, Sanket Goel and Puneeth S B, Indian Patent, filed, 201911049248, Nov-19.

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

1. Technical Association Orientation for Freshers; 14th August

The 2019 batch were introduced to the PHoEnix association. They were informed about its functions and the criteria for inductions.

2. Faculty Student Interaction; 3rd September

The association organized an interaction between the faculty and the students. The students received guidance on how to navigate their academics and maintain a good balance between studies and other activities. They also received advice on how they could further some of their academic aspirations (like research and higher studies) as well.

3. SciTech Quiz; 17th September

The association organized a quiz for the general body. The quiz was based round science and technology trivia. Students took parts in teams of two and tried to crack the questions that were put in front of them. With a prize pool of ₹1.5k, the event saw considerable participation.

4. MCEME visit; 10th October

The association organized a trip to MCEME where students attended a technical seminar. Participants got a chance to interact with some of the instructors as well and learn about the daily lives of the cadets who were being trained there. They also got a chance to see the equipment used to help train the engineer corps of our armed forces as well as learn about some of the equipment that was being used by the army. In all, it was a instructive and inspirational activity, which received positive feedback.

5. Quadcopter workshop; 12th – 13th October

The association organized a two-day workshop, where students were taught some basic theory about quadcopters, as well as how to assemble and fly their own drones. The PHoEnix Tech Team played the role of instructors and the hard work of the participants was rewarded when they got a chance to see their drones. The event was received with great enthusiasm and saw the participation of 57 teams.

6. RoboWars; 19th-20th October

One of the headliner events of ATMoS, our college's technical fest. With a prize pool of 65K, the event saw the participation of multiple teams. The fixtures consistently saw big crowds and evoked interest in the fest participants.

7. Game of Drones; 19th-20th October

Another headliner event of ATMoS, the event saw increased participation from last year. Participants had to fly their quadcopters along the course, with points being awarded based on multiple factors. Students who had participated in the quadcopter workshop also had the opportunity to participate.

8. Line and Wall Follower competition; 18th – 19th October

One of the competitions conducted by the association during ATMoS. Participants had to build their own bot from the ground up and equip it to navigate the track set up by our tech team. The event saw considerable participation and was a huge success.

9. Paper Presentation; 18th-19th October

Our fourth competition during ATMoS, in which applicants first sent us an abstract of their project through email. The shortlisted applicants then had to give a presentation in front of a panel of judges, and their presentations were evaluated to decide the winner. The event saw participation from students with backgrounds in EEE, ECE and EIE.

10. Tech expo; 19th October

The association took part in the Tech Expo that was held during ATMoS, submitting three projects for the same:

- **3D Scanner:** An innovative approach to convert any 3D object into a CAD file, this project uses just a single camera utilizing the laser plane equations to get the depth instead of the current multi-camera models reducing the cost from ₹50k to just ₹1k
- **Obstacle avoiding drone:** Simple, innovative, cheap and having multiple applications, this is a removable extension to any drone which prevents collisions through the use of four ultrasonic sensors.
- **3D display through persistence of vision** Scaling the currently available technology, this project aims to create a display capable of displaying moving 3D images at low cost using the concept of persistence of vision without the utilization of lasers or mist.

11. IoT Workshop; 18th – 19th October

With IoT being an emerging field, the association decided to conduct a workshop in order to help students expand their skill set. Conducted during ATMoS, the workshop was held over the course of two days, and students got hand-on experience when it came to applying IoT based technology.

12. Underwater Robotics workshop; 19th - 20th October

Taking in to account the large number of students exhibiting an interest in robotics, the association decided to conduct a workshop on the same during ATMoS. During the workshop, the participants learnt how to build and deploy a submersible, thus helping further their passion in robotics.

13. Student Mentorship Programme; 2nd November

In order to help further the technical culture on campus, the association, in collaboration with the Automation and Robotics Club, conducted the first session of SMP. It was taken by Akhil Raj Baranwal, a fourth year and the ex-secretary of ARC. He spoke to juniors on how even the uninitiated can get into tech if they are hard-working and dedicated enough. It was a fruitful endeavor for everyone present.

14. Eureka; 19th November

In order to help students test their problem-solving skills, the association decided to conduct a quiz. Participants were given problem statements which they could ponder over, either in teams of two or individually if they were feeling up to it. They then had to describe how they would solve the problem using the technology that is present today. It gave them a way to find innovative solutions to some daily problems faced by students.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	Synopsis TCAD	5
2.	ADS Microwave software has been included at Microwave Lab	5
3.	Mentor Graphics HEP-2	30
4.	Synopsys RSoft CAD Tool	3
5.	IntelliSuite Software FEA Suite	2
6.	A state-of-the art new High Voltage lab	1
7.	CO2 Laser Engraver	1
8.	Direct UV Laser writer	1
9.	NI USRP-2922, 400 MHz to 4.4 GHz Software Radio Kit	6
10.	Optical Profilometer	1
11.	Electrochemical workstation	1
12.	High-speed vision cameras	1
13.	Surface Tensiometer / Contact angle measurement system	1
14.	Four-probe Conductivity meter	1
15.	Ink-jet based PCB maker	1

B3.10.7 Department of Economics and FinanceNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	1
Associate Professors	1
Assistant Professors	14
Lecturers	-
Visiting Faculty	-
Visiting Assistant Professors	-

Head of the Department : Dr. Sudatta Banerjee

Contact details : 040-66303625

Number of Ph.D. Scholars:

Full Time : 09

Part Time : 14

Aspirant Scheme : 04

Ph.D. Thesis Submitted during the year: 2019 – NIL -**1. SPONSORED RESEARCH AND CONSULTANCY****PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Financial Inclusion through Urban Cooperative Banks: An Exploratory Study of Telangana State	Economics & Finance	Dr. Mini Thomas	-	IMPRESS-ICSSR	-	5,60,000
2	Does Financial Awareness lead to Better Financial Inclusion Outcomes? An Investigatio	Economics & Finance	Dr. Durgesh Ch Pathak	Dr. Rishi Kumar	IMPRESS-ICSSR	-	4,50,000
3	Impact of the ex-gratia for farmers' suicide on the surviving family member of the deceased farmers in Telangana	Economics & Finance	Dr. Thota Nagaraju	-	IMPRESS-ICSSR	-	4,00,000
4	Sustainability of Cashless Banking in Unorganized Retail Sector: A Comparative Study of Two Districts of Telangana	Economics & Finance	Dr. Archana Srivastava and Dr. Rishi Kumar	-	IIBF, Mumbai	-	2,50,000
5	Impact of Modern Organized Multi Brand Retail Trade (MOMBRT) on Street Vendors: Case Study of Two Capital Cities (Hyderabad and Bhubaneswar)	Economics & Finance	Dr. Archana Srivastava	-	ICSSR	-	4,50,000

B. Industry Sanctioned Projects - NIL -**C. International Sanctioned Projects - NIL -****D. Institute Sanctioned Projects - NIL -**

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Women's Employment, Interstate Variations and Time-use: A Comparative Study of Bihar and Andhra Pradesh	HSS and Economics & Finance	Dr. Sunny Jose and Dr. Bheemeshwar Reddy A (Joint PI-s)	-	Azim Premji University	-	11,88,000

B. Ongoing Industry Projects - NIL -**C. Ongoing International Sanctioned Projects - NIL -****D. Ongoing Institute Projects - NIL -****3. COMPLETED PROJECTS****A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Determinants of Women Empowerment and Trickle-Down Effect of the Same on Children's Overall Educational and Health Development: Challenges, Effects and Intervention through Training	Economics & Finance	Dr. Sudatta Banerjee	Dr. Swati Alok	ICSSR	-	4,00,000
2	Investigation of Knowledge on Dengue Fever Followed by Education and its Post Impact Behavioral Changes Among the Rural Communities of Shameerpet Mandal of Ranga Reddy District of Telangana State	Pharmacy and Economics & Finance	Prof. A. Sajeli Begum	Dr. Swati Alok	ICMR/ICSSR	-	10,89,792

B. Completed Industry Projects - NIL -**C. Completed International Projects - NIL -****D. Completed Institute Projects - NIL -****4. LIST OF RESEARCH PUBLICATIONS IN INDEXED JOURNALS****Papers Published by Faculty in Journals**

1. A Sajeli begum, Swati Alok and Samrun Nessa (2019). "Larval survey and spatial epidemiological analysis of vector Aedes aegypti to study the risk of dengue outbreak in India," Geo journal, (<https://doi.org/10.1007/s10708-019-10060-y>)
2. Bheemeshwar Reddy A (2019), "Economic Independence and Social Security among India's Elderly," Economic and Political Weekly, 54(39), pp. 32-41. (with Srinivas Goli, K S James, Venkatesh Srinivasan). (<https://www.epw.in/journal/2019/39/perspectives/economic-independence-and-social-security-among.html>)
3. Bheemeshwar Reddy A (2019), "New Reservation Policy: Is It Empirically Justifiable?" Economic and Political Weekly, 54(23), pp. 12-14.(with Sunny Jose, Pindiga Ambedkar, Vikranth Sagar Reddy, V S Nishikanth). (<https://www.epw.in/journal/2019/23/commentary/new-reservation-policy.html>)
4. Jadyappa, N., Iyer, S., & Jyothi, P., (2019) "Does social responsibility improve firm value? Evidence from mandatory corporate social responsibility regulations in India" International Review of Finance, Forthcoming; <https://doi.org/10.1111/irfi.12282>

5. Jادیappa, N., Jyothi, P., Sireesha, B., & Hickman, E., (2019) "Multiple banking relationships, agency costs and firm value: Evidence from India" *Manegerial Finance*, Forthcoming; <https://doi.org/10.1108/MF-12-2018-0619>
6. Jادیappa, N., Saikia, N., & Parikh, B. (2019). "Does Debt Diversification lead to a Discount in Firm Value?" *Applied Finance Letters*, 8, pp. 24-30
7. Shreya Biswas. (2019). "Do Audit Fees Adjust Quickly?—Evidence from India". *Global Business Review*. <https://doi.org/10.1177/0972150919843382>
8. Sudatta Banerjee, Swati Alok, Supriya Lakhtakia and Mousumi Singha Mahapatra, 2019 "Determinants of Women Empowerment and Effect on Children's Overall Health Development", *IASSI Quarterly: Contributions to Indian Social Science*, 38(2), pp. 276-291
9. Sunny Kumar Singh (2019), : "Revisiting Institutional Determinants of Remittances: Evidence from a Large Panel of Countries", *Economics Bulletin*, 39(4), pp. 2247-2257
10. Thomas, Mini P. (2019). "Impact of Services Trade on Economic Growth and Current Account Balance: Evidence from India." *The Journal of International Trade & Economic Development* 28(3): 331-347. Taylor & Francis
11. Thota Nagaraju (2019), "Market reaction to banks revenue diversification strategy: evidence from India.", *Applied Economics Letters*, pp 1-5. : doi.org/10.1080/13504851.2019.1606400
12. Thota, Nagaraju, and A. C. V. Subrahmanyam (2019), "Bank Total Factor Productivity Convergence: Evidence from India." *Finance Research Letters*: 101357. doi.org/10.1016/j.frl.2019.101357

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Dr. Archana Srivastava presented a paper on the topic "Determinants of Credit Accessibility to the Street Vendors of India – A Study of Telangana State" held during 08th – 10th January, 2019 at 55th Annual Conference of the Indian Econometric Society (TIES) held in National Institute of Securities Markets, Mumbai, India.
2. Dr. C H Yaganti & Mr. A Prasad presented a paper on the topic "Financial Markets Integration in India: An ARDL Approach" held during 08th – 10th January, 2019 at 55th Annual Conference of the Indian Econometric Society (TIES) held in National Institute of Securities Markets, Mumbai, India.
3. Dr. Sudatta Banerjee presented a paper on the topic "Determinants to Build a More Inclusive Women Talent Pipeline: A Study Among IT Women of Hyderabad, India" held during 08th – 10th January, 2019 at 55th Annual Conference of the Indian Econometric Society (TIES) held in National Institute of Securities Markets, Mumbai, India.
4. Dr. Nagaraju Thota presented a paper on the topic "The Determinants of Commercial Banks Profitability in India" held during 08th – 10th January, 2019 at 55th Annual Conference of the Indian Econometric Society (TIES) held in National Institute of Securities Markets, Mumbai, India.
5. Dr. Sunny Kumar Singh presented a paper on the topic "Corruption and Stock Price Volatility: Firm-Level Evidence" held during 29th – 30th July, 2019 at 23rd Biennial Conference 2019, Association of Indian Economic and Financial Studies, Odisha, India, 2019 held in Xavier University (XUB) City Campus, Xavier University, Bhubaneswar, Odisha, India.
6. Dr. Nemiraj Jادیappa presented a paper on the topic "Financial Reforms and Structure of the Financial Systems" held during 16th – 17th August 2019 at Systems at Third Annual Conference in Bhubaneswar at IMI Bhubaneswar.
7. Dr. Nemiraj Jادیappa presented a paper on the topic "Arms-length Bond Markets and Capital Structure of Firms: A cross country study in Emerging trends in corporate finance and financial markets" held during 06th – 07th September 2019 at SMDIMD Mysuru.
8. Dr. Durgesh Chandra Pathak and Dr. Rishi Kumar presented a paper on the topic "Domestic Violence against Indian Women: Understanding the Trends and Factors" held during 17th – 20th September, 2019 at the 25th Asia-Pacific Joint Regional Social Work Conference-2019, held at NIMHANS convention centre, Bengaluru.
9. Dr. Nemiraj Jادیappa presented a paper on the topic "Energy intensity, stock markets and firm financing choices: Evidence from India" held during 08th – 09th November 2019 in Rajagiri Conference on Economics and Finance, Cochin.
10. Mr. Sanjay M & Dr. C H Yaganti presented a paper on the topic "Valuation of embedded location options for Indian agricultural commodity futures" held during 8th and 9th November 2019 at 1st Rajagiri Conference on Economics and Finance, Rajagiri Business School, Kochi.

11. Dr. Nagaraju Thota presented a paper on the topic "The cyclical behavior of Indian banking sector capital buffers" held during 08th – 09th November, 2019 at 1st Rajagiri Conference on Economics and Finance, Rajgiri Business School, Kochi.
12. Dr. Archana Srivastava and Dr. Rishi Kumar presented a paper on the topic "Cash or digital payments: What rules? An assessment among retailers in Telangana State" held during 16th – 17th November, 2019 held at Ahmedabad University Conference on 50 years of Bank Nationalization.
13. Dr. Sunny Kumar Singh presented a paper on the topic "Corruption and Stock Price Volatility: Firm-Level Evidence" held during 18th – 20th December 2019 at 15th Annual Conference on Economic Growth and Development, Indian Statistical Institute, New Delhi held in Indian Statistical Institute, New Delhi.
14. Dr. Nivedita Sinha presented a paper on the topic "Clean Energy Finance: Assessing the riskiness of renewable energy projects" held during 13th - 14th December, 2019 at International Conference on Economics and Finance – II at NMIMS Bangalore.
15. Dr. Shreya Biswas presented a paper on the topic "Internal Governance Structure and External Auditing - Are they complements or substitutes?" held during 17th – 18th December, 2019 at FINECON 2019 at International Management Institute Kolkata.

ii) International:

1. Dr. Sudatta Banerjee presented a paper on the topic "Determinants of Women Empowerment as Measured by Domestic Decision Making: Perspective from a Developing Economy" and chaired a technical session in SIBR Conference on Interdisciplinary Business and Economics Research, held in Osaka, Japan during 04th – 05th July, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Dr. Bheemeswar Reddy delivered an invited talk on "Workshop on State-level statistics for Kerala", Kerala State Planning Board, Government of Kerala on 02nd - 03rd July, 2019, Thiruvananthapuram
2. Dr. Bheemeswar Reddy was Invited as an external expert for Pre-Submission Seminar of Ph.D. student on 04.11.2019 at National Institute of Educational Planning and Administration (NIEPA), Ministry of Human Resource Development, Government of India, New Delhi.
3. Dr. Mini Thomas delivered an invited talk on "New Insights from a structural approach to India's Services-led Growth Story", at Departmental of Liberal Arts, IIT Hyderabad on 06th February 2019.
4. Dr. Rishi Kumar, took a session on "NSSO Data Analysis in Social Science Research in A Ten days National Research Methodology Course for M.Phil / Ph.D./ PDF Scholars in Social Sciences", organized by Osmania University and sponsored by Indian Council of Social Science Research, Ministry of Human Resource Development, Government of India on March 23, 2019.
5. Dr. Rishi Kumar, attended as a Resource Person in the Workshop on Social Development in Telangana for half day session held on 5th February, 2019, at Council for Social Development, Hyderabad.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Dr Subhajit Chakrabarty, delivered a talk on "Artificial Intelligence in Policy Research on 01st January, 2019. He has served in middle management in the Government of India for over a decade and did a career transition to academics, earning a PhD in international business from the Indian Institute of Foreign Trade. In academics, he served as Associate Professor at NMIMS, Mumbai. He is currently pursuing a second PhD (in computer science) at University of Massachusetts Lowell.
2. Mr. Kathiresan Lakshman, Analyst at Bloomberg LP, Mumbai, delivered a talk on "Bloomberg Training Session" on 28th January, 2019.
3. Team of delegates from UBS including Mr. Suresh Kothari, MD, UBS, delivered a talk on "Expansion and strengthening collaboration between BITS Pilani and UBS" on 22nd February, 2019
4. Team of delegates from Morningstar including Mr. Sivananth Ramachandran, Director, Indexes, Morningstar delivered a talk on "Expansion and strengthening collaboration between BITS Pilani and Morningstar" on 27th February 2019.
5. Dr Nikhil Varma, Faculty member at Anisfield School of Business, Ramapo College of New Jersey, delivered a talk on "Managing Blockchain" on 16th August 2019.

6. Prof. Amir Ullah Khan, Professor of Economics at the MCRHRDI delivered a talk on "Recession in the auto sector: Lessons learnt" on 23rd September 2019. He is a visiting faculty at ISB, NALSAR and the Foreign Service Institute. Prof. Amir has previously worked for the Bill and Melinda Gates Foundation, Encyclopedia Britannica, Edith Cowan University and the India Development Foundation,
7. Dr. Y V Reddy, Ex- RBI Governor, had an interactive session on Indian and Global Economy, on 19th October 2019.
8. Mr. Jagadeesh Babu Kothamasu, Founder & CEO, (Sree Lakhyam FinAnalytics), SEBI Registered Investment advisor, Visiting Professor – NMIMS, delivered a talk on "Introduction to Technical Analysis" on 16th November 2019.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Dr. Archana Srivastava and Dr. Rishi Kumar was awarded with Macro Research Award for the project titled, "Sustainability of Cashless Banking in Unorganized Retail Sector: A Comparative Study of Two Districts of Telangana" sponsored by Indian Institute of Banking and Finance from 7th June to 7th December 2019 (6 months).

b. Won by Students:

1. Ms. Bhavya Mishra, M.Sc. (Eco) 2013-18 batch, received admission offer for graduate programme from University of Chicago.
2. Ms. Gattani Saumya Chandrashekhar, M.Sc. (Eco) 2013-18 batch received admission offer for Masters in Finance from London School of Economics.
3. Mr. Yashraj Jain, M.Sc. (Eco) 2014-19 batch, first authored paper titled "Measuring How People Learn How to Plan" was accepted for poster presentation at the conference CogSci 2019, Montreal, Canada and extended abstract titled "Measuring How People Learn How to Plan" accepted for poster presentation at the conference "Reinforcement Learning and Decision Making" 2019, Montreal, Canada.
4. Ms. Shrushti Kulkarni, M.Sc. (Eco) 2014-19 batch received admission offer for Masters in Financial Engineering from UCLA.
5. Mr. Kushagra Chanda, M.Sc. (Eco) 2015-20 batch, with Mr. Shaheer Azam and Mr. Srikanth Sridhar won 2nd place at the Hyderabad Zone of SBI Numero Yono Quiz, winning a prize money of Rs. 1.44 lakhs - 2/3/2019
6. Mr. Rahul Midha, M.Sc. (Eco) 2016-21 batch, got selected for MITACS Globalink Research Internship Program- May 2019 to August 2019
7. Ms. Shreeya Jain, M.Sc. (Eco) 2016-21 batch, got selected for an internship in Langone School of Medicine, New York University.
8. Mr. Yashdeep Singh Dahiya, Mr. Lakshith D, Mr. Garvit Arora, Mr. Pratik Rathi and Mr. Shyam Jesalpara, M.Sc (Eco) 2016-21 batch, got selected for IIM-B internship programme- May 20 - July 20.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Dr. Bheemeswar Reddy A. visited School of Social Sciences, University of Cardiff, United Kingdom, Cardiff University during 17th-24th March 2019. During the visit, he explored possibilities for collaboration with Professor Shailen Nandy and Dr. Marco Pomati of School of Social Sciences, University of Cardiff, United Kingdom.

12. PATENTS FILED/PUBLISHED AND GRANTED

- NIL -

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

Economics Association:

1. Talk On Managing BlockChain Technologies

A talk was conducted by the Economics Association in collaboration with the Department of Finance and Economics on the concept of blockchain on 16th August 2019. The speaker, Dr Nikhil Varma discussed the underpinnings of the Blockchain technology from a managerial perspective. The talk demonstrated the power of this new-rising technology in solving a range of business problems.

2. Case-Study Challenge

The economics association in collaboration with BHCG organised the first pre-atmos event. An online case study challenge. The event was spread over a week, starting from 2nd september, it promised to test the thinking and reasoning capacity of its participants. Participating in the teams of 2-3 members each, this event reached a registration over 50 teams, turning out to be a great success.

3. Lean Six Sigma Green Belt Certification

The Economics Association organised Lean Six Sigma - Green Belt Professional Certification Training, which was conducted by Pebble Sierra in accreditation partnership with the United States Council for Six Sigma Certification, a globally recognized organisation in the space of Operations Management on September 7,8 and 14,15 of 2019. Lean Six Sigma is the world's most critical Quality Management technique implemented by Apple, Mercedes, Hindustan Unilever Ltd, Motorola, GE, Toyota and other such giants. Lean Methodology focuses on speed, efficiency & removal of waste from the process. Six Sigma targets effectiveness & removal of errors. Together as a bundle, they are unparalleled - a powerful management tool that offers a structured approach to solve problems.

4. Talk On Recession in the Automobile Sector

The Economics Association conducted a talk in collaboration with the Department of Economics and Finance on the topic, 'recession in the auto sector', on 23rd September 2019. The speaker, Prof. Amir Ullah Khan, addressed the causes, the economy-wide impact and possible solutions to mitigate the problem of job loss and plant shut down in the sector. He also ventured on the effects that the recession can have on the youth of today, and what lessons we can learn from this economic slowdown.

5. ATMOS Events

COURTROOM

Courtroom, the headliner event of Economics Association for ATMOS 2019 was conducted on 18th October. The event aims to imitate the complete scenario of a real court and it saw the participation of more than 100 people from different parts of the country, and their backgrounds ranging from Engineering to Arts to Law to Fashion Designing to Management. Teams debated on different case studies which were overlap of economics, business, law. The event was judged by Prof. R Ragunathan. Things turned nail biting with 3 teams doing so well that ranking them against each other became impossible. As a result, the 3rd prize was shared between 3 teams as per the discretion of the judge.

6. Dr YV Reddy's Talk

With the collaborative support of the Department of Economics and Finance and Embryo, The Economics Association hosted Dr. YV Reddy (ex-RBI Governor, 2003-2008) on the occasion of ATMOS (The tech-fest of BITS Pilani Hyderabad Campus) on the 19th of October 2019. Interviewed by Mr Nimit Kanani and Mr Siddharth Sampath, the talk went through various topics related to inflation, FX rates, functioning of RBI etc. The students got to understand the workings of Indian Economy through a different perspective.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED – NIL -

B3.10.8 Department of Humanities and Social Sciences

Number of faculty members

Senior Professors, Professors	0
Associate Professors	2
Assistant Professors	11
Lecturers	0
Visiting Faculty	0
Visiting Assistant Professors	-

Head of the Department : Dr. Biswanath Dash

Contact details : Email: biswanath@hyderabad.bits-pilani.ac.in

Number of Ph.D. Scholars : 18

Full Time : 13

Part Time : 5

Aspirant Scheme : 0

Ph.D. Thesis Submitted during the year: 2019**- NIL -****1. SPONSORED RESEARCH AND CONSULTANCY****PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Mainstreaming DRR and CCA into Government Departments	HSS	Biswanath Dash	Md Shahid Akther	AP HRDI/ Govt. of AP	-	1,20,000
2	A Study of Last Mile Connectivity in AP	HSS	Biswanath Dash	-	-	-	1,00,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Understanding the commercialization of Breast Milk from Sociological Perspective	HSS	Dr Suchismita Sathpathy	-	Awareness in Action, Hyd	-	1,87,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Assistant Coordinator for AARMS (Aptis Action Research Mentoring Scheme)	HSS	Dr Santosh Mahapatra	-	British Council	-	10,000 per day; duration not fixed
2	Role of Environmental Entro Dysfunction in explaining intestate variation calorie intake	HSS	Dr Zakaria Siddiqui	-	University of South Australia	-	2,40,000

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Wilde and Manto: A Comparative Study of Writers on Trial	HSS	Dr. Anhiti Patnaik	-	RIG	-	2,00,000
2	Disability in South India: A Cultural History of the Political Discourse	HSS	Shilpaa Anand	-	RIG	-	2,00,000
3	Nagarjuna and the Concept of Time	HSS	AK Jayesh	-	RIG	-	2,00,000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Resistance to the Western Ghats Conservation and Undercurrents: A study of the people's protest and the role of the local bodies in Idukki, Kerala	-	Dr. Lavanya Suresh	-	Centre for Development Studies (CDS), Kerala	-	3,15,000
2	Alternative ways of understanding ecological conservation practices to enable justice for all	-	Dr. Lavanya Suresh	-	NALSAR, Hyderabad	-	2,95,000
3	Mainstreaming DRR and CCA into Government Departments	HSS	Biswanath Dash	Md Shahid Akther	AP HRDI/ Govt. of AP	-	1,20,000

B. Ongoing Industry Projects - NIL -**C. Ongoing International Sanctioned Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Role of Environmental Entropy Dysfunction in explaining interstate variation calorie intake	HSS	Dr Zakaria Siddiqui	-	University of South Australia	-	2,40,000

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Identification of accents	HSS	Dr. Pranesh Bhargava	-	OPERA	-	2,00,000 (per year)
2	Political Ecology	HSS	Dr. Lavanya Suresh	-	OPERA	-	3,60,000 (per year)
3	Measuring Segregation in Hyderabad: Introspecting Multiple Indexes and Multiple Patterns	HSS	Dr. Suchismita Satpathy	-	RIG	-	2,00,000
4	A study of contemporary epistemological and ethicopolitical challenges confronting genomics research in India	HSS	Dr Aswathy Raveendran	-	RIG	-	2,00,000

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	A Study of Last Mile Connectivity in AP	HSS	Biswanath Dash	-	AP HRDI/ Govt. of AP	-	1,00,000

B. Completed Industry Projects - NIL -**C. Completed International Projects - NIL -****D. Completed Institute Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1.	A Study of DM Plan in India	HSS	Biswanath Dash	-	BITS	-	2,00,000
2.	An Evaluative Study of ESP Programmes in India	HSS	Dr Santosh Mahapatra	-	BITS	-	1,70,000

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty In Journals**

1. Mahapatra, S. K. and Mishra, S., 2019. Articulating identities – the role of English language education in Indian universities. *Teaching in Higher Education*, 24 (3), 346-360, 2019. doi: 10.1080/13562517.2018.1547277
2. Pritchard, B., Lahiri-Dutt, K. and Siddiqui, M.Z., 2019. Explaining recent increases in calorie intake in rural India: the role of social policy strengthening. *India Review*, 18(2), pp.161-183.
3. Jayesh, A. K. 2019. "Time, Philosophy, and Literature." *Journal of Indian Council of Philosophical Research* 36 (1): 183-96. doi:10.1007/s40961-018-0163-9.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED**i) National:**

1. Dr. Anhiti Patnaik, "How the Subaltern Speaks: Native Canadian Stories of Trauma and Resilience," *Globalism and Multiculturalism*, 28th International Conference on Commonwealth Literature, Indian Society for Commonwealth Studies, Osmania University, Hyderabad (Feb 2019)
2. Shilpaa Anand, 'Amputations: Knowing 'the Body' Through its Parts' presented at *The Performing Body: Conversations on Healing with Medical Humanities* at Indian Institute of Technology, Hyderabad (February 2019)
3. Shilpaa Anand, 'Doing Disability Theory in Literary and Cultural Studies: An Appraisal' presented at *Rethinking Theories: Language, Literature and Culture* at Osmania University, Hyderabad (March 2019)
4. Lavanya Suresh, presented a paper titled *Alternative ways of understanding ecological conservation practices to enable environmental justice for all* at the INSEE-CESS International Conference on *Climate Change and Disasters: Challenges, Opportunities and Responses*, the Tenth Biennial Conference of the Indian Society for Ecological Economics (INSEE) held from 6-8 November 2019 at the Centre for Economic and Social Studies, Hyderabad
5. Lavanya Suresh, presented a paper titled *Paper Forests in the City of Hyderabad, India* at the conference on *Entangled Natures: A Conference on Human Ecology* from 14th to 17th February 2019 at the School of Human Ecology (SHE) Ambedkar University Delhi (AUD).
6. Lavanya Suresh, presented a paper titled *Who Wants to Conserve the Western Ghats? A Study of Resistance to Conservation and its Undercurrents in Karunapuram panchayat, within the Cardamom Hill Reserve in Idukki district* at the Seminar of the Research Unit on Local Self-Government at The Centre for Development Studies, Thiruvananthapuram, Kerala on 25th November 2019.
7. Prasuna M G, presented a paper titled "Chasing the Gulf Dream - Reflections in Contemporary Literature" at the International Conference on *Migration, Diaspora and Development: An Indian Perspective*, at Central University of Gujarat, 7-8 March, 2019.
8. Prasuna M G, presented a paper titled "In Search of Better Life: Literary Representations of the Challenges of identity in Gulf" at the National Conference on *Innovations in Teaching ESL and Literature: The Present and the Future*, at NIT Warangal, Sept30-Oct1st, 2019.

9. Rethinking Globalization Issues and Challenges of Indian Agricultural sector, NIN Tarnaka, 14th December 2019.

ii) International:

1. Dr. Anhiti Patnaik, "The Queer Art of Traumed: Hannah Gadsby on not Narrating Nanette," The Society for the Study of Narrative, University of Navarra, Spain (May 2019)
2. Shilpaa Anand, 'Charity and Disability: An Exploratory Archeology' presented at Disentangling Disability and Human Rights at the University of Chicago, New Delhi Centre (February 2019)
3. Lavanya Suresh, presented a paper titled A Policy Review of Environmental Governance in India at 'Unpacking the Complexity of Regulatory Governance in a Globalising World: An International Conference' held at the Chinese University of Hong Kong on 4-6 July 2019
4. Lavanya Suresh, presented a paper titled 'Rural social movements and emancipatory possibilities in India' at the Emancipatory Rural Politics Initiative (ERPI) South Asia Collective Workshop on 12 and 13 January, 2019, University of Jaffna, Jaffna, Sri Lanka.
5. Aruna Lolla, presented a paper online, titled "Impact of Bhagavad Gita Course on College Students A Study Based on Students Feedback." at International Conference on Hinduism, Management & Philosophy (ICHMP) on 2 November, 2019, organized by Bhagavad Gita Research Foundation (BGRF), London, UK.
6. Aruna Lolla, presented a paper online, titled "Improving Communication Skills in English of the Technical Students through Learner Centred Approach: An Experience" at KUM International ELT Convention Sponsored by UGC Autonomy Grant, Organized by Government College for Women, on 19-20 July, 2019, Kumbakonam, Tamilnadu.
7. Santosh Mahapatra, Making the Case for EST Teacher Development Programmes in India, '54th RELC International Conference and 5th Asia-Pacific LSP and Professional Communication Association Conference', Singapore, March 11-13, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Anand, Shilpaa (2019) 'Translating Rhetoricity and Everyday Experiences of Disablement: The Case of Rashid Jahan's 'Woh'' in Disability in Translation: The Indian Experience, Eds. Someshwar Sati and G.J.V.Prasad. Routledge.
2. Anand, Shilpaa (2019). Entry on Deaf in Delhi: A Memoir by Madan Vasishta. Couser, G. Thomas, and Susannah B. Mintz, editors. Disability Experiences: Memoirs, Autobiographies, and Other Personal Narratives. Farmington Hills, MI: Macmillan Reference USA, a part of Gale, a Cengage Company.
3. Anand, Shilpaa (2019) 'Corporeality and Cultural Difference' in Disability in South Asia: Knowledge and Experience, Ed. Anita Ghai. Sage: New Delhi.
4. Anand, Shilpaa (2019) 'Disability and Intimacy in the Making of Madurai Veeran' in The Politics of Belonging in Contemporary India, Ed. Kaustav Chakraborty. Routledge: New Delhi. [REPRINT]
5. Suresh. L (2019). The Broad-Basing process in India and women in M.V. Nadkarni (ed.) Socio-Economic Change and the Broad-Basing Process in India. New York: Routledge. <https://doi.org/10.4324/9780429316418>
6. Raveendran, A. (2019). Finding a Critical Voice. In J. Bazzul & C. Siry, Eds., Critical voices in science education research: Narratives of academic journeys. (27-36). Dordrecht: Springer.
7. Anand, Shilpaa (2019) Review of Notes on the Flesh by Shahd Alshammari. Peace Prints: South Asian Journal of Peacebuilding 5:1

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Dr. Anhiti Patnaik: How to Get Away with Murder: A Workshop on How to Write Suspense, organized by ELAS (16 Feb 2019)
2. Winter School: Fostering Research in Disability to be jointly organized by the HSS Department at BITS, Hyderabad Campus and Centre for Disability Studies, NALSAR University of Law (16th-21st December 2019) Coordinated by Shilpaa Anand [BITS] and Amita Dhanda [NALSAR]

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Zakaria: Presented a paper titled "The dramatic rise of overweight and obesity in India: The looming health care crisis" at the Seminar series of Centre for Applied Economics and Finance, University of South Australia, Adelaide on October 30, 2019.
2. Suchismita Satpathy Keynote address at Ideas conclave for better Hyderabad, 16th February 2019, CESS Begumpet, Hyderabad

3. Shilpaa Anand, 'Rethinking Charity: Disability Studies in India': Plenary Address at International Conference of the Indian Disability Studies Collective on Deglobalizing Disability: Texts and Contexts at the University of Lucknow, October 2019
 4. Shilpaa Anand: Invited to lecture at the workshop, Perspectives on Disability and Inclusion in Educational Settings at Azim Premji School of Education, TISS, Hyderabad (February-March 2019)
 5. Shilpaa Anand: Invited to speak on 'Interdisciplinarity' at the Research Methodology Workshop at NALSAR University of Law, Hyderabad (March 2019)
 6. Shilpaa Anand: Invited as resource person for the Oceanvale Workshop at Kirori Mal College, Delhi University. Delivered two lectures: 'Conceptualizing Disability' and 'Hacking Disability' (September 2019)
 7. Shilpaa Anand: Invited to deliver a lecture titled 'Introduction to Disability Studies' at the Refresher Course organized by HRDC, University of Hyderabad (October 2019)
 8. Lavanya Suresh: Delivered a Seminar series of 10 lectures at NALSAR University of Law from Jan 2019 to April, 2019 on 'Political Ecology.'
 9. Santosh Mahapatra: 'General Evaluation and Assessment' and 'Evaluation Literacy among Teachers' - Conducted two sessions for college and university teachers during Refresher Course in English Language organized by UGC Human Resource Development Centre, University of Hyderabad, on October 23, 2019.
 10. Santosh Mahapatra: 'Effective teaching methodologies using ICT' - Conducted a session as part of Faculty Development Program, organized by Bhavan's Vivekananda College of Science, Humanities and Commerce, Hyderabad, on June 3, 2019
 11. Santosh Mahapatra: 'Teaching Techniques and Technology in the Language Classroom' - Conducted a full-day workshop organized by Bhavan's Vivekananda College of Science, Humanities and Commerce, Hyderabad, on February 8, 2019.
 12. Santosh Mahapatra: 'Use of Technical Tools in English Language Classrooms' - Conducted a workshop for participants during 2nd International & 11th Annual Conference on Multiple Technologies: Teaching Literature, Mass Media and Business English (MTMB - 2019), held at SRM Institute of Science and Technology, Kattankulathur, Chennai, on February 7, 2019.
 13. Aswathy Raveendran: delivered an invited talk titled "STSE Education: Current Trends and Challenges", Tata Institute of Fundamental Research, Hyderabad Campus, 23rd July, 2019
 14. Biswanath Dash: conducted a training program for three days on "Incident Response System" at Regional Centre for HRD Institute, Govt. of AP, Visakhapatnam, 17-19th Sep. 2019
 15. Biswanath Dash: delivered a talk on "Community level Disaster Risk Assessment: Tools and Techniques" at Regional Centre for HRD Institute, Govt. of AP, Visakhapatnam on 7th Nov. 2019
- 9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT**
1. Sugandha Sehgal, Assistant Professor, University of Delhi to lecture on "Social Media Feminism in Contemporary Indian Art" which examined the female body as a site of corporeal and cultural protest on Instagram (November 22, 2019 for the course GS F242 Cultural Studies)
 2. Dr. N. Manohar, Centre for Interdisciplinary Studies in Law and Civil Society, NALSAR University of Law was invited to give a talk titled 'The Politics of Modern Indian Languages and Literatures' (12th February 2019)
 3. Professor Sowmya Dechamma, Centre for Comparative Literature, University of Hyderabad was invited to give a talk titled 'Feminist Approaches to Studying Literature' (28th March 2019)
 4. Dr. Chandan Bose, Department of Liberal Arts, Indian Institute of Technology, Hyderabad was invited to give a talk on his book titled 'Craft Through Relatedness and Relatedness Through Craft' (12th September 2019)
 5. Rahul Basu, Research Director at Goa Foundation gave a lecture on Natural resources as a Shared Inheritance: Accounting for the Resource Curse (26th Aug, 2019)
 6. Vivek Mukherjee, Assistant Professor of Law, Coordinator of the Animal Law Center, at Nalsar University of Law gave a lecture on Embedding Climate Change Law and Politics in the Anthropocene (12th April, 2019)
 7. Prof. R. K. Mishra, Head, Centre for Neural and Cognitive Sciences, University of Hyderabad, delivered a talk on Cognition and Cognitive Science (2nd February, 2019)
 8. Talk on "Five myths of Governance" by Dr. V. Bhaskar, Ex Joint Secretary of 13th Finance Commission and retired IAS officer (9th November, 2019)

10. AWARDS AND RECOGNITIONS**a. Won by Faculty:**

Invited honorary affiliation: Shilpa Anand as Distinguished Research Fellow at the Centre for Disability Studies, NALSAR University of Law, Hyderabad.

b. Won by Students: - NIL -**11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION - NIL -****12. PATENTS FILED/PUBLISHED AND GRANTED - NIL -****13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES**

1. Bi-weekly Discussion Forum.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	Audio and Recording Equipment for research; and AccentDB: A database for Indian Accents in English by Dr. Pranesh Bhargava	One Microphone; One Recorder, 1 Software

B3.10.9 Department of Mechanical Engineering

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	3
Associate Professors	4
Assistant Professors	20
Lecturers	1
Visiting Faculty	0
Visiting Assistant Professors	0

Head of the Department : Prof. Amit Kumar Gupta

Contact details : 040-66303518, Email: akgupta@hyderabad.bits-pilani.ac.in

Number of Ph.D. Scholars : 58

Full Time : 43

Part Time : 12

Aspirant Scheme : 3

Ph.D. Thesis Submitted during the year: 2019:

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Mr N Madan Mohan Reddy	2013PHXF0114H	Experimental Investigation of Eco-friendly Cutting Fluid in Machining of Turbine Blade Material for Sustainable Manufacturing	Dr C.P.Kiran	--
2	Mr. Khalid Anwar	2013PHXF0601H	Development of Energy Management System for Microgrid Operations	Prof. Sandip S Deshmukh	--
3	Mr.N.Nasir Hussain	2013PHXF0113H	Study of Large Deformations in Automobile Crash Box with Novel Geometric Shapes	Prof. Srinivasa Prakash Regalla	Prof. Yendluri Venkata Daseswara Rao
4	Mr.V Srinivasa Rao	2012PHXF0704H	Sustainable Design of Clean Room for Micro-electro-mechanical Systems (MEMS) Fabrication and Micro-manufacturing Applications	Prof. Srinivasa Prakash Regalla	Prof.Kannan Ramaswamy

1. SPONSORED RESEARCH AND CONSULTANCY:**PROJECTS SANCTIONED:****A. Government Sanctioned:**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	3D printing of graphene nanocomposites for energy storage applications	Mechanical	Dr Pavan Kumar P	-	SERB-ECR	-	24,00,000
2	Experimental Investigation on an Energy Efficient Thermal Management Technique for Hybrid Electric Vehicles (HEV)	Mechanical	Dr Santanu Prasad Datta	-	SERB-ECR	-	27,94,000
3	A Solar Assisted Combined Cooling, Heating and Power Plant: An Alternate Rural Energy Source	Mechanical	Dr Santanu Prasad Datta	-	DST	-	38,50,000
4	Harvesting energy from underwater ocean currents through coupled vortex-induced vibration, flapping dynamics, electromagnetic induction and piezoelectric effects	Mechanical	Dr PardhaSaradhi G V	-	SERB-SRG	-	27,36,000
5	Fully Integrated Smartphone and IoT enabled Microfluidic Sensor for Real-time Quantification of Soil Macronutrients	Mechanical	Dr Satish K Dubey	Prof.Sanket Goel, Dr. Ponnalagu	DST	-	27,98,000
6	Cardiac-Organ-on-Chip: Integrated Microfluidic Cardiac Platform for Drug Screening and Toxicity Detection.	Mechanical	Prof.Sanket Goel	Dr Satish K Dubey	DST	-	47,36,000
7	Machinability assessment and material characterization of Tungsten Heavy Alloy used in defense applications as KE penetrators”	Mechanical	Dr. Amrita Priyadarshini	Dr. C. P.Kiran	ARMREB (DRDO)	-	17,40,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Solid state electrolytes for Lithium-ion batteries	Mechanical	Dr Sujith R	-	HBL Power Systems Ltd	-	12,00,000
2	Automation of Sample Preparation Process for Pharmaceutical Application	Mechanical	Prof YVD Rao	-	Pharma Industry, Hyderabad	-	15,48,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Benchmark Studies On Tornado Induced Wind Loads Between Different Tornado Simulators Worldwide	Mechanical	Prof.Masahiro Matsui (Tokyo Polytechnic University, Japan)	Dr Sabareesh G R (BITS-Pilani),	TPU-JURC	Prof.Partha Sarkar (Iowa State University, USA), Prof. Shuyang Cao (Tongji University, China)	9,00,000

D. Institute Sanctioned Projects:

S.No	Project Title	Department	Principal Investigator	Co- Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Flow induced vibration/flapping dynamics of multi-layered flexible foil in a uniform flow	Mechanical	Dr PardhaSaradhi G V	-	RIG	-	2,00,000
2	Investigation of the weldability of the mild steel during A-TIG welding	Mechanical	Dr Ravi shankerVidarth	-	RIG	-	2,00,000
3	Effect of inherent nonlinearities on operational failure of damaged structural elements	Mechanical	Dr Brajesh Kumar Panigrahi	-	RIG	-	2,00,000
4	Friction and Wear Investigation of Ceramic Coated Commercial Rotor	Mechanical	Dr Piyush Chandra Verma	-	RIG	-	2,00,000
5	Sustainable High Speed Micromachining Process Development for Thin Beam Manufacturing	Mechanical	Dr Kundan Kumar Singh	-	RIG	-	2,00,000
6	Numerical and Experimental Investigation of Insect/Bird Flight Inspired Flexible Flapping Wing Propulsion	Mechanical	Dr PardhaSaradhi G V	-	CRG	-	9,50,000
7	Investigation of the mechanical properties of A-TIG welded mild steel and Ti6Al4V alloy	Mechanical	Dr Ravi shankerVidarth	-	CRG	-	9,50,000

2. ONGOING PROJECTS:**A. Ongoing Government Projects:**

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Formability Study of Inconel 625 alloy at Elevated Temperatures for Aerospace Applications	Mechanical	Dr. Nitin Kotkunde	-	DST	-	31,43,000
2	Application of topology optimization to enhance energy efficiency and performance of industrial manipulator	Mechanical	Dr. Arshad Javed	-	DST	-	29,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
3	Cryogenically-Conditioned Micro and Nanoencapsulated Phase Change Material Slurries for Cool Thermal Energy Storage Applications	Mechanical	Dr.Parameshwaran	-	DST	-	27,76,000
4	Novel casting approach to improve quality of aluminum alloy casting	Mechanical	Prof. N.S.K. Reddy	-	DRDL	-	9,85,000
5	Hydrogen Storage in Mesoporous Polymer Derived Ceramics for Automotive Application	Mechanical	Dr. Sujith R	-	DST	-	42,38,000
6	Enhancement of Mechanical Properties of Ti-6Al-4V using Constrained Groove Pressing and Heat Treatment	Mechanical	Prof. A. K. Gupta	-	DRDO (ARMREB)	-	48,75,000
7	Design and development of an automated flow calibration system for fuel and oxidizer injectors reaction control system	Mechanical	Prof SS Deshmukh	Dr Supradeepan K	DRDO, CAS	-	10,00,000
8	Studies on wind resistant design for proposed Ligo India Observatory	Mechanical	Dr. Sabareesh GR	Dr. KRC Murthy & Dr. Rahul Nigam	IUCAA	-	45,02,000
9	Development of image processing based portable device to measure surface strains in sheet metal forming	Mechanical	Dr Kurra Suresh	-	DST	-	17,24 ,000
10	Sustainable technological solutions for energy efficiency in jaggery industry (STEEJ)	Mechanical	Prof.M. Srinivas	-	RAE	-	42,81,000

B. Ongoing Industry Projects:

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Study of lubrication method for enhanced surface finish and reduced draw load on cold draw steel tubes	Mechanical	Dr Varinder Singh	Prof. A. K. Gupta & Prof. S. P. Regalla	Tubes Investment India Ltd.	-	27,50,000

C. Ongoing International Sanctioned Projects:

Nil

D. Ongoing Institute Projects:

S. No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	An Indigenous Energy Efficient Thermal Management Strategy of Buildings for all Climatic Conditions across India	Mechanical	Dr.Santanu Datta P	-	BITS-ACRG	-	10,00,000
2	Design and Indigenous Development of a Biaxial Tensile Test Setup on Uniaxial Machine for Sheet Metal Forming	Mechanical	Dr.Nitin Kotkunde	-	BITS-ACRG	-	10,00,000
3	OPERA Project	Mechanical	Dr PardhaSaradhi G V	-	OPERA-BITS	-	20,70,000
4	Design and Development of 3D Printer for Carbon Fiber Reinforced Composites	Mechanical	Dr Kurra Suresh	-	BITS-ACRG	-	10,00,000

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of Metamaterial Base Support" for isolating vibrations	Mechanical	Dr. Sabareesh	Prof YVD Rao	DRDO	-	13,80,000
2	Studies on remaining useful life prediction considering multi-component failures in a wind turbine using prognostic health monitoring techniques	Mechanical	Dr. Sabareesh	-	DST	-	26,04,000
3	Automated Ultraviolet-C Sterilization Robot	Mechanical	Dr Arshad Javed	-	BIRAC	-	15,00,000

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Simulation and Modelling to Minimize Porosity Level in Aluminium Castings by using Ultrasonic Stir Casting	Mechanical	Prof. N. S. K. Reddy	-	L & N Structural Engineers (P) LTD	-	8,03,000
2	Heat Transfer Enhancement Study of Li-ion Battery Pack (Phase-1)	Mechanical	Prof. Jeevan Jaidi	-	HBL Power Systems Ltd., Hyderabad	-	5,31,000

C. Completed International Projects:**- NIL -**

D. Completed Institute Projects:

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Linear contraction measurement in aluminum alloys during solidification	Mechanical Engineering	Dr. Pavan Kumar P	-	BITS-RIG	-	2,00,000
2	An Energy Efficient Regenerative Evaporative Cooling (REC) System for Building Air-Conditioning with Cross and Counter-Flow Configuration	Mechanical Engineering	Dr.Santanu Datta P	-	BITS-RIG	-	2,00,000
3	Experimental and Numerical Studies on Part Quality in Incremental Forming at Elevated Temperatures	Mechanical Engineering	Dr.Kurra Suresh	-	BITS-RIG	-	2,00,000

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty in Journals:**

- Sujith R., AnkurMaheswari., Ebenezer PrasannaGopikrishnan., JellaGangadhar, Highly Conducting Graphene Dispersed Silicon Oxycarbide Glasses, Materials Chemistry and Physics, 2019.
- C AnandBadrish., Nitin Kotkunde., OmkarSalunke., SK Singh., SP Datta, Experimental and Numerical Investigations of Johnson Cook Constitutive Model for Hot Flow Stress Prediction of Inconel 625 Alloy, ICCMS 2019 Proceedings of the 11th International Conference on Computer Modeling and Simulation, 2019.
- G. Praveen., Ram Tarun Reddy., Kurra Suresh, Experimental studies on incremental hole flanging of steel sheets, Advances in Materials and Processing Technologies, 2019.
- Sabareesh G Rajasekharan., MATSUI MASAHIRO., Yukio Tamura, Vulnerability of Roof and Building Walls Under a Translating Tornado Like Vortex, Frontiers in Built Environment, 2019.
- Mahalle, Nitin Kotkunde, A.K. Gupta, S.K. Singh, Analysis of Hot Workability of Inconel Alloys Using Processing Maps, Advances in computational methods in manufacturing, 2019.
- Vamsi Inturi., Sabareesh Geetha Rajasekharan, Supradeepan K., Pavan Kumar Penumakala., Integrated condition monitoring scheme for bearing fault diagnosis of a wind turbine gearbox, Journal of Vibration and Control, 2019.
- Sandip Shridharrao Deshmukh., Khalid Anwar, Parametric study for the prediction of wind energy potential over the southern part of India using neural network and geographic information system approach, Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019.
- G L Srinivas, Arshad Javed, Numerical Simulation and Experimental Study on Lightweight Mechanical Member, Advanced Engineering Optimization Through Intelligent Techniques, 2019.
- Inturi Vamsi, Sabareesh G. R., Vaibhav Sharma, Integrated Vibro-Acoustic Analysis and Empirical Mode Decomposition for Fault Diagnosis of Gears in a Wind Turbine, Procedia structural integrity, 2019.
- Nune Madan Mohan Reddy., Phaneendra Kiran Chaganti, Investigating Optimum SiO₂ Nanolubrication During Turning of AISI 420 SS, Engineering, Technology & Applied Science Research, 2019.
- Anubhav Sinha, Surface Waves on Liquid Jet in Crossflow: Effect of Injector Geometry, AIAA Journal, 2019.
- NithinSimha Reddy., Ujwal Kishore Jinaga., Bharat Reddy Charuku., Pavan Kumar Penumakala., AVS SivaPrasad, Failure analysis of AA8011-pultruded GFRP adhesively bonded similar and dissimilar joints, International Journal of Adhesion and Adhesives, 2019.
- Wahed M.A., Gupta A.K., Sharma V., Mahesh K., Singh S.K., Kotkunde N., Material characterization, constitutive modelling, and processing map for superplastic deformation region in Ti-6Al-4V alloy, International Journal of Advanced Manufacturing Technology, 2019.

14. Reddy T.J., Narayanamurthy V., Rao Y.V.D., Effect of damage modelling in numerical simulation of crash energy absorption behaviour of crush tubes and validation with experiments, *International Journal of Crashworthiness*, 2019.
15. OvaseMoinuddin, G. V. N. Trivedi, R. Parameshwaran & Sandip. S. Deshmukh, Study on thermal storage properties of microencapsulated organic ester as phase change material for cooling application, *International Journal of Environmental Analytical Chemistry*, 2019.
16. Nitin Kotkunde, AnandBadrish, AyushMorchhale, PrathameshTakalkar, SK Singh, Warm deep drawing behavior of Inconel 625 alloy using constitutive modelling and anisotropic yield criteria, *International Journal of Material Forming*, 2019.
17. Reddy T.J., Narayanamurthy V., Rao Y.V.D., Evolution of a new geometric profile for an ideal tube inversion for crash energy absorption, *International Journal of Mechanical Sciences*, 2019.
18. Reddy T.J., Narayanamurthy V., Rao Y.V.D., Enhancement in specific energy absorption of invertubes, *International Journal of Mechanical Sciences*, 2019.
19. H M Praveen, Tejas, Sabareesh GR, Automated Fault Detection of Wind Turbine Gearbox using Data-Driven Approach, *International Journal of Prognostics and Health Management*, 2019.
20. Sandip Shridharrao Deshmukh., Onkareshwar Mishra., Khalid Anwar., Vatsal Agrawal, Hybrid-CSP in India: Technological and Economic Aspects, *International Journal of Renewable Energy Research*, 2019.
21. Gurugubelli P.S., Jaiman R.K., Large amplitude flapping of an inverted elastic foil in uniform flow with spanwise periodicity, *Journal of Fluids and Structures*, 2019.
22. A. Saxena, A. Kumaraswamy, N. Kotkunde, K. Suresh, Constitutive Modeling of High-Temperature Flow Stress of Armor Steel in Ballistic Applications: A Comparative Study, *Journal of Materials Engineering and Performance*, 2019.
23. GauriMahalle, Nitin Kotkunde AK Gupta, R. Sujith, Swadesh Kumar Singh, Y.C. Lin, Microstructure Characteristics and Comparative Analysis of Constitutive Models for Flow Stress Prediction of Inconel 718 Alloy, *Journal of Materials Engineering and Performance*, 2019.
24. Singh S.K., Limbadri K., Singh A.K., Ram A.M., Ravindran M., Krishna M., Reddy M.C., Suresh K., Prasad K.S., Panda S.K., Studies on texture and formability of Zircaloy-4 produced by pilgering route, *Journal of Materials Research and Technology*, 2019.
25. Mahalle G., Salunke O., Kotkunde N., Gupta A.K., Singh S.K., Neural network modeling for anisotropic mechanical properties and work hardening behavior of Inconel 718 alloy at elevated temperatures, *Journal of Materials Research and Technology*, 2019.
26. Mohanty S., Regalla S.P., Rao Y.V.D., Influence of process parameters on surface roughness and forming time of Al-1100 sheet in incremental sheet metal forming, *Journal of Mechanical Engineering and Sciences*, 2019.
27. Nabapure D., Sanwal J., Rajesh S., Ram Chandra Murthy K., Investigation of Subsonic and Hypersonic Rarefied Gas Flow over a Backward Facing Step, *Journal of Physics: Conference Series*, 2019.
28. Shruti K., Rajesh S., Sabareesh G.R., Rao P.N., Study of Interference Effects on Chimneys, *Journal of Physics: Conference Series*, 2019.
29. R G Parthasaradhi., Supradeepan K., Kush Dwivedi, A review of Space-time conservation element solution element (CESE) schemes, *Journal of Physics: Conference Series*, 2019.
30. Arshad Javed., Lanka Tata Rao., SanketGoel., Satish Kumar Dubey, Performance Investigation of T-Shaped Micromixer with Different Obstacles, *Journal of Physics: Conference Series*, 2019.
31. Uday Kumar Alugoju., Arshad Javed., RutujaManmode., Satish Kumar Dubey, Numerical Modelling of Flow Boiling in Expanding Microchannel with Non-Uniform Heat Flux, *Journal of Physics: Conference Series*, 2019.
32. Srinivasa Rao Vutla., Kannan Ramaswamy., Srinivasa Prakash Regalla, A laminar fluid flow model for study of ventilation systems in micro-electromechanical systems (MEMS) clean room, *Journal of Physics: Conference Series*, 2019.
33. Tadhg S O Donovan., K S Reddy., Louis F Marie., Morapakala Srinivas., SunkaraPrudhvi Raj, Assessment of optimum energy demand for non-centrifugal sugar production through an alternate process, *Journal of Physics: Conference Series*, 2019.
34. G Sai Ram., G Abhishek., Sandip Shridharrao Deshmukh, Effects of using alcohols on the performance and emissions of a diesel engine, *Journal of Physics: Conference Series*, 2019.
35. Sachin R. Peruri, Phaneendra Kiran Chaganti. A review of magnetic-assisted machining processes, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 2019.

36. V. R. Shanmukhasundaram, Y. V. D. Rao, S. P. Regalla, Algorithms for detection of degenerate structure in epicyclic gear trains using graph theory, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 2019.
37. Swagatika Mohanty., Srinivasa Prakash Regalla., YV Daseswara Rao, Robot-assisted incremental sheet metal forming under the different forming condition, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 2019.
38. Vidyarthi R.S., Dwivedi D.K., Effect of shielding gas composition and activating flux on the weld bead morphology of the P91 ferritic/martensitic steel, *Materials Research Express*, 2019.
39. Pawan Kumar Chauhan., Sujith R., R Parameshwaran., Venkataraman Vidhukiran, Experimental investigation of multilayered graphene systems for hydrogen storage, *Materials Research Express*, 2019.
40. Bhardwaj A., Gupta A.K., Padisala S.K., Poluri K., Characterization of mechanical and microstructural properties of constrained groove pressed nitinol shape memory alloy for biomedical applications, *Materials Science and Engineering C*, 2019.
41. Madan Mohan Reddy Nune., Phaneendra Kiran Chaganti, Development, characterization, and evaluation of novel eco-friendly metal working fluid, *Measurement*, 2019.
42. Inturi Vamsi., GR Sabareesh., PK Penumakala, Comparison of condition monitoring techniques in assessing fault severity for a wind turbine gearbox under non-stationary loading, *Mechanical Systems and Signal Processing*, 2019.
43. Shanmukhasundaram V.R., Rao Y.V.D., Regalla S.P, Enumeration of displacement graphs of epicyclic gear train from a given rotation graph using concept of building of kinematic units, *Mechanism and Machine Theory*, 2019.
44. Joshua Amrith Raj., Bijay Kumar Rout., Arshad Javed, Integrated method for performance analysis of reliability-based topologically optimized components, *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 2019.
45. Pavan Bharadwaja Bhaskar., Prashanth Khannan., Amjad Shaik., Sandip Shridharrao Deshmukh, Recent trends on drivetrain control strategies and battery parameters of a hybrid electric vehicle, *SAE Technical Papers*, 2019.
46. Kiran Sagar C., Kumar T., Priyadarshini A., Kumar Gupta A. Prediction and optimization of machining forces using oxley's predictive theory and RSM approach during machining of WHAs, *Defence Technology*, 2019.
47. Padamurthy A., Nandanavanam J., Rajagopalan P. Evaluation of reaction characteristics of Na₂S₂O₃.5H₂O for thermochemical energy storage, *Materials Today: Proceedings*, 2019.
48. Shukla S.K., Priyadarshini A. Application of machine learning techniques for multi objective optimization of response variables in wire cut electro discharge machining operation, *Materials Science Forum*, 2019.
49. Pawan K Chauhan., Ravindran Sujith., Rajagopalan Parameshwaran., AVS Siva Prasad. Role of polysiloxanes in the synthesis of aligned porous silicon oxycarbide ceramics, *Ceramics International*, 2019.
50. Pavandatta Jadhav, NSK Reddy Tribological analysis of electrostatically developed nanocomposite-coated cutting tool material, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, 2019.
51. Y. Q. Jiang, Y. C. Lin, G.D. Pang, D. G. He, Nitin Kotkunde Constitutive Model and Processing Maps for a Ti-55511 Alloy in β Region, *Advanced Engineering Materials*, 2019.
52. Sandeep Pandre, Nitin Kotkunde, Prathamesh Takalkara, Ayush Morchhale, R. Sujith, SK Singh. Flow Stress Behavior, Constitutive Modeling and Microstructural Characteristics of DP 590 Steel at Elevated Temperatures, *Journal of Materials Engineering and Performance*, 2019.
53. Sinha, A., Rao, V.C.M. and Wen, J.X. Modular phenomenological model for vented explosions and its validation with experimental and computational results, *Journal of Loss Prevention in the Process Industries*, 2019.
54. Sama Sanghamitra., Sandip Shridharrao Deshmukh. Prominence of Bio-Fuels as an Alternate Fuel in CI Engines, *International Journal of Engineering and Advanced Technology*, 2019.
55. Aishwarya R Dhurwey., Vikrant P. Katekar., Sandip Shridharrao Deshmukh. An Experimental Investigation of Thermal Performance of Double Basin, Double Slope, Stepped Solar Distillation System, *International Journal of Mechanical and Production Engineering Research and Development*, 2019.
56. H. Patel, P.K. Penumakala, D. Patel. Properties of three phase magneto-electro-thermo-elastic composites, *Materials Science Forum*, 2019.
57. A Sharma, B. Vasudevan, R. Sujith, N. Kotkunde, K. Suresh, A. K. Gupta. Effect of graphene nanoplatelets on the mechanical properties of aluminium matrix composite, *Materials Today Proceedings*, 2019.

58. M.A. Wahed, V.S.R. Gadi, A.K. Gupta, K. Supradeepan, S.K. Sing, N.R. Kotkunde. Finite element analysis of spring back in Ti-6Al-4V alloy, *Materials Today Proceedings*, 2019.
59. GauriMahalle, Nitin Kotkunde, Amit Kumar Gupta, Swadesh Kumar Singh. Cowper-Symonds Strain Hardening Model for Flow Behaviour of Inconel 718 Alloy, *Materials Today Proceedings*, 2019.
60. MihirOjha, Pavan Kumar Penumakala, GayatriVineelaMarrivada, Phaneendra Kiran Chaganti, Amit Kumar Gupta. Processing of Glass Fiber Pultruded Composites Using Graphene Nanoplatelets Modified Epoxy Matrix, *Materials Today Proceedings*, 2019.
61. S. P. Datta, P. K. Das, S. Mukhopadhyay. An optimized ANN for the performance prediction of an automotive air conditioning system, *International Journal of Science and Technology for the Built Environment*, 2019.
62. Srinivas, G. L., &Javed, A. Topology Optimization of Industrial Manipulator-Link Considering Dynamic Loading, *Materials Today: Proceedings*, 18, 3717-3725. 2019.
63. Gurugubelli P.S., Jaiman R.K. Interaction of gap flow with flapping dynamics of two side-by-side elastic foils, *International Journal of Heat and Fluid Flows*.2019.
64. Dudla. S., Dubey, S. K. &Goel, S. Fully Integrated, Automated and Smartphone enabled Point-of-Source Portable Platform with Microfluidic Device for Nitrite Detection. *IEEE Transactions on Biomedical Circuits and Systems*.2019.
65. Nabapure Deepak, Ram chandra murthy K. Simulation of flow in single and double-sided lid driven square cavities by direct simulation Monte Carlo method. *Thermal Science*.2019.
66. G.V.N. Trivedi, R. Parameshwaran, Microencapsulated phase change material suspensions for cool thermal energy storage, *Materials Chemistry and Physics*, 2019, 122519 (Accepted).

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) **National:** NIL

ii) **International:**

1. Ankit Sharma, Amrita Priyadarshini, Ravindran Sujith, MVS Subrahmanyam, P Allen Thomas, Amit Kumar Gupta. Effect of GNP on microstructural and tribological properties of Al MMC. *International Mechanical Engineering Congress and Exposition (IMECE)*. November 2019.
2. G. Nanda, E. W. Awin, T. Gasjak, E. Y. Koroleva, A. V. Filiminov, S. Vakhrushev, R. Sujith, Ravi Kumar. Dielectric properties of precursor derived monoclinic Nb₂O₅. *International Symposium on Advanced Materials for Industrial and Societal Applications (NMD ATM 2019)*. November 2019.
3. A Sharma, R. Sujith, A. K. Gupta. Functionally graded foam material for high strain rates and ballistic testing of armor materials. *International Conference on Advanced Materials and Processes for Defence Applications (ADMAT 2019)*. September 2019.
4. A. Sharma, V. Bhuvanesh, R. Sujith, N. Kotkunde, K. Suresh, A. K. Gupta. Effect of graphene nanoplatelets on the mechanical properties of Al metal matrix composites. *10th International Conference on Materials Processing and Characterization (ICMPC 2019)*. February 2019.
5. R.S. Vidyarthi, D.K. Dwivedi. Weldability Evaluation of 409 FSS with A-TIG Welding Process, *9th International Conference on Materials Processing and Characterization (ICMPC 2019)*. March 2019.
6. R.S. Vidyarthi, R Bhattacharjee, S Mohapatra, BijayaBijetaNayak. Effects of the activating fluxes on the properties of the tungsten inert gas welded structural steel. *International Conference on Advances in Materials and Manufacturing Engineering-2019*. March 2019.
7. R.S. Vidyarthi, P. Sivateja. Influence of activating flux tungsten inert gas welding on mechanical and metallurgical properties of the mild steel. *2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019)*. November 2019.
8. M Ojha, P.K. Penumakala, G V Marrivada, C.P. Kiran, A.K. Gupta. Processing of Glass Fiber Pultruded Composites Using Graphene Nanoplatelets Modified Epoxy Matrix, *10th International Conference on Materials Processing and Characterization (ICMPC 2019)*. March 2019.
9. V. Venkateswara Rao, S. P. Datta. An exergy analysis of single to multi-stage evaporative cooling systems for different climatic conditions across India, *14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT- 2019)*. July 2019.
10. Deepak V., S. P. Datta. An energy efficient thermal management strategy of a lithium-ion battery for hybrid vehicles *14th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT- 2019)*. July 2019.

11. S. Lakhtakia, V. Sharma, A. K. Mundra, S. P. Datta, J. B. Maderpalem, M. Ramchandani, D. N. Reddy. Smart gyrosopic device to accurately estimate the volume of Pseudocyst model using EUS. Digestive Disease Week (DDW-2019). May 2019.
12. V. Venkateswara Rao, S. P. Datta. Life cycle costing (LCC) of a hybrid evaporative cooling system for a high-rise building in India, 12th International Conference on Thermal Engineering: Theory and Applications. April 2019.
13. G. Lakshmi Srinivas, Arshad Javed. A Review on Optimization Methods to Enhance Energy Efficiency of Robots. National Conference on Multidisciplinary Design, Analysis, and Optimization NCMDAO, M.S Ramaiah Institute of Technology, Bangalore. March 2019.
14. Sandeep Sulake, Satish Kumar Dubey, Arshad Javed. Numerical Heat Transfer Simulations and Parametric Investigations using Crossed Array Design of Experiments Approach during RFA of Breast Tumor. July 2019.
15. Mishra, Ruchik, Ajmera, Yug. Mishra, Nikhil. Javed, Arshad. Ego-Centric Framework for a Three-Wheel Omni-Drive Telepresence Robot 2019 IEEE International Conference on Advanced Robotics and its Social Impacts (ARSO), BIT, Beijing, China. November 2019.
16. Uday Kumar, A., Dubey. S. K., & Javed, A. Numerical Simulation of Flow Boiling in Micro Channel to Study Bubble Dynamics. Proceedings of the ASME 2019 Summer Heat Transfer Conference, HT2019, Bellevue, WA, USA. July 2019.
17. G Lakshmi Srinivas and Arshad Javed. Numerical Evaluation of Topologically Optimized Ribs for Mechanical Components, 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), BITS Pilani, Dubai Campus, Dubai, UAE. November 2019.
18. SohanDudala, Lanka Tata Rao, Satish Kumar Dubey, Arshad Javed and SanketGoel. Experimental Characterization to Fabricate CO₂ Laser ablated PMMA Microchannel with Homogeneous Surface 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), BITS Pilani, Dubai Campus, Dubai, UAE. November 2019.
19. SangamSrikanth, JaligamMurali Mohan¹, SohanDudala, Satish Kumar Dubey, Arshad Javed and SanketGoel, Direct UV Laser Writing System to Photolithographically Fabricate Optimal Microfluidic Geometries: Experimental Investigations, 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), BITS Pilani, Dubai Campus, Dubai, UAE. November 2019.
20. Rishabh Agrawal, Kiran C P, Madan Mohan Reddy. Evaluation for sustainability of machining processes in Indian small scale industries, 2nd International conference on Materials, Manufacturing and Modeling, ICMMM 2019, 29-31 March, 2019, VIT, Vellore, India.
21. Piyush Chandra Verma, SumanKumari Mishra. Synthesis of Iron Boride Powder by Carbothermic Reduction Method, 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), BITS Pilani, Dubai Campus, Dubai, UAE. November 2019.
22. V H Ameya, IVLN Parasuram, K Supradeepan and PS Gurugubelli. Effect of material property variation on the dynamic response of a flexible splitter plate attached behind a square cylinder due to flow induced load, 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), BITS Pilani, Dubai Campus, Dubai, UAE. November 2019.
23. AishwaryaDhurwey, Vikrant Katekar&Sandip Deshmukh. An Experimental Investigation of Thermal Performance of Double Basin, Double Slope, Stepped Solar Distillation System, 1st International Conference on Advances and Challenges in Energy Research (ICACER-2019) held at RCOEM Nagpur, India, March 15-17, 2019.
24. MoinuddinOvase, G.V.N. Trivedi, R. Parameshwaran, &Sandip S. Deshmukh. Preparation and Characterization of Microencapsulated Organic Phase Change Material for Cool Thermal Energy Storage Applications, International Conference On Advanced Nanomaterials and Devices for Energy and Environment (ICAN-2019) held at ABV-Indian Institute of Information Technology and Management-IIITM, Gwalior, India, January 27-29, 2019.
25. AnkammaraoPadamurthy, Jalaiah Nandanavanam and Parameshwaran Rajagopalan. Cyclability assessment of selected zeolites for thermochemical energy storage applications, Second International Mechanical Engineering Congress (IMEC) – 2019, 29th November 2019 to 1st December 2019, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India. November 2019.
26. K. Sravani, K. Prasannavenkatesan, R. Parameshwaran. Preparation and characterization of magnetic nanoparticles-enhanced phase change material for thermal storage, 12th International Conference on Thermal Engineering: Theory and Applications (ICTEA-2019), February 23-26, 2019, PanditDeendayal Petroleum University Gandhinagar, Gujarat, India in collaboration with Ryerson University in Toronto, Canada. February 2019.

27. Deepak Nabapure, Kalluri Ram Chandra Murthy. DSMC Simulation of Rarefied Gas Flow over a Wall Mounted Cube, Proceedings of the ASME-JSME-KSME 2019 Joint Fluids Engineering Conference AJKFLUIDS2019, July 28-August 1, 2019, San Francisco, CA, USA. July 2019.
28. Deepak Nabapure, Kalluri Ram Chandra Murthy. DSMC Simulation of a four-sided lid-driven cavity flow problem, 28th International Conference on Discrete Simulation of Fluid Dynamics, JNCASR, Bangalore, INDIA, 22nd – 26th July 2019.
29. V H Ameya, IVLN Parasuram, K Supradeepan. Flow past counter rotating side by side cylinders, International mechanical engineering congress, NIT Trichy, India 29 Nov – 1 Dec 2019.
30. IVLN Parasuram, V H Ameya, K Supradeepan Flow past heterogeneous array of cylinders, Asian congress of Fluid mechanics, JNCASR, Bangalore, 13-17 December 2019.
31. IVLN Parasuram, V H Ameya, K Supradeepan Heat transfer characteristics of flow past heterogeneous array of cylinders, International Heat and mass transfer conference IHMTC19, IIT Roorkee, 28-31 December 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED: - NIL -

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Workshop on Research Paper Writing Conducted by DRC on January, 2019.
2. Orientation Programme organized to interact with Faculty, Staffs, Students, & PhD scholars on August 2019.

8. INVITED TALKS GIVEN BY BITS FACULTY:

Name of Faculty	Organization	Topic of the Guest Lecture / Talk	Duration
Dr Sujith R	Mahatma Gandhi University, Kottayam	Third International Conference on Advanced Materials (ICAM 2019)	9-11, August 2019
Dr Ravi Shanker Vidyarthi	Indian Institute of Metal Kalpakkam chapter, IGCAR, Kalpakkam	Effect of Activating Flux on A-TIG weldments	7, November 2019
Dr C P Kiran	Anurag Group of Institutions (AGI), Hyderabad	Surface measurement technology	15, November 2019
Dr Satish K Dubey	Hiroshima University, Japan	Bio-microfluidic Devices: Status and Scope for High-speed vision	2, July 2019
Dr R. Parameshwaran	CVR College of Engineering, Hyderabad	Materials for Sustainable Infrastructure – Green Building Materials, Phase Change Materials, Nanomaterials	25-27, September 2019
Prof N Suresh Kumar Reddy	Defence Metallurgical Research Laboratory (DMRL) - DRDO, Hyderabad	Electro static solid lubricant coatings	4-12, Dec 2019
Dr Sabareesh G R	Tokyo Polytechnic University, Japan	Wind Resistant Design of Special Structures Housing Sensitive Instruments	13, July 2019
Dr Sabareesh G R	Ginzton Laboratory, Stanford University, USA.	Geometrical Modifications for wind resistant design of proposed LIGO India Structure	28, June 2019
Dr Supradeepan K	MCEME, Hyderabad	Human response to vibration	09, Aug 2019

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT:

Name of Guest	Organization	Topic of the Guest Lecture / Talk	Duration
Prof Partha Sarkar	Iowa State University-Ames	Physical and Numerical Simulations of Wind and its Effects on Civil Structures	January 11, 2019
Mr R Duraisamy	M/s Shrishti Consultants	Lean Management	February 5, 2019
Mr. Mahesh Pappu	UniWay	artificial intelligence and career counselling for higher studies	February 07, 2019

Name of Guest	Organization	Topic of the Guest Lecture / Talk	Duration
MrOmkar	Flipkart	Inventory Management in Supply chain	February 21, 2019
Mr Satish Kumar Bollareddy	ComfortlineAirconPvt Ltd,	HVAC Systems for High-Rise Commercial Buildings - Scope and Career Aspects	March 29, 2019
Dr Suresh MVJJ	GE India Technology Center	Application of Genetic Algorithms in Engineering Design Optimization	April 12, 2019
Prof J Ramkumar	IIT Kanpur	Introduction & recent advances in micro-manufacturing	August 16, 2019
Dr. FatemehSalehi	Macquarie University	The use of computational fluid dynamic (CFD) simulations for clean energy technologies	November 21, 2019

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Dr Satish Kumar Dubey won "ILDP Faculty Exchange: underInternational Exchange Program titled International Linkage Degree Program (ILDP) forDeveloping Innovators Transforming Advanced Technology to Social Goals, Hiroshima University. July 2019.
2. Dr R Parameshwaran Won Best Paper Award, 12th International Conference on Thermal Engineering: Theory and Applications (ICTEA-2019), February 23-26, 2019, PanditDeendayal Petroleum University Gandhinagar, Gujarat, India in collaboration with Ryerson University in Toronto, Canada.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY VISITS:

1. Industry Visit to Nucleart Fuel Complex (NFC, DAE) organized by department along with Faculty memebers& Students on February 2019.
2. Industrial Visit to KaleshwaramIrrigation Project on 1st September, 2019 the mechanical students of second and third year were given an opportunity to witness the famous Kaleshwaram project, which is a multi-purpose irrigation project on the Godavari River in Kaleshwaram, Bhoopalpally, Telangana.
3. Mr Khalid Anwarattended COMSOL training programme organized by M/S. COMSOL at Bangalore during November 2019.
4. Mechanical &Manufactuing Engg studnets were taken to visit to MCEME (Military College of Electrical & Mechanical Engineering) coordinated byDr Supradeepan K duringNovember 2019.
5. FDP in HVAC by AICTE and ISHRAE on Refrigeration &Aircondition Coordinated by Prof Sandip S Deshmukh on December, 2019.

12. PATENTS FILED/PUBLISHED AND GRANTED:

1. Sohan Dudala, Satish K Dubey and Sanket Goel, Microfluidics Based Integrated System for Nitrite and Nitrate Detection and Analysis, Patent filled in Feb-2019, Application Number: 201911004347
2. Srinivasa Rao Vutla, Srinivasa Prakash Regalla, Kannan Ramaswamy, Hemair Systems Private Limited, "Sustainable Microelectromechanical Systems (MEMS) Cleanroom", Provisional Indian Patent filed, Ref/App.No.: 201941041293/TEMP/E-1/43749/2019-CHE, Dated:11/OCT/2019.

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

Mechanical Engineering Association:

- CREO Workshopconducted by Mr. SohanDuddala (MEStudent) was a three-day workshop from 13-15th Februarywith duration of about one hour each. The Topics coveredon the first day were 2D drawings and Basic commands insketch mode.
- Marvels of Mechanicon 11th September 2019 - first Pre-Atmos event, a quiz on the applications of mechanics in day to day life.
- Talk on E-Mobility on 10th October 2019 about BharatMobi is a startup working intensely on retrofitting technology for the past few years. They offer conventional car conversion into zero emission electric vehicles (EVs).
- 3D Printing Workshop on 19th and 20th October 2019 to learn about 3D technology from design to prototype, including traditional methods.

- Aeromodelling Workshop on 18th and 19th October 2019 The workshop covered all the basic concepts of aerodynamics, aeromodelling and all technical details to learn and build an aircraft. Students built their own aircraft and did flying training at the end of the workshop.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	Markforged3D Printer	1
2.	Resin Infusion Kit	1
3.	Refrigerator/ Heating circulator	1
4.	Supermicro 6000 Series Server	1
5.	High Speed Camera (Phantom VEO 440L)	1

B3.10.10 Department of Mathematics

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	1
Associate Professors	4
Assistant Professors	18
Lecturers	0
Visiting Faculty	1
Visiting Assistant Professors	0

Head of the Department : **Dr. Dipak Kumar Satpathi**
 Contact Details : 040 - 6630 3507
 Email : dipak@hyderabad.bits-pilani.ac.in

Number of Ph.D. Scholars:

Full Time : 21
 Part Time : 3
 Aspirant Scheme : 0

Ph.D. Thesis Submitted during the year: 2019

S.No.	Name	ID	Topic	Supervisor	Co-Supervisor
1	Parbati Sahoo	2015PHXF0008H	Study of accelerated expansion of universe in the framework of $f(R, T)$ gravity	Prof. P.K. Sahoo	Prof. B. Mishra
2	Sankarsan Tarai	2014PHXF0411H	Study on the dynamics of anisotropic cosmological models in a modified theory of gravity	Prof. B. Mishra	Prof. P.K. Sahoo
3	Pratik Premadarshi Ray	2015PHXF0009H	Study on Late Time Cosmic Dynamics and Some Anisotropic Dark Energy Models	Prof. B. Mishra	Prof. P.K. Sahoo

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Cosmic Acceleration with Observational Constraints of the Universe in Modified Gravity	Mathematics	P. K. Sahoo	-	CSIR	-	2040528

B. Industry Sanctioned Projects - NIL -**C. International Sanctioned Projects** - NIL -**D. Institute Sanctioned Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Modeling the Hydrodynamics of porous breakwaters in ports and harbors under irregular and multi-directional incident waves	Mathematics	Santanu Koley	-	ACRG	-	700000
2	Efficient reconstruction of boundary data using the method of fundamental solutions for the two-phase inverse Stefan problem	Mathematics	Dr. Guji Murali Mohan Reddy	None	ACRG	-	700000

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Development of an accurate and robust unstructured grid-based adjoint approach for compressible turbulent flows	Mathematics	Anil Nemili	-	SERB - DST	-	15,90,600
2	Comparison of phase velocities of Rayleigh waves, Love waves and Torsional waves in various anisotropic geo-media	Mathematics	Sumit Kumar Vishwakarma	-	SERB - DST	-	13,66,800
3	Characterizing the sets of periodic points of automorphisms on a solenoid	Mathematics	Sharan Gopal	-	SERB - DST	-	19,98,480
4	Modeling the hydrodynamics of various wave energy converter devices in real sea conditions	Mathematics	Santanu Koley	-	DST-INSPIRE	-	35,00,000

B. Ongoing Industry Projects - NIL -

C. Ongoing International Sanctioned Projects - NIL -

D. Ongoing Institute Projects - NIL -

3. COMPLETED PROJECTS

A. Completed Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Development of an encryption algorithm for secure transmission of color images	Mathematics	Manish Kumar	-	SERB-DST	-	1508000

B. Completed Industry Projects - NIL -

C. Completed International Projects - NIL -

D. Completed Institute Projects - NIL -

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty in Journals

- B. Mishra, G. Ribeiro, P.H.R.S. Moraes: De Sitter and bounce solutions from anisotropy in extended gravity cosmology, *Modern Physics Letter A*, 34, 1950321, 2019.
- B. Mishra, Pratik P. Ray, S.K. Tripathy: Axially magnetized cosmological model, *Modern Physics Letter A*, 34, 19502017, 2019.
- Pratik P Ray, B. Mishra, S.K. Tripathy: Dynamics of anisotropic dark energy universe embedded in one directional magnetized fluid, *International Journal of Modern Physics D*, 28(7), 1950093, 2019.
- S. Aygun, C. Aktas, B. Mishra: Quadratic equation of state solutions with in $f(R, T)$ gravitation theory, *Indian Journal of Physics*, 93: 407-414, 2019.
- B. Mishra, Pratik P. Ray, R. Myrzakulov: Viscous Fluid Embedded hybrid dark energy models, *European Physical Journal C*, 79:34, 1-8, 2019.
- P.K. Sahoo, I. Radinschi, K. L. Mahanta, "Energy-Momentum Distribution in General Relativity for a Phantom Black Hole Metric", *Indian Journal of Physics*, (2019).
- P. H. R. S. Moraes, Pradyumn Kumar Sahoo, Shreyas Sunil Kulkarni, Shivaank Agarwal, "An Exponential Shape Function for Wormholes in Modified Gravity", *Chin. Phys. Lett.* 36(12), (2019) 120401.
- P.H.R.S. Moraes, P.K. Sahoo, "Wormholes in exponential $f(R, T)$ gravity", *European Physical Journal C* 79(8), (2019) 677.
- Parbati Sahoo, Annika Kirschner, P.K. Sahoo, "Phantom fluid wormhole in $f(R, T)$ gravity", *Modern Physics Letters A* 34, (2019), 1950303.
- P.H.R.S. Moraes, P.K. Sahoo, Barkha Taori, Parbati Sahoo, "Phantom energy dominated universe as a transient stage in $f(R)$ cosmology", *International Journal of Modern Physics D*, 28(10) (2019) 1950124.
- P.H.R.S. Moraes, P.K. Sahoo, G. Ribeiro, R.A.C. Correa: "A cosmological scenario from the Starobinsky model within the $f(R, T)$ formalism", *Advances in Astronomy*, 2019 (2019) 8574798.
- Anil Kumar Yadav, P.K. Sahoo, Vinod Bhardwaj: "Bulk viscous Bianchi-I embedded cosmological model in $f(R, T) = f_1(R) + f_2(R)f_3(T)$ gravity", *Modern Physics Letters A*, 34 (19), (2019) 1950145.
- Manish Kumar, R. N. Mohapatra, Sajal Agarwal, G. Sathish, S. N. Raw, A new RGB image encryption using generalized Vigenere-type table over symmetric group associated with virtual planet domain, *Multimedia Tools and Applications*, Vol. 78, pp. 10227--10263, 2019 (Springer).
- Manish Kumar, Sathish G, Michael Alphonse, Rachid Ait Maalem Lahcen, A new RGB image encryption using generalized heat equation associated with generalized Vigenere-type table over symmetric group, *Multimedia Tools and Applications*, Vol. 78, pp 28025--28061, 2019 (Springer).
- Jagan Mohan Jonnalagadda, Fractional Difference Equations of Volterra Type, *Kragujevac Journal of Mathematics*, Volume 43, Number 2, 219 – 237, 2019.
- Jagan Mohan Jonnalagadda, Asymptotic Stability for 2×2 Fractional Nabla Difference Systems, *International Journal of Dynamics and Control*, Springer, Volume 7, Number 1, 326 – 329, 2019.

17. Paul Eloe and Jaganmohan Jonnalagadda, Quasilinearization and Boundary Value Problems for Riemann - Liouville Fractional Differential Equations, *Electronic Journal of Differential Equations*, Volume 2019, Number 58, 1 – 15, 2019.
18. Debananda Basua and Jagan Mohan Jonnalagadda, Lyapunov - Type Inequality for a Riemann - Liouville Type Fractional Boundary Value Problem, *Novi Sad Journal of Mathematics*, Volume 49, Number 1, 137 – 152, 2019.
19. Paul Eloe and Jagan Mohan Jonnalagadda, Mittag - Leffler Stability of Systems of Fractional Nabla Difference Equations, *Bulletin of Korean Mathematical Society*, Volume 56, Number 4, 977 – 992, 2019.
20. Paul Eloe, Jagan Mohan Jonnalagadda and Youssef Raffoul, The Large Contraction Principle and Existence of Periodic Solutions for Infinite Delay Volterra Difference Equations, *Turkish Journal of Mathematics*, Volume 43, 1988 – 1999, 2019.
21. Debananda Basua, Jagan Mohan Jonnalagadda and Dipak Kumar Satpathi, Lyapunov Type Inequalities for Riemann Liouville Type Fractional Boundary Value Problems with Fractional Boundary Conditions, *Advances in the Theory of Nonlinear Analysis and its Applications*, Volume 3, Number 2, 53 – 63, 2019.
22. Vishwakarma, SK, Panigrahi, TR, Kaur, R (2019). SH-wave propagation in linearly varying fiber-reinforced viscoelastic composite structure uninitial stress, *Arabian Journal of Geosciences*, Springer, 12:12-59.
23. Vishwakarma, SK, Kaur, R, Panigrahi, TR (2019). Torsional wave frequency in heterogeneous earth crust lying over dry sandy semi-infinite substratum, *Applied Mathematics and Mechanics*, Springer, 40(10):1399-1412.
24. Koley, S. 2019. Wave transmission through multilayered porous breakwater under regular and irregular incident waves, *Engineering Analysis with Boundary Elements*, 108, 393-401.
25. M. Gupta, Deepika Baweja, Composition and Translation Operators on Certain Subspaces of the Space of Holomorphic Functions of Bounded Type, *Collect. Math.* 70(2), 323-346., 2019.
26. Banik, M, Bhattacharya, S.S, Ganguly, Nirman, Guha, T, Mukherjee, A, Rai, A and Roy, A, Two-Qubit Pure Entanglement as Optimal Social Welfare Resource in Bayesian Game, *Quantum* 3, 185 (2019).
27. Mundra, R, Patel, D, Chakrabarty, I, Ganguly, Nirman and Chatterjee, S, Broadcasting of quantum correlations in qubit-qudit systems, *Physical Review A* 100, 042319 (2019).
28. Guha, T, Bhattacharya, B, Das, D, Bhattacharya, S.S, Mukherjee, A, Roy, A, Mukherjee, K, Ganguly, Nirman and Majumdar, A.S, Environmental effects on nonlocal correlations, *Quanta* 8, 57 (2019).

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

ii) International:

1. Prof. B. Mishra delivered a talk on "Anisotropic magnetized dark energy cosmological model with skewness parameters" at YITP Asian-Pacific Winter School and Workshop on Gravitation and Cosmology, held at YITP, Kyoto University during February 11-15, 2019.
2. Prof. P. K. Sahoo delivered a talk on " Phantom energy as a transient phenomenon avoiding cosmic doomsday in $f(R)$ gravity " at 22nd International Conference on General Relativity and Gravitation (GR22), from July 7-12, 2019 at Valencia Conference Centre, Valencia, Spain.
3. Dr. Santanu Koley delivered a talk on "Wave interaction with flexible porous plate in variable water depth" at The International Congress on Industrial and Applied Mathematics (ICIAM 2019), July 15 – 19, Valencia, Spain.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED - NIL -

1. T S L Radhika, Book chapter in *Advances in Applied Science and Technology*, Vol. 6, 2019.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT - NIL -

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Prof. B. Mishra delivered a talk on "New Approach to study the dynamical cosmic behaviour in extended gravity" at 21st International Conference on Physical Interpretation of Relativity Theory, held at Bauman Moscow State Technical University, Moscow during 1st-5th July, 2019.
2. Prof. P. K. Sahoo delivered an invited talk on "Wormholes in Modified Gravity and General Relativity: A Comparative Study" at International Conference on Differential Geometry and Relativity-2019 (ICDGR-2019) at Department of Mathematics and Statistics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, India from 8th -10th Nov. 2019.

3. Prof. P. K. Sahoo delivered an invited talk on “Finite time future singularities in modified $f(R)$ gravity” at International Conference on Gravitation, Cosmology and Mathematical Physics-2019 (ICGCAMP-2019) at Department of Mathematics and Physics, GLA University, Mathura, India from 4th -7th April 2019.
4. Prof. P. K. Sahoo delivered an invited talk on “Static spherically symmetric wormholes in $f(R, T)$ extended theory of gravity” at National Conference on Cryptography, Thermoelasticity and General Relativity (CTGR-2019) at Department of Mathematics, Nagpur University, Nagpur, India on 27th March 2019.
5. Prof. P. K. Sahoo delivered an invited talk on “Wormholes with different redshift functions in $f(R, T)$ gravity” at International Conference on Recent Inventions and Innovations in Mathematical Sciences-2019 (ICRIIMS-2019) at Department of Applied Mathematics, Andhra University, Visakhapatnam, India from 28th Feb.-1st March 2019.
6. Prof. P. K. Sahoo delivered an invited talk on "Traversable wormholes and energy conditions in $f(R, T)$ gravity". Frontiers in Particle Physics and Cosmology – 2019 (FPPC2019) at School of Physics, University of Hyderabad, Hyderabad, India from 23-25 Jan 2019.
7. Dr. Debopam Chaakraborty was invited as a resource person in the MTTs programme held at IISER-Kolkata from 27/05/2019 to 22/06/2019.
8. Dr. Nirman Ganguly delivered an invited talk on “Basics of Quantum Entanglement and Quantum Computing in Workshop on Quantum Computing under the aegis of IEEE Hyderabad Quantum Computing SIG, held at IIT Hyderabad on November 16, 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Dr. Anjan Kumar Chakrabarty, IIT Guwahati, delivered lectures in the Guest lecture series for the course Introduction to Functional Analysis (MATH F341) on February 13, 2019.
2. Prof. B.L.S. Prakasa Rao, Emeritus Professor of Indian Statistical Institute, delivered a talk on ‘Big Data and High Dimensional Data Analysis’ on February 28, 2019.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Prof. B. Mishra has been elected as a foreign member of Russian Gravitational Society.
2. Prof. P. K. Sahoo has been elected as a fellow of Royal Astronomical Society, London.
3. Prof. P. K. Sahoo has been elected as a foreign member of Russian Gravitational Society.

b. Won by Students:

1. Mrinal Jha (2016B4A70501H), Murlikrishnan Tripathi (2016B4A70329H) and Pratik (2016B4A70549H) participated in Microsoft codefundo and secured 1st position.
2. Anshuman Pati (2016B4A70470H) participated in Microsoft codefundo and secured third position.
3. Jaina Paresh Shah (2016B4A70496H) did an internship at Tel Aviv University in the field of Deep Learning Application in Cyber Security.
4. R. Harivallabha (2016B4A70519H) and Kothwal Khalid Riyaz (2016B4PS0483H) selected in Google summer of Code (GSoC).
3. Mukundan Jayaraman (2016B4A70355H), Shivaank Agarwal (2016B4A70675H) and Prateek Gupta (2015B4A70482H) selected for MITACS.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION - NIL -

12. PATENTS FILED/PUBLISHED AND GRANTED - NIL -

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

a) Activities during tech week:

- i) Sudo-Star: It is an event comprising of solving sudokus of different shape like star shaped sudokus, hexagonal sudokus etc.
- ii) Integration bee: It is an event where you have to solve definite integrals where the limits are some sort of puzzles or general knowledge trivia.
- iii) Mathefia: It is an event based on permutations and combinations, mostly for one who loves numbers.

- b) Activities during ATMOS:
- i) Cubing atmosphere
 - ii) N-crypton
 - iii) Sudo-star
- c) Blog updates on topic like mathematical puzzles, brainmatics, big data analytics.
- d) Workshop on MATLAB

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses
1.	Mathematica	15

B3.10.11 Department of Pharmacy

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	02
Associate Professors	06
Assistant Professors	03
Lecturers	--
Visiting Faculty	--
Visiting Assistant Professors	--

Head of the Department : **Prof. A. Sajeli Begum**
 Contact details : 040-66303578
 Number of Ph.D. Scholars : 48
 Full Time : 39
 Part Time : 08
 Aspirant Scheme : 01

Ph.D. Thesis Submitted during the year: 2019

S. No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Shubham Dwivedi	2014PHXF0401H	Development, Validation and Exploration of Novel Disease Models for Autism	Prof.P. Yogeewari	-
2	VagoluSiva Krishna	2015PHXF0416H	Design and Development of Novel Mycobacterial Inhibitors Targeting Amino Acids Biosynthesis Pathway	Prof. D. Sriram	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	MRI based non-invasive quantitative biomarker for early diagnosis and prognosis of brain tumor Lakhs	Pharmacy	Dr. Venkateswaran	Dr. P. Yogeewari	DBT	-	30,00,000
2	Agro-homeopathy: Potential of homeopathy as a tool to manage phytopathogen / nematode complex for a sustainable agriculture	Pharmacy	Dr. Vidya sagar	Dr. A.Sajeli Begum	CCRH-AYUSH	-	30,32,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
3	Near-Infrared Light Degradable Nanomicellar ChemoPhotodynamic therapy using Aerobic Chlorin e6 Conjugate for Oropharyngeal Carcinomas	Pharmacy	Dr. Swati Biswas	-	DST-SERB-CRG	-	30,72,000
4	Bifunctional Gene-Expression Modulating Chemotherapeutic Agents as Improved Treatment Strategy for Cancer	Pharmacy	Dr. Balam Ghosh	Dr. Swati Biswas	CSIR	-	29,00,000
5	Role of HDAC6 in pathogenesis of oral squamous cell carcinoma: regulation of IL-1beta, EMT and autophagy	Pharmacy	Dr. Onkar Kulkarni	Dr. Balam Ghosh	ICMR	-	27,00,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Pharmacokinetic and pharmacodynamic evaluation of new chemical entities for ocular diseases	Pharmacy	Nirmal J	-	Incilia Therapeutics Pvt Ltd	-	8,14,000
2	Development & characterization of emulsion based drug product for the management of emetogenic cancer chemotherapy	Pharmacy	Dr. Akash Chaurasiya	-	Slayback Pharma	-	7,02,000

C. International Sanctioned Projects – NIL -

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Fate of Drug Encapsulated Ultradeformable Lipid Vesicles after Subconjunctival Delivery	Pharmacy	Nirmal J	-	ACRG	-	10,00,000
2	Surface Modified Nanoparticulate Carrier System for the Effective Delivery of Antileukemic Drug	Pharmacy	Dr. Akash Chaurasiya	-	ACRG	-	10,00,000

ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Strategies against antibiotic resistance in Mycobacterium tuberculosis and ESKAPE pathogens; new drugs and new targets	Pharmacy	Prof. D.Sriram	-	DBT	-	67,00,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
2	Advancing host-directed therapy for tuberculosis/MDR-TB: Development of novel PKB/AKT1 and Protein Kinase R inhibitors as an adjunctive treatment for tuberculosis	Pharmacy	Prof. D.Sriram	-	DBT TATA INNOVATION FELLOWSHIP	-	45,00,000
3	MRI based non-invasive quantitative biomarker for early diagnosis and prognosis of brain tumor	Pharmacy	Dr. Venkateswaran	P. Yogeewari	-	-	30,00,000
4	Investigation on pro-inflammatory cytokine inhibitory low molecular weight metabolites of Pseudomonas sp. ABS-36 for the treatment of renal injury	Pharmacy	Prof.A.Sajeli Begum	Dr. Onkar P. Kulkarni	DST	-	24,39,000
5	Development of smart capsule to target colorectal cancer	Pharmacy	VVK.Venuganti	Dr. Onkar P. Kulkarni	DST-SERB	-	55,00,000
6	Development of ocular drug delivery system	Pharmacy	VVK.Venuganti	Prashant Garg (LVPEI)	ICMR	-	42,00,000
7	Near-Infrared Light Degradable Nanomicellar ChemoPhotodynamic	Pharmacy	Swati Biswas	-	DST-SERB-CRG	-	30,72,000
8	Understanding the role of antimicrobial peptide S100A12 (Cangranulin C) mediated host defense in Pseudomonas keratitis and developing nano-tools for efficient delivery of S100A12	Pharmacy	Sanhita Roy	Swati Biswas	DST-SERB-CRG	-	55,01,000
9	Design, Synthesis and Biological Evaluation of HDAC3 Selective Inhibitors as Long Term Memory Enhancers	Pharmacy	Balaram Ghosh	Prof. Swati Biswas	DST-SERB	-	29,87,000
10	Bifunctional Gene-Expression Modulating Chemotherapeutic Agents as Improved Treatment Strategy for Cancer	Pharmacy	Balaram Ghosh	Prof. Swati Biswas	CSIR	-	29,00,000
11	Functional role of HDAC5 in chronic renal diseases	Pharmacy	Onkar Kulkarni		DBT	-	46,00,000
12	Determination of wound healing (Pro-angiogenic) properties of peptide conjugate	Pharmacy	Onkar Kulkarni		DRDO-INMAS	-	8,00,000
13	Role of HDAC6 in pathogenesis of oral squamous cell carcinoma: regulation of IL-1beta, EMT and autophagy	Pharmacy	Onkar Kulkarni	Balaram Ghosh	ICMR	-	26,00,000
14	Agro-homeopathy: Potential of homeopathy as a tool to manage phytopathogen / nematode complex for a sustainable agriculture	Pharmacy	Dr. Vidya sagar	Dr. A.Sajeli Begum	CCRH-AYUSH	-	30,32,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Pharmacokinetic and pharmacodynamic evaluation of new chemical entities for ocular diseases	Pharmacy	Nirmal J	-	Incilia Therapeutics Pvt Ltd	-	8,14,000
2	Development & characterization of emulsion based drug product for the management of emetogenic cancer chemotherapy	Pharmacy	Dr. Akash Chaurasiya	-	Slayback Pharma	-	7,02,000
3	Identification of UGT-isoform specific substrates and inhibitors and their contribution in drug metabolism and systemic levels of bile secretions	Pharmacy	Dr. Punna Rao	-	Acubiosys Private Limited	-	11,75,000

C. Ongoing International Sanctioned Projects

- NIL -

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Fate of Drug Encapsulated Ultradeformable Lipid Vesicles after Subconjunctival Delivery	Pharmacy	Nirmal J	-	ACRG	-	10,00,000
2	Optimization and characterization of deformable vesicle nanocarriers for ocular therapeutics	Pharmacy	Nirmal J	-	AIG	-	2,00,000
3	Surface Modified Nanoparticulate Carrier System for the Effective Delivery of Antileukemic Drug	Pharmacy	Dr. Akash Chaurasiya	-	ACRG	-	10,00,000
4	Development, Optimization and Characterization of nanostructured carrier system for effective delivery of anticancer therapeutics	Pharmacy	Dr. Akash Chaurasiya	-	AIG	-	2,00,000

COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Design and synthesis & biological evaluation of Mycobacterium tuberculosis serine/threonine protein kinase (BPkNB) inhibitors	Pharmacy	Prof. D.Sriram	-	DST	-	27,61,000
2	Investigation of Knowledge on Dengue Fever Followed by Education and its Post Impact Behavioral Changes Among the Rural Communities of Shameerpet Mandal of Ranga Reddy District of Telangana State	Pharmacy	Prof.A.Sajeli Begum	Dr.Swati Alok	ICMR-ICSSR	-	10,89,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
3	UK-India Centre for Advanced Technology for Minimization of indiscriminate use of Antibiotics (UKICAT-MA)	Pharmacy	Dr. Prashant Garg	VVK Venuganti	DBT-MRC	-	45,00,000
4	Role and regulation of IL-1beta in diabetic wound healing and regeneration	Pharmacy	Onkar Kulkarni	-	DST-SERB	-	26,00,000

B. Completed Industry Projects - NIL -

C. Completed International Projects - NIL -

D. Completed Institute Projects - NIL -

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

- Patel T., Gaikwad R., Jain K., Ganesh R., Bobde Y., Ghosh B., Das K., Gayen S. First Report on 3-(3-oxoaryl) Indole Derivatives as Anticancer Agents: Microwave Assisted Synthesis, In Vitro Screening and Molecular Docking Studies 4 15 4478 4482 2365-6549 2019
- Tejshri R. Deshmukh., Smita P. Khare., Vagolu S. Krishna., Dharmarajan Sriram., Jaiprakash N.Sangshetti., Bapurao B. Shingate Synthesis of 1,2,3-triazole incorporated monocarbonyl curcumin analogues as potent antitubercular, antifungal and antioxidant agents 9 159 70 2249 4820 2019
- A Sajeli Begum, Swati Alok, Samrun Nessa. Larval survey and spatial epidemiological analysis of vector Aedes aegypti to study the risk of dengue outbreak in India 1 12 0343-2521 2019
- S k Alim., Deepthi Priyanka Damera., Sravani Kaja., Leela Sai Lokesh Janardhanam., Venkata Vamsi Krishna Venuganti., Amit Nag Synthesis, detailed characterization and dual drug delivery application of BSA loaded Aquasomes 1 30 2576-6422 2019
- Karale U.B., Krishna V.S., Krishna E.V., Choudhari A.S., Shukla M., Gaikwad V.R., Mahizhaveni B., Chopra S., Misra S., Sarkar D., Sriram D., Dusthacker V.N.A., Rode H.B. Synthesis and biological evaluation of 2,4,5-trisubstituted thiazoles as antituberculosis agents effective against drug-resistant tuberculosis 178 0223-5234 2019
- Makane V.B., Krishna V.S., Krishna E.V., Shukla M., Mahizhaveni B., Misra S., Chopra S., Sriram D., Dusthacker V.N.A., Rode H.B. Synthesis and evaluation of α -aminoacyl amides as antitubercular agents effective on drug resistant tuberculosis 665 677 0223-5234 2019
- Sk AbdulAmin., Nilanjan Adhikari., Sonali Kotagiri., Tarun Jha., Balam Ghosh Histone deacetylase 3 inhibitors in learning and memory processes with special emphasis on benzamides 166-369 380 1768-3254 2019
- Tarun Jha., Nilanjan Adhikari., Yamini Bobde., Prakruti Trivedi., Routholla Ganesh., Sk Abdul Amin., Balam Ghosh Design, synthesis, biological evaluation and molecular docking study of arylcarboxamido piperidine and piperazine-based hydroxamates as potential HDAC8 inhibitors with promising anticancer activity 138 105046 105046 0928-0987 2019
- Vitthal B Makane., Vagolu Siva Krishna., Eruva Vamshi Krishna., Manjulika Shukla., Balakrishnan Mahizhaveni., Sunil Mishra., Dharmarajan Sriram., Sidharth chopra., Vijayan N Azger Dusthacker., Haridas B Rode Novel 1,3,4-oxadiazoles as antitubercular agents with limited activity against drug-resistant tuberculosis 1756-8927 2019
- A Sajeli Begum, Onkar P Kulkarni., Pragya Paramita Pal., Hiroshi Araya., Yoshinori Fujimoto., Kirti Hira., Ameer Basha Shaik I-Proline-based-cyclic dipeptides from Pseudomonas sp. (ABS-36) inhibit pro-inflammatory cytokines and alleviate crystal-induced renal injury in mice 73 395 404 1567-5769 2019
- Lakshmi Sruthi Mallela., Sanhita Roy., Prashant Garg., Girdhari Roy., Rohini Dev Galigama., Veda Suresh Thorat., Venkata Vamsi Krishna Venuganti Amphotericin B containing microneedle ocular patch for effective treatment of fungal keratitis 0378-5173 2019
- Bhatnagar S., Bankar N.G., Kulkarni M.V., Venuganti V.V.K. Dissolvable microneedle patch containing doxorubicin and docetaxel is effective in 4T1 xenografted breast cancer mouse model 556 263 275 0378-5173, 2019
- Rompicharla S.V.K., Kumari P., Bhatt H., Ghosh B., Biswas S. Biotin functionalized PE Gylated poly (amidoamine) dendrimer conjugate for active targeting of paclitaxel in cance 557 329 341 0378-5173 2019

14. Shubhmita Bhatnagar., Pradeeptha Reddy Gadeela., Pranathi Thathireddy., Venkata Vamsi Krishna Venuganti Microneedle-based drug delivery: materials of construction 131 9 0974-3626 2019
15. Vagolu Siva Krishna., Shan Zheng., Esthara Madhu Rekha., Luke W Guddat., Dharmarajan Sriram Discovery and evaluation of novel Mycobacterium tuberculosis ketol-acid reductoisomerase inhibitors as therapeutic drug leads 33 3 357 366 0920-654X 2019
16. Payra S., Challagulla S., Bobde Y., Chakraborty C., Ghosh B., Roy S. Probing the photo- and electro-catalytic degradation mechanism of methylene blue dye over ZIF-derived ZnO 377 3880304-3894 2019
17. Deshmukh T.R., Khare S.P., Krishna V.S., Sriram D., Sangshetti J.N., Bhusnure O., Khedkar V.M., Shingate B.B. Design and Synthesis of New Aryloxy-linked Dimeric 1,2,3-Triazoles via Click Chemistry Approach: Biological Evaluation and Molecular Docking Study 56 8 21442162 0022-152X 2019
18. Dwivedi, S.; Perumal, Y. VPA treatment in neurosphere culture: an approach towards in vitro modelling of autism 150 106 106 0022-3042, 2019.
19. Dwivedi S., Medishetti R., Rani R., Sevilimedu A., Kulkarni P., Yogeewari P. Larval zebrafish model for studying the effects of valproic acid on neurodevelopment: An approach towards modeling autism 95 56 65 1056-8719, 2019.
20. Parvathi Satti., Pranitha Kakarla., Sai Sankar Jogendra Avula., Radhika Muppa., Sri Vishnu Kiran Rompicharla., Swati Biswas Indigenous irrigants as potent antimicrobials in endodontic treatment: An in vitro study 37 3 275 281 0970-4388, 2019.
21. Puratchikody A., Umamaheswari A., Irfan N., Sriram D. Molecular dynamics studies on COX-2 protein-tyrosine analogue complex and ligand-based computational analysis of halo-substituted tyrosine analogues 16 11 1211 1232 1570-1808, 2019.
22. Himanshu Bhatt., Sri Vishnu Kiran Rompicharla., Balam Ghosh., Swati Biswas α -Tocopherol Succinate-Anchored PEGylated Poly(amidoamine) Dendrimer for the Delivery of Paclitaxel: Assessment of in Vitro and in Vivo Therapeutic Efficacy 1543-8392, 2019.
23. Preeti Kumari., Sri Vishnu Kiran Rompicharla., Himanshu Bhatt., Balam Ghosh., Swati Biswas Development of chlorin e6-conjugated poly(ethylene glycol)-poly(D,L-lactide) nanoparticles for photodynamic therapy 1748-6963, 2019.
24. Pogaku V., Krishna V.S., Balachandran C., Rangan K., Sriram D., Aoki S., Basavoju S. The design and green synthesis of novel benzotriazoloquinoliny spirooxindolopyrrolizidines: mycobacterial and antiproliferative studies 43 44 17511 17520 1144-0546, 2019.
25. Kumar A., Revathi R., Sriram D., Curreli F., Debnath A.K., Pai K.S., Kini S.G. Targeting HIV-TB coinfection by developing novel piperidin-4-substituted imines: Design, synthesis, in vitro and in silico studies 352 6 0365-6233, 2019.
26. Akolkar S.V., Nagargoje A.A., Krishna V.S., Sriram D., Sangshetti J.N., Damale M., Shingate B.B. New: N-phenylacetamide-incorporated 1,2,3-triazoles: [Et3NH][OAc]-mediated efficient synthesis and biological evaluation 9 38 22080 22091 2046-2069, 2019.
27. Tsz Tin Yu., Naresh Kumar., Singireddi Srinivasarao., Adinarayana Nandikolla., Shashidhar Nizalapur., Sravani Pulya., Balam Ghosh., S Murugesan., Kondapalli Venkata Chandra Sekhar Design, synthesis and biological evaluation of 1,2,3-triazole based aminobenzimidazoles as novel inhibitors of LasR dependent quorum sensing in Pseudomonas aeruginosa 9 50 29273 29292, 2019
28. Roy S., Gunukula A., Ghosh B., Chakraborty C. A folic acid-sensitive polyfluorene based α -turn-off α -fluorescence nanoprobe for folate receptor overexpressed cancer cell imaging 337 344 0925-4005 2019.
29. Sambaiah M., Mallesh P., Shiva Kumar K., Bobde Y., Hota P.K., Yennam S., Ghosh B., Behera M. Tandem Schiff-Base Formation/Heterocyclization: An Approach to the Synthesis of Fused Pyrazolo-Pyrimidine/Isoxazolo-Pyrimidine Hybrids 30 5 586 592 0936-5214, 2019.
30. Phatak P.S., Bakale R.D., Dhumal S.T., Dahiwade L.K., Choudhari P.B., Siva Krishna V., Sriram D., Haval K.P. Synthesis, antitubercular evaluation and molecular docking studies of phthalimide bearing 1,2,3-triazoles 49 16 2017 2028 0039-7911 2019
31. Gaikwad R., Bobde Y., Ganesh R., Patel T., Rathore A., Ghosh B., Das K., Gayen S. 2-Phenylindole derivatives as anticancer agents: synthesis and screening against murine melanoma, human lung and breast cancer cell lines 49 17 2258 2269 0039-7911, 2019.
32. Thiriveedhi A., Nadh R.V., Srinivasu N., Bobde Y., Ghosh B., Sekhar K.V.G.C. Design, synthesis and anti-tumour activity of new pyrimidine-pyrrole appended triazoles 60 87 96 0887-2333, 2019.
33. Venkata Vamsi Krishna Venuganti., Radha Balkrishna Kulkarni., Anjana Saju., Girdhari Roy., Raghuraman Manimaran., Shubhmita Bhatnagar., Srijanaki Paravastu Pattarabhiran., Kanchan Rajendra Sonawane

- Dissolvable Microneedle-Mediated Transcutaneous Delivery of Tetanus Toxoid Elicits Effective Immune Response 20 7 257 257 1530-9932, 2019
34. Sharma K., Tanwar O., Deora G.S., Ali S., Alam M.M., Zaman M.S., Krishna V.S., Sriram D., Akhter M. Expansion of a novel lead targeting M. tuberculosis DHFR as antitubercular agents 27 7 1421 1429 0968-0896, 2019.
 35. Pogaku V., Krishna V.S., Sriram D., Rangan K., Basavoju S. Ultrasonication-ionic liquid synergy for the synthesis of new potent anti-tuberculosis 1,2,4-triazol-1-yl-pyrazole based pirooxindolopyrrolizidines 29 13 1682 1687 0960-894X 2019
 36. Chitti S., Singireddi S., Santosh Kumar Reddy P., Trivedi P., Bobde Y., Kumar C., Rangan K., Ghosh B., Sekhar K.V.G.C. Design, synthesis and biological evaluation of 2-(3,4-dimethoxyphenyl)-6-(1,2,3,6-tetrahydropyridin-4-yl)imidazo[1,2-a]pyridine analogues as antiproliferative agents 29 18 2551 2558 0960-894X 2019
 37. Bhagat S., Supriya M., Pathak S., Sriram D., Chakraborti A.K. β -Sulfonamidophosphonates as new anti-mycobacterial chemotypes: Design, development of synthetic methodology, and biological evaluation 82 246 252 0045-2068 2019
 38. Santhosh Kumar S., Sajeli Begum A., Hira K., Niazi S., Prashantha Kumar B.R., Araya H., Fujimoto Y. Structure-based design and synthesis of new 4-methylcoumarin-based lignans as pro-inflammatory cytokines (TNF- α , IL-6 and IL-1 β) inhibitors 89 0045-2068 2019
 39. Nagireddy P.K.R., Kommalapati V.K., Siva Krishna V., Sriram D., Tangutur A.D., Kantevari S. Imidazo[2,1-b]thiazole-Coupled Natural Noscapine Derivatives as Anticancer Agents 2470-1343 2019
 40. Pal, P. P.; Kumar, S.; Begum, A. 7,8-Dihydroxy-4-methyl coumarin as pro-inflammatory cytokine inhibitors 176 16 3045 3046 0007-1188 2019
 41. Hira, K.; Begum, A. Natural diketopiperazines as TNF- α and IL-6 inhibitors 176 16 3011 3011 0007-1188 2019
 42. T Uday Kumar., Yamini Bobde., Sravani Pulya., Rangan Krishnan., Balam Ghosh., Anupam Bhattacharya Fused Chromeno[2,3-b]thieno[5,4-d]pyridines as Potential Analogs of Lamellarin D and their Anticancer Activity Evaluation 4 36 10726 10730 2019
 43. Ragavendra Govardhan., Ameer Basha Shaik., A Sajeli Begum., Pragya Paramita Pal Management of sorghum grain mold through induced resistance mechanism using foliar spray of Pseudomonas fluorescens strains and non-conventional chemicals: a field study 1 20 0323-5408, 2019.
 44. Jaiprakash N Sangshetti., Bapurao B Shingate., D Sriram., Vagolu S Krishna., Tejshri R Deshmukh Synthesis and bioevaluation of β -bis(1H-1,2,3-triazol-5-ylmethylene) ketone 1 12 0366-6352 2019
 45. Ceren Ozkul., Sengul Dilem Dogan., Sumeyye Buran., Miyase Gozde Gunduz., Vagolu Siva Krishna., D Sriram Synthesis of Disulfide-Bridged nylâ€™â€™ (Alkyl/Aryl/Heteroaryl)Urea Derivatives and Evaluation of Their Antimicrobial Activities 1612-1872, 2019.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Roy G, Galigama R. D, Thorat V, Mallela L. S, Roy S, Garg P, Venuganti V. V. K. Effect of Ocular Patch Containing Microprojection Array on Corneal Penetration of Amphotericin B Liposomes. 17th Annual Meeting of Controlled Release Society–Indian Chapter, 1st – 2nd February 2019, Mumbai, India.
2. Janardhanam.L.S.L, Indukuri.V.V, Pande.S, Verma.P and Venuganti.V.V.K. Preparation, characterization and in vitro evaluation of layer-by-layer assembled Janus membrane for oral drug delivery. 17th Annual Meeting of Controlled Release Society–Indian Chapter, 1st – 2nd February 2019, Mumbai, India.
3. Manimaran R, Saju A, Sonawane K, Pattarabhiran SP, Roy G, Bhatnagar S, Venuganti VVK. Pain-free as painful intramuscular administration. 17th Annual Meeting of Controlled Release Society–Indian Chapter, 1st – 2nd February 2019, Mumbai, India.
4. A pH Sensitive Polymeric System for the Delivery of Chemotherapeutics in Cancer: Yamini Bobde, Swati Biswas, Balam Ghosh: 8th Annual Conference on Navigating Translational Discoveries under the auspices of International Chemical Biology Society (ICBS) at the CSIR-Indian Institute of Chemical Technology, Hyderabad (IICT-Hyd) between 02-04 Nov, 2019.
5. Development of Histone Deacetylase (HDAC) Inhibitors with Preferential Isoform Selectivity for HDAC3: Ganesh Routhala, Sravani Pulya, Tarun Patel, Swati Biswas, Balam Ghosh: 8th Annual Conference on Navigating Translational Discoveries under the auspices of International Chemical Biology Society (ICBS) at the CSIR-Indian Institute of Chemical Technology, Hyderabad (IICT-Hyd) between 02-04 Nov, 2019.

6. Design and Synthesis of Novel Isoform Selective Histone Deacetylase Inhibitors: Sravani Pulya, Tarun Patel, Swati Biswas, Balaram Ghosh: 8th Annual Conference on Navigating Translational Discoveries under the auspices of International Chemical Biology Society (ICBS) at the CSIR-Indian Institute of Chemical Technology, Hyderabad (IICT-Hyd) between 02-04 Nov, 2019.
7. Oleanolic acid-conjugated poly (D, L-Lactide)-based micelles as a nanocarrier system for effective delivery of doxorubicin and combined therapeutics effects in oral cancer: Soniya Kumbham, Himanshu Bhatt, Balaram Ghosh, Swati Biswas: 8th Annual Conference on Navigating Translational Discoveries under the auspices of International Chemical Biology Society (ICBS) at the CSIR-Indian Institute of Chemical Technology, Hyderabad (IICT-Hyd) between 02-04 Nov, 2019.
8. Development of polymeric nanoparticles for the efficient delivery of fluoroquinolone antibiotic for the treatment of bacterial keratitis: Ch Sai Sanjay, Balaram Ghosh, Sanhita Roy, Swati Biswas: 8th Annual Conference on Navigating Translational Discoveries under the auspices of International Chemical Biology Society (ICBS) at the CSIR-Indian Institute of Chemical Technology, Hyderabad (IICT-Hyd) between 02-04 Nov, 2019.
9. Co-delivery of paclitaxel and chlorine e 6 using nanoparticles for NIR light triggered chemo-photodynamic combination therapy in cancer: Milan Paul, Soniya Kumbham, Himanshu Bhatt, Balaram Ghosh, Swati Biswas: 8th Annual Conference on Navigating Translational Discoveries under the auspices of International Chemical Biology Society (ICBS) at the CSIR-Indian Institute of Chemical Technology, Hyderabad (IICT-Hyd) between 02-04 Nov, 2019.
10. Transferrin Receptor targeted vitamin-E-conjugated dendrimers for the delivery of paclitaxel in cancer: Bhatt Himanshu, Sri Vishnu Kiran Rompicharla, Balaram Ghosh, Swati Biswas: Controlled Release Society (CRS) Indian Chapter, 17th International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Andheri (E), Mumbai - 400 059, India, 1st Feb - 2nd Feb 2019.
11. Oleanolic Acid-Conjugated Poly (D, L-ctide)- Based Micelles as a Nanocarrier System for Effective Delivery of Doxorubicin in Oral cancer: Soniya Kumbham, Himanshu Bhatt, Balaram Ghosh, Swati Biswas: Controlled Release Society (CRS) Indian Chapter, 17th International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems, Andheri (E), Mumbai - 400 059, India, 1st Feb - 2nd Feb 2019.
12. Transferrin/alpha tocopherol modified PAMAM dendrimers for improved tumor delivery of paclitaxel for cancer treatment. Invited talk: 3rd World Cancer Congress, Mumbai, India 20-21 November, 2019. Presenting author: Swati Biswas.
13. DFT-based quantum chemical descriptors and alignment dependent 3D field calculations of metalloenzyme meprin β inhibitors: a quantitative SAR assessment' authored by Nilanjan Adhikari, Sk. Abdul Amin, Balaram Ghosh and Tarun Jha: 4th Annual Conference of Society for the Study of Xenobiotics (SSX), India: 19th to 21st September 2019, IISc Bangalore, India.
14. Jayabalan Nirmal, Andreas Dickescheid, Sonali Nirmal, Neha Agrawal, Moreno Miguel Raja, Barathi Velucham, Subbu Venkatraman, Rupesh Agrawal. Pharmacokinetics of subconjunctival aflibercept in rabbits: Implications for ocular drug delivery. ARVO India, 26-28th July, 2019
15. Akash Chaurasiya Five Days Workshop on Research Informed and Research oriented Teaching in Pharmaceutical Sciences, Ajmer during 20-24 August 2019 at Central University of Rajasthan, Ajmer.
16. Samrun Nessa, Kirti Hira, A. Sajeli Begum. Proinflammatory cytokines inhibition effect of HP. 5th IUPHAR World Conference on the Pharmacology of Natural Products and 51st Annual Conference of Indian Pharmacological Society (IPS), 4th - 7th December, 2019, ICMR-NIN, Hyderabad, India.

ii) International:

1. Yogeewari, P, High Quality Sweet Lime juice powder compositions with enhanced real fruit content and stability for food, pharmaceutical and cosmetic applications. International Conference on Biotechnological Innovations in Food and Healthcare, 27-28 January 2019, Dubai.
2. Sajeli Begum, Santosh kumar, Kirti Hira. Small-molecule inhibitors of proinflammatory cytokines (tnf- α , il-6 and il1 β) effective under Ips-induced mouse endotoxemia model . Cytokines 2019- international cytokines and interferon soceity, vienna, austria. oct 20-23,2019.
3. Pragya P Pal, A. Sajeli Begum. Cytokines inhibition effect of standardized extract of an endophytic fungi from piper nigrum l. Cytokines 2019 - International Cytokines And Interferon Soceity, Vienna, Austria. Oct 20-23,2019.
4. Kirti Hira, A. Sajeli Begum, Cyclo (val-pro) attenuates renal injury by inhibiting pro-inflammatory cytokines in mice renal ischemic model. Cytokines 2019- International Cytokines And Interferon Soceity, Vienna, Austria. Oct 20-23,2019.
5. Roy G, Galigama R. D, Thorat V, Mallela L. S, Roy S, Garg P, Venuganti V. V. K. Corneal permeation of pilocarpine HCl delivered using dissolvable microprojection ocular patch. Controlled Release Society Annual Meeting, Valencia, Spain, 21st - 24th July, 2019

6. Kavitha Sedmaki, Kalyani Karnam, Pravesh Sharma, Balam Ghosh, Onkar Kulkarni. HDAC6 REGULATES SECRETION OF IL-1 β IN CALCIUM OXALATE CRYSTAL STIMULATED European Renal Association–European Dialysis and Transplant Association (ERA-EDTA) 56th ERA-EDTA Congress - June 13-16, 2019 - Budapest, Hungary Nephrology Dialysis Transplantation, Volume 34, Issue Supplement_1, June 2019, gfz106.FP253, <https://doi.org/10.1093/ndt/gfz106.FP253>
7. Sharma Pravesh, Kalyani Karnam, Kavitha Sedmaki, Akshay Salegaonkar, Vamsi Krishna Venuganti, Onkar Prakash Kulkarni. CHITOSAN-HDAC5 SIRNA NANOPARTICLE TREATMENT REDUCE MACROPHAGE ACTIVATION INDUCED BY OXALATE CRYSTALS AND ATTENUATES INFLAMMATION AND ACUTE KIDNEY INJURY. European Renal Association–European Dialysis and Transplant Association (ERA-EDTA) 56th ERA-EDTA Congress - June 13-16, 2019 - Budapest, Hungary Nephrology Dialysis Transplantation, Volume 34, Issue Supplement_1, June 2019, gfz101.SaO056, <https://doi.org/10.1093/ndt/gfz101.SaO056>.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED:

Ridahunlang Nongkhaw, Parameswar Patra, Sonali Nirmal, Akash Chavrasiya, Jayabalan Nirmal, Sachin Dubey *Biologics: Delivery options and formulation development strategies*. Elsevier (Book chapter) In-Press 2019.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. Department of Pharmacy organized Current trends in Pharmaceutucial sciences 2019 (CTPS-2019) on 19th & 20th October 2019. Four industrial experts were invited for presentations during CTPS-2019.
2. BITS Pilani Hyderabad-Department of Pharmacy & SHIMADZU Organized 4 days workshop on Exploring Chromatography & Mass Spectrometry from December 16th 2019 to December 19th 2019.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Yogeewari.P Speaker on "Drug Design Strategies using Target based and Ligand based Modeling" at the National Conference on Computational Approaches in drug discovery and development for immune disorders, 8-9 March 2019, AIMS, Cochin, Kerala, India.
2. Yogeewari.P Speaker on "Role of Academia in Nurturing Innovation" at the FLYNIP2K19: Workshop on Innovation and Entrepreneurship organized by NIPER, Hyderabad and RICH on 8th February 2019, Hyderabad, India
3. Jayabalan Nirmal Title: Translational Pharmaceutics. As a "Resource Person", In PCI, New Delhi sponsored "Continuing Education Program on Integrating Pharmacy Education, Practice & Research: Bridging the Gap" held during March 21-23, 2019 at Annamacharya College of Pharmacy, Rajampet
4. Akash Chaurasiya Invited Talk at IPA Convention 2019 on 11 – 12 September 2019 at Vigyan Bhawan, Delhi.
5. Akash Chaurasiya Invited Talk at Merck Seminar on High risk Formulation on 8 Nov 2019 at Hyatt Centric, Bangalore.
6. VVK Venuganti was invited to participate in Global Engagement Meeting by UK Research and Innovation held at Cairo, Egypt between 5th and 8th February, 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT :

Guest Talk on "Expectation of pharmaceutical industry from academics by Dr. Ajeet K Singh, Vice President-R&D, Ingenus Pharmaceuticals, on 29.03.2019.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

1. Prof. Yogeewari was awarded *Shri B. K. Birla and Shrimati Sarala Birla Chair Professorship* in 2019.
2. Prof. Yogeewari TIE-BIRAC WinER Award 2019 for Women in Entrepreneurial Research received at the 7th Foundation Day Ceremony of BIRAC on 19th March 2019, New Delhi, India.
3. Prof. Yogeewari Best Paper Award in the Category of Food Research Jan 2019-at the International Conference on Biotechnological Innovations in Food and Healthcare, 27-28 January 2019, Dubai, UAE.
4. Prof. Sajeli Begum received "International Travel Award" funded by Nectar Therapeutics Private Ltd., 2019.
5. Arti Dhar received Indra Parekh 50 women in Education Leaders World Education Congress 2019.

b. Won by Students:

1. Ms. Kirti, Research Scholar under Prof. Sajeli Begum received "Meilstein Travel Award" of \$1,200.00 USD to present paper in International Conference Cytokines 2019 in Vienna, Austria.
2. Ms. Kirti Research Scholar under Prof. Sajeli Begum received CSIR-Travel Grant for attending Conference.
3. Ms. Pragya Paramita Pal, Research Scholar under Prof. Sajeli Begum received CSIR-Travel Grant for attending conference.
4. G. Roy received Travel Fellowship from CRS - India Chapter to present poster at CRS Annual Meeting, Valencia, Spain, July 21st 2019
5. G. Roy received 2nd Best Poster Award at CRS - India Chapter Annual Meeting
6. Pravesh Sharma was awarded as best young author of the accepted abstracts and 600 euro travel grant 56th ERA-EDTA Congress - June 13-16, 2019 - Budapest, Hungary

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION: NIL**12. PATENTS FILED/PUBLISHED AND GRANTED**

1. Yogeewari, P., Parameshwar Reddy, A., Dwivedi, S. Indian Patent Application No. E-136359/2019-DEL (28/08/2019): Compounds for the treatment of inflammation and process for preparing the same.
2. Swati Biswas., A muco-adhesive polymeric micellar structure and process for preparing the same: Swati Biswas, Balaram Ghosh, Himanshu Bhat, Sanhita Roy: Patent authority: BITS-Pilani, Hyderabad Campus; Indian Patent Application no. 201911034570 filed on 27th August, 2019
3. A muco-adhesive polymeric micellar structure and process for preparing the same: Swati Biswas, Balaram Ghosh, Himanshu Bhat, Sanhita Roy: Patent authority: BITS-Pilani, Hyderabad Campus; Indian Patent Application no. 201911034570 filed on 27th August, 2019.
4. Novel rhodamine B amides and processes for preparing the same: Jayanty Subbalakshmi, B. Himabindu, Balaram Ghosh, Yamini Bobde. Indian Patent Application number 2019110220063; Filed on 21/05/2019.
5. Compounds for use as anticancer agents and a process for synthesizing the same: Jayanty Subbalakshmi, SD Anwarhussaini, Balaram Ghosh, Yamini Bobde: Patent authority: BITS-Pilani, Hyderabad Campus Filed on 22 January 2019: Indian patent application No 201941002679.

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

- This year during ATMOS 2019 from 18th October to 20th October, Panacea - The Pharmacy Association conducted various events. On the first day a huge participation was seen from Pharmacy students from all over the city for the first event Nostrum Vitae which is a quiz for identifying disease and drugs based on their symptoms.
- On the second day, the 5th Current Trends in Pharmaceutical Sciences took place that involved the following pharmaceutical experts from the industry: Mr. Showket Khan (Marketing Manager at Novonordisk), Dr. Dinesh Sheno (R&D head at NOVARTIS), Mr. Abhijit Sanyal (National Sales Manager, ALCON) and Dr. Sivacharan Kollipara (Principal Scientist at NOVARTIS). The session included a panel discussion with the audience and mainly focused on the scope in Pharmacy.
- On the third day, Drug Optimization and Synthesis workshop was organised by Elsevier. Dr Mandar Bodas conducted the workshop with the Reaxys online tool. A workshop on scientific writing was also organised with speakers Dr. Vivek Khanna and Arvind Semwal.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED:

Two New PHARMACEUTICS LABs were established. Equipments Centrifuge, Sensitive balance, Shaker & Vortex, Ultrasonic cleaner, Hot air oven, pH Meter, etc., were added to the new facility.

B3.10.12 Department of PhysicsNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	3
Associate Professors	6
Assistant Professors	7
Lecturers	0
Visiting Faculty	0
Visiting Assistant Professors	0

Head of the Department	:	P.K.Thiruvikraman
Contact details	:	thiru@hyderabad.bits-pilani.ac.in, Ph: 9010202931
Number of Ph.D. Scholars	:	21
Full Time	:	15
Part Time	:	6
Aspirant Scheme	:	0
Post-doctoral Research Fellow	:	1

Ph.D. Thesis Submitted during the year: 2019

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Smruti Smita Lenka (Awarded)	2013PHXF0417H	Properties of rotating compact stars with exotic matter	Prof. Sarmistha Banik	-
2	Cheera Varalakshmi	2013PHXF0508H	Effect of primordial magnetic field on early structure formation in the Universe	Dr. Rahul Nigam	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	"Exceptional polynomials and their applications to Wigner Function"	Physics	KVS Shiv Chaitanya	-	SERB-DST	-	6,60,000

B. Industry Sanctioned Projects - NIL -**C. International Sanctioned Projects** - NIL -**D. Institute Sanctioned Projects** - NIL -

*Funding sanctioned to S. Banik by International Center for Theoretical Sciences, TIFR, Bangalore to organise an International workshop on "COMPACT STARS IN THE QCD PHASE DIAGRAM VIII: THE ERA OF MULTI-MESSENGER ASTRONOMY", 25th May-5th June, 2020 at ICTS, Bangalore, <https://www.icts.res.in/program/csqcd2020>

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Fundamental Physics in strong gravitational field of neutron stars	Physics	Prof. Sarmistha Banik	Dr. Asrarul Haque	DAE-BRNS	-	24,39,650
2	Quantum Gravity in Rindler space	Physics	Dr. Prasant Samantray	-	CSIR	-	15,46,000
3	Wind Noise mitigation in LIGO India	Mech	Dr. Sabareesh Geeta Rajasekharan	Dr. Rahul Nigam	IUCAA	-	45,00,000
4	Investigations of the effects of photon up conversion materials on the electrical performance of ferroelectric/semiconductor or heterojunction photovoltaic devices	EEE	Dr. Souvik Kundu	Prof B. Harihara Venkataraman	DST – SERB	-	35,00,000

B. Ongoing Industry Projects - NIL –

C. Ongoing International Sanctioned Projects – NIL –

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Quantum theory of Black holes and Quasinormal modes	Physics	Dr. Swastik Bhattacharya	-	BITS Pilani (RIG)	-	1,48,000

3. COMPLETED PROJECTS

A. Completed Government Projects - NIL -

B. Completed Industry Projects - NIL -

C. Completed International Projects - NIL -

D. Completed Institute Projects - NIL -

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

- Jain PS., Thiruvikraman Kandhadai P. Efficiency of the Simulated Annealing Algorithm in Solving the Traveling Salesman Problem Physical Science and Biophysics Journal, Vol:3, No.1, page:5.
- Vaishak P., Rahul Srinivasan., Sashideep Gutti, Chronology protection problem in modified Kerr-Newman spacetimes, Physical Review D, Vol.99, No.2, 2019.
- Aravinda N. Raghavan, Asma Ahmed, "Arrested fungal biofilms as low-modulus structural bio-composites: Water holds the key", European Physical Journal E, Vol. 42, no. 10, 2019
- KVS Shiv Chaitanya (2019), "Quantum Hydrodynamics: Kirchoff Equations", Foundations of Physics, Vol. 49, no. 4, pp 351-364
- Bharathwaj Suresh., Pavan Kumar Reddy Boppidi., B V V S N Prabhakar Rao., Souri Banerjee., Souvik Kundu (2019), "Realizing spike-timing dependent plasticity learning rule in Pt/Cu:ZnO/Nb:STO memristors for implementing single spike based denoising autoencoder", Journal of Micromechanics and Microengineering, Vol. 29, no. 8

6. Sonam Mahajan., Aranya Bhuti Bhattacharjee (2019), "Controllable non-linear effects in a hybrid optomechanical semiconductor microcavity containing a quantum dot and a Kerr medium", *Journal of Modern Optics*, Volume 66, pp.652-654.
7. Srinivasa Rao Vutla., Kannan Ramaswamy., Srinivasa Prakash Regalla (2019), "A laminar fluid flow model for study of ventilation systems in micro-electromechanical systems (MEMS) clean room", *Journal of Physics: Conference Series*, Vol. 1276, no. 1, pp.1-15
8. Ali S., Bhattacharjee A.B. (2019), "Optomechanical control of mode conversion in a hybrid semiconductor microcavity containing a quantum dot", *Optical and Quantum Electronics*, Vol. 51, no. 7, 51: 240. <https://doi.org/10.1007/s11082-019-1955-0>.
9. Pradip K Jha., Aranya Bhuti Bhattacharjee., Vijay Bhatt (2019), "Effect of second-order nonlinearity on quantum coherent oscillations in a quantum dot embedded in a doubly resonant-semiconductor microcavity", *Optik*, Volume 198, pp. 163167. <https://doi.org/10.1016/j.ijleo.2019.163167>.
10. Pradip J Jha., Aranya Bhuti Bhattacharjee., Madhav K Singh (2019), "Photon blockade induced tunable source of one/two photon in a double quantum dot-semiconductor microcavity system", *Optik*, Vol. 185, pp.685-691.
11. Thakur R., Tiwari B., Nigam R., Stability of Gluonic Systems with Multiple Soft Interactions, *Journal of Astrophysics and Astronomy*, Vol 40, 4, 0034 (2019).
12. S. S. Lenka, P. Char, S. Banik, "Properties of Massive Rotating Protoneutron Stars with Hyperons: Evolution and Universality", *Journal of Physics G: Nuclear and Particle Physics*, Volume 46, Number 10, (2019).
13. S. S. Lenka, P. Char and S. Banik "Role of antikaon condensation on the universality relations of hot and rapidly rotating neutron stars" to be published in *J. Physics G* (2019).
14. Vaibhav N. Prakash and Aranya B Bhattacharjee (2019)," Negative Effective Mass, Optical Multistability and Fano Line Shape Control via Mode Tunneling in Double Cavity Optomechanical System", *Journal of Modern Optics*, Volume 66, pp. 1611-1621.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

- i) Prof. P.K.Thiruvikraman delivered a series of lectures on "Oscillations and waves" as part of the "Physics Training and Talent Search" workshop held at Manipal Institute of Technology from 24th May to 2nd June, 2019.
- ii) Prof. P.K.Thiruvikraman delivered invited two lectures on "Image enhancement in spatial and Fourier domain" on 23rd November, 2019 as part of the faculty development program on "Advances in Signal and Image Processing with hands-on training using MATLAB" held at Geethanjali College of Engineering and Technology, Hyderabad.
- iii) Prof. P.K.Thiruvikraman delivered an invited lecture on "Matrix methods for secure transfer of information without exchange of keys" in the All India Seminar on "Cyber Security and Image Processing" organized by Institution of Engineers on 10th and 11th August, 2019 at Hyderabad.
- iv) S Banik:Invited talk on "Rapidly rotating hot compact stars:structure and universality" at Frontier in Particle Physics and Cosmology, at Univ. of Hyderabad, January, 2019.
- v) S. Banik Invited Talk on 'Massive Rotating Protoneutron Star with Hyperons: Evolutionary Stages and Universality' at IAGRG, BITS Pilani, Hyderabad, January 2019.
- (vi) S Banik :Lecture in Certificate course in Astronomy & Astrophysics titled "Gravitational waves from merging Neutron Stars", Osmania University, July 2019.
- vii) S. Banik: Invited talk "Neutron star models in f(R) gravity with realistic EoS" at "Pressing for Progress", a national conference on gender equity in Physics, organized by the Indian Physics Association in University of Hyderabad in September, 2019.
- vii) Prof. B. Harihara Venkataraman delivered an invited talk on "Tailoring the physical properties of bismuth oxide layered ferroelectric materials for random access memory device applications" at the national conference on advanced materials for sustainable energy and sensors, Karaikudi, March 20 - 22, 2019.

ii) International:

1. Prof. B. Harihara Venkataraman has presented a paper titled "Influence of transition metal ion doping on structural and dielectric properties of sol - gel synthesized bismuth ferrite nanoceramics" in IEEE ISAF Conference at EPFL, Lausanne, Switzerland, July 14 - 19, 2019.

2. Presented a paper titled "Influence of thermal treatment on the physical properties of bismuth ferrite Nano ceramics for promising multifarious device applications", at the International conference on multifunctional materials, Hyderabad, Dec 19 - 21, 2019, Waseem Ahmad Wani, Kannan Ramaswamy, Souvik Kundu and B. Harihara Venkataraman.
3. S Banik: Invited talk "Rapid differentially rotating hot neutron stars within relativistic model" in The Xth International Pulsar Timing Array (IPTA 2019) workshop in Pune, India June, 2019.
4. S. Banik presented the poster at International Nuclear Physics Conference (INPC 2019) "Properties of isentropic rotating compact stars with exotic matter" at Glasgow, UK in July 2019.
5. S. Banik presented the poster at International Nuclear Physics Conference (INPC 2019) "Rapid differentially rotating hot neutron stars within relativistic model" at Glasgow, UK in July 2019.
6. Invited talk on "Stability analysis of a differentially rotating, hot, hyper massive Neutron Star merger remnant" in 30th Texas Symposium on Relativistic Astrophysics hosted by the University of Portsmouth, UK in December 2019.
7. Prof. B. Harihara Venkataraman would be chairing a session at the International Conference on Multifunctional Materials, Hyderabad, Dec 19 - 21, 2019.
8. Presented a paper titled "Optimizing the phase formation of multiferroic bismuth ferrite (BiFeO₃) ceramics for multifarious applications", Waseem Ahmad, K Aravind, Souvik Kundu, Kannan Ramaswamy and B. Harihara Venkataraman, 10th International Conference on Materials for Advanced Technologies of Materials Research Society of Singapore, Singapore, June 23 - 28, 2019.
9. Presented a paper titled "Tailoring the physical properties of multiferroic bismuth ferrite Nano ceramics via chemical substitution for photovoltaic applications", Waseem Ahmad, Souvik Kundu, Kannan Ramaswamy and B. Harihara Venkataraman, 10th International Conference on Materials for Advanced Technologies of Materials Research Society of Singapore, Singapore, June 23 - 28, 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. P.K.Thiruvikraman, "A Course on Digital Image Processing with MATLAB", IoP ebooks, 2019

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. The department of Physics organized the 30th Meeting of the Indian Association for General Relativity and Gravitation from 3rd January to 5th January.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Dr. Rahul Nigam presented papers titled "Wind Mitigation in LIGO India structure" and "Corrections to Structure Formation in presence of Primordial Magnetic Field" in Georgia Tech, Atlanta, USA during his visit from 22nd May - 23rd June 2019
2. S Banik delivered an online seminar about career experiences for the session "Women for Women, Helping to Build Sustainable Careers" organised at US Consulate, Kolkata for women undergraduate students, April, 2019.
3. S. Banik: Invited Seminar on "Properties of rapidly rotating hot neutron stars with exotic matter" at IIT Hyderabad, January, 2019.
4. Prof. B. Harihara Venkataraman delivered an invited talk on "Tailoring the physical properties of bismuth oxide layered ferroelectric materials for random access memory device applications" at the national conference on advanced materials for sustainable energy and sensors, Karaikudi, March 20 - 22, 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Prof. Abhay Ashtekar of Pennsylvania State University gave an invited lecture titled "'Big Bang, Black Holes and Gravitational Waves: Illustrations of Paradigm Shifts in Fundamental Science" on 8th January, 2019
2. Prof. Sunil Mukhi, Head, Department of Physics, Indian Institute of Science, Education and Research, Pune, delivered a lecture titled "Let's Not Lose Our Temper: The Value of Science" on 28th February, 2019, on the occasion of National Science Day, 2019
3. Prof. Rajesh Gopakumar, Director, International Centre for Theoretical Sciences, Bengaluru, delivered a lecture titled, "The legacy of Stephen Hawking" on 28th February, 2019, on the occasion of National Science Day, 2019.
4. Prof. T.P. Singh, Tata Institute of Fundamental research, delivered a lecture titled, "Schrodinger's cat, black holes, and the origin of space-time" on 12th April, 2019.

5. Prof. Jayant Murthy, Director, Indian Institute of Astrophysics, Bangalore, delivered a lecture on "To the Moon and Beyond: A Neil Armstrong Retrospective and Perspective" on 20th August, 2019.
6. Prof. Richard de Grijs, of Macquarie University, Australia gave a lecture on 'Is bigger always better? The quest for the next generation extremely large telescopes' on 21st November, 2019
7. Dr. Pravata Mohnaty from Tata Institute of Fundamental Research, Mumbai, gave a lecture on "Recent discovery results from GRAPES-3 cosmic ray observatory" on 16th October, 2019
8. Dr. Prabhat Pujahari, IIT Madras gave a lecture on "An Odyssey through our Universe -- from the 'Big Bang' to the 'Little Bang' " on 17th October, 2019
9. Dr. Parnika Das, Variable Energy Cyclotron Centre, Kolkata, gave a lecture on " Penning Ion Trap" on 18th September, 2019.

10. AWARDS AND RECOGNITIONS

- a. **Won by Faculty:** International travel by Department of Science & Technology, Government of India to S. Banik to present a paper in the international conference "Texas Symposium on Relativistic Astrophysics" at Portsmouth, UK December 2019.
- b. **Won by Students:** - NIL -

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

Dr. Rahul Nigam visited Georgia Institute of Technology and California institute of Technology as part of University immersion during June 2019.

12. **PATENTS FILED/PUBLISHED AND GRANTED** - NIL -
13. **DEPARTMENTAL ASSOCIATIONS ACTIVITIES** - NIL -
14. **SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED** - NIL -

B3.11 DIVISION/UNIT/CENTER-WISE ACTIVITY HIGHLIGHTS

RESEARCH AND DEVELOPMENT

The education system offers several opportunities to members of faculty to pursue research and involve students at all different levels through specialized projects, in the chosen research area. Research is promoted in the institution through the faculty development scheme and by encouraging faculty members to obtain funding from national and international agencies for sponsored research projects and to provide consultancy services. Presently, there are 5 faculty members and 401 research scholars, pursuing Ph. D. programs in identified thrust areas.

Ph.D. Qualifying Examination

Ph.D. qualifying examination was conducted at Hyderabad campus during the two semesters of 2019. 87 candidates were declared successful in this examination.

There are 10 research projects funded by various National and International funding agencies for about Rs. 1,83,45,343/- Details of approved research projects are enclosed in **Annexure 6** (Part B3).

Central Facilities Report:

The library is very spacious with 45000 sqft area in two floors, fully air-conditioned, with modern and comfortable furniture for the users. Library has a seating capacity of 575 readers. It remains open from 0900 to 2300 hrs. on all working days, except National Holidays. During the weekends and other holidays, the library will work from 0900 to 1700 hrs. During the examination the library is open till 1 am (midnight)

The library is using KOHA Library Management Software for all its housekeeping activities. The library internet site has got the Web OPAC (Web enabled Online Public Access Catalogue). A facility on KOHA Web OPAC includes advance search options for books, journals, theses, CDs etc. The library site has been linked with the institute home page for external access. Students can access the library catalogue and the e-resources from their hostel rooms through LAN.

RFID Technology: The Radio Frequency Identification (RFID) Technology for the books and self check-in / check-out facility is available. The key benefits of RFID Technology are:

- Quick & Efficient Circulation Operations
- Enhanced Security for Library Items
- Seamless Inventory Management
- Emerging Technology Experience for Library users

The library renders standard services like issuing of books; attending to reference queries, providing photocopies, inter library loans, etc. for the faculty and students of the institute. The following are the highlights.

The Library Committee: The Library committee is appointed by the senate comprising faculty representatives from each department. There are 12 members are there in the committee. The committee meets periodically and works very closely with the library in resources selection and co-ordinate the requirements of the department. The Librarian is the chairman of the committee.

Acquisition Section

The Library has a collection of 40021 volumes and 7279 Springer engineering e books. 3520 new volumes were added to the existing collection this year in different disciplines. These include emerging areas like Lean Technology, Leadership, Digital Libraries, Earthquake Engineering, Wireless Communication, Signal Processing, Robotics, Nano-technology, Micro-electromechanical Systems (MEMS), Bio-informatics, Biotechnology, Geographical Information Systems, Network Security, Embedded Systems, Grid Computing, Pervasive Computing, Software Testing and Data Warehousing/ Mining. A good number of fiction, general reading books, and case studies in Management, latest editions of handbooks, encyclopedias, yearbooks and books which are useful for campus placement were also added this year.

E-resources

Access to over 7460 e-journals and other important websites have been provided on the library site. E-journals of the following publishers were made available:

- American Chemical Society
American society of civil Engineers (ASCE)
- American Society of Mechanical Engineers (ASME)
- American Journal of Physics
- IEEE Explore
- Science Direct
- ACM
- SciFinder
- Scopus
- JSTORE
- IOP (Institute of Physics) & E books
- Nature

Journals: Presently the Library subscribes to 74 printed journals/magazines including foreign journals. Useful articles, news, newspaper clippings are displayed on the notice board for the information of the readers. Besides, articles authored by institute faculty are displayed in a prominent place in the library.

Other Services

1. The library continues to keep the readers informed every week through regular display of all the books added to the library. A list of weekly/monthly additions is also made available to readers on the library site and also through e-mail to the entire faculty. Special topical displays are also organized periodically.
2. The library facilitates in the Earn While You Learn Programme of the Institute wherein students assist in the library jobs like book data entry, spine labeling of books, bar-coding of books etc.
3. Organized a Book Festival in association with Book Syndicate, our campus book store in October 2019. During the Book Festival faculty members were encouraged to suggest books for the library.
4. Free wireless internet (WIFI) access is available in the library
5. During the examinations the library working hours has been extended till 1 am (midnight)

Library Statistics

The Library collection is growing steadily. The following table shows some of the significant statistical data:

1	Current library holdings	40021
2	Average number of books issued per day	185
3	Average number of readers visiting the library per day	1515
4	Books added during the year	3520
6	Number of print Journals subscribed	74
7	E journals made available on library site	7460
8	CD-ROM Collection	1340
9	Educational Video/DVD Collection	102
10	Total number of reading seats in the library	575
11	Library membership	5150

WORKSHOP

The Central Workshop provides training to students and caters the maintenance & fabrication needs of the Institute. Through the course "*Workshop Practice*", all first degree students are trained to acquire the necessary skills related to various manufacturing processes like machining, fitting, carpentry, smithy, foundry, sheet metal, electroplating, welding, etc. and two computer oriented exercises, a CNC Simulation software (by CIMCO) and

MASTER CAM, and a Manufacturing Simulation software called FlexSim. Further, students of B.E. (Mechanical Engineering) and B.E. (Manufacturing Engineering) are given in-depth training in various courses such as "Production Techniques – I" and "Production Techniques - II", "Manufacturing Processes" and "Computer Aided Manufacturing". Apart from routine maintenance and training, the workshop also provides fabrication services pertaining to the project works of students and also offers technical support for TBI works.

The workshop comprises of various sections namely *Machine shop, Welding, Electroplating, Fitting, Smithy, Sheet Metal, Carpentry, Foundry and Metrology*. Major equipment include 1 Vertical Machining Center (Bridgeport VMC GX600), 1 EDM Wire cut facility (Model: SPRINT CUT), 1 CNC Lathe (Model PTC- 200), 1 Hydraulic press with computer control (40T), 9 Lathes, 2 Shapers, 1 Radial Drilling Machine, 1 Universal Milling Machine (Batlibai make) with indexing attachment, 1 Cylindrical Grinding Machine with internal grinding attachment, 1 Surface Grinding Machine, 1 Tool and Cutter Grinder, 1 Pedestal Grinder, 1 Slotting Machine, 1 Power Shearing Machine (Vivek Brand), 1 Portable Drilling Machine, 1 Injection Moulding Machine, 1 TIG Welding Machine, 1 MIG Welding Machine, 1 Spot Welding Machine, 1 Universal Milling Machine (BFW make), 1 Shaper (Sagar make), 1 Surface Roughness Tester (Mitutoyo make) and 1 Hydraulic Bulge Test Rig, 1 Electro Chemical Machining (ECM) setup, 1 Lathe Tool Dynamometer, and 1 Rotational Moulding Machine, 1 M TAB CNC Lathe Trainer, 1 3-D Coordinate Measuring Machine (CMM) "Spectra", 1 HMT PRAGA Universal Tool & Cutter Grinding Machine, 1 FRITSCH Vibratory Sieve Shaker, Magnesium metal stir casting Furnace, 1 Milling tool dynamometer, 1 Drilling tool dynamometer, 1 Lathe tool dynamometer, 1 200TON capacity Compression testing machine, Mold Testing Equipment, 1 Open-hearth furnace for smithy, 1 Gas-fired furnace for foundry, 5 Wood-working Lathes, 2 Arc-welding equipments, 1 Oxy-Acetylene gas welding equipment, 1 Gauge planner for wood works, Electroplating equipment (zinc coating), 1 Power Hacksaw and 1 Sand Muller (Capacity-75kg), 2 Panther make lathe machines, 1 HMT make High Speed Precision Machine, two 3D Printers, 1 Plasma arc cutting machine, 3 AC Welding Transformers, 1 Powder mixing unit, 13 Lenovo make desktops, a CNC Simulation software by CIMCO (20 Licenses), and a NC programming software called MASTER CAM (15 Licenses).

COMMUNITY WELFARE UNIT

The community welfare unit (CWU) coordinates the welfare and recreational activities of the faculty and staff members of the institute and also the functioning of medical center. Two female nurses and a certified lab technician has joined the medical center last year. The medical center also now runs on 24 x 7 to attend to patients. A pediatrician, dentist visits once a week and a gynecologist visits twice a week to the medical center.

The community celebrated a week long Ganesh Puja. This year for the first time Durga Puja was also celebrated at BITS Pilani Hyderabad Campus. The celebrations ended with cultural performance from kids and adults in the community in the auditorium. Professionals visit the campus to teach musical instruments, classical dance and classical music. The community also celebrated Janamashtami and children's day, where children participated in different games in the children park for the event.

The community recently expanded the space for Children's Park paly area and new Children's Park was made in front of H5 and H6 buildings. The community also expanded the medical center facilities by providing new diagnostic kits, air conditioners, water dispensers and BSL training programmes for medical doctors. Moreover, gifts were distributed among the house keeping staff on the occasion of Independence Day.



Ganesh Puja at Childrens Park



Ganesh Puja at Childrens Park

B3.12 STUDENTS ACTIVITIES, ACHIEVEMENTS, SCHOLARSHIPS, CULTURAL AND ACADEMIC FESTIVALS**No. of Honours and Awards to Students****Institute & Other Scholarships**

AY	MERIT	MERIT cum NEED	INSPIRE	KVPY	NTSE	PM Scholarship	BSNL	RAILWAY	BITSAA	FIITJEE	OTHERS
2012-13	154	1337	-	-	-	-	-	-	-	-	-
2013-14	159	1247	-	-	-	-	-	-	2	-	-
2014-15	159	1123	-	-	-	-	-	-	2	-	-
2015-16	237	1463	20	1	20	2		2	2	-	16
2016-17	226	1421	33	4	35	5	3	6	2	1	18
2017-18	245	1672	9	1	9	3	2	4	6	3	11
2018-19	276	1911	33	3	49	8	4	4	10	2	19

HONOURS**AWARD:**

S.No	ID Number	Name	Event Participated	Award / Prize Money Received
1	2015A1TS0795H	SPARSH SHARMA	LLB at IIT KGP	top 40 in LLB exam for IIT law school, IIT KGP
2	2015A7TS0143H	Keval Morabia	2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics	INR 20,000
3	2015B5AB0682H	Monark Moolchandani	Megathon, IIIT Hyderabad	2nd Position, 20000 INR
4	2015B5AB0682H	Monark Moolchandani	Marketing Geeks, SJMSOM - IIT Bombay	2nd Position, 10000 INR
5	2015B5AB0682H	Monark Moolchandani	aSPire, SP Jain Institute of Management & Research	1st Position, 25000 INR
6	2015B5AB0682H	Monark Moolchandani	Once upon a startup - E Summit, IIT Hyderabad	2nd Position, 10000 INR
7	2016A3TS0275H	Shrey Rajesh Thakker	MITACS Globalink	Funded Foreign Research Internship
8	2016A4PS0920H	Vidhukiran Venkataraman	NTU India Connect Research Internship program	240 SGD
9	2016A7PS0121H	Ashish Gupta	TopCoder Collegiate Contest 2019	\$150 + Trophy - 2nd among all the College Students in India
10	2016A7TS0810H	Mathangi Sundar	National Science Foundation- Research Experience for Undergraduates	357431
11	2016AAPS0145H	PRIYASH BARYA	MITACS Globalink Summer Research Internship	8000+ CAD
12	2016B1A30947H	Shreyansh Jain	Rice Business Plan Competition	1500 dollars
13	2016B3A70923H	Rahul Midha	Mitacs Globalink Summer research internship	3.5 lakhs
14	2016B4PS0483H	Khalid Riyaz	Google Summer of Code	3000USD
15	2016B4PS0483H	Kothwal Shaikh Khalid Riyaz	Google Summer of Code	3000 USD
16	2016B5A70579H	Vishwangi Shah	MITACS Globalink Research Internship	8000 Canadian Dollars
17	2016PHXF0015H	Vinnakota Sarath Sankar	IIWE 2018 organised by VSSC (ISRO) and IIST Thiruvananthapuram	Abdul Kalam best paper award and cash award of Rs.10000
18	2016PHXF0017H	P Michael Preetam Raj	3rd Research Scholar's Symposium 2018 at BITS	Certificates and Memento

S.No	ID Number	Name	Event Participated	Award / Prize Money Received
			Hyderabad	
19	2016PHXF0017H	P Michael Preetam Raj	Fifth Research Scholar's Symposium 2019	Excellence in Research Award
20	2016PHXF0115H	M Chandrashekher	Global Challenge Research Fellowship Award for Research at Cardiff University	400000
21	2017A3PS0304H	DEEP SHAH	Project High Profile - Edelweiss Wealth Management	Rs. 3500/- + Certificate
22	2017A3PS0539H	Singupuram Venkata Satya Sai Sriram	Arena 2019	Silver medal
23	2017A3TS0374H	Jasvith Raj Basani	Internship at the Center for Quantum Technologies, NTU Singapore	
24	2017A4PS0634H, 2019A4PS0734H, 2017A4PS0619H	Pranjal Shukla, Utkarsh Rastogi, Moola Ajith Reddy	Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility (ADMMS 2019) Conference [SAE International]	Best Technical Paper
25	2017A4PS0824H	Rohan Mamidi	SBI YONO Quiz	12,000/- for 3rd place team , 4000/- per member
26	2017A5PS1173H	Sonakshi Gupta	Summer Internship 2019	BITSAA Hyderabad Chapter - Research Enrichment Abroad Program - Received 1 lakh rupees
27	2017B2AA1727H	Avish Agarwal	Soul 'o 2018 Dance Competition	
28	2017B3A71379H	Siddarth Gopalakrishnan	Lean Six Sigma Training	Green Belt Certificate
29	2017PHXF0007H	SYED MAZHAR	National conference on GEOAPP 2019- IIT-Hyd.	Consolation Prize
30	2017PHXF0025H	GIRDHARI ROY	17th International Symposium on Advance in Technology, Organised by Controlled Release Society- Indian Chapter , Mumabi	2nd Best poster award + International Travel support to attend annual meeting of Controlled release society at Valencia, Spain + Cheque of Rs 7500.00
31	2017PHXF0027H	WASEEM AHMAD WANI	ICMAT 2019, SINGAPORE	Abstracts selected/oral and poster
32	2017PHXF0404H	SAMRUN NESSA	ICHTR 2018	1st prize/ Rs.3000
33	2017PHXF0421H	Pravesh sharma	ERA-EDTA 56th congress, budapest,hungary	600 euro(oral presentation,young author award)
34	2018A2PS0883H	Divyank Sharma	online course at coding	Certificates
35	2018A4PS0025H	Priyanshu Misra	Modelling and Simulation using Solidworks	Third Position
36	2018A4PS1047H	Meghana CPS	Confluence Model United Nations	Rs-1600
37	2018AAPS0504H	Ankam Hari Teja	Ethical Hacking Workshop, Atmos 2018	Received certificate of participation
38	2018B4A10861H	DEBADARSHEE DAS MOHAPATRA	Summer Research Internship at the University of British Columbia	
39	2018B4A40318H	Writabrat Sharma	Internship at Mouny (Camping and Travelling based Startup)	Secured Internship as a Campuspreneur
40	2018B4PS0795H	Viral Tiwari	BOSM	BRONZE Medal (3rd Position)
41	2018B4PS0795H	Viral Tiwari	Arena	GOLD Medal (1st Position) (Squash)
42	2018H1240075H	DEEPESH CHANDWANI	IEEE GCAT 2019 CONFERENCE	
43	2018H1460232H	Yashada Kumbhar	WIPO e- learning	Certificate of Participation
44	2018PHXP0439H	Jaya Sarkar	Alliance Management Studies International Conference 2019	Rs.3000 for Best Paper Award in the category of Business Communication & Gender Studies
45	2017A1PS1357H	Shubham Jain	Marketing Geeks - IIT Bombay	Runner Up Position

Details of extension services/activities, societal engagements, continuing education programmes, sports and games, cultural activities etc. undertaken by the Institution.

As part of Institutional Social Responsibility, the Institute has been taking part in the following activities under the aegis of NSS & Nirmaan. Summary of such activities in the year 2018-19 is as follows:

National Service Scheme (NSS): NSS BITS Pilani Hyderabad Campus has 340 dedicated volunteers with the common motto of 'Not me But You'. Dr. N Kishore Kumar is the Programme Coordinator.

Last year we started Computer Literacy Program (CLP) in which everyday volunteers from our campus visit Thumkunta High School and teaches Computer Basic, MS Word and Excel for students to match with the pace of modern era. We celebrated Independence day by organising a Sports Day in the same school with great spirit. We organised mass collection drive for Kerala Flood relief and donated several things. 150 plants were planted at 5 nearby location in the Tree Adoption Programme. On the occasion of Gandhi Jayanti we visited nearby govt hospital and cleaned the premises as a part of Swachh Bharat Abhiyaan. Throughout the year we ran Beat Plastic Program and were successfully able to eradicate use of plastic in food outlets and campus premises. Anemia screening session and Blood Donation Camp were also held. Self defense workshop for girls was held. We celebrated the spirit of diwali and holi in an ecofriendly manner. To respect and celebrate the Heritage of India we conducted 2 sessions of SPIC MACAY event which featured Carnatic Sangeeth and Bharatanatyam. We started a new initiative share you birthday where students from our campus can celebrate their birthday with orphanages. In the end we conducted Collection drive for Odisha Cyclone relief and sent the donations to Goonj foundation. We also collected paper waste and donated to Wellbeing Out of Waste foundation.

Three units of National Service Scheme are functional in BITS-Pilani, Hyderabad Campus (BPHC). Currently there are 290 volunteers consisting of 170 male and 120 female students. The Chairman of NSS team is the Director, Prof. G Sundar and Dr. N Kishore Kumar served as the Programme Coordinator.

- NSS BPHC has adopted the government school at Thumkunta. It teaches their academics for both English medium and Telugu medium students. In addition to this NSS volunteers are teaching English & personality development for classes 8th and 9th students. The units conduct a continuous year round teach-and-inspire program in the school. This semester we even introduced CLP programme (Computer Learning programme) through which student were exposed to the digital education. In addition to this a series of programmes have been held to keep the students engaged in socially useful work.
- “Swachh Bharat Abhiyan”, to inculcate cleanliness among students. NSS has conducted Campus cleaning drive. In which all the volunteers helped to clean some parts of campus.
- On the International Day of Tolerance (16th November 2017) a group meditation session was conducted.
- On 14th November 2017, fruits were distributed to less fortunate children on the occasion of Children’s Day. In order to involve more students in engaging with social and environmental issues.
- NSS bi-annual Blood donation drive was conducted with over 200 units of blood donated by student, faculty members and other staff of BITS Pilani Hyderabad campus. As part of this event NSS has collaborated with Lions Club India who helped us a lot in organizing this grand event.
- As a part of NSS DAY celebrations went to 'Home for Disabled'. We had movie screening, Followed, donations distributions to all the physically challenged people over there. It was a day well spent with amazing enthusiasm of volunteers and the satisfaction of work we did.
- As part of Independence Day celebrations A street play promoting sanitation and clean living was performed at Thumkunta High school by NSS volunteers and well received. Also many games etc. were conducted to the students of ZP and MP schools of Thumkunta village and the winners were awarded prizes.

NIRMAAN ORGANISATION:

NIRMAAN is a constructive citizen movement for an empowered India, thereby making the world a better place to live in. Nirmaan organization believes in creating sustainable self-reliant individuals and thereby villages, for a better future. Nirmaan, BITS Hyderabad chapter undertakes three verticals namely Educational Initiatives, Livelihood Opportunities and Community Development Initiatives. Under the Educational initiatives, Project Parishkar and School Adoption Program (SAP) were taken up to provide academic support in the form of tuitions to the underprivileged children. Nirmaan Organization has also held the Joy of Giving Week (Daan Utsav) in the campus, a one of its kind week-long festival of giving- money, time, resources and skills. Events like Joy of serving, School painting, The message of Joy were organized. These events in Daan Utsav saw huge participation and enthusiasm from the students of the campus.

Nirmaan has organized an annual social festival named ‘Ignite’ aimed at fulfilling the childhood of orphan kids. Around 300 kids from 15 different orphanages were accommodated on the campus. The fest was planned for 3 days including various workshops, activities and programs for the children comprising of various age groups.

Along with these initiatives, Nirmaan took ONE RUPEE PER DAY SCHEME forward and involved all members of the campus community. The One Rupee per day scheme was successful in gathering around 240 students and the members of faculty and staff on the campus to become part of its activities.

NIRMAAN also organizes a Donation Drive every year. While the Graduands leave the campus they take many memories and also make a mark of the same. With marks and memories all the things which the Graduands wishes to donate will be collected at the end of every academic year and would be distributed to different orphanages in the coming academic year.

Ignite'18:

Ignite, the annual social festival of Nirmaan Organization, BITS Hyderabad Chapter, aimed at fulfilling the childhood of underprivileged and orphaned kids reached out 600 kids from different orphan homes in and around Hyderabad and were educated and entertained.

Annual Day Celebrations in SAP's:

Aiming to reduce the gap between corporate and government schools, Nirmaan organized annual day/school day celebrations in the government schools in and around Thumkunta.

One Rupee per Day:

The one rupee per day scheme took a step towards involving people of the campus in social activities. There were a number of people in the campus, who are willing to participate in such activities, but unaware of the way to achieve them. The One Rupee per day scheme was successful in gathering around 200 students and a number of faculty and staff on the campus to become part of its activities.

Donation Drive:

While we leave the campus we take many memories and also make a mark of us. With marks and memories all the things which the outgoing students wished to donate were collected at the end of the year and will be distributed to different orphanages in the coming year.

PEARL 2019

Pearl'19, the national annual cultural fest of BITS Pilani Hyderabad was held from March 22-24. Along with a variety of cultural events and competitions, the fest hosted celebrities Vicky Kaushal and Vishal-Shekhar. BITS Embryo in collaboration with various clubs hosted a political commentator and policy analyst Sanjay Baru. We also had Auditya Venkatesh and Photriya Venky, two of the best and most visionary photographers out there who shared their experiences with photog enthusiasts. Adding to the list, standup comics Vipul Goyal and Nishant Suri entertained the audience with their humor while world-renowned DJs Mashd N Kutcher performed live for the crowd.

ARENA 2019

ARENA, the annual sports festival of BITS-Pilani Hyderabad campus was formally inaugurated on 23 January, 2019 by the chief guest, Mr. Chaitanya Vellhal, the Guest of Honour Mr. Mahantesh G K. Director Prof. G Sundar, presided over the function and welcomed them onto the stage, along with Prof. Sandeep S Deshmukh, Associate Dean, Student Welfare Division. The President, the general secretary and the sports secretaries of the student union, as well as the team captains and the fest organizing body, graced the stage with their presence.

The chief guest, Mr. Chaitanya Vellhal, shared with us, insights on his life and journey. Holding the record for being the Fastest Indian Ultracyclist, Mr. Chaitanya is a certified nutritionist and personal trainer. He is a 3 times Deccan Cliffhanger winner and an Official Ironman Coach with a coaching experience of over 8 years. He has a Master Degree in Life Sciences from Australia and has also worked for 3 years as a research scientist and an assistant professor at the Agriculture College of Pune. Listening to him was truly a delightful and motivating experience.

Our guest of honor, Mr. Mahantesh G K, the President for the Cricket Association for the Blind in India, also delivered an inspiring account of his life. As an infant, he had a virulent attack of typhoid which led him to lose his vision. He joined in as a resident student at Sri Ramana Maharishi School for the Blind in Bangalore, at the age of 10. From then on, there was no looking back. He did his MA and M.Phil in English literature from the University of Bangalore and taught English at the law College in the city of Bangalore for three years. Tired of the humdrum routine, he decided to give in to his inner urge of wanting to do something for the visually challenged. He is the Founder Managing Trustee at Samarthanam Trust for the Disabled, Bangalore. Listening to his story about overcoming obstacles and making the world a better place, inspired us to do the same.

We were privileged to have them and shall remember their inspiring words.

ATMOS 2019

The annual technical fest of BITS Pilani Hyderabad Campus, ATMoS took place from the 18th to the 20th of October.

The eighth edition of the fest saw participation from all over the nation owing to its wide variety of workshops, events, and pro-shows. ATMoS offered 3 days of immense challenge, innovation and competition, and 3 nights of absolute fun and entertainment.

The three-day technical extravaganza saw talks by eminent personalities such as the former RBI Governor and retired IAS officer, Dr. Y. Venugopal Reddy, the CEO of Flipkart, Mr. Kalyan Krishnamurthy, ex-CBI Joint Director V. V. Lakshmi Narayana, and Padma Shri awardee Dr. Jitendra Nath Goswami.

The headliner events such as Robo-Wars, Mini-GP, Enigma and Wall Street Business Challenge saw attendees participating in throngs. The comedy night featuring Rahul Dua and Azeem Banatwalla sent the audience into peals of laughter, and the Anand Bhaskar Collective and DJ Bonka had the crowds grooving to their music.

The campus was bustling with energy and life as it was one of the highest footfalls obtained, making this one of the most successful editions of ATMoS.

B3.13 MAJOR MAINTENANCE, RENOVATIONS OR NEW CONSTRUCTION REPORTS

1. New Construction:

SI No	Description of Activity
1	Construction of 2 wheeler parking shed at F type quarters
2	Construction of covered DG shed room for new DG unit
3	Development of New Lab facility at B 310 for Biology Department
4	False ceiling work for Physics department Phd Scholars room
5	Construction of Waste management shed
5	Providing RO water of 250 litre / hour capacity RO plant and SS pipe line work at Gautham Bhavan
6	Providing Upvc pipe line for STP treated water supply lines for flushing purpose in Hostels
7	Construction of Security chambers at Main gate
8	Construction of Rain water recharge pit
9	Providing additional speed brakers inside the campus
10	Providing Work stations for IT department
11	New cable trench for routing electrical cables in Central work shop
12	Providing Cycle stands at Hostels
13	Providing storage units to Biology department
14	Modification of toilets in Hostels with new sanitary fixtures
15	Providing MS canopy at basements in Hostels
16	Installation of 947 KWP Solar power for the Campus.
17	Installation of 11 KV RMU at 33 KV substation for dual power sources
18	Provision of 500 KVA DG set back up for the Staff Quarters
19	Provision of 500 KVA DG set back up for hostels
20	Modification of Central AC ODU's/IDU's with new Tosibha units at C & E Blocks.
21	Provision of inhouse Diwali LED Serial sets for NAB blocks
22	Provision of Electrical Cable trench and control wiring,LED lights for workshop
23	Installation of Mess-2 Kitchen fire suppression system
24	Commissioning of Mess-1 Kitchen Fire Suppression System
25	Provision of LED,Electrical modifications for New Security Cabins

2. Renovation and Maintenance

SI No	Description of Activity
1	Relocation works in Autoclaving laboratory for Biology department
2	Beautification works in hostels
3	Water proofing works in Hostels in rest areas
4	Hostel room painting works in Ram,Shankar,Malaviya & Krishna bhavan hostels
5	Providing blinds for windows in Academic block
6	Modification works for Civil engineering department discussion room
7	Modification works of plumbing lines in Chemistry laboratory
8	Repairs and rerouting of sewer drain lines near from Meeera bhavan

SI No	Description of Activity
9	Providing mahole chambers along the road for collection of storm water
10	MS grill doors at terrace of hostels
11	Repairs to bath room ventilators in Hostels
12	Painting works at main gate entrance and at Stage in Library QT area
13	No Parking signage painting at cellars of A & E block
14	Providing SS hooks in hostel rooms
15	Repairs to Structural glazing at Auditorium and placement unit elevation panels
16	Water proofing works in rest rooms of D & E block and in Hostels
17	Enhancement of Electrical MD from 1501 to 2500 KVA
18	Provision of LED lights at Hostel Rooms
19	Provision of LED lights at LTC classrooms, Academic corridors and Washrooms
20	Provision of LED lights for SAC additional GYM
21	Overhauling & Servicing of standby 5 MVA Transformer
22	Electrical modifications for Biology Labs B 307,308,309,310.
23	Electrical modifications for Civil Discussion room Civil Lab
24	Transformers Oil filtration & testing and earth pits meggering
25	HT & LT electrical breakers servicing and overhauling for optimum operation.
26	Provision of LED lights at Connaught place corridor.
27	Provision of Pesto flashes and LED lights at Medical Centre.
28	Replacement of damaged ceiling fans rods, nut & bolts at Mess1 & 2 Dining hall.

B3.14 MAJOR EQUIPMENT'S ACQUIRED DURING THE YEAR:

During 2019 a lot of new equipment has been added to support academics, research and development. Details as per **Annexure 7** (Part B3).

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ADMINISTRATIVE BODIES

The names and designations of Senior Officers

Director		
1.	Prof. G Sundar	Director
Dean(s)		
1.	Prof. Niranjan Swain	Dean, Administration
2.	Prof. Suman Kapur	Dean, International Programmes and Collaborations Division (University-wide)
3.	Prof. Souri Banerjee	Dean, Faculty Affairs Division (University-wide)
Associate Dean(s)		
1.	Prof. Vidya Rajesh	Faculty Affairs
2.	Prof. Anupam Bhattacharya	Sponsored Research and Consultancy
3.	Prof. Bivudatta Mishra	International Programmes and Collaboration
4.	Prof. Sankar Ganesh	Practice School
5.	Prof. Punna Rao	Work Integrated Learning Programmes
6.	Prof. Sandip Shridharrao Deshmukh	Student Welfare
7.	Prof. Meenakshi Viswanathan	Alumni Relations
8.	Prof. A Vasan	Academic – Undergraduate Studies
9.	Prof. Venkata Vamsi Krishna Venuganti	Academic – Graduate Studies and Research
Head of Departments		
1.	Chemical Engineering	Prof. Srikanta Dinda
2.	Civil Engineering	Prof. Sridhar Raju
3.	EEE	Prof. Sanket Goel
4.	Mechanical Engineering	Prof. Amit Kumar Gupta
5.	Pharmacy	Prof. Sajeli Begum
6.	C S & I S	Prof. Tathagata Ray
7.	Biological Sciences	Prof. Naga Mohan Kommu
8.	Chemistry	Prof. Manab Chakravarty
9.	Humanities & Social Sciences	Dr. Biswanath Dash
10.	Economics & Finance	Dr. Sudatta Banerjee
11.	Mathematics	Prof. Dipak Kumar Satpathi
12.	Physics	Prof. P K Thiruvikraman

Faculty-in-Charges		
1.	Computer Centre	Prof. R Gururaj
2.	Centralized Purchase	Prof. Ramesh Babu Adusumalli
3.	Centre for Innovation, Incubation and Entrepreneurship (CIIE)	Prof. Aruna Malapati
4.	Placement	Prof. Alivelu Manga Parimi & Dr. Parameshwaran R
5.	Community Welfare	Prof. Arti Dhar
6.	Teaching Learning Centre (TLC)	Dr. Rahul Nigam
7.	Admissions	Prof. Amit Nag
8.	Time Table/Exams	Prof. Pradyumn Kumar Sahoo
Other In-charges		
1.	Central Analytical Laboratory	Prof. Ramakrishnan Ganesan
2.	Central Computing Laboratory	Dr. Vikranth Kumar Surasani
3.	Publications & Media Relations	Dr. Maya Vinai
4.	Workshop	Prof. N. Suresh Kumar Reddy
5.	Student Activity Center	Dr. Raja Varma Murari
6.	Website	Prof. G Geethakumari
7.	SPICMACAY (Society for the Promotion of Indian Classical Music and Culture amongst Youth)	Dr. N Kishore Kumar
Professor(s) In-Charge:		
1.	Prof. Chittaranjan Hota	BITS Entrance Examinations
2.	Prof. P Yogeeswari	Centre for Innovation, Incubation & Entrepreneurship
Coordinators		
1.	Dr. N Kishore Kumar	National Service Scheme
2.	Prof. K Srinivasa Raju	Centre of Excellence in Water Resources Management
Hostel Resident Wardens		
1.	Dr. Phaneendra Kiran C	Chief Warden & Warden : Valmiki Bhawan
2.	Dr. Arkamitra Kar	Gautam Bhawan
3.	Dr. Jagan Mohan Jonnalagadda	Krishna Bhawan
4.	Dr. D Purnima	Malaviya Bhawan
5.	Dr. Bahurudeen A	Buddh Bhawan
6.	Dr. Syed Ershad Ahmed	Ram Bhawan
7.	Dr. Sounak Roy	Vyas Bhawan
8.	Dr. Swati Biswas	Meera Bhawan
9.	Dr. Sabareesh Geetha Rajasekharan	Gandhi Bhawan
10.	Prof. Onkar P Kulkarni	Shankar Bhawan
11.	Dr. Thota Nagaraju	Vishwakarma Bhawan

12.	Dr. Mohan S C	Vishwakarma Bhawan
13.	Dr. Santosh Kumar Mahapatra	Married Research Scholar Tower (H-7)
Hostel Non-Resident Wardens		
1.	Dr. Subhrakanta Panda	Vyas Bhawan
2.	Dr. Mithun Mondal	Gandhi Bhawan
3.	Dr. Vivek Sharma	Shankar Bhawan
4.	Dr. Pranesh Bhargava	Buddh Bhawan
5.	Dr. Satish Kumar Dubey	Ram Bhawan
6.	Dr. Prasanth Kumar Samanta Ray	Gautam Bhawan
7.	Dr. Manish Kumar	Krishna Bhawan
8.	Dr. Nitin Kotkunde	Valmiki Bhawan
9.	Dr. T S L Radhika	Meera Bhawan
10.	Dr. Aivelu Manga Parimi	Malaviya Bhawan
11.	Dr. Piyush Khandelia	Vishwakarma Bhawan 1
12.	Dr. Lov Kumar	Vishwakarma Bhawan 2
Hostel Superintendent		
1.	Mr. Haridas	Krishna Bhawan & Ram Bhawan
Asst. Hostel Superintendents		
1.	Mr. Santosh R	Valmiki Bhawan & H7
2.	Mr. Khaja Mohinuddin	Gandhi, Shanker & Buddh Bhawan
3.	Mr. U. Devi Prasad	Valmiki, Gautam & Vyas Bhawan
4.	Ms. M Anitha	Malaviya Bhawan
5.	Ms. Vijitha L (Office Assistant)	Meera Bhawan

'Annexure B3-2'
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DETAILS OF ADMISSIONS MADE DURING THE YEAR 2019

(A) Integrated First Degree Programmes

First degree – 2018-19	Total	Male	Female
B.E.: Chemical (A1)	55	44	11
B.E.: Civil (A2)	59	51	8
B.E.: Electrical and Electronics (A3)	106	91	15
B.E.: Mechanical (A4)	153	136	17
B. Pharm. (A5)	50	18	32
B.E.: Computer Science (A7)	185	167	18
B.E.: Electronics & Instrumentation (A8)	73	55	18
B.E.: Electronics and Communications (AA)	120	106	14
M.Sc.: Biological Sciences (B1)	41	26	15
M.Sc.: Chemistry (B2)	51	44	7
M.Sc.: Economics (B3)	88	73	15
M.Sc.: Mathematics (B4)	72	57	15
M.Sc.: Physics (B5)	69	56	13
Totals	1122	924	198
This list includes; 40 International Students, 1 Board Topper (A7 - 1) & 4 Staff Children (B2-1, B3-1, B4-1 & B5-1)			

(B) Higher Degree Programmes:

Higher Degree Programmes - 2018-19	Total	Male	Female
M.E Biotechnology	13	3	10
M.E Chemical	8	4	4
M.E Civil with specialization in Structural Engineering	27	13	14
M.E Civil with specialization in Transportation Engineering	12	7	5
M.E Communication Engineering	24	14	10
M.E Computer Science	40	31	9
M.E Design Engineering	26	23	3
M.E Embedded Systems	26	20	6
M.E Mechanical	25	23	2
M.E Mechanical with specialization in Thermal Engineering	19	19	0
M.E. Microelectronics	29	24	5
M.Pharm with specialization in Pharmaceuticals	26	5	21
Totals	275	186	89

(C) Higher Degree (3 Year Integrated) Programme:

	Total	Male	Female
M.E. in Computer Science (with specialization in Information Security)	0	0	0

(D) Ph.D. Programmes:

Ph.D. Admissions: II Semester - 2018-19	Full Time			Part Time			Aspirants		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Biological Sciences	6	1	5	0	0	0	0	0	0
Chemical Engg.	0	0	0	1	0	1	0	0	0
Chemistry	6	1	5	2	2	0	0	0	0
Civil	4	3	1	0	0	0	0	0	0
Computer Science	3	1	2	0	0	0	0	0	0
EEE	11	6	5	1	1	0	0	0	0
Humanities & S Sci.	5	2	3	0	0	0	0	0	0
Eco., & Fin, Mgmt	1	0	1	2	2	0	0	0	0
Mathematics	4	4	0	0	0	0	0	0	0
Mechanical	9	8	1	3	3	0	0	0	0
Pharmacy	3	1	2	0	0	0	0	0	0
Physics	4	4	0	1	1	0	0	0	0
Totals	56	31	25	10	9	1	0	0	0

Ph.D. Admissions: I Semester 2019-20	Full Time			Part Time			Faculty Input			Aspirants		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Biological Sciences	10	4	6	2	2	0	0	0	0	0	0	0
Chemical Engg.	3	3	0	1	0	1	0	0	0	0	0	0
Chemistry	5	2	3	2	1	1	0	0	0	0	0	0
Civil	2	1	1	0	0	0	0	0	0	0	0	0
Computer Science	7	1	6	0	0	0	0	0	0	0	0	0
EEE	5	4	1	4	3	1	0	0	0	0	0	0
Humanities & S Sci.	3	0	3	2	1	1	0	0	0	0	0	0
Eco., & Fin, Mgmt	2	2	0	2	2	0	0	0	0	1	1	0
Mathematics	6	1	5	0	0	0	0	0	0	0	0	0
Mechanical	5	5	0	2	2	0	0	0	0	0	0	0
Pharmacy	4	3	1	1	1	0	0	0	0	0	0	0
Physics	4	1	3	0	0	0	0	0	0	0	0	0
Totals	56	27	29	16	12	4	0	0	0	1	1	0

DUAL DEGREES:

During the Year 2019, a total no of 284 students (out of 284 offers: Priority 1 – 284, Other Priorities - 0) were permitted to pursue concurrently two first degrees under the Dual Degree scheme as per details given below.

Dual Degree - First Priority										
	A1	A2	A3	A4	A5	A7	A8	AA	AB	Total
B1	5	6	3	9	-	7	2	7	-	39
B2	8	4	7	10	-	5	3	8	-	45
B3	3	5	8	12	-	24	9	14	-	75
B4	5	7	14	13	-	14	6	14	-	73
B5	1	3	8	13	-	20	2	5	-	52
Total	22	25	40	57	-	70	22	48	-	284

Dual Degree - Other Priorities															
	A1	A2	A3	A4	A5	A7	A8	AA	AB	B1	B2	B3	B4	B5	Total
A1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
A2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
A3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
A4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
A5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
A7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
A8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
AA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
AB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
B1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
B2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
B3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
B4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
B5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TRANSFERS:

During the Year 2019, a total no of 21 students (13 A-A transfers + 8 B-B transfers) were permitted to transfer from the initial allotment of First Degree programme to the other programmes of First Degree to pursue under the Transfers scheme as per details given below.

Transfers										
	A1	A2	A3	A4	A5	A7	A8	AA	AB	Total
A1	-	-	2	-	-	-	-	1	-	3
A2	-	-	1	-	-	1	-	-	-	2
A3	-	-	-	-	-	1	-	1	-	2
A4	-	-	1	-	-	1	-	-	-	2
A5	-	-	-	-	-	-	-	-	-	0
A7	-	-	-	-	-	-	-	-	-	0
A8	-	-	1	-	-	1	-	1	-	3
AA	-	-	-	-	-	1	-	-	-	1
AB	-	-	-	-	-	-	-	-	-	0
B1	-	-	-	-	-	-	-	-	-	0
B2	-	-	-	-	-	-	-	-	-	0
B3	-	-	-	-	-	-	-	-	-	0
B4	-	-	-	-	-	-	-	-	-	0
B5	-	-	-	-	-	-	-	-	-	0
Total	0	0	5	0	0	5	0	3	0	13

B-B Transfers						
	B1	B2	B3	B4	B5	Total
B1	-	-	-	1	1	2
B2	-	-	-	3	-	3
B3	-	-	-	-	-	0
B4	-	-	1	-	-	1
B5	-	-	2	-	-	2
Total	0	0	3	4	1	8

VERTICAL TRANSFERS:

During the year 2019, Three students were permitted to transfer from Higher Degree to Ph.D. Programme and One student was permitted to transfer from First Degree to Higher Degree at Hyderabad Campus.

Annexure B3-3'
(1 Page)
Ref. AR 2019, Page No. B3-2

LIST OF NEW COURSES INTRODUCED THE YEAR 2019

Second Semester 2018-2019		
SI.No.	COURSE NO.	COURSE NAME
1	CE F321	Engineering Hydrology
2	EEE F426	Fibre Optics & Optoelect
3	EEE F477	Modeling Of Field-Effect Nano Devices
4	ME F482	Combustion
5	HSS F363	Disaster And Development
6	PHA G546	Pharmaceutical Bio Statistics
7	PHY F379	Thin Film Technology
First Semester 2019-2020		
SI.No.	COURSE NO.	Course Name
1	BITS F319	Negotiation Skills And Techniques
2	EEE G546	Systems Simulation Lab
3	GS F213	Development Theories
4	HSS F243	Introduction To Critical Pedagogy
5	HSS F325	Cinematic Adaptation
6	HSS F362	Local Governance And Participation
7	HSS F399	Introduction To American Literature
8	ME F424	Energy Management
9	ME F425	Additive Manufacturing
10	PHY F418	Lasers And Applications
11	SS G515	Data Warehousing
12	PHA G547	Quali-By-Design In Pharmaceutical Prod Devel

'Annexure B3-4'
(3 Pages)
Ref. AR 2019, Page No. B3-2

ACADEMIC REGISTRATION AND COUNSELLING DURING THE YEAR 2019)

SECOND SEMESTER 2018 - 2019

DISCIPLINE	2012	2013	2014	2015	2016	2017	2018	Total
A1 - B.E. (Hons.) Chemical		1	1	50	42	65	57	216
A2 - B.E. (Hons) Civil			3	45	47	56	62	213
A3 - B.E. (Hons.) Electrical & Electronics				68	71	99	104	342
A4 - B.E. (Hons.) Mechanical			1	70	57	113	144	385
A5 - B. Pharm (Hons.)				21	17	29	49	116
A7 - B.E. (Hons.) Computer Science			2	144	124	225	185	680
A8 - B.E. (Hons.) Electronics & Instrumentation			2	32	38	53	58	183
AA - B.E. (Hons.) Electronics & Communication		1	3	79	79	111	120	393
AB - B.E. (Hons.) Manufacturing			1	30	24	34		89
B1 - M.Sc. (Hons.) Biology	1		23	21	22	21	40	128
B2 - M.Sc. (Hons.) Chemistry		1	28	25	22	40	45	161
B3 - M.Sc. (Hons.) Economics		2	53	36	38	83	79	291
B4 - M.Sc. (Hons.) Mathematics		1	38	35	33	70	75	252
B5 - M.Sc. (Hons.) Physics			30	29	30	57	54	200
Total	1	6	185	685	644	1056	1072	3649

DISCIPLINE	2009	2011	2012	2013	2014	2015	2016	2017	2018	Grand Total
PhD	1	6	11	36	14	32	63	80	104	347
H 101 - M.E. (Chemical Engg.)								8	7	15
H 103 - M.E. (Computer Science)								18	31	49
H 106 - M.E. (Mechanical)								13	21	34
H 123 - M.E. (Microelectronics)								12	27	39
H 124 - M.E. (Commun. Engg.)								12	19	31
H 129 - M.E. (Biotechnology)								16	20	36
H 130 - M.E. (Transportation)								7	14	21
H 141 - M.E. (Design)								14	23	37
H 143 - M.E. (Structural)				1				11	22	34
H 146 - M.Pharm (Pharmaceutics)								18	21	39
H 148 - M.E. (Thermal)								9	19	28
H 313 - M.E. (Info. Security)							10			10
Sub-total (HD)				1			10	138	224	373
Total	1	6	11	37	14	32	73	218	328	720

SUMMER TERM 2018 – 2019

DISCIPLINE	2013	2014	2015	2016		2017		2018	Total
		On Campus	On Campus	On Campus	In PS I	On Campus	In PS I		
Research Scholars	2	1		3					6
FIRST DEGREE									
A1 - BE (Hons.) Chemical			1	5			65		
A2 - BE (Hons.) Civil				5			54	1	
A3 - BE (Hons.) EEE				4			97		
A4 - BE (Hons.) Mechanical			1	1	1		113	2	
A5 - B. Pharm (Hons.)					1		27		
A7 - BE (Hons.) Computer Science				5			223	2	
A8 - BE (Hons.) Electronics & Instrumentation				4			53		
AA - BE (Hons.) ECE			1	4	1	1	110	1	
AB - BE (Hons.) Manufacturing				1			34		
B1 - M.Sc. (Hons.) Biology			1	13	1		21		
B2 - M.Sc. (Hons.) Chemistry				9			40	1	
B3 - M.Sc. (Hons.) Economics				16			83		
B4 - M.Sc. (Hons.) Mathematics		1	1	11			70		
B5 - M.Sc. (Hons.) Physics				12			53		
GRAND TOTAL		1	5	90	4	1	1043	7	1151

First Semester 2019 – 2020

DISCIPLINE	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
Research Scholars	5	9	27	8	28	65	82	103	68	395
A1 - B.E. (Hons.) Chemical					1	42	65	54	55	217
A2 - B.E. (Hons.) Civil				1	2	48	57	60	58	226
A3 - B.E. (Hons.) Electrical & Electronics					1	70	98	106	103	378
A4 - B.E. (Hons.) Mechanical						57	113	141	146	457
A5 - B. Pharm (Hons.)					1	17	29	48	44	139
A7 - B.E. (Hons.) Computer Science					3	124	225	189	181	722
A8 - B.E. (Hons.) Electronics & Instrumentation					2	38	53	55	72	220
AA - B.E. (Hons.) Electronics & Communication				1	5	78	111	120	116	431
AB - B.E. (Hons.) Manufacturing				1	2	24	34			61
B1 - M.Sc. (Hons.) Biology		1			20	22	21	38	41	143
B2 - M.Sc. (Hons.) Chemistry				1	24	22	40	41	51	179
B3 - M.Sc. (Hons.) Economics				4	34	38	83	82	87	328
B4 - M.Sc. (Hons.) Mathematics				3	32	33	70	77	71	286
B5 - M.Sc. (Hons.) Physics				2	27	30	58	53	68	238
				13	154	643	1057	1064	1093	4025

DISCIPLINE	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
H 101 - M.E. (Chemical Engineering)								7	7	14
H 103 - M.E. (Computer Science)								31	40	71
H 106 - M.E. (Mechanical)								21	25	46
H 123 - M.E. (Microelectronics)								27	29	56
H 124 - M.E. (Communication Engineering)								19	23	42
H 129 - M.E. (Biotechnology)								20	13	33
H 130 - M.E. (Transportation)								14	12	26
H 140 - M.E. (Embedded Systems)									26	26
H 141 - M.E. (Design)								23	26	49
H 143 - M.E. (Structural)								22	27	49
H 146 - M.Pharm (Pharmaceutics)					1			21	25	47
H 148 - M.E. (Thermal)								19	19	38
Sub-total (HD)					1			224	272	497
Total	5	9	27	8	29	65	82	327	340	892

Annexure B3-5'
(5 Pages)
Ref. AR 2019, Page No. B3-3

LIST OF ORGANIZATIONS WHICH CONDUCTED CAMPUS INTERVIEWS JAN-DEC 2019

Serial No	Name of Company	Total no. of Offers Made	CTC in INR	No. of Interviews
1	Accolite	2	10,00,000	48
2	Acko General insurance	1	23,00,000	1
3	Aditya Birla Management Group	2	8,00,000	2
4	Adobe	4	20,35,847	14
5	Aeques	1	5,50,000	6
6	Aizant	2	4,00,000	4
7	Alfa Laval	3	4,50,000	25
8	Amara Raja	1	9,00,000	27
9	Amazon	11	28,50,000	117
10	American Express	3	17,38,912	3
11	Apple	4	22,91,200	165
12	Arescium	4	32,50,000	125
13	ARM	3	9,00,000	10
14	Arup	2	7,00,000	16
15	Arvee Associates	1	4,20,000	5
16	Ashoka Buildcon	4	5,00,000	20
17	Atlassian	3	23,82,600	65
18	Aurobindo Pharma	1	2,80,000	1
19	Axxela Advisory Services	1	11,00,000	76
20	Belong Technologies	2	8,00,000	2
21	Bizacuity	1	6,50,014	1
22	BloomchemAG	3	5,60,000	12
23	Blue Jeans Network	1	13,42,000	1
24	Bristol-Myers Squibb(Biocon)	1	3,70,000	2
25	BSCPL Infra	1	6,70,000	17
26	Byju's	10	8,00,000	38
27	Capgemini	17	6,80,000	99
28	Certara	2	4,48,000	5
29	CGI	16	7,11,836	21
30	Cipla	2	4,00,000	7
31	Cisco	6	13,68,000	8
32	Codenation	1	25,00,000	86
33	Cogneau	2	6,00,000	30
34	Cognizant	0	5,90,004	11
35	Cohesity	2	31,66,000	2
36	Collins Aerospace	1	6,75,000	1
37	Commscope	3	4,23,500	23
38	Crane CPE	0	5,16,532	37
39	Credit Suisse	7	11,00,000	7
40	Credo Life Sciences	4	4,25,000	8
41	Crowdchat	2	12,00,000	46
42	Cyient	6	5,00,000	24
43	Cypress	2	15,99,098	83
44	Dar Group	2	4,20,000	2
45	DataM Intelligence	1	4,50,000	1
46	Delhivery	2	8,00,000	47
47	Dell	1	10,75,000	8
48	Deloitte	16	11,90,000	101

Serial No	Name of Company	Total no. of Offers Made	CTC in INR	No. of Interviews
49	DEP India	1	3,50,000	5
50	Deutsche Bank	12	12,04,040	124
51	Direct I	1	29,00,000	1
52	Egovernments Foundation	1	5,00,000	1
53	Elucidata	1	9,00,000	1
54	Endurance	1	14,00,000	65
55	Epsilon	9	10,00,000	66
56	EXL Services	4	6,00,000	48
57	Exxon Mobil	2	9,37,000	59
58	Fanatics	3	18,00,000	104
59	Fidelity Investments	1	14,00,000	1
60	Fiorano	2	9,00,000	55
61	Flipkart	16	13,40,000	305
62	Flow Traders (Singapore)	0	45,00,000	100
63	Forbes Marshall	2	7,20,000	15
64	Fresh works	1	5,75,901	1
65	Futures First	4	12,40,000	234
66	Garrett	1	11,00,000	1
67	GE India	3	15,11,088	86
68	Genpact	1	6,98,000	1
69	Geny Medium	2	4,50,000	27
70	GEP	1	11,00,000	38
71	GGK Technologies	2	9,00,000	2
72	Goldman Sachs	7	31,50,000	160
73	Goodera	8	16,00,000	230
74	Goscale(SDOD Technologies)	1	4,00,000	1
75	Grand view Research	1	5,10,670	9
76	Greenko Group	2	7,00,000	5
77	Grey Orange	8	14,00,000	93
78	HBL Power Systems	1	5,00,000	1
79	Here Maps	2	12,00,000	2
80	Histogenetics	2	5,00,000	15
81	HSBC	1	9,50,000	1
82	IBM	4	16,00,000	4
83	Ideas-SAS	1	9,50,000	1
84	IDfy	1	6,00,000	1
85	IMI Mobile	1	7,80,898	1
86	Impact Analytics	11	7,50,000	43
87	Indeed	1	33,00,000	109
88	Indus Insights	1	12,00,000	142
89	Indus Valley Partners (IVP)	0	11,00,000	51
90	Infinera	1	13,00,000	1
91	Infor	4	7,00,000	28
92	Ingersoll Rand	4	6,75,000	4
93	Inmobi	1	8,35,898	1
94	Intel	8	7,11,836	30
95	I-PAC	1	6,00,000	1
96	Jarvis Technologies	1	9,00,000	1
97	JDA Software	4	6,00,000	4
98	Joveo	1	25,00,000	126
99	JP Morgan & Chase	3	14,00,000	43
100	JP Morgan & Chase-Quant Finance	1	31,00,000	1
101	JP Morgan Services	22	12,00,000	22

Serial No	Name of Company	Total no. of Offers Made	CTC in INR	No. of Interviews
102	Karvy	4	10,00,000	53
103	Kinara Capital	3	8,00,000	21
104	L&T	18	5,11,000	88
105	L&T Infra Engg Ltd	1	5,00,000	4
106	Lowe's	5	7,00,000	64
107	Make My Trip	3	18,00,000	86
108	Mathworks	6	14,00,000	108
109	MediaTek	3	11,63,123	10
110	Medplus	5	11,00,000	32
111	Mercedes-Benz R&D	1	9,00,011	1
112	Merilytics	21	6,60,000	99
113	Michelin Tyres	0	7,00,000	3
114	Microsoft IDC	11	39,02,200	115
115	Morning Star	6	9,10,000	17
116	Mylan Labs	1	2,80,000	2
117	National Instruments	2	10,29,000	84
118	NCR Corporation	0	7,00,000	5
119	NetApp	2	18,72,708	25
120	Nomura	3	14,00,000	3
121	Novartis	1	6,50,000	1
122	Nucleus Software	2	10,00,000	2
123	Nutanix	17	39,48,600	91
124	Nvidia Graphics	13	16,21,052	13
125	Optum	5	11,98,000	5
126	Oracle	29	22,00,000	237
127	Orbees	4	13,50,000	104
128	Oyo Rooms	20	15,00,000	82
129	Paypal	9	25,10,000	122
130	Pfizer	2	3,50,000	7
131	Phenom People	4	8,80,000	27
132	Piramal Group	2	15,80,000	2
133	Pokarna	3	6,00,000	3
134	Postman	1	18,54,400	129
135	Price Waterhouse Coopers(PwC)	1	8,00,000	1
136	Publicis Sapient	8	14,70,000	174
137	Qualcomm	15	15,76,000	50
138	Quantiphi	1	8,50,000	1
139	Qubole	2	18,70,000	2
140	Quintessential Design	1	5,50,000	5
141	RAAM Group	0	6,00,000	47
142	Ramboll	3	5,50,000	6
143	Rao IIT	7	7,20,000	52
144	RazorPay	9	20,00,000	113
145	RBL Bank	1	9,00,000	51
146	Redpine Signals	1	9,00,000	26
147	Reflexis	3	6,00,000	25
148	Reliance Industries Limited	2	5,50,000	18
149	Reliance Jio	1	15,00,000	1
150	Report Garden	2	7,00,000	9
151	Rural Electrification Corporation Limited	2	16,00,000	34
152	Sagacious Research	0	4,50,000	8
153	Sai Life Sciences	1	6,00,000	5
154	Samsung R&D (Semiconductors Division)	6	23,35,000	6

Serial No	Name of Company	Total no. of Offers Made	CTC in INR	No. of Interviews
155	Samsung Research Institute, Bangalore	4	19,00,000	4
156	Searce	1	8,00,000	30
157	Servicenow	10	21,08,964	169
158	SKF	2	5,20,000	42
159	Slayback Pharma	1	4,20,000	2
160	Smart Analyst	3	5,17,813	30
161	Spandana Spoorthy	1	20,00,000	51
162	Sterling Engineering	1	3,75,000	5
163	Strand Life Science	2	18,00,000	83
164	Suven Life Sciences	4	3,00,000	23
165	Swiggy	15	24,77,024	75
166	Symphony AI	6	18,00,000	96
167	Synopsys	5	12,00,000	61
168	Tally Solutions	2	6,00,000	8
169	Tata Auto Components	1	5,00,000	6
170	Tata Technologies	4	5,00,000	26
171	Tata Trust	6	6,60,000	24
172	TE Connectivity	5	4,50,000	26
173	Techolution	1	3,50,000	1
174	Tejas networks	0	11,00,004	26
175	Telstra	2	12,00,000	42
176	Teradata	1	12,00,000	10
177	Tesco	3	19,18,000	70
178	Thornton Tomasetti	1	5,75,000	14
179	Thorogood Associates	5	11,00,000	119
180	TMEIC Industrial Systems	1	4,50,000	5
181	Toshiba	2	12,00,000	104
182	Uber	4	36,02,000	105
183	UBS	12	10,00,000	47
184	United Online	1	7,30,000	5
185	United Technologies Corp(UTC)	0	10,00,000	48
186	UnitedLex	6	8,00,000	47
187	Upgrad	3	15,00,000	69
188	Upwards Fintech	1	7,50,000	1
189	VB Shilpa(Navya Biologicals)	1	2,60,000	2
190	Vitor Health	1	4,80,000	1
191	Vivo Biotech	1	3,50,000	1
192	VM Ware	4	18,00,000	4
193	Wabco Auto	2	7,00,000	51
194	Walmart Labs	1	18,57,700	1
195	WCB Robotics	1	8,00,000	10
196	Western Digital	4	17,42,500	86
197	Wipro	3	6,50,000	12
198	WSP	1	5,00,000	7
199	Xilinx	7	15,00,000	60
200	Zifo RnD	1	4,37,500	1
201	Zinnov	1	7,51,465	5
202	ZS Associates	14	8,08,000	144
Total		773		8069

Discipline Wise Break Up:-

Code	Department / Program	Registered	Placed	Unplaced	% Placed
A1	B.E CHEMICAL	55	54	1	98.18
A2	B.E CIVIL	44	40	4	90.91
A3	B.E EEE	81	80	1	98.77
A4	B.E MECHANICAL	71	66	5	92.96
A5	B.PHARMACY	12	10	2	83.33
A7	B.E COMPUTER SCIENCE	174	172	2	98.85
A8	B.E ELECTRONICS AND INSTRUMENTATION	34	32	2	94.12
AA	B.E ECE	88	84	4	95.45
AB	B.E MANUFACTURING	33	29	4	87.88
B2	M.SC. CHEMISTRY	1	1	0	100.00
B3	M.SC. ECONOMICS	1	0	1	0.00
B4	M.Sc. MATHEMATICS	1	1	0	100.00
B5	M.SC. PHYSICS	2	2	0	100.00
H101	M.E CHEMICAL ENGINEERING	5	3	2	60.00
H103	M.E. COMPUTER SCIENCE	18	17	1	94.44
H124	M.E COMMUNICATION ENGINEERING	12	12	0	100.00
H129	M.E. BIO TECHNOLOGY	7	7	0	100.00
H141	M.E. DESIGN	14	12	2	85.71
H143	M.E. Civil STRUCTURAL	9	9	0	100.00
H123	M.E. Microelectronics	12	9	3	75.00
H106	M.E. Mechanical	12	11	1	91.67
H130	M.E. Transportation	6	6	0	100.00
H146	M. Pharm with Spl. in Pharmaceutics	16	14	2	87.50
H148	M.E. THERMAL	8	7	1	87.50
H313	M.E. INFORMATION SECURITY	7	6	1	85.71
	Total	723	684	39	94.61

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(11 Pages)

Ref. AR 2019, Page No. B3-72

RESEARCH PROJECT GRANTS**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned
1	Probing the functional and regulatory role of m6A reversible RNA methylation in skeletal myogenesis and muscle wasting	Biological Sciences	Dr. Piyush Khandelia	-	DST	55,58,360
2	Deciphering the role of host-microbiota derived bile acids in programming immune cell function during intestinal inflammation	Biological Sciences	Dr. Trinath Jamma	-	CSIR	24,94,000
3	Elucidating the role of long non coding RNAs (lncRNAs) in neuronal cell death during Japanese encephalitis (JE)	Biological Sciences	Dr. Vivek Sharma	Prof. Naga Mohan K	DBT	68,76,800
4	Study to be conducted in collaboration with Telangana State Pollution Control Board	Biological Sciences	Dr. Suman Kapur	-	CPCB	9,50,000
5	Designing of potential adsorbents via molecular modelling and simulations for the high temperature carbon dioxide capture	Chemical Engineering	Dr. Angan Sengupta	-	DST	21,95,220
6	Modelling the capacity loss in lithium ion batteries during cycling	Chemical Engineering	Dr. Balaji Krishna Murthy	Dr. Vikranth Kumar S	CSIR	18,00,000
7	Waste Minimization and Carbon Capture with Coal Flyash Doped Sorbents- A Two-Edged Sword	Chemical Engineering	Dr. I Sreedhar	-	CSIR	20,00,000
8	DESIGN AND SYNTHESIS OF DIVERSE PYRROLE-PYRIDINE BASED MOLECULES AS SELECTIVE SENSORS FOR Zn ²⁺ AND F ⁻	Chemistry	Dr. Anupam Bhattacharya	-	CSIR	16,52,940
9	High potency of complex dietary β -glucan fibers as Cholesterol and Low-Density Lipoprotein lowering agents: A comprehensive mechanistic investigation through advanced dynamical simulations.	Chemistry	Dr. Durba Roy	-	DST	36,66,520
10	Synthesis of highly stable Zr-based mixed -linker metal organic frameworks (MOFs) for humidity control and gas separation	Chemistry	Dr. Himanshu Aggarwal	-	DST	21,98,183
11	In search of unsymmetrically substituted anthracenyl π -conjugates as tunable mechanofluorochromic small molecule	Chemistry	Dr. Manab Chakravarty	-	DST	28,25,160
12	Development of a comprehensive methodology to improve traffic safety in Indian urban roadways based on advanced statistical techniques	Civil engineering	Dr. Bandhan Bandhu M	-	DST	11,39,880
13	Experimental and computational studies of surface water quality parameters from morphometry and spectral characteristics	Civil engineering	Dr. Jagdeesh Anmala	Dr. Murari R R Varma & Dr. Rajitha K	CSIR	41,9,8080

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned
14	Rainfall-Runoff modelling for lower godavari basin in a changing climate	Civil engineering	Dr. K S Raju	Dr. Nagesh Kumar	CSIR	16,00,000
15	Quality Control in road works	Civil engineering	Dr. Sridhar Raju	Dr. Prasanta Kumar Sahu	Govt of Telangana	9,90,000
16	Investigation on pro-inflammatory cytokine inhibitory low molecular weight metabolites of Pseudomonas sp. ABS-36 for the treatment of renal injury	College of Agriculture, Rajendra Nagar	Dr. Vidya Sagar B	Dr. Sajeli Begum	Ayush	5,00,000
17	Interpretation of tuberculin reaction using medical photography and computer aided diagnosis	CSIS	Dr. Jabez Christopher	-	DST	9,83,400
18	Impact of modern organized multi brand retail trade on street vendors case study of two capital cities	Economics and Finance	Dr. Archana Srivastava	-	ICSSR	4,50,000
19	Does Financial Awareness lead to Better Financial Inclusion Outcomes? An Investigation	Economics and Finance	Dr. Durgesh Ch Pathak (PI)	Dr. Rishi Kumar	IMPRESS-ICSSR	4,50,000
20	Financial Inclusion through Urban Cooperative Banks: An Exploratory Study of Telangana State	Economics and Finance	Dr. Mini Thomas	-	IMPRESS-ICSSR	5,60,000
21	Impact of the ex-gratia for farmers' suicide on the surviving family member of the deceased farmers in Telangana	Economics and Finance	Dr. Thota Nagaraju	-	IMPRESS-ICSSR	4,20,000
22	Studies and multiphysics simulation of mode converters for applications in Directed Energy Weapons (DEWs)	EEE	Dr Harish V. Dixit	Dr Runa Kumari	DRDO	4,17,720
23	Triamcinolone Acetonide Nanoparticles for Non-Invasive Delivery in the Effective	EEE	Dr. Sanket Goel	-	DST	15,00,000
24	Cardiac-Organ -On-Chip: Integrated microfluidic cardiac C18:K18platform for drug screening and toxicity detection	EEE	Prof. Sanket Goel	-	DST	43,75,800
25	National Post-Doctoral Fellowship	EEE	Ms. Khairunnisa Under Dr. Sanket Goel	-	National Post-Doctoral Fellowship	19,20,000
26	Structured dialogues for sustainable urban water management	Humanities and Social Sciences	Dr. Suchismita Satpathy	-	DST	57,26,400
27	Cosmic acceleration with observation constraints of the universe in modified gravity	Mathematics	Dr. Pradyumn Kumar Sahoo	-	CSIR	20,40,528
28	DST Inspire Faculty	Mathematics	Dr. Santanu Koley	-	DST Inspire	35,00,000
29	3D printing of graphene nanocomposites for energy storage applications	Mechanical Engineering	Dr. Pavan Kumar Penumakala,	-	DST	24,30,040
30	Machinability assessment and material characterization of tungsten heavy alloys used in defense applications as KE penetrators	Mechanical Engineering	Dr. Amrita Priyadarshini	-	DRDO ARB	14,78,900
31	Development of Image Processing based portable device to measure surface strains in sheet metal forming	Mechanical Engineering	Dr. Kurra Suresh	-	DST	15,85,700
32	Harvesting energy from underwater ocean currents through coupled vortex-induced vibration, flapping dynamics, electromagnetic induction and piezoelectric effects	Mechanical Engineering	Dr. Pardhasaradhi G	-	DST	27,35,370

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned
33	Design and Development of an Automated Flow Calibration Unit for Fuel and Oxidizer Injectors in a Pneumatic Control System	Mechanical Engineering	Dr. Sandip Deshmukh S	Dr. Supardeepan K	DRDO	10,00,000
34	Experimental Investigation on an Energy Efficient Regenerative Thermal Management Technique for Hybrid Electric Vehicles".	Mechanical Engineering	Dr. Santanu Prasad Datta	-	DST	27,93,700
35	A solar assisted combined cooling, heating and energy source: An alternative energy source for rural India".	Mechanical Engineering	Dr. Santanu Prasad Datta	-	DST	38,40,496
36	Bifunctional Gene-Expression Modulating Chemotherapeutic Agents as Improved Treatment Strategy for Cancer.	Pharmacy	Dr. Balaram Ghosh	Dr. Swati Biswas	CSIR	29,00,000
37	Functional role of histone deacetylase 6(HDAC6) in the progression of oral squamous cell carcinoma: regulation of II beta expression /autophagy and epithelial mesenchymal transition	Pharmacy	Dr. Onkar Kulkarne	-	ICMR	35,00,000
38	Near-Infrared Light Degradable Nanomicellar Chemo-Photodynamic Therapy using Aerobic Chlorin e6 Conjugate for Oropharyngeal Carcinomas "	Pharmacy	Dr. Swati Biswas	-	DST	30,72,360
39	Exceptional polynomials and their applications to Wigner Function"	Physics	Dr. K V S Shiva Chaitanya	-	DST-SERB - Matrix	6,60,000

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned (INR)
1	Zn Air Battery	Chemistry	Prof. Sounak Roy	Dr. Chanchal Chakraborty	HBL-2	13,50,000
2	Evaluation of the efficiency of bacterial inclusions in concrete	Civil Engineering	Dr. Arkamitra Kar	Prof. Jayti Ray Dutta Prof. sridhar Raju and Dr. Chandu Parimi	Aliens Group Pvt. Ltd	11,00,000
3	Development of Pedestrian Facility Assessment Tool for Improving Pedestrian's safety condition in Hyderabad	Civil Engineering	Dr. Bandhan Bandhu	-	AIA	1,00,000
4	Seismic Certification for our range of racks based on certificate of 3septs 2tier rack	Civil Engineering	Dr. Mohan SC	-	HBL	1,18,000
5	Network Coding for Multipath Transport	CSIS	Dr. Paresh Saxena	-	AnsuR Technologies AS, Oslo Norway	5,47,200
6	Understanding the commercialization of breast milk from sociological perspective	Humanities and Social Sciences	Dr. Suchismita Satpathy	-	AIA	1,87,000
7	Financial sanction of research project on Li Ion Battery	Mechanical Engineering	Dr. Sujith R	-	HBL	11,90,000
8	Pharmacokinetic and pharmacodynamic evaluation of new chemical entities for ocular diseases	Pharmacy	Dr. Nirmal J	-	Incilia Therapeutics Pvt.Ltd	8,14,200
9	Pharmacokinetic Evaluation of Ocular In-Situ Gelling Systems Loaded with treatment of posterior uveitis	Pharmacy	Dr. Punna Rao	-	BMS	3,40,000

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned (INR)
1	Development of methodologies for self -Aware network-on-chip design	EEE	Dr. Soumya J	Dr. Jantsch Axel, Institute of Computer technology, Austria	DST-India - Austria International Bilateral Project	8,89,000
2	Implementation of plants and treated natural fibers ton enhance the strength of soft soil and to decreased the rate iof surface erosion (Nat-treat)	Civil Engineering	Dr. Anusua Guharay	Prof. Dr. Wei WU-	Indo-Austria	6,39,500
3	Prevention of Hazardous field - firing of bagasse amd its sustainable utilization as a raw material in an innovation industrial process	Civil Engineering	Dr. Srinivas Appari	Dr. Bahurudeen & Dr. Prassanta Kumar Sahoo	Sparc	28,79,650
4	"Indo-Norwegian collaboration in Autonomous Cyber-Physical Systems"	EEE	Dr. Soumya J	Norweign Collaborator: Prof. Lingareddi C (Associate Professor, University of Agder)	The Research Council of Norway	-
5	Management of distributed energy resource in smart cities: challenges and advanced control strategies	EEE	Dr. Hitesh Datt Mathur	Dr. Aivelu Manga Parimi	Sparc	42,55,900
6	Benchmark studies of tornado induced wind loads between tornado simulators wordwide	Mechanical Engineering	Dr. Sabareesh G R	NA	Research center of wind Engineering	9,00,000
7	Congestion Pricing: Planning for optimal strategies and commuters behavioral implications under different pricing schemes	Civil Engineering	Dr. Prasanta Kumar Sahu	Dr. Bandhan Bandhu Majumdar (Birla Institute of Technology & Science), Dr. Ashoke Kumar Sarkar (Birla Institute of Technology & Science)	Sparc	29,39,493

D. Consultancy Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned (INR)
1	AP HRDI - Entrustment of Studies - Cyclone Titli	Humanities and Social Sciences	Dr. Biswanath Dash	NA	Consultancy	1,00,000
2	Automation of sample preparation process for pharmaceutical Applications	Mechanical Engineering	Dr. Y V D Rao	Dr. Arshad Javed	Aizant Drug Research Solutions Pvt. Ltd	15,48,000
3	Sustainability of Cashless Banking in Unorganized Retail Sector: Issues and Challenges ahead	Economics and Finance	Dr. Archana Srivastava	Dr. Rishi Kumar	IIBF (Indian Institute of Banking and Finance)	2,50,000

E. Institute Sanctioned Projects (Research Initiative Grant)

S.No	Project Title	Department	Principal Investigator	Sanctioned Amount
1	Performance Evaluation and Behavioral Study of Trajectory and Discontinuous Methods Based Metaheuristics	CSIS	Dr. Jabez Christopher	1,99,877
2	Detection of sleep related disorders from various physuikigucal signals using Multiscale analysis and Deep Neural Network	EEE	Dr. Rajesh Kumar Tripathy	2,00,000
3	Design and Development of an instrumentation system to measure dynamic signals	EEE	Dr. RN Ponnalagu	2,00,000

S.No	Project Title	Department	Principal Investigator	Sanctioned Amount
4	Synthesis of nano-porous metal oxide composite materials for water splitting application	EEE	Dr . Karumbaiah Chappanda Nanaiah	2,00,000
5	Cleanroom free, solution processed fabrication of flexible nanoelectronic devices for sensing applications	EEE	Dr . Parikshit Parshuram Sahatiya	2,00,000
6	The Notion of Time in the Philosophy of Nagarjuna	Humanities and Social Sciences	Dr. A K Jayesh	2,00,000
7	Design and Synthesis methodologies for CNFET-based Multi-Valued Logic Circuits.	EEE	Dr. Chetan Kumar Vudadha	2,00,000
8	Energy Efficient Mechanisms and Algorithms for 4G and 5G Broadband Wireless Networks	EEE	Dr Prashant K.Wali	2,00,000
9	Wilde and Manto: A Comparative Study of Writers on Trial	Humanities and Social Sciences	Dr Anhiti Patnaik	2,00,000
10	Investigation of the weldability of the mild steel during A-TIG welding.	Mechanical Engineering	Dr Ravi Shanker Vidyarthi	2,00,000
11	Synthesis of highly stable Zr based mixed-linker metal organic frameworks (MOFs) with fcu and hex topology for gas separation and sensing	Chemistry	Dr Himanshu Aggarwal	2,00,000
12	Flow induced vibration/flapping dynamics of multi-layered flexible foil in a uniform flow	Mechanical Engineering	Dr Pardha Saradhi Gurubelli Venkata	2,00,000
13	Hypersingular Integral Equation Techniques for Wave-structure Interaction Problem	Mathematics	Dr Santanu Koley	2,00,000
14	Impact of Remittances, Financial Development and Institutional Structure on Poverty: An Empirical Evidence from Developing countries.	Economics and Finance	Dr Sunny Kumar Singh	1,67,000
15	Adaptive Discretization of Parabolic Integro-differential Equations by Finite Element Methods.	Mathematics	Dr Gujji Murali Mohan Reddy	2,00,000
16	DPG method for parabolic problems	Mathematics	Dr Jhuma Sen Gupta	2,00,000
17	Holomorphic Characterizations of the Approximation Property and Its Variants	Mathematics	Dr Deepika	2,00,000
18	On generating some new families of congruent and non-congruent numbers	Mathematics	Dr Debopam Chakraborty	1,50,000
19	Regional Variation in Women's Employment in Rural India: Evidence from Bihar and Andhra Pradesh.	Economics and Finance	Dr Bheemeshwar Reddy. A	2,00,000
20	Conditional von Neumann entropy and its implications in quantum information processing tasks	Mathematics	Dr Nirman Ganguly	1,96,000
21	Social Conflicts: Role of Development in the Presence of Electoral Concerns	Economics and Finance	Dr Dushyant Kumar	1,58,000
22	Privacy Preserving Authentication Framework for e-Health Applications	CSIS	Dr Odelu Vanga	2,00,000
23	A study of contemporary epistemological and ethicopolitical challenges confronting genomics research in India	Humanities and Social Sciences	Dr Aswathy Raveendran	2,00,000
24	Miniaturization and Enhancement of Port Isolation of Multiple – Input –Multiple – Output (MIMO) Antennas for Future Generation Higher Data Rate Communications	EEE	Dr Sourav Nandi	2,00,000
25	Friction and Wear Investigation of Ceramic Coated Commercial Rotor	Mechanical Engineering	Dr Piyush Chandra Verma	2,00,000
26	ReSeThIoT: Building Research Framework for Investigating Security Threats for Internet of Things over WiFi	CSIS	Dr Rajib Ranjan Maiti	2,00,000
27	Women on Board and Corporate Policies in India.	Economics and Finance	Dr Shreya Biswas	2,00,000
28	Design and development of an optimized electrical interface for Smart Hybrid Microgrid and energy storage for peak load shaving, demand side management and energy security	EEE	Dr Ankur Bhattacharjee	2,00,000
29	Design and development of an optimized electrical interface for Smart Hybrid Microgrid and energy storage for peak load shaving, demand side management and energy security	EEE	Dr K Bhargav Kumar	2,00,000
30	Mobilizing Clean Energy Finance	Economics and Finance	Dr Nivedita Sinha	2,00,000

S.No	Project Title	Department	Principal Investigator	Sanctioned Amount
31	Cryptanalysis of some Symmetric Key Ciphers	Mathematics	Dr Sabyasachi Dey	2,00,000
32	Effect of inherent nonlinearities on operational failure of damaged structural elements	Mechanical Engineering	Dr Brajesh Kumar Panigrahi	2,00,000
33	Sustainable High Speed Micromachining Process Development for Thin Beam Manufacturing	Mechanical Engineering	Dr Kundan Kumar Singh	2,00,000
34	Liquid Jet in Crossflow- Effect of Injector Geometry	Mechanical Engineering	Dr Anubhav Sinha	2,00,000

2. ONGOING PROJECTS

A. Ongoing Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned
1	Protein structure and stability modulation due to In-Cell and In-Vitro Crowding: Molecular insights on the origin of the effects of crowding	Biological Sciences	Dr. Ramakrishna Vadrevu	-	DST	54,36,000
2	Mechanistic basis of abnormal neurogenesis due to HSSN1E-associated DNA Methyltransferase 1 (Dnmt1) mutation and pharmacological intervention for phenotypic correction	Biological Sciences	Dr. K Naga Mohan	Prof. Yogeewari	DBT-2	68,45,800
3	Polymorphism studies and molecular characterization of plasmodial Rhoptry neck protein 2 (RON-2) from Indian fields isolates	Biological Sciences	Prof. Vidya Rajesh	-	DST	34,92,000
4	Sequence based designs and characterization of peptide-amyloid nano materials exploring functionality	Biological Sciences	Dr. Ramakrishna Vadrevu	Dr. R. Krishnan	DAE-BRNS	29,68,650
5	Ramanujam Fellowship	Biological Sciences	Dr. Gireesha Thipperudrappa	-	Ramanujam Fellowship	38,00,000
6	Harnessing mucosal immunity towards improved resistance against tuberculosis	Biological Sciences	Dr. Ruchi Jain Dey	-	DBT Ramalingaswamy	32,50,000
7	Identification and characterization of long non-coding RNA's involved in Genome stability	Biological Sciences	Dr. Vivek Sharma	-	DBT Ramalingaswamy	32,50,000
8	Conditional pathogenesis: understanding why potentially beneficial rhizobacteria turn pathogenic under certain environmental conditions	Biological Sciences	Dr. Sridev Mohapatra	Prof. Naga Mohan K	DBT	45,16,800
9	Novel approach to develop computational pipeline to predict functions of cysteines in Proteins of Unknown Function (PUFs) and Domains of Unknown Function (DUFs), based on protein microenvironments	Biological Sciences	Dr. Debashree Bandyopadhyay	-	DST	19,42,800
10	Understanding the role of long non coding RNA's (lnc RNA's) in transforming growth factor - beta (TGF-B) pathway in Glioblastoma.	Biological Sciences	Dr. Vivek Sharma	-	DST	47,26,480
11	Identification of the regulatory mechanisms executed by bile acids during inflammation induced colon cancer	Biological Sciences	Dr. Trinath Jamma	-	DST	43,82,650
12	Reactive Transport Modeling and Simulation of Carbon Dioxide Sequestration in Deccan Volcanic Province	Chemical Engineering	Dr. Vikranth Kumar Surasani	Dr. Balajikrishna Murthy	DST	21,73,600
13	Cracking of hydrocarbon fuel for a possible heat sink applications	Chemical Engineering	Dr. Srikanta Dinda	-	DRDO	40,65,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned
14	Development of superomniphobic surface for self-cleaning and anti-microbial applications	Chemical Engineering	Dr. Nandini Bhandaru	-	DST INSPIRE	28,00,000
15	Synthesis, study of optical properties and Anticancer activity of unique di-substituted tetracyanoquinodimethanes	Chemistry	Dr. Jayanti Subbalakshmi	-	DST	24,74,605
16	Investigations on naphthalene and anthracene based phosphosates/phosphates: important sources for alkene based new algeers and polyaryllalkanes	Chemistry	Dr. Manab Chakravarty	Dr. Amit Nag	CSIR	16,20,000
17	Efficacy of Appropriately Tailored Biopolymer and Carbonaceous Adsorbents for the separation and Recovery of Europium	Chemistry	Dr. N. Rajesh	Prof. Vidya Rajesh	DST	29,59,370
18	Photocatalytic reduction of CO ₂ to biofuels	Chemistry	Dr. Sounak Roy	-	CSIR	4,00,000
19	DST INSPIRE Fellowship	Chemistry	Dr. Chanchal Chakraborty	-	DST INSPIRE Fellowship	35,00,000
20	Women Scientist (Dr. Atasi Mukherjee Under Prof. Manab Chakravarty	Chemistry	Dr. Atasi Mukherjee Under Prof. Manab Chakravarty	-	WOS-DST	31,55,000
21	Synthesis of highly stable Zr-based mixed -linker metal organic frameworks (MOFs) for humidity control and gas separation	Chemistry	Dr. Himanshu Aggarwal	-	DST	21,98,183
22	Performance evaluation of backfill soils partially replaced with building derived materials	Civil Engineering	Dr. Anasuya Guhary	Dr. Naveen James Dr. Arkamitra Kar	DST	24,43,710
23	Multiobjective evolutionary approach for solving water distribution network design optimization	Civil Engineering	Dr. A Vasana	Dr. Murari Varma	CSIR	22,35,400
24	Improving the seismic performance of dynamically similar buildings using damper connected control technique	Civil Engineering	Dr. S C Mohan	-	DST	43,14,540
25	Costal wetlands characterization using L and S bands of polarimetric SAR data	Civil Engineering	Dr. Rajitha	-	ISRO	13,58,000
26	Economic construction practice using bacterial inclusions in concrete in improve its durability	Civil Engineering	Dr. Arkamitra Kar	Dr. Jayati Ray Dutta & Dr. Mohana Bandyopadhyay	CSIR	17,00,000
27	STRATEGIES FOR FAULT-TOLERANT NETWORK-ON-CHIP DESIGN "	EEE	Dr. Soumya J	-	DST	25,93,140
28	Metal-Oxide and nano composite based low-power non-volatile switching device : a novel approach	EEE	Dr. Souvik Kundu	Prof. Souri Banerjee	DAE-BRNS	34,90,650
29	Investigations of the effects of Photon Up-Conversion materials on the Electrical performance of Ferroelectric /Semiconductor Heterojunction Photovoltaic Devices	EEE	Dr. Souvik Kundu	Prof. Kannan Ramaswamy and Dr. HariharaVenkatraman	DST	35,63,997
30	Digital 3D printed electronic technology for space electronic packaging applications	EEE	Prof. Sanket Goel	-	ISRO	26,36,000
31	Underwater Characterization of solar cells and their optimization	EEE	Prof. Sanket Goel	Dr. Sudha Radhika	DRDO-cars	9,85,000

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned
32	National Post-Doctoral Fellowship	EEE	Prof. Sanket Goel /Ms. Khairunnisa	-	National Post-Doctoral Fellowship	19,20,000
33	Resistance to the Western Ghats Conservation and Undercurrents: A study of the people's protest and the role of the local bodies in Iduuki, Kerela	Humnities and Social Sciences	Dr. Lavanya Suresh	M Suchitra	CDS	3,15,000
34	Structured dialogues for sustainable urban water management	Humnities and Social Sciences	Dr. Suchismita Satpathy	-	DST	57,26,400
35	Development of an accurate and robust unstructured grid-based adjoint approach for compressible turbulent flows	Mathematics	Dr. Anil Nemili	-	DST	15,90,600
36	Comparison of phase velocities of Rayleigh waves, love waves and Torsional waves in various anisotropic geo-media	Mathematics	Dr. Sumith Kumar Vishwakarma	-	DST	13,66,800
37	Characterizing the sets of periodic points of automorphisms on a solenoid	Mathematics	Dr. Sharan Gopal	-	DST	19,98,480
38	Enhancement of mechanical properties of Ti-6Al-4V using constrained groove pressing and heat treatment	Mechanical Engineering	Dr. Amit Kumar Gupta	-	DRDO	45,60,000
39	Hydrogen storage in mesoporous polymer driven ceramics for automotive applications	Mechanical Engineering	Dr. Sujith R	1.Dr. R. Rameshwaran 2. Prof. N. V. Ravi Kumar (IIT Madras)	DST-SERB	42,38,240
40	Formability Study of Inconel 625 alloy at Elevated Temperatures for Aerospace Applications	Mechanical Engineering	Dr. Nitin R. Kotkunde	-	DST	31,43,250
41	Cryogenically-Conditioned Micro and Nanoencapsulated Phase Change Material Slurries for Cool Thermal Energy Storage Applications	Mechanical Engineering	Dr. R. Parameshwaran	-	DST	27,76,340
42	Application of topology optimization to enhance energy efficiency and performance of industrial manipulator	Mechanical Engineering	Dr. Arshad Javed	-	DST	29,43,600
43	Investigations on pro-inflammatory cytokine inhibitory low molecular weight metabolites of Pseudomonas sp. ABS -36 for the treatment of renal injury	Pharmacy	Prof. Sajeli Begum	Dr. Onkar Prakash Kulkarni	DST	24,37,000
44	Advancing host-directed therapy for tuberculosis/MDR-TB: Development of novel PKB/AKT1 and Protein Kinase R inhibitors as an adjunctive treatment for tuberculosis	Pharmacy	Dr. D. Sriram	-	DBT-Tata Innovation	27,00,000
45	Development of a Non-invasive biodegradable polymeric microprojection ocular patch for effective corneal delivery of anti-microbial agents to treat fungal infections of eye	Pharmacy	Dr. V Vamsi Krishna Venuganti	-	ICMR	42,25,150
46	Understanding the Role of Antimicrobial S100A12 (Calgranulin C) Mediated Host Defense in Pseudomonas Keratitis and Developing Nano-tools for Efficient Delivery of S100A12	Pharmacy	Dr. Sanhita Roy	Dr. Swati Biswas	DST LVPEI, Hyderabad	16,37,800
47	Design, Synthesis and Biological Evaluation of HDAC3 Selective	Pharmacy	Dr. Balaram Ghosh	Dr. Swati Biswas	DST	29,87,800

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned
	Inhibitors as Long Term Memory Enhancers					
48	Development of pH-responsive smart capsule containing targeted multilayer film for drug delivery: The proof-of-concept study in colorectal cancer model	Pharmacy	Dr. V Vamsi Krishna Venuganti	-	DST	55,54,225
49	Fundamental physics in strong gravitational field of neutron stars	Physics	Dr. Sarmistha Banik	Dr. Asrarul Haque	DAE-BRNS	24,39,650
50	Quantum Gravity in Rindler Space	Physics	Dr. Prasant Kumar Samantray	-	CSIR	15,46,000
51	Modelling and Simulation of quartz Accelerometer for navigation system	Mechanical Engineering	Dr. Satish Kumar Dubey	Dr. Arshad Javed, Sanket Goel, AK Gupta	DRDO-cars	5,38,000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned
1	Technical and knowledge support for preparation and filing of drugs master file (DMF) as per common technical documents (CTD) for sennosides USP including the analytical requirements	Pharmacy	Dr. Punna Rao Ravi	Prof. Shrikant Charde	Shahsi Phytochemical Ltd	5,74,560
2	Identification of UGT-isoform specific substrates and inhibitors and their contribution in drug metabolism and systemic levels of bile secretions.	Pharmacy	Dr. Punna Rao Ravi	-	Consultancy Project (Acubiosys Pvt. Ltd.,	11,75,000
3	Formulation development and physico-chemical/in vitro/in vivo characterization of a nano-suspension formulation of an anticancer drug	Pharmacy	Dr. Balaram Ghosh	Dr. Swati biswas	Reddy's Lab	9,00,000
4	Development and characterization of emulsion based drug product for the management of emetogenic cancer chemotherapy	Pharmacy	Dr. Akash Chaurasiya	-	Slayback Pahrma	3,95,300

C. Ongoing Consultancy Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Amount Sanctioned
1	AP HRDI - Entrustment of Studies - Cyclone Titli	Humanities and Social Sciences	Dr. Biswanath Dash	-	Cyclone Tittle	1,00,000

D. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Amount Sanctioned
1	Parallax Lightweight code self-verification for IoT Devices	CSIS	Dr. C. Hota	Prof. Herbert Bos , VU University Amsterdam, Netherlands	Nwo-Deit(Indo-Dutch)	38,30,000
2	Sustainable technology solutions for energy efficiency in the jageery industry	Mechanica Engineering	Dr. M. Srinivas	1. Dr. K Srinivas Reddy & 2. Dr. V Srinivas	Royal Academy	48,00,000
3	Develop of novel anti-leishmanial analogues loaded with novel nano- formulations	Chemistry	Dr. S. Murugesan	Dr. K V G Chandra Sekhar	DBT	13,00,000
4	Strategies against antibiotic resistance in Mycobacterium tuberculosis and ESKAPE pathogens; new drugs and new targets	Pharmacy	Dr. D Sriram	Dr. P Yogeewari	Indo-Sweden-3	67,00,068

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Amount Sanctioned
5	UK-India Centre for Advanced Technology for Minimization of indiscriminate use of Antibiotics (UKICAT-MA)	Pharmacy	PI - Dr. Prashant Garg (LVPEI),	Dr. V Vamsi Krishna Venuganti	DBT-MRC	35,00,000

E. Ongoing Other Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Amount Sanctioned
1	Women employment , Interstate variation and time use: A comparative study of Bihar and Andhra Pradesh	Humanities and Social Sciences	Dr. Bhomeeshwar Reddy	-	Azim Premji University	11,88,000

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Amount Sanctioned
1	Studies on remaining useful life prediction considering multi-component failures in a wind turbine using prognostic health monitoring	Mechanical Engineering	Dr. Sabareesh Geetha Rajasekharan	Mechanical Engineering	DST	26,04,000
2	Development of metamaterial base support	Mechanical Engineering	Dr. Sabareesh Geetha Rajasekharan	Prof. Y V D rao	DMDE DRDO	13,80,000
3	Development of an encryption algorithm for secure transmission of color images	Mathematics	Dr. Manish Kumar	-	DST	15,08,053
4	Investigations of knowledge on Dengue fever followed by education and post impact behavioural changes among the rural communities of shameerpet mandal of Rangareddy district of Telangana state	Pharmacy	Prof. A.Sajeli Begum	Dr. Swati Alok	ICMR-ICSSR	10,89,000
5	Role of interleukin-22 in diabetic wound healing band regeneration	Pharmacy	Dr. Onkar Kulkarne	-	DST	27,26,000
6	Functional role of histone deacetylase 5 (HDAC5) in the pathogenesis of chronic kidney diseases and renal fibrosis	Pharmacy	Dr. Onkar Kulkarne	-	DBT	46,00,000
7	Comparison of Phenolic Resin from two sources for their properties	Chemical Engineering	Dr. Karthik Chetan V	I Dr. Ramesh Babu A	DRDO-cars	9,79,200

B. Completed Industry Projects

S. No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Amount Sanctioned (INR)
1	Preparation and Characterization of electrode for Lithium ion Batteries	Chemistry	Dr. Sounak Roy	Dr. Chanchal Chakraborty	HBL	7,00,000
2	Networks coding with deterministic coefficients for unreliable networks	CSIS	Dr. Paresh Saxena	-	AnsuR Technologies, Oslo, Norway	5,55,607

C. Completed Consultancy Projects

S. No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Amount Sanctioned (INR)
1	Incubating a discourse for Cooperation, Contentment, and Care: to Enable Justice for All	Humanities and Social Sciences	Dr. Lavanya Suresh	-	NALSAR	2,95,000

E. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Sanction Amount
1	A Comparative study on seismic analysis of earthquake resisting structures	Civil Engineering	Dr. Mohan SC	2,00,000
2	Experimental and numerical studies on part quality incremental forming at elevated temperatures	Mechanical Engineering	Dr. Kurra Suresh	2,00,000
3	Role of informal institute for small and micro entrepreneurs an empirical assessment	Economics and Finance	Dr. Archana Srivastava	1,82,000
4	3D printed microfluidic enzymatic biofuel cell (3DP-MMFC) for energy harvesting glucose sensing	EEE	Prof. Sanket Goel	2,00,000
5	Modeling and control of fault tolerant control systems with state-dependent failures	EEE	Dr. Shaikshavali Chitraganti	2,00,000
6	Screening for long non coding RNAs(lnc RNAs) expression changes in microglia cells during Japanese Encephalitis (JE)	Biological Sciences	Dr. Vivek Sharma	2,00,000
7	Development of low power motion estimation architecture for high efficiency video coding	EEE	Dr. Sumit Kumar Chatterjee	2,00,000
8	Regulatory role of hepatic bile acids in intestinal immune-homeostasis	Biological Sciences	Dr. Trinath Jamma	2,00,000
9	Investigating the effect of linear shrinkage and contraction on hot cracks during the solidification of metal alloys	Mechanical Engineering	Dr. Pavan Kumar Penumakala	2,00,000
10	An energy efficient regenerative evaporative cooling (REC)_ system for building air-conditioning with cross and counter flow configuration	Mechanical Engineering	Dr. Santanu Prasad Datta	2,00,000
11	Estimation of the key economic determinants of total factor productivity growth in India's service sector	Economics and Finance	Dr. Mini Thomas	2,00,000
12	A study of disaster management plans in India	Humanities and Social Sciences	Dr. Biswanath Dash	2,00,000
13	Investigating the performance of search based techniques software testing	CSIS	Dr. Subrakanta Panda	2,00,000
14	Impact of the ex-gratia for farmers suicide on the surviving family member of the deceased farmers in Telangana	Economics and Finance	Dr. Thota Nagaraju	2,00,000
15	Epigenetics of 45S rRNA gene regulation and rDNA genomic instability in Arabidopsis thaliana	Biological Sciences	Dr. Gireesha T Mohannath	2,00,000
16	An evaluation study of ESP(English for Specific Purpose Programmes in India	Humanities and Social Sciences	Dr. Santosh Kumar Mahapatra	1,70,000
17	Epitranscriptomic regulation of skeletal muscle development	Biological Sciences	Dr. Piyush Khandelia	2,00,000
18	Condition monitoring and diagnosis of high voltage transmission line insulators under the influence of extreme environmental conditions	EEE	Dr. Mithun Mondal	2,00,000
19	Nano-scale power management interface circuits for IoT Node	EEE	Dr. Saroj Mondal	2,00,000
20	Harnessing mucosal immunity towards improved resistance against tuberculosis	Biological Sciences	Dr. Ruchi Jain Dey	2,00,000
21	Designing an attribute enhanced spatially and temporally aware role based access control (AESTABRAC)model for electronic healthcare systems	CSIS	Dr. Barsha Mitra	2,00,000
22	Measuring segregation in Hyderabad: introspecting multiple indexes and multiple patterns	Humanities and Social Sciences	Dr. Suchismita Satpathy	2,00,000

'Annexure B3-7'

(4 Pages)

Ref. AR 2019, Page No. B3-107

List of Equipment procured in the year 2019

S.No	Item Description	Quantity	Amount	End user/ Dept.	Ledger folder
1	Centrifuge 5804 R	1	5,00,000	Dr Sridev Mohapatra	Equipment
2	Vibrating wire strain gauge concrete embedment type 2" gauge length, Data logger	2	4,99,380	Dr.Arkamitra kar	Equipment
3	Zmorph VX 3D Printer (CNC milling set)	1	2,83,671	EEE	Equipment
4	Sorvall legend Refrigerated micro centrifuge	1	2,36,232	Dr.Vivek sharma	Equipment
5	Interactive Intelligent Panel 75"	2	7,67,000	Time Table Division	Equipment
6	SORVALL Legend Refrigerated Micro Centrifuge (Micro 21R Centrifuge)	1	2,36,232	Dr Vivek Sharma	Equipment
7	Programable Spin Coating System (Oil Free Vacuum Pump)	2	1,06,398	Dr. Nandini Bhandaru	equipment
8	PC Based UV laser writing systems for Photolithography	1	6,30,000	EEE	Equipment
9	Microscope (MSZ-TR-LED) Magnus Zoom Stereo Trinocular Microscope	1	1,06,054	Biological Sciences	equipment
10	PC controlled programmable spin coating system, Oil free vacuum pump, Delrin substrate holder	NA	1,60,078	EEE	Equipment
11	Kingcut Portable Oxy Fuel Plasma CNC Profile cutting Machine	NA	8,50,000	Central Work Shop	Equipment
12	Solar Simulator, Fresnel Lens Assembly	NA	14,62,531	Dr Sovik Kundu	Equipment
13	CO2 Incubator with Accessories (Galaxy 170 S)	1	4,24,001	Dr Trinath Jamma	Equipment
14	Interactive Intelligent Panel 75"	2	7,67,000	Time Table Division	Equipment
15	Experiment Apparatus Thomson Method, Model: HO-ED-EM-03	1	1,20,266	Physics	Equipment
16	Melting point Apparatus	NA	1,47,811	Chemistry	equipment
17	Theta Lite Optical Tensiometer for Lite optical tensiometer (with Accessories)	1	7,91,410	Dr Sanket Goel	Equipment
18	Muffle Furnace with PIDcontroller with Digital Timer	1	1,04,430	Central Work Shop	Equipment
19	Maxwellian Velocity Distribution	1	4,51,425	Chemistry	Equipment
20	Bio-Rad vertical and Horizontal electrophoresis with power pack	NA	2,49,982	Dr.Sridev Mohapatra	Equipment
21	TP 350 Takara PCR Thermal cycler dice TM Touch	NA	1,68,000	Dr.Vivek Sharma	Equipment
22	Biosafety sabinet	NA	1,88,722	Dr.Trinath Jamma	Equipment
23	Pressure control system fully automatic	NA	1,57,072	Chemical Engg	Equipment
24	Bio-Rad semidry transfer system with high current power pack and accessories	NA	2,22,768	Dr.Trinath Jamma	equipment
25	Modular Compact Rheometer with consumables & Spares	NA	49,50,238	CAL	Equipment
26	Electron spin Resonance (ESR) and Nuclear magnetic resonance (NMR) with out CRD imported from Germany	NA	3,81,435	Physics	Equipment
27	Precision Dip Coating System	1	3,08,269	Dr Nandini Bhandaru	Equipment
28	Orbital Shaking Incubator	1	1,56,660	EEE	Equipment
29	Impedance Analyzer (Electrical Measuring Instrument)	1	33,22,194	CAL	Equipment
30	CS Power Dist Board , Switch DPDT 10/15 AMP	NA	2,00,402	Mechanical Engg	Equipment
31	Technovation make Series 2016(non-flameproof) portable Multi Gas Monitor for CO2 0-50% and CH4 0-100% with inbuilt pump	NA	1,26,260	Chemical Engg	Equipment
32	Tissue Culture Rack GTX-STD-SR	NA	5,14,162	Biosciences	Equipment
33	Bomb Calorimeter	1	3,18,600	Mechanical Engg	Equipment
34	Furnace - 600 degC	1	2,15,250	CAL	Equipment

S.No	Item Description	Quantity	Amount	End user/ Dept.	Ledger folder
35	Impedance Measurement System	1	21,85,986	Central Analytical Lab	Equipment
36	X-Ray Photoelectron Spectroscopy (XPS) for K-Alpha System	1	2,31,73,715	CAL	Equipment
37	Hot air Oven MAKE: Cintex	1	1,27,440	Pharmacy	Equipment
38	Simulator software	NA	13,12,500	CC Lab	Software
39	Electrochemical software	NA	1,02,459	Dr. C.N. Karumbaiah	Software
40	Centrifuge, Polypropylene Sheet	NA	2,90,044	Pharmacy	Equipment
41	Weighing Balances Model BSA822, Analytical Balances	NA	1,49,860	Pharmacy	Equipment
42	Probe Sonicator	NA	1,87,425	Chemical Engg	Equipment
43	Thermofisher Hot Air Oven, Heratherm Heating & Drying	1	1,48,999	EEE	Equipment
44	Ni ELVIS III Hardware	1	6,54,900	EEE	Equipment
45	Mini Porotean Tetral Cell 1658035FC	1	3,14,972	Dr Gireesha T Mohannath	Equipment
46	Super Micro 2U Server, Intel R Xeon R Processor E5-2678 V3 with 32GB DDR4 RDIMM Samsung 960GB SSD PM	2	5,00,000	Dr Pardha Saradhi GV	Equipment
47	Complete Robot Control Panel and Hard Drive	1	5,85,571	Dr Arshad Javed	Equipment
48	Ice Flaker LMIF-50, 3stage Pre-filtration system	2	1,45,408	Biological Science	Equipment
49	Ice Flaker INOF 130B Make: Innova Bio Meditech	1	1,99,500	Chemistry	Equipment
50	BIO-Rad Gel Doc XR+ Systems & Elisa reader	1	7,21,600	Biological Science	Equipment
51	Mathwork Campus Wide Std Licence	NA	8,80,135	Computer center	Software
52	LABVIEW Student software - 3Years	NA	8,40,001	EEE	Software
53	Biosafety Cabinet class 11	1	2,21,132	Dr. Ruchi jain Dey	Equipment
54	A1000 Basic Plant Growth Chamber	1	9,30,526	Dr Sridev Mohapatra	Equipment
55	Emona ETT-101 Kits	1	9,96,493	EEE	Equipment
56	CellXpert C170	1	7,08,750	Biological Science	Equipment
57	Master Cycler Nexus X2.230	1	4,49,999	Dr Gireesha T Mohannath	Equipment
58	LASER 980nm Laser with variable power 0.1mw - 10W	NA	3,15,000	Physics	Equipment
59	RF Development Tool kit	NA	1,44,087	EEE	Equipment
60	Media Request Academic Site Licence	NA	8,40,000	EEE	Software
61	Apple Mac Book Air S/No: FVFZ3HJ2LYWH	1	1,14,000	CCD	Equipment
62	Core Cutting with Hammer	1	3,27,981	Civil Engineering	Equipment
63	Quantus Fluorometer with Accessories (E6150)	1	2,99,703	Dr Piyush Khandelia	Equipment
64	Noztek Touch High Temperature extruder including Filament Winder 1.0	1	2,17,273	Dr Pavan Kumar	Equipment
65	Aspen ONE software for University licence	NA	1,50,000	C C Lab	Software
66	CO2 incubator (CellXpert C170)	1	4,30,000	Prof Swati Biswas	Equipment
67	Programmable Spin Coating System	NA	1,79,623	Dr Chanchal Chakraborty	Equipment
68	Olympus Microscope	1	2,73,000	Biological Science	Equipment
69	Refrigerated Circulating Water Bath	1	1,52,252	Pharmacy	Equipment
70	Universal CPLD/FPGA Trainer Kit, Daughter Board Power Adaptor 5V	1	4,10,353	EEE	Equipment
71	Mark Two next generation - 3 D Printer for Composites, DesktopSeries inclusive 1 year success plan, Desktop computer 19" Monitor with eiger software, Nylon , Carbon fibre spool CFF 150cm3	NA	15,00,000	Mechanical Engg.	Equipment
72	Rsoft OptSIM U 2019.03 Software	NA	2,33,640	EEE	Equipment
73	PartekFlow Lab	NA	6,36,000	Biological Science	Software
74	ASIA Advanced TCAD univ.- 3 year TSL License university	NA	4,82,917	EEE	Software

S.No	Item Description	Quantity	Amount	End user/ Dept.	Ledger folder
75	Four point probe system	NA	1,40,000	EEE	Instrument
76	Trainer Kit TMS 320C6748 DSP Development kit	NA	14,20,012	EEE	Trainer kit
77	Single Station Tracking Equipment as per ASTM D2303	NA	2,29,215	EEE	Equipment
78	Analog discovery kit 2kit	NA	2,47,800	EEE	Equipment
79	Optical fiber kit light runner premium	NA	5,98,500	EEE	Equipment
80	Simulia academic abaqus, Simulia academic abaqus analysis tokens, Simulia academic abaqus research base license, Simulia academic abaqus analysis tokens	NA	2,09,706	CCLAB	Equipment
81	C1000 - Thermal cyclear with dual 48/48 fast reaction, Mini Trans-blot electrophoretic Transfercell	NA	4,60,845	Dr.Trinath Jamma	Equipment
82	Bloomberg Terminal Services (25.09.2019 to 24.09.2020)	NA	22,29,702	Economics & Finance	Software
83	Voltera V1-CNC milling machine for PCB (Inside Onsite Installation, Training Services & support -1 year)	NA	3,91,650	EEE	Equipment
84	Trinocular Microscope, Microscopic Lens	NA	1,46,320	Clean Room	Equipment
85	Muffle Furance	NA	1,26,000	Biological Science	Equipment
86	Bead tube homogenizer, Empty tubes 2ml, Triple pure high impact zirconium beads 0.1mm, Triple pure high impact zirconium beads 1.0mm	NA	1,21,834	Biological Science	Equipment
87	Orbital shaking incubator Make:Remi; Voltage stabilizer model : VS-01	NA	1,97,190	Biological Science	Equipment
88	B01020002 Bioruptor plus for devices with 1.5ml tubes C30010010 1.5ml TPX microtubes for bioruptor plus -50PCS	NA	14,78,246	Dr. Vivek Sharma	Equipment
89	3D Profilometer - oBJ-10X-Mirau	NA	14,34,172	EEE	Equipment
90	NGC Medium pressure liquid chromatography systems and accessories	NA	31,00,683	CAL LAB	Equipment
91	IBM SPSS Statistics Base 26.0 (5Licences)	NA	7,49,300	CCLAB	Software
92	Cadence University Software Program - 3 Years	NA	3,18,200	EEE	Software
93	Fume Hood with Accessories	NA	2,80,934	Chemical Engg	Equipment
94	COMSOL Multiphysics Software	1	6,17,140	CC Lab	Software
95	Intelli Fab: MEMS/CMOS process simulation	NA	4,99,800	EEE	Software
96	Impartus video lecture capturing devices for Classrooms	NA	10,51,380	Time table division	Class room
97	UV/Ozone system with Digital Programmable Controller, Thermal Ready Option	NA	4,01,820	Chemical Engg	Equipment
98	Avance NEO 400MHZ one bay FT-NMR Spectrometer with CP MAS Solids Equipment	NA	24,94,439	CAL	Equipment
99	Power multi user lan version subscription for 365 days	NA	2,79,075	Economics & Finance	Software
100	Origaly's France make - Pack OGF500 Model single channel Electro chemical Workstation with necessary power supply and cell cables	NA	3,40,630	EEE	Equipment

Annexure 'B3-8
(13 Pages)
Ref: AR 2019

LIST OF FIRST DEGREE THESIS COMPLETED DURING THE YEAR 2019

Second Semester 2018-19

S No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
1	2013AATS0278H	MV VAMSHI KRISHNA	Women's employment and empowerment-An impact assessment of TSRTC's policy to employ female bus conductors	Prof.BVVSN Prabhakar Rao/ Prof.Sunny Jose	EEE
2	2013B3A20574H	NVCM Reddy	Structural health monitoring using wireless sensor network	Dr.Mohan S C	Civil Engineering
3	2014A4B50369H	SAARANSH SINGHAL	Sedimentation of objects in viscous fluid	Mr.Rama Govindarajan/ Prof.Aravinda R	Physics
4	2014B1A20784H	KUNAL AGARWAL	Optimization of waste water treatment plants using Machine Learning	Prof.Sankar Ganesh	Biological Science
5	2014B1AB0902H	PARAN GOEL	Bio-chemical bio-physical and Immunological characterization of DT mutant CRM197	Dr.Sujit R/ Prof.Suman Kapur	Mechanical Engineering
6	2014B1TS0914H	ASHISH APKARI	Understanding the effects of mediator molecules made by gut microbes	Prof.Suman Kapur	Biological Science
7	2014B2A10750H	SIDDHANT KUMAR PATEL	Molecular dynamics simulation of polysaccharides in water	Dr.Durba Roy	Chemistry
8	2014B2A10907H	P ROHAN	Microbe immobilized on a carbonaceous matrix for the recovery of europium	Prof.N Rajesh/ Prof.Vidya Rajesh	Chemistry
9	2014B2A20757H	NITU PANDIA	Synthesis of ferrite nano particles	Dr.Balaji G	Chemistry
10	2014B2A30782H	AURNAB M	Early detection & diagnosis of micro cardiac infraction using U-fluidic paper based sensor and ECG signal processing	Prof.BVVSN Prabhakar Rao	EEE
11	2014B2A70975H	ANSHAL MUKHESH LAD	Blockchains and electronic health records	Dr.Subhrakanta Panda	Computer Science and Information system
12	2014B2AA0795H	PARAV SINGLA	Electronic band structure calculations of graphene based VDW layers	Prof.Sumithra	Chemistry
13	2014B3A10962H	KS SHIVARAM	Study on frequency and quality of antenatal care in India	Dr.Rishi Kumar	Economics & Finance
14	2014B3A70381H	ARVIND AS	Use of time series analysis and machine learning for lie detection	Prof.Chng Eng Siong/ Dr.Jabez J C	Computer Science and Information system
15	2014B3A70501H	VAIBHAV AGRAWAL	A neural information extraction pipeline with recall-awareness	Dr.Simon Razniewski/ Dr.Rishi Kumar	Economics & Finance
16	2014B3A70604H	YASH RAJ JAIN	Developing cognitively informed meta-level RL algorithms	Dr.Folk Lieder/ Prof. NL Bhanumurthy	Computer Science and Information system
17	2014B3A70739H	SUPRIYA LAKHTAKIA	Domain Specific Extractive Summerization	Prof.Vasudeva Varma/ Prof.Aruna M	Computer Science and Information system
18	2014B4A10507H	G TARUN SAI	Flow past axi-symmetric bodies	Dr.TSL Radhika	Mathematics

S No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
19	2014B4A20523H	KVP SRIKANTH	Utilisation of reclaimed asphalt pavement with waste plastic	Prof.Sridhar Raju	Civil Engineering
20	2014B4A30655H	SUBHAPRADA CHAND	Dominating set problem and dynamic programming	Prof.M Alphonse	Mathematics
21	2014B4A30761H	I ANOOK	Mathematics of signal processing	Dr.TSL Radhika	Mathematics
22	2014B4A30981H	PRATEEK JAIN	Dominating set problem and its applications	Prof.M Alphonse	Mathematics
23	2014B4A40543H	TARUN KUMAR S	Detection of insurance fraud claims using data analysis	Dr.PTV Praveen	Mathematics
24	2014B4A40760H	SHUBHAM MALANI	Optimize an ideal evaporative cooling system based on climatic conditions	Dr.SP Datta	Mechanical Engineering
25	2014B4A40982H	ADNAN AHZAM	Statistical prediction and its implication on Big data	Prof.V Hara Gopal/ Prof.DK Satpathi	Mathematics
26	2014B4A70525H	AHANA GHOSH	Robust AI agents for human-AI partnerships	Dr.Adish Singla/ Prof. NL Bhanumurthy	Computer Science and Information system
27	2014B4A70648H	KARRAN PANDEY	Topological analysis of time varying scalar fields	Mr.Vijay Natarajan/ Dr.Sharan Gopal	Mathematics
28	2014B4A70752H	ABHISHEK SINGH	Study of Topological Dynamics with an emphasis on symbolic dynamics	Dr.Sharan Gopal	Mathematics
29	2014B4AA0745H	VIBHU AGRAWAL	Medical Image Segmentation using Deep Neural Networks	Dr.SK Chatterjee	EEE
30	2014B4AA0758H	ADITI BODHANKAR	Fabrication and Characterization of Carbon Field Emitting Guns	Dr.Swati Sharma/ Dr.J Jagan Mohan	Mathematics
31	2014B4AA0762H	PRAFUL GUPTA	New entropy measure for the analysis of physiological signals	Dr.Rajesh Kumar Tripathy	EEE
32	2014B4AA0929H	UTKARSH T	Analysis of spiking neural network	Dr.K Venkat Ratnam	Mathematics
33	2014B5A20641H	YSS KASHYAP	Prediction of precipitation using Artificial Neural Networks	Prof.Anmala Jagadeesh	Civil Engineering
34	2014B5A20728H	ALAM HITENDRA SAI	Precipitation prediction using neural networks	Prof.Anmala Jagadeesh	Civil Engineering
35	2014B5A30740H	K CHANDRA VARDHAN	Frequency resolved Terahertz Nonlinear characterization of semiconductor materials	Prof. G Ravindra Kumar/Dr.PK Pattnaik	EEE
36	2014B5A30766H	MOHIT UPADHYAY	Processor Microarchitecture Feature Exploration and Performance Evaluation using both Simulator and Hardware Systems	Dr.Anasua Bhowmik/Dr.Soumya J	EEE
37	2014B5A30774H	YOGESH RAJESH K	Using machine Learning for characterization at the gravitational wave observations	Dr.Sanjit Mitra/ Dr.Rahul Nigam	Physics
38	2014B5A30925H	AVIJIT SINGH	Artificial Neural Networks for Network-on-chip mapping	Dr.Soumya J/ Prof.Thiruvikraman	Physics
39	2014B5A30996H	SURAJ PARTANI	Validation of the prototype developed for detecting cancer biomarker	Prof.Yogeeswari/ Prof.Sarmistha Banik	Physics
40	2014B5A40564H	PARAKH M GUPTA	ModQuad: Flying modular structure that self-reconfigures mid-air	Dr.Vijay Kumar/ Dr.Rahul Nigam	Physics

S No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
41	2014B5A40676H	VIVEK VARDHAN M	Study of radiative and optical properties of nanofluids for application in PV/T solar panels	Prof.Kannan R/ Dr.N Jalaiah	Physics
42	2014B5A40712H	EBENZER PRASANNA	Investigation into fabrication of Hybrid solid electrolyte for Li metal battery	Dr.MB Sahana/ Prof.Kannan R	Physics
43	2014B5A70770H	KSHITIJ	Image processing	Dr.Rahul Nigam	Physics
44	2014B5A70775H	ADITYA VIDHATE	Impact of the Cosmic Web on the properties of Damped Lyman Alpha systems	Dr.Aseem Paranjape/ Prof.Aruna M	Computer Science and Information system
45	2014B5A70932H	MEGHANA K	Exploitation of Data Redundancy for Traffic sign Detection	Dr.Horst Bischof/ Prof.PK Thiruvikraman	Physics
46	2014B5A80725H	B OM SUBHAM	Theoretical study on structure formation & spherical collapse for f(R) models	Dr.Rahul Nigam/ Dr.PK Pattnaik	EEE
47	2014B5A80767H	ASHUTOSH KUMAR	Microfluidics in Y-Channel	Prof.Meenakshi V/ Prof.Sanket Goel	EEE
48	2014B5AA0771H	VR DINESH KUMAR	Antenna Design for UAV Applications	Dr.Runa Kumari/ Dr.Sourav Nandi	EEE
49	2014B5AA0961H	EBIN PHILIP	Dynamics & Control of Biped Robotics	Prof.SK Sahoo/ Prof.Kannan R	Physics
50	2014B5AA0992H	D RAGHU VAMSHI	Fast multipole method & its applications	Prof.PK Thiruvikraman	Physics
51	2014B5AB0658H	CH JAGADEEP	Algorithms in Quantum Computing	Dr.KVS Shiv Chaitanya	Physics
52	2014B5AB0716H	RAJAT BANSAL	Development of spectrofluoro meter	Prof.Suman Kapur/ Dr.VSN Murthy	Physics
53	2015A1TS0670H	SHIVANSH	Improving yield of articles of production	Vedant K/ Dr.Satya Paul Singh	Chemical Engineering
54	2015A1TS0728H	ARVIND HRISHIKESH T	Lean manufacturing practice in operations of production unit	Vedant K/Dr.Nandini	Chemical Engineering
55	2015A1TS0751H	S RAGUVARAN	Modelling & Simulation of CO2 Sequestration	Dr.Vikranth Kumar S	Chemical Engineering
56	2015A1TS0770H	MOHIT AGRAWAL	Reduction of wastage from production unit	Vedant K/ Mrs.Lakshmi Sirisha P	Chemical Engineering
57	2015A2TS0445H	NITIN KUMAR	Optimisation of reservoir operations using non-stationary conditions	Prof.KS Raju	Civil Engineering
58	2015A2TS0496H	HIMAKAR S A N	Seismic performance of irregular buildings using buckling restrained braces	Dr.Kalyana Rama J	Civil Engineering
59	2015A2TS0526H	B ATUL SINGH	Precipitation prediction using ANN	Prof.Anmala Jagadeesh	Civil Engineering
60	2015A2TS0530H	ARIJIT SARKAR	Stabilization of black cotton soil with biochar & water hyacinth fibre mix	Dr.Anasua Guharay	Civil Engineering
61	2015A2TS0550H	KARTIK NARULA	Robustness and efficiency of our transport networks	Prof. A Vasani/ Dr.Prasanta Kumar Sahu	Civil Engineering
62	2015A2TS0576H	AVANINDRA SINGH R	To study and build a framework for measuring the LOS of Hyderabad Metro	Dr.Bandhan B M	Civil Engineering

S No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
63	2015A2TS0581H	VASHISTHA DEWANGAN	Numerical study of structural responses of flexible pavement overload with thin white tapping	Prof.V Vinayaka Ram	Civil Engineering
64	2015A2TS0628H	SUMEET MOHANTY	Numerical study of structured responses of rigid pavements with changing load patterns	Prof.V Vinayaka Ram	Civil Engineering
65	2015A2TS0643H	CHARU SRIVATSAVA	Dynamic analysis of pile foundations by FEA	Dr.Anasua Guharay	Civil Engineering
66	2015A3TS0320H	KVVS TRINADH	Implementation of Arithmetics in Digital image processing	Dr.Syed Ershad A	EEE
67	2015A3TS0328H	ISHAAN DEWANGAN	ECG signals & heart diseases prediction	Prof. BVVSN Prabhakar Rao	EEE
68	2015A3TS0352H	MADHAV SINGH	Designing a system prototype of recommendation system for virtual labs software	Prof.Venkatesh Ch/ Dr.Jabez Christopher	EEE
69	2015A4PS0847H	VIVEK SHARMA	Developing simulator for commutation process	Dr.Sabareesh/ DR. GK Anantha Suresh	Mechanical Engineering
70	2015A4TS0275H	K SAI MANOJ	Enhancement of mechanical properties of Titanium alloys using Thermo-Mechanical processes	Prof.AK Gupta	Mechanical Engineering
71	2015A4TS0315H	SANDEEP KUMAR S	Numerical simulations & parametric investigations during RFA of breast tumor	Dr.Satish Dubey	Mechanical Engineering
72	2015A4TS0319H	SHAH AKSHAT HITESH KUMAR	Design and Analysis of Cryostate	HB Naik/ Dr.R Parameshwaran	Mechanical Engineering
73	2015A4TS0329H	MANISH RUDRARAJU	Achieving Resetting Excellence and Poka Yoke	Mr.Manohara Reddy/ Prof.YVD Rao	Mechanical Engineering
74	2015A4TS0393H	KUSH DWIVEDI	Wind load mitigation on low rise buildings (LIGO-India observatory)	Dr.KRC Murthy/ Dr.Sabareesh	Mechanical Engineering
75	2015A4TS0395H	VAIBHAV SHARMA	Shape optimization of MEMS Heaters	Dr.Satish Dubey/ Dr.Saurabh K	Mechanical Engineering
76	2015A4TS0403H	ANADI PRAKHAR	Micro channel simulation	Dr.Satish Dubey	Mechanical Engineering
77	2015A4TS0416H	K UDAY KIRAN	To study & analyse the machinability of Mg. Alloy to carryout surface characteristics	Prof.NSK Reddy	Mechanical Engineering
78	2015A4TS0423H	MURTAZA BOHRA	Propagation of wave in meta material for vibration attenuation	Dr.Sabareesh	Mechanical Engineering
79	2015A4TS0440H	JAYESH SANWAL	Analysis of 2DE turbulence in Taylor-Couette Flows	Prof.Gregory Falkovich/ Dr.KRC Murthy	Mechanical Engineering
80	2015A4TS0851H	KARTIK BALI	Development of ALF solves for moving mesh problems	Dr.Supradeepan	Mechanical Engineering
81	2015A4TS0987H	BHARAT REDDY CH	Design and Fabrication of Micro fuel cells	Dr.Satish Dubey	Mechanical Engineering
82	2015A5TS0852H	DEBOLINA S	Development of resistant oral cancer cell and estimation of biomarkers	Dr.Swati Biswas	Pharmacy
83	2015A5TS0854H	APPORVA A	Market research of Gabapentin and Lidocaine Gel as supportive therapy for Diabetes	Mr.Ravikanth D/ Prof.D.Sriram	Pharmacy
84	2015A5TS0856H	AKSHAY S	Effect of Silymarine in the progression of chronic kidney disease	Dr.Onkar K/ Prof.VV Krishna	Pharmacy

S No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
85	2015A5TS0857H	PRACHI MEHTA	Polymer Based Targeted Delivery Systems for Anti-Cancer Drug Delivery	Prof.Ashok M R/Prof.D.Sriram	Pharmacy
86	2015A5TS0860H	POOJA MANI	role of lipid droplets in bacterial control in macro pharms	Dr.Sheetal Gandotra/ Prof.D.Sriram	Pharmacy
87	2015A5TS0863H	SRIVIDYA BHARATHI B	Synthesis of anti cancer agents	Dr.Balaram Ghosh	Pharmacy
88	2015A5TS0869H	GAJRAJ SINGH R	Explaining mechanisms to identify response to immune checkpoint inhibitors	Dr.Balaram Ghosh	Pharmacy
89	2015A5TS0871H	K SHANMUKHI	Pharmacokinetic & Pharmacodynamic correlation	Prof.Punna Rao R	Pharmacy
90	2015A5TS0872H	SOWMYA T	Characterization and phenotyping of cell specific NLRP3 inflammasome knockout and overactivation in TG animals	Prof.Dr.Hans-Joachim Anders/Dr.Onkar K	Pharmacy
91	2015A7TS0023H	HITESH V BHACHANDANI	User modelling through Microsoft products' usage logs	Shwetabh K/Dr.Jabez J C	Computer Science and Information system
92	2015A7TS0044H	AJAYKRISHNA KARTHIKEYAN	Data driven software development using Reinforcement Learning	Mr.Nagarajan N/ Prof.Aruna M	Computer Science and Information system
93	2015A7TS0052H	CH RAKESH	Smart file layout for efficient analytic query processing	Mr. Bhargav Gulavani/ Dr.Jabez J C	Computer Science and Information system
94	2015A7TS0056H	KEYUR JAIN	RPM Prediction	Mr. Paras Malik/ Dr.Lov Kumar	Computer Science and Information system
95	2015A7TS0077H	AMEY ATHALE	Deep learning on IOT system	Prof. Chittaranjan Hota	Computer Science and Information system
96	2015A7TS0106H	TARUN RAHEJA	Tailoring DMRG algorithm to study Potts' Model	Ms.Sreejith GJ/ Dr.Suvadip Batabyal	Computer Science and Information system
97	2015A7TS0116H	BHAVESH	Optimize ML algorithm of low power devices	Prof.Chittaranjan Hota	Computer Science and Information system
98	2015A7TS0119H	AFROZ AHAMAD S	Improving programming accessibility	Mr.Suresh Parthasarathy/ Prof.Aruna M	Computer Science and Information system
99	2015A7TS0142H	V THEJAS	Approximate Optimizations for Training deep Neural Networks	Dr.Nipun Kwatra/ Prof.G Geethakumari	Computer Science and Information system
100	2015A7TS0143H	KEVAL MORBIA M	Learning Network Embedding for Enterprise Applications	Mr.Arun Iyer/ Prof. NL Bhanumurthy	Computer Science and Information system
101	2015A7TS0145H	ANKIT ANAND	Recommendation models in enterprise social networks	Mr.Ayush Choure/ Dr.Jabez J C	Computer Science and Information system
102	2015A7TS0175H	ADITYA KUMAR	Improvements in Project Sankie at Microsoft Research	Mr.Sonu Mehta/ Dr.Lov Kumar	Computer Science and Information system
103	2015A7TS0382H	ANIRUDH SRINIVASAN	Grounded Language Learning (Baby AI Game)	Mr.Yoshua Bengio/ Prof.Aruna M	Computer Science and Information system
104	2015A7TS0952H	Gaurang Vichare	Web service anti-pattern prediction	Dr.Lov Kumar/Prof. NL Bhanumurthy	Computer Science and Information system
105	2015A7TS0954H	ARNAV DHAMIJA	Disruption tolerant networks for Underwater Apps	Prof.Mandar Chitre/Dr.Suvadip Batabyal	Computer Science and Information system

S No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
106	2015A8TS0398H	S SANDEEP KALYAN	Stae of the Art of Penetration Testing	Dr.Subhrakanta Panda/Dr.Sayan Kanungo	EEE
107	2015A8TS0476H	RAJBIR SINGH M	Statistical models and methods to analyze immunization	Prof.Sanket Goel/ Dr.Rishi Kumar	EEE
108	2015AATS0246H	DS SIDDHARTH	Analysis of R-R time series and EDR for prediction of cardiovascular events	Dr.Rajesh Tripathy	EEE
109	2015AATS0263H	BHARAT RAGHUNANTHAN	Information extraction from Clinical Text	Dr.Babu Ozhur N/ Dr.Sudha Radhika	EEE
110	2015AATS0269H	MES SRIKAR	Applications of Beamforming in New Age Communications	Dr.Runa Kumari	EEE
111	2015AATS0979H	KARTHIK N	ECG Signal Detection & Processing	Prof.BVVSN Prabhakar Rao	EEE
112	2015ABTS0641H	SREERAM RAJESH	Design of Microfluidic channel for Micro-G Bio Experiments	Dr.KRC Murthy/ Dr.Aloke Kumar	Mechanical Engineering
113	2015ABTS0752H	NIKHIL SHARMA	Fabrication of a mode of lithium ion battery	Dr.Sujit R	Mechanical Engineering
114	2015ABTS0754H	RISHABH JAIN	Lean production and supply chain management	Mr.Daniel Fries/Dr.Sujit R	Mechanical Engineering
115	2015B2TS0804H	KRISHNA PATIL	Synthesis and characterization of Polyazine Ligands and Heteroleptic Complexes	Prof. R Krishnan	Chemistry
116	2015B4TS0606H	M NISCHAY RAM	A GPU accelerated meshfree solver for compressible fluids flows	Dr.N Anil	Mathematics
117	2015B4TS0661H	R SAIKRISHNA	Solutions to D.E using Lie Group theory	Dr.TSL Radhika	Mathematics

First Semester 2019-20

S.No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
1	2014B4A20661H	JOHN VIKAS KOTARU	Fluid Flow in Elastic Pipes	Dr. TSL Radhika	Mathematics
2	2014B4A20985H	KN GANESH	Fluid Flow in Pipes	Dr. TSL Radhika	Mathematics
3	2014B5A20994H	HAKEEM HADI MAQBOOL	Application of AI in Hydrology	Dr.K Rajitha / Prof.Jagadeesh A	Civil Engineering
4	2015A2A40618H	PRITISH DEY SARKAR	Rotaton lapoeity of pre-stressed beams	Dr.Mohan SC	Civil Engineering
5	2015AATS0216H	D ANAND SAGAR	Flood Mapping using SAR Imagery	Dr. Sudha Radhika	EEE
6	2015B1A0828H	PIYUSH SONI	Exploiting digital platform for health awareness	Prof.Suman kapur	Biological Sciences
7	2015B1A10699H	SHAGUN SRIVASTAVA	Theoretical Understanding of Stability Lassies state in Superaleophobic surfaces	Dr.Nandini B	Chemical Engineering
8	2015B1A10817H	SHOBHIT JAIN	Docking and Molecular dynamic simulation of small molecule assesing their role in amyloids	Prof.Ramakrishna V	Biological Sciences
9	2015B1A20815H	M VAMSI KRISHNA	To obtain optimum binder content of CRMB(diff. sizes of crumb rubbers) in BC-2 aggregate mix & compale with Gap graded mix	Prof.Sridhar Raju	Civil Engineering

S.No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
10	2015B1A20825H	PRADEEP REDDY S	Response of secondary object on seismic structure	Dr.Chandu P	Civil Engineering
11	2015B1A40818H	SHUBHAM SRIVASTAVA	Design and Development of Prototype for Oral Cancer Detection: An Approach towards early detection and affordable kit	Prof.Kumar Pranav N	Biological Sciences
12	2015B1A70823H	SHUBHAM PALIWAL	To design user friendly interface for image analysis pipeline for detection of DNA damage	Dr.Vivek Sharma	Biological Sciences
13	2015B2A40772H	SHUBHAM SAWANT	Data Driven approach to improve App Engagement and User Retention in OTT media using Growth oriented strategies	Rishabh K , Amandeep C/Prof.Manab C	Chemistry
14	2015B2A80803H	DISHA GUPTA	Study of malochite Green adsorption by microwave assisted synthesis of actinected carbon	Prof.N Rajesh	Chemistry
15	2015B3A20553H	G SRI BHARGAV	Essays in Corporate Finance	Dr. Nivedita Sinha/ Dr.Shreya Biswas	Economics & Finance
16	2015B3A70491H	VIJITHA GUNTA	Improving stock trend prediction using text analysis	Dr.Rishi Kumar/ Prof.NL Bhanumurthy	Economics & Finance
17	2015B3A70531H	R SHIVANI REDDY	Feature extraction and TEM Alignment	Dr.Phaneendra Y/ Prof.CR Hota	Computer Science and Information system
18	2015B3AA0562H	RISHEEK SOOD	Modelling of waveguide of waveguide joints	Dr. Harish V Dixit	EEE
19	2015B3AA0907H	SHANTANU UPADHYAYA	Development of Verilog AMS Code for the Dataflow Modeling of Novel Gate Overlap TFET in Ultra-low Power Applications	Dr. S S Dan	EEE
20	2015B3AB0582H	PRANJUL PUROHIT	New product research, development and release	Mr.Balakumaran P/ Dr.Swati Alok	Economics & Finance
21	2015B4A30391H	MEESALA SMRUTHI	Nable calculus for Solviris Boundan Value Problems	Dr. J Jagan Mohan	Mathematics
22	2015B4A40541H	ABHILASH VERMA	Implementing Delaunay based Mesh Generation in SD for Point Cloud	Dr. Pardha Saradhi/ Prof. Tathagata Ray	Mechanical Engineering
23	2015B4A40635H	DEVYESH SHRIVASTAVA	Green's function for Boundary Value Problem	Dr. J Jagan Mohan	Mathematics
24	2015B4A70482H	PRATEEK GUPTA	Information Security	Dr. Manish Kumar	Mathematics
25	2015B4A70649H	ADITI SHARMA	Probabilistic modelling of swarachakra keyboard	Prof.Anirudha Joshi/ Prof.Aruna M	Computer Science and Information system
26	2015B4A70701H	ADITI SHARMA	Information extraction with meta-patterns in Biomedical Literature	Mr.H.V.Jagadish/ Prof.NL Bhanumurthy	Computer Science and Information system
27	2015B4A70845H	KUMAR PRASUN	Julia Based Hybrid Parallel Meshfree Solyer for Compressible Flows	Dr. N Anil	Mathematics
28	2015B5A30673H	AKSHAY ASTHANA	Spherical Collapse in F (R) Gravity	Prof. Rahul Nigam	Physics

S.No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
29	2015B5A40499H	MAYANK AGRAWAL	Strengthening Government Capacities to use Data for Decision Making	Dr. Neeraj Trivedi/ Dr. Amrita P	Mechanical Engineering
30	2015B5A70460H	SHIVAM BHAGAT	Human Emotion Analysis using Machine Learning	Prof. Chng Eng Siong/ Prof. PK Thiruvikraman	Physics
31	2015B5A70674H	ABHINAV KUMAR	Fine Tuning Word Embedding	Dr. Partha Talukdar/ Dr. Sashideep Gutti	Physics
32	2015B5AA0600H	AVS DHEERAJ	Study of Biomechanics of Human Neck using VR Tools	Prof. Tathagata Ray/ Prof. PK Thiruvikraman	Physics
33	2015B5AA0620H	ARCHIT MITTAL	Virtual Lab for EM Fields	Dr. Harish V Dixit	EEE
34	2015B5AB0686H	DJ RAMA KRISHNA	Designing and Implementing SHPB to test Material Behaviour	Prof. Alope Kumar/ Prof. NSK Reddy	Mechanical Engineering
35	2016A1TS0493H	SHAKTI RAJ SINGH BAWAL	Residual Trapping of CO ₂ in Deccan Volcani Province	Dr.Satyapaul Singh	Chemical Engineering
36	2016A1TS0587H	AYUSHI SRIVASTAVA	Parallelization of Lattice Boltzmann Code	Dr.Vikranth Kumar S	Chemical Engineering
37	2016A1TS0629H	PRANAV RAJ	Modeling of Solid Oxide Fuel Cell Systems	Prof.Balaji K	Chemical Engineering
38	2016A1TS0631H	DEBASHIS PANDA	Non-isothermal implementation of drying in Lattice Boltzmann Methods	Dr.Vikranth Kumar S	Chemical Engineering
39	2016A1TS0660H	SIDDHARTH SINGH TOMER	Modeling of Solid Oxide Fuel Cell Systems	Prof.Balaji K	Chemical Engineering
40	2016A2TS0484H	AGAM SACHAN	Wavelet neural networks and other Machine Learning techniques	Prof.KS Raju/Prof.Aruna M	Civil Engineering
41	2016A2TS0514H	B SAI PHANEENDRA	Chemical and geotechnical characterization of Biochar Treated Black Cotton Soil	Dr.Anasua G/ Dr.Arkamitra Kar	Civil Engineering
42	2016A2TS0539H	CHETAN WAINGANKAR	Modelling in Environmental Engineering & Hydrology	Prof.Jagadeesh A	Civil Engineering
43	2016A2TS0556H	HARDIK JAISWAL	Reservoir Planning	Prof.A Vasana	Civil Engineering
44	2016A2TS0603H	NIKHIL GUPTA	Investigation of CRUMB Rubber-Plastic Modified Bitumen	Prof.Vinayaka Ram	Civil Engineering
45	2016A2TS0608H	HIMANSHU SINGH	Earth pressures on retaining wall:A laboratory model scale study	Dr.Anasua G	Civil Engineering
46	2016A2TS0617H	A SRI SAI PRANEETH	Non-linear finite element analysis of flexural member	Prof.PN Rao	Civil Engineering
47	2016A2TS0815H	RITIKA SRIDHARAN	ANFIS & ANN implementation for modelling water quality	Prof.Jagadeesh A	Civil Engineering
48	2016A3TS0253H	PRANAV JADHAV	SEAL: Security for Automotive using Light Weight Analysis	Dr. Siew-Kei Lam/ Dr. Rajesh Kumar T	EEE
49	2016A3TS0260H	AKKULU REDDI GARI PRAGNYA	Visual Object Tracking using Reconfigurable Accelerators	Prof. SK Nandy/Prof. Sudha Radhika	EEE
50	2016A3TS0275H	SHREY THAKKER	Design of High Power Microwave (HPM) Devices	Dr. Harish V Dixit	EEE
51	2016A3TS0301H	TARUNBIR SINGH GAMBHIR	Multi Channel Acoustic Source Localization	Dr. Prasanta Kumar G/ Dr. Soumya J	EEE

S.No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
52	2016A3TS0814H	RAAHUL JAGANNATHAN	Design next generation magnetic memory circuitry	Prof. Kang L Wang/ Dr. S S Dan	EEE
53	2016A3TS0836H	ROSHAN SIVAKUMAR	Brain Computer Interface- Sequential Decoding	Dr. Elahe Abdi/ Dr. BVVSN Prabhakar Rao	EEE
54	2016A4TS0169H	AKULA SAI PRATYUSH	Design of Architected Material with High Stiffness and Zero Thermal Expansion	Dr. Atieh Moridi/ Dr. Sujith R	Mechanical Engineering
55	2016A4TS0213H	JAYA AADITYAA G	Simulation and Realization of a Mecanum Wheeled Robot	Dr. P Muralikrishna/ Dr. Arshad Javed	Mechanical Engineering
56	2016A4TS0268H	MIHIR OJHA	Thermomechanical Processing and Characterization of Nitinol Alloy for Damping Applications	Dr. AK Gupta	Mechanical Engineering
57	2016A4TS0349H	VIKRANTH SAGAR REDDY GADI	Mesh Generation for FE on Cellular Solids	Dr. Narayan K Sundaram/Dr. Pavan Penumakala	Mechanical Engineering
58	2016A4TS0353H	AKHIL AGNIHOTRI	Indoor Localisation and Navigation of Turtlebot3 using ArUco Markers (Till now)	Prof. Ding Zhao/ Dr. Pavan Penumakala	Mechanical Engineering
59	2016A4TS0358H	HARSHA SISTA	Numerical Simulation of the Aerodynamic and Aeroacoustic Performance of Rotorcraft Blades in a Helicopter	Prof. Luigi Vigevano/ Dr. Supradeepan K	Mechanical Engineering
60	2016A4TS0362H	GOKUL CS	Numerical Simulation of Viscoelastic Fluids in a Micro Channel	Prof. Alope Kumar/ Prof. KRC Murthy	Mechanical Engineering
61	2016A4TS0371H	ADITYA SINGH	Development of Carbon Fiber based Toughened Composites for Automobile and Aerospace Applications	Dr. Karthik Chetan V/ Dr. Pavan Penumakala	Mechanical Engineering
62	2016A4TS0403H	KAVADAPU ROHIT KALYAN	Impact Analysis on Natural Fibre (Flax) Reinforced Composites	Dr. Pavan Penumakala	Mechanical Engineering
63	2016A5PS0729H	SHIVANI NAIK	Research on Nanomedicine and Drug Delivery Technology for Cancer Diagnosis/Imaging and Therapy	Dr. Arun K Iyer/ Dr. Balaram Ghosh	Pharmacy
64	2016A5TS0738H	SHILPA ELSA GEORGE	Spectroscopic Characterisation of Nano-Particle Molecule Interactions	Prof. Alison Rodger/Dr. Balaram Ghosh	Pharmacy
65	2016A5TS0746H	PRATISTHA VERMA	Development of microfluidic platform for 3D cell culture using native tissue-derived hydrogel	Dr Lianmei Jiang/ Prof. Vamsi Venuganti	Pharmacy
66	2016A5TS0748H	TANIA DUTTA	Epigenetic Regulation of NF- κ B in Cancer	Dr. Li Yinghui/Dr. Balaram Ghosh	Pharmacy
67	2016A7TS0050H	BHARAT MALHAN	Video streaming over MPTCP	Dr. Paresh Saxena/ Dr. Thomas Dreiholz	Computer Science and Information system
68	2016A7TS0236H	SKANDA VAIDYANATH	Chatbot personalization via personal knowledge bases	Dr. Andrew Yates/ Prof. NL Bhanumurthy	Computer Science and Information system

S.No.	Student ID	Student Name	Title of Thesis	Supervisor	Department Name
69	2016A7TS0803H	VAMSI KRISHNA ARIBANDI	Neural language processing for mental health assessment	Mr.Amit Sheth/ Prof.NL Bhanumurthy	Computer Science and Information system
70	2016A7TS0809H	DEEKSHA KARTIK	Prediction of embryo development outcome at a single time point using Artificial Intelligence	Dr.hadi Shafiee/Prof.Tathagatha Ray	Computer Science and Information system
71	2016A7TS0810H	MATHANGI SUNDAR	Summary Generation for Datasets	Brain Davison, Jeff Heflin/Dr.Lov Kumar	Computer Science and Information system
72	2016A8TS0426H	ADITYA SINGH THAKUR	Linearizing Digitizer for Wheatstone Bridge based Conditioning for Resistive Sensors	Dr. RN Ponnalagu	EEE
73	2016A8TS0448H	V JEFFRY LOUIS	Design and Evaluation of In-Memory Logic Gates	Dr. Shahar Kvatinsky/ Dr. Souvik Kundu	EEE
74	2016AATS0165H	VAIBHAV BALLOLI	Acceleration of Autonomous Driving	Prof. Sparsh Mittal/ Dr. Rajesh Kumar T	EEE
75	2016AATS0180H	SHREYAS RAVISHANKAR	Hardware Acceleration of Algorithms used on Autonomous Driving	Prof. Sparsh Mittal/ Dr. Chetan Kumar	EEE
76	2016AATS0203H	SHAIK IMAM FAROOQ SHANAWAZ	Frequency Selective Surfaces	Dr. Harish V Dixit	EEE
77	2016AATS0226H	BHARATHWAJ S	Approximate Computing Circuit for Neuromorphic Computing	Dr. Souvik Kundu	EEE
78	2016AATS0239H	S ANANTHARAMAN	Development of an improved method for detecting chromosomal anomalies in whole genome sequencing data for non-invasive prenatal diagnosis (NIPD)	Dr. RN Ponnalagu/ Dr. Sridhar S, Dr. Vinod S	EEE
79	2016AATS0812H	DAANISH M MOHAMMED	Analysis of PCG signals using VMD based WVD Approach	Dr. Rajesh Kumar T	EEE

Annexure 'B3-9
(4 Pages)
Ref: AR 2019

LIST OF HIGHER DEGREE DISSERTATION COMPLETED DURING THE YEAR 2019

Second Semester 2018-2019

S.No	ID Number	Name	Supervisor	Title	Monitoring Department
1	2013HS430820H	B SRIMAN PANKAJ	Dr. Arkamitra Kar	Investigation of crushed concrete aggregates as a replacement for natural aggregates in concrete	Civil Engineering
2	2016H3130077H	KOUNTEYA SARKAR	Dr. Prasanta K Panigrahi Dr. Suvadip Batabyal	A robust tripartite quantum key distribution with mutually shared Bell states and classical hash values using a complete-graph network architecture	Computer Science & Information Systems
3	2017H1010019H	PULA BHARGAVI	Dr. D Purnima	Nano cellulose Synthesis and Characterizations and its applications	Chemical Engineering
4	2017H1010020H	MADDURI PRITHVINATH	Dr. Angan Sengupta Dr. Vikrant Kumar Surasani	Two Dimensional Modelling of Rising Thermal Plume	Chemical Engineering
5	2017H1010022H	WARE SNEHAL VINAYAK	Dr. Vikrant Kumar Surasani Dr. Srikanta Dinda	Coalbed Methane Extraction Using CO2 Sequestration	Chemical Engineering
6	2017H1010023H	HITHESSH AUGUSTUS	Dr. Satyapaul A Singh	Fabrication of Nanocomposite Catalysts for Value Added Products	Chemical Engineering
7	2017H1010024H	PICHKARI SAIKIRAN	Dr. Balaji Krishnamurthy Dr. Sanket Goel	Paper Based Microfluidic Microbial Fuel cell	Chemical Engineering
8	2017H1010025H	SEEMAREKHA DAS	Dr. Nabin Kumar Dhal Dr. Srikanta Dinda & Dr. Nandini Bhandaru	Isolation and screening of rock phosphate solubilizing microbes: An In vitro stud	Chemical Engineering
9	2017H1010026H	SHARON MARIAM VARUGHESE	Dr. Nandini Bhandaru	Chemical Durability of Biometric super Hydrophobic surfaces on Polymers	Chemical Engineering
10	2017H1010027H	SAYYED SHERAJ ZULFEKHER	Dr. Srikanta Dinda	Cracking of Toluene and n-Heptane to find endothermic heat sink at elevated temperature and pressure	Chemical Engineering
11	2017H1060103H	SOHAN DUDALA	Dr Satish K Dubey Dr. Sanket Goel	Microfluidic Platform for Soil Testing	Mechanical Engineering
12	2017H1060114H	PERI ARUN	Dr. K. Ram Chandra Murthy	Laminar fluid flow past two side-by-side elliptical cylinders at 0o angle of attack having two different aspect ratios with varying center to center distance.	Mechanical Engineering
13	2017H1290001H	DIBYASREE BISWAS	Dr. Krishnan H Harshan Dr. Vivek Sharma	Molecular cloning of Japanese Encephalitis Virus (JEV) Nonstructural protein NS2A and Its expression from Mammalian expression Vector	Biological Sciences

S.No	ID Number	Name	Supervisor	Title	Monitoring Department
14	2017H1290002H	GARIMA SINGH	Dr. Tripti Vashisth Dr. Piyush Khandelia	Manipulating Flowering with the Use of Gibberellins in Huanglongbing-affected Sweet Orange	Biological Sciences
15	2017H1290006H	DILENA DILIP	Dr. Trinath Jamma	Understanding the effect of mycobacterial proteins on immunological functions of macrophages	Biological Sciences
16	2017H1290007H	NISHTHA KUSHWAHA	Dr. Suman Kapur	Correlation of Urinary Biomarkers With The Physiological States Of Body i.e. Fasting and Feeding in Individuals of varying Body Mass Index (BMI)	Biological Sciences
17	2017H1290008H	AVEEPSHA BERA	Dr. Gireesha T M	Role of Chromatin Assembly Factor-1 in maintaining Genomic Stability in Arabidopsis thaliana	Biological Sciences
18	2017H1290011H	SNIGDHA GHOSH	Dr. Gireesha T M	To establish a novel role for Chromatin Assembly Factor 1 (CAF1) in ribosomal DNA (rDNA) instability-mediated rRNA gene regulation in Arabidopsis thaliana	Biological Sciences
19	2017H1290012H	NANDINI E	Dr. Vidya Rajesh Dr. N. Rajesh	Metabolite profiling for the evaluation of urinary biomarkers in Autism Spectrum Disorder patients from India	Biological Sciences
20	2017H1290013H	NIKHARIYA YAMINI RAKESH	Dr. Jayati Ray Dutta Dr. Piyush Khandelia	Lipase mediated polymer degradation derived from probiotic sources	Biological Sciences
21	2017H1290014H	MONALISA NAMEIRAKPAM	Dr. N. Sadananda Singh Dr. Piyush Khandelia	Examining the role of circRNAs in skeletal muscle atrophy	Biological Sciences
22	2017H1290015H	MONICA	Dr. Naga Mohan	Impact of DNA - methylation variation in humans	Biological Sciences
23	2017H1300043H	WAIM AKSHAY RAVINDRA	Dr. Sridhar Raju	Use of Fractionated Rap (F-Rap) To Increase The Rap Content	Civil Engineering
24	2017H1300047H	MOHAMMAD AQEEL AHAMAD	Dr. Sridhar Raju Dr. K. Sitaramanjanyulu & Dr. Pradeep Kumar	Development of Maintenance Tool for Rural Roads	Civil Engineering
25	2017H1300048H	VENDOTI NIKITHA	Dr. Bandhan Bandhu Majumdar	An user perception based analysis of factors influencing safety and walkability of pedestrian facility in Indian Urban settings	Civil Engineering
26	2017H1410095H	HAYALAM AKSHAY KUMAR	Dr. Jeevan Jaidi	Numerical simulation of Frictional stir spot welding in ABAQUS software	Mechanical Engineering
27	2017H1410097H	DURGAVAJHALA PAVAN KUMAR	Dr. Jeevan Jaidi Dr. Anurag Nandwana	Thermal Modelling of Industrial Baking Oven	Mechanical Engineering
28	2017H1430032H	CHAKRAVARTHULA B AJAY MANI TEJA	Dr. Mohan S C	Two Stage Damage Assessment of Structure with Minimal Structural Data through Dynamic Analysis of Categorized Building	Civil Engineering
S.No	ID Number	Name	Supervisor	Title	Monitoring Department

29	2017H1430037H	BEZAWADA VAMSI KRISHNA	Dr. Kalyana Rama J	Performance Based Design of Irregular RC Building	Civil Engineering
30	2017H1430038H	MANDAPAKA RAM SAGAR	Dr. Kalyana Rama J Dr. A. Ramachandra Murthy	Predict the Parameters for Fracture Mechanics Based Design of RC Beams	Civil Engineering
31	2017H1430040H	AJINKYA SANJAY DESAI	Dr. Bahurudeen A	Service Life Prediction of Rice Husk Ash Blended Cement Concrete In Off-Shore Bridge Structure	Civil Engineering
32	2017H1460147H	DESHPANDE VIBHA SANJAY VAISHALI	Dr. Punna Rao Ravi Dr. Ram Reddy	Formulation and Development of Microemulsion of Acyclovir	Pharmacy
33	2017H1460148H	MAHAJAN RADHIKA RAJIV	Dr. Ashish A Dubewar Dr. Akash Chaurasiya	To Formulate and Characterize Room Temperature Stable Product for A Thermolabile Chemical Entity	Pharmacy
34	2017H1460149H	BANKAR NEHA GAJANAN	Dr. V. Vamsi Krishna Venuganti	Preparation and Characterization Of Drug Loaded Temperature Sensitive Liposomes	Pharmacy
35	2017H1460150H	MRUNAL VIJAY KULKARNI	Mr. Khan Mohammed Majed Dr. V. Vamsi Krishna Venuganti	Exploring Film Coatings for Enhanced Tablets Appearance	Pharmacy
36	2017H1460152H	KALE SUVARNA RAJARAM	Dr. Punna Rao Ravi	Formulation of intranasal Mucoadhesive temperature-mediated in situ gel for Antiparkinsonism drug Piribedil	Pharmacy
37	2017H1460153H	SHAIKH SHAFIK SHAKIL	Dr. Punna Rao Ravi	Formulation and Evaluation Of Nasal In-Situ Gel System Of Rufinamide as a Nose To Brain Delivery For The Treatment Of Epilepsy	Pharmacy
38	2017H1460156H	VIDUSHI AGGARWAL	Dr. Sandeep Paranjape Dr. Punna Rao Ravi	Design of Polyherbal Formulation Based On Consumer Insights For Lung Detoxification	Pharmacy
39	2017H1460157H	ABDUL NAZEEM BAIG	Mr. Sanjay Kumar Dr. V. Vamsi Krishna Venuganti	Understanding of Regulatory Submissions For United States of America	Pharmacy
40	2017H1460160H	KATKE SUMEET VAIBHAV	Dr. Monika Srivastava Dr. Punna Rao Ravi	Formulation, development and evaluation of an injectable product of drug molecule A	Pharmacy
41	2017H1460161H	BOJJA JAVALI SUMAGATHRI	Dr. Punna Rao Ravi	Development, Optimization and Characterization of Erlotinib Hydrochloride-Hybrid Nanoparticle Using QbD Approach	Pharmacy
42	2017H1460163H	VEDA SURESH THORAT	Ms. Nagamani Sribudharaju Dr. V. Vamsi Krishna Venuganti	Guidelines for Regulatory Submissions For European Union	Pharmacy
43	2017H1460165H	GALIGAMA ROHINI DEVI	Dr. V. Vamsi Krishna Venuganti	Ocular Drug Delivery by Using Microneedles	Pharmacy
44	2017H1480142H	BHAMBURE AJIT NAMDEO	Dr. Jeevan Jaidi Dr. Mahesh Vaze	Multi-physics Modelling of Fuel Cells	Mechanical Engineering
S.No	ID Number	Name	Supervisor	Title	Monitoring Department

45	2017H1480143H	DEEPAK V	Dr. K. Ram Chandra Murthy	Laminar flow past two side by side elliptical cylinders of different aspect ratios at 90° angle of attack	Mechanical Engineering
46	2017H1480145H	RAM MOHAN KARTHA	Dr. Jeevan Jaidi Dr. Rakesh Bardepur	Analysis of Thermal Management in 100kW PMSM SEMA Motor	Mechanical Engineering

First Semester 2019-2020

S No	ID Number	Name	Supervisor	Title	Monitoring Dept
1	2018H1010021H	SUPRIYA B	Dr. Vikranth Kumar Surasani	Development Of Three-Dimensional Lattice Boltzmann Model For Film Evaporation In A Square Capillary Tube	Chemical Engineering
2	2018H1010022H	MEGHANA KOTLA	Dr. Nandini Bhandaru	Pattern Directed Ordering of Dewetting in Ultra-thin Polymer Films	Chemical Engineering
3	2018H1010024H	PAKALA HIMAVARSHA	Dr. Vikranth Kumar Surasani Dr. Srikanta Dinda	CFD Simulation Of Endothermic Fuel Production For Hypersonic Vehicles	Chemical Engineering
4	2018H1010025H	SHRADHA RAMESH	Dr. D Purnima Dr. Lakshmi Shirisha	Preparation of Nano Cellulose using Biological routes and its Application Postgraduate	Chemical Engineering
5	2018H1010026H	NILANJANA PANDA	Dr. Satyapaul A. Singh	Morphologically Tuned Nanoparticles Synthesis for Environmental and Energy Applications	Chemical Engineering
6	2018H1010028H	IPSITA SAHOO	Dr. Ramesh Babu A	Influence Of Super Masscolloider And Lab Valley Beater On The Morphology Of Sapwood Pulp Fibres	Chemical Engineering
7	2018H1010029H	SUNETRA VENKAT CHITURU	Dr. Angan Sengupta	Two-Dimensional Modelling of Rising Thermal Jet Plume	Chemical Engineering
8	2018H1430050H	SISTLA SAITEJA	Dr. Bahurudeen A	Performance of bagasse ash blended mortar against fire	Civil Engineering
9	2018H1430051H	ANSUMAN PANDA	Dr. Bahurudeen A	Rheological Modelling of Pumpable Concrete	Civil Engineering

BITS Pilani

annual report 2019

Part B4: Dubai Campus

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BITS PILANI, DUBAI CAMPUS**B4. HIGHLIGHTS FOR THE YEAR 2019****Dubai Campus**

1. Department of Biotechnology, BITS Pilani, Dubai campus organized an International conference on International Conference on Biotechnological Innovation in Food and Health Care (BIFHC 2019) during 27-28 January 2019. The Inaugural Ceremony was graced by the esteemed presence of Mr. Marwan Abdulaziz Janahi, Managing Director, Dubai Science and Technology Park, who walked the audience through the timeline of how Dubai has emerged as a hotbed for life science conglomerates, and further encouraged the STEM youth who can take UAE at the forefront of research. Further, Prof. R.N. Saha, Director of BITS Pilani Dubai Campus welcomed all the delegates and addressed the gathering on how pharmaceutical discoveries are the chief impetus in the development of Medical Sciences. The Keynote Speech in Healthcare was delivered by the Guest of Honour, Dr. Hatim Al Abbas Mostafa Sid Ahmad, Director of Dubai Cord Blood and Research Centre, DHA, who highlighted the importance of HLA typing for diagnosis of Celiac Disease in the Arab Population. A special talk by MING Medical Founder Dr. Sean NG on 'Giving hope where there is none', was a major highlight of the day focusing on stem cell therapy. The conference sessions began with talks by scientists invited from USA and India, working in the field of Food and Healthcare. A total of 10 scientists delivered talks over two days. The second day started with a keynote address by Dr. Fayez Safadi, North East Ohio Medical University, USA on Epigenetics on Health and Disease. Making an excellent use of technology, the talk was delivered teleconferencing. Many local scientists from the Dubai Cord Blood Research Centre, the University of Sharjah, and the Gulf Medical College shared their research during the conference. The conference ended with awards ceremony followed by some participants going for desert safari, while others opting for a city tour.
2. BITS Pilani Dubai campus were the Runners Up in the Inter University Sports Event 2019 held from 9-14 February 2019 organized by Gulf Medical University Ajman.
3. On 13 February 2019, Aditya Birla Education Academy hosted the first conclave for educators held at BITS Pilani Dubai Campus in association with Futures Abroad. Over 60 teachers and principals from different school attended the event. Shri Neerja Birla, Founder & Chairperson, Aditya Birla Education Academy and founder and chairperson of Mpower, a mental health initiative, addressed the conclave. "Teachers have the noble responsibility of shaping the minds and igniting the imaginations of future generations. If we want the next generation to evolve, those who impart knowledge must evolve as well. "So this event is important to create a dialogue with the teaching community in identifying gaps and look at ways on how we can enrich learning experiences for today's students," said Birla, whose efforts at fighting stigma against mental health, among other things, are well-known. Prof. R. N. Saha, Director, BITS Pilani, Dubai Campus welcomed and addressed the gathering.
4. As a part of International Women's Day celebrations globally on March 8, 2019, the Social and Environment Club of BPDC organized a Workshop on Health by Dr. Lakshmi, Gynecologist, Zulekha Hospital, Dubai on 7 March 2019.
5. On 12 March 2019, an invited talk and expert lecture on "Legal Protection of Innovations" by Dr. Ahmad Saleh, Partner, Head of Patents & Designs (R&D and Innovations), Al TAMIMI & Co., UAE was held at BPDC for the benefit of students and faculty. The speaker highlighted the significance of legal rights of innovations and procedures to apply for patents.
6. Placement Division, BPDC organized the 3rd Annual BITS Career Fair on March 14, 2019. The fair saw prestigious corporate that put forth various technical and non-technical openings for both the graduating batch and students looking for internships.
7. Prem Dakshin, student of 1st year MBA, BPDC won the Joint Second Prize AED 3500/- in the Graduate Student Category across all disciplines for his topic "FLOWCON: Frustum CAM (FC) based Fluid Flow Control Mechanism" in the 3rd AUE Student Research Competition held during 25-26 March 2019 at the American University in the Emirates, Dubai. Dr. Shashank Khurana, Assistant Professor of Mechanical Engineering was the supervisor.

8. Students from Computer Science Department, Shaleen Bengani (IV CS), Mohammed Shoaib (III CS) and Shruti Arippara Vinodh (IV CS) secured the first place in the 9th Gulf Programming Contest held on 1 April 2019 at Sultan Qaboos University in Muscat, Oman. Solving 9 problems (out of 12) over a grueling five hours, they won the highly competitive contest, which had a total of 55 teams representing 29 universities from various countries in the Gulf including UAE, Qatar, Oman, Saudi Arabia and Kuwait. The students were awarded a trophy and a Huawei P20 Pro phone each for their accomplishment. They were also given the title of Solid Programmers for solving the maximum number of questions in the first attempt. Dr Sujala D.Shetty, Assistant Professor and Head of Computer Science served as the faculty coach for the team.
9. Lalitha Natraj, a third year Computer Science Engineering student, who has a passion for writing and storytelling, has published her novel, 'Diamond Discovery'. It is the second in a series called 'The Imperial Jewels', the first of which, 'Sapphire Search', she wrote and published when she was 16. It is now available at the Kinokuniya stores in Dubai Mall, UAE and through online portals such as amazon.in.
10. On 24 April 2019, BITS Pilani, Dubai Campus was adjudged as having the "Best Technology Program" by Forbes Middle East. The winners from different countries in the Middle East were announced in Forbes Middle East Higher Education Awards 2019 ceremony in Taj Dubai, UAE.
11. Adithya Pradeep Nair, Shivam Mishra, Rishabh Kaushik from Computer Science and Shilpa Sreekumar from Mechanical Engineering received Best Paper Award in the 4th Student Research Colloquium on "Advances in Engineering & IT" AEIT-2019 held at Manipal University, Dubai during 24-25 April 2019. Dr. Shashank Khurana, Assistant Professor of Mechanical Engineering served as the supervisor.
12. Fintech 2.0 Hackathon was organized by Department of Finance, Abu Dhabi during April 25-28, 2019. The Team DoFchain consisting of Prashanth Konda - 3rd year CS, Yatharth Kher - 2nd year CS, Hardik Bhatia - 2nd year CS won the 1st Prize of AED 20,000 for their solution on making the national budgeting process automated while reporting any flaws and secure using Blockchain. The Team TracX consisting of Georgio Sunil - 3rd year CS, Aamir Shakir - 3rd year CS, Abdul Raqeeb - 3rd year CS, Tanvir Singh Ahuja - 2nd year CS won the 2nd Prize of AED 15,000 for their project where they built a Risk Analysis software for budgeting using AI and Blockchain technology.
13. Nine teams from BITS Pilani, Dubai Campus participated and presented their research work in Finals of 7th Undergraduate Research Competition conducted by Abu Dhabi University held on 29 April 2019. Around 300 papers were shortlisted for Finals from a pool of over 900 papers. Students Urvashi Satwani and Amaan Fathima from Chemical Engineering mentored by Dr. Nishant Pandya, Assistant Professor of Chemical Engineering secured prestigious 1st place in Environmental Science section and received prize money of AED 5000.
14. Mantra awards are held every year in all the BITS campuses. These awards were instituted by CEL in 2009, to recognize and reward outstanding students who have demonstrated extraordinary leadership potential and/or entrepreneurial initiative. The following students were the Mantra Award Winners from Dubai Campus for 2018-19. Pranay Addepalli won Outstanding Leadership - Male, Anoushka Pirta won Outstanding Leadership - Female, Navisha Daga won Social Leadership and Tarun Krishna Jayachandran and Mohamed Nawaz Muallim (Team Trift) And Yashodhan Naik (Team Navifly) Jointly Won Entrepreneur of the Year.
15. BPDC students stole the spotlight at the 1st UAE University Blockchain Challenge Finals organized by Heriot Watt University, Dubai Campus in collaboration with Nem.io and Dubai Silicon Oasis Authority on May 2, 2019. The following were the winning teams: 1st Prize of AED 55,000 was won by Team AutoChain consisting of Jaskanwar Singh, Sujith Sizon, Soumil Mittal, Jayant Panwar and Urvashi Satwani and 3rd Prize of AED 18,000 was won by Team SolarGridX consisting of Jaskaran Singh Sethi, Hardik Bhatia, Prashanth Konda and Gourisha Sethi. The competition kicked off in September 2018 and looked for the most promising Blockchain challenge and corresponding solution. Over 200+ teams participated in the competition and over the course of 7 months of application development on the NEM platform, top 6 teams were selected for pitching in the final round on May 2, 2019. Team AutoChain worked out a solution making the second-hand Vehicle Market in the UAE secure using Blockchain, while Team SolarGridX built an Exchange platform for tokenization of Solar Assets as an investment commodity using Blockchain technology.

16. Dr. Shamshad Ahmad Khan was invited as Visiting Research Fellowship in a Japanese Research Institute called Policy Research Institute of the Ministry of Finance, Tokyo, Japan for 3 months from 17 May 2019 to 17 August 2019.
17. MBA student Harish S' Start Up idea was selected for participation in the Silicon Valley Start Up Program'19 which took place during 3-15 June 2019 in Silicon Valley, United States organized by Silicon Valley Forum. His idea was placed among top 12 out of 100 participants
18. Prof. Shazi Shah Jabeen received the Best Paper Award for the research paper entitled 'Corporate Social Responsibility Practices in Small and Medium Enterprises' at 9th Global Conference on Business and Social Sciences, Male, Maldives, 19-20 July 2019.
19. Prof. Shazi Shah Jabeen was appointed as Editorial Board Member of Journal of Management and Marketing Review, 02 August 2019.
20. Prof. Shazi Shah Jabeen was appointed a member of Technical Committee of 5th International Conference on Culture, Languages and Literature organized by IEDRC and co-organized by the Institute of General Education of Ming Chuan University held during 15-17 August 2019, in Ming Chuan University, Taiwan.
21. On August 31, 2019, the "Convocation 2019" ceremony was held in BITS Pilani, Dubai Campus. The occasion was graced by the Chief Guest, Dr Eesa Mohammed Bastaki, President, University of Dubai. At this prestigious event, the degrees were conferred on 443 Graduates who graduated with Ph.D, Higher Degree and First Degree in the following disciplines of engineering, specifically: Chemical Engineering, Electrical and Electronics, Mechanical Engineering, Computer Science, Electronics and Instrumentation, Electronics and Communication, Biotechnology, Design Engineering, Microelectronics, Software Systems and M.B.A. Awards for academic excellence and all-round achievements were given to deserving students. Dr Eesa Mohammed Bastaki, in his address appreciated the management of BITS Pilani, Dubai Campus for understanding the trends of UAE leaders' hard work to enable the rapid evolutionary measurements and expedite the execution of major projects and innovative ideas. Keeping up with the current trends resulted in continuous growth and enhancement of BITS Pilani, Dubai Campus since its inception in the year 2000. He congratulated the graduating batch and encouraged them to participate in innovative activities to support the initiatives of the UAE government to transform UAE into a smart society and contribute to secure sustainable growth for future generations. Dr. Kumar Mangalam Birla, Chancellor, BITS Pilani, in his remote address gave two key messages to the graduating batch: to commit to a lifetime of learning and be a force of change. In this fast-changing world, no degree is sufficient to provide the knowledge and wisdom for a lifetime. Dr. Birla further stated, "the learning curve has turned steeper now, as technology is forcing us to question how we live our lives and how we do our work." Delivering the convocation address, Vice Chancellor, Prof. Souvik Bhattacharyya, congratulated the graduating students and stressed that the alumni is a force multiplier for any academic institute. The Alma Connect database-cum-community portal is a planned initiative to foster alumni relations. He highlighted that BITS Pilani is India's highest ranked non-Government Institute as declared in various reputed world rankings such as QS BRICS, QS Asia, and QS India in 2019. Prof. Dr. R.N. Saha, Director BITS Pilani, Dubai Campus, emphasized this year more than 100 companies participated in the Campus Placement Program. Members of the Senate, Industry Partners, BITS Alumni, Faculty Members and parents of the graduating students were present during the convocation. Ms. Neeraja Padman was awarded Gold Medal, Mr. Usaid Saud Changan was awarded Silver Medal and Mr. Shamith Louis Saldanha was awarded Bronze medal for their excellence in academics. Ms. Shraddha and Mr. Shaleen Bengani were awarded the Director's Medal for All Round Achievement. The convocation ended with Oath by the graduating students.
22. BPDC students stole the spotlight again in the in5 Blockchain Challenge powered by Oracle and Emirates NBD, Dubai and held from September 27- 28, 2019. The team comprising of Mridul Bhandari and Astrid Jerald worked on the idea of Implementing Blockchain in Supply Chain Logistics. They received a cash prize of AED 3,000 and will be part of Oracle's Unique Accelerator Program "Oracle for Startups."
23. Sarthak Sethi won the James Dyson Award UAE Competition. The James Dyson Award is an international design award that celebrates, encourages and inspires the next generation of design engineers. It is open to current and recent design engineering students, and is run by the James Dyson Foundation, James Dyson's charitable trust, as part of its mission to get young people excited about design engineering. Out of hundreds

of entries across the world, project "VisionCap" from BITS secured 2nd position at the JDA UAE competition. Award ceremony for the UAE regional level took place at Youth Hub X, Emirates Towers, Dubai on 30 September 2019. Teams were also interviewed by news channels and major newspapers.

24. Kartikey Rai and Sarthak Sethi won the 2nd prize in the TravelTech ME Innovation Competition. The 3rd Annual Travel Tech ME Congress took place on 8 and 9 October 2019 at The Oberoi Dubai, UAE to exchange ideas, explore the latest developments in the travel industry providing travel professionals the juncture to meet one-to-one to streamline the process of meeting the business objectives on a global platform. The winners will be awarded with a Summer Internship Opportunity at one of the top Online Travel Agencies in UAE.
25. Chemical Engineering students Ms. Urvashi Satwani, Ms. Amaan Fathima, Ms. Jasiya Harris, Ms. Sadhya Gulati, Ms. Shruthi Ravindran and Mr. Allan Barbosa were able to participate with sponsorship in the prestigious Chem-E-Car competition Middle East region which was organized as a part of MEPEC conference in Bahrain by AIChE (American Institute of Chemical Engineers) from 14-16 October 2019. This was the first time that a university from the UAE entered the Chem-E-Car circuit. The BPDC Chem-E-Car team managed to win the most titles among the other teams as they bagged two awards: 1st Place in Poster Competition and Best Video Award. Dr. Eldhose Iype, Assistant Professor of Chemical Engineering served as the mentor for students team.
26. Department of Humanities and Social Sciences conducted a workshop on Research Methods and Data Analysis in Social Sciences on 19 October 2019. The workshop was attended by researchers/professionals from industry, academia and the student fraternity. Conveners of the workshop were Prof. Shazi Shah Jabeen, Dr. Sartaj R. Rather, Dr. Nitin S. Vihari and Dr. Parizad Dungore.
27. BPDC Student Founder Hardik Bhatia of SolarGridX was awarded at biggest Fintech Festival of MENA region on 21-23 October 2019 organized by Abu Dhabi Global Market. FinTech Abu Dhabi welcomed over 5,000+ delegates from over 70 countries in Abu Dhabi. The Fintech Abu Dhabi Awards showcased the very best in global FinTech innovation across ten inspirational categories and Hardik was awarded "Emerging Fintech Talent of the year". The award is an internationally recognized gold standard for excellence in the field of FinTech. SolarGridX team consisting of Hardik Bhatia, Prashanth Konda and Yatharth Kher, tokenizes the ownership of solar panels to be traded as an investment commodity.
28. Neetesh Bhati, Sarthak Sethi and Yatharth Kher participated and secured 1st Position and won cash prize of AED 30000 in "Hack on Health" Hackathon. This event was organized by the Department of Health, Abu Dhabi Government in partnership with Abu Dhabi Digital Authority and IBM on 27 and 27 October 2019. The students made an app "Salama" for the prevention of chronic diseases. This was done in line with the UAE's Artificial Intelligence Strategy.
29. On 7 November 2019, Chimera Association, Department of Biotechnology, BPDC conducted a one day symposium on "Recent Advances and Career Opportunities in Medical Biotechnology". The Speakers were Dr. Sunil Manjarekar, CEO, Sanbok Quality Consultancy, Dubai; Dr. Antony Thomas, Director, Department of Pathology, Premier Diagnostics, Dubai; Dr. Shrikant Charde, Head, Technical Affairs, Neopharma LLC, Dubai; Dr. Hafiz Ahmad, Prof, Dept of Medical Microbiology & Immunology, RAK Medical College.
30. On 15 November 2019, BPDC Cricket Team participated in Balade University Premier League emerged as Runner-Up marginally losing in the final match.
31. Department of Mechanical Engineering, BITS Pilani, Dubai campus invited delegates from academia and industry to be a part of a three-day 2nd International Conference on Recent Advances in Materials and Manufacturing Technologies (IMMT2019) held during 20-21 November 2019. At the Inauguration, a warm welcome was extended to the participants by the Convener, Dr. Vincent Shantha Kumar. Prof. R. N. Saha, Director, BITS Pilani Dubai Campus, addressed the forum with his motivating words, highlighted the importance of bringing together academia and industry, and wished them all great knowledge sharing experience in the workshop. The Chief Guest was then introduced to the forum by Prof. R Karthikeyan (HOD, Mechanical Engineering Department). The inaugural address speech was given by His Excellency Dr. Ali Al Jassim (CEO, Etihad Energy Services, Dubai), followed by the release of the Abstract Book by him. Over the course of 3 days, 6 Speakers of Eminence marked their presence for plenary and keynote talks, together with the presentation of 170 technical papers and 20 posters from a participation of over 200 Delegates of 70

prestigious universities and institutions of USA, Canada, UAE, India, South Africa, Saudi Arabia, Singapore, Egypt, Czech Republic, Finland, and Poland. The inauguration ceremony concluded with a Vote of Thanks given by Conference Convener Dr. Priyank Upadhyaya.

32. On 21 November 2019, Global Innovative School Awards GISA, Dubai, a one day, invitee only global summit rewarding contemporary influencers and educators on the basis of Scale of Impact, Brand Equity & Innovations in Pedagogy was held at BITS Pilani, Dubai Campus.
33. BITS Pilani, Dubai Campus students bagged top honours of Overall Championship of BITS Sports Festival (BSF) 2019 held during 24-28 November 2019. The Chief Guest of Award Ceremony DJ Bravo, former captain of the West Indies cricket team, graced the occasion and distributed the prizes to the winners. Prof. R N Saha, Director, BPDC and Dr. Priti Bajpai, Associate Dean, SWD congratulated the winners of BSF 2019. Dr. M. Rafiuddin, Senior Manager, Sports Division, BPDC organized the BSF 2019 with excellence.
34. First BITS Innovation Competition (BIC 2019) among BPDC students had begun in April 2019. Around 60 innovative proposals were received for 1st BITS Innovation Competition, out of which 23 teams were shortlisted for finals. After the final round of evaluation which was conducted on 2nd week of November 2019, 4 teams were selected for awards. The Award function was held on 16 December 2019. The winners of BIC 2019 were: Winner was Team SolarGridX, consisting of Hardik Bhatia, Gourisha Sethi, Sarthak Sethi, Yatharth Kher which received Prize Amount : AED 10,000; 1st Runner Up was Team WasheX, consisting of Sameeksha Amin, Neeharika Senthilkumar, Clayton Pereira, Aamer Abdul which received Prize Amount : AED 7,000; 2nd Runner Up was Team AI- Based Health Insurance consisting of Jaskanwar Singh, Sujith Sizon, Urvashi Satwani which received Prize Amount : AED 5,000; and 3rd Runner Up was Team Insight consisting of Allan Mathew, Mohammed Suhail, Hrishikesh Uralath, Sanjeev Narasimhan which received Prize Amount: AED 3000. The BITS proud alumnus Mr. M. P. Sharma, Mr. Kesar Kothari, Mr. Ashok Galgotia and Ms. Sandhya Prakash supported in organizing 1st BIC 2019.

B4.1 SENIOR OFFICERS**DIRECTOR**

Prof. Dr. R. N. Saha

1. Dr. KUMAR KARUPPUSAMY, Associate Dean - Academic – Undergraduate Studies
2. Dr. RAMANUJAM KARTHIKEYAN, Associate Dean - Academic - Graduate Studies and Research
3. Dr. RAMACHANDRAN ANAND KUMAR, Associate Dean - Practice School
4. Dr. PRITI BAJPAI – Associate Dean – Student Welfare
5. Mr. AKSHAY CHUTANI, Assistant Registrar.

(Details are given in Annexure B4-1)

B4.2 ADMISSIONS

Admissions were made twice during the year 2019, in January 2019 for the second semester 2018-2019 and in August 2019 for the first semester 2019-2020 (Details are given in Annexure B4-2). The admission summary is given below:

	Integrated First Degree Programmes	Higher Degree Programmes	Doctoral Programmes (Ph.D.)	Total
Second Semester 2018-2019	07(01)	14 (04)*	15 (13)*	36 (18)
First Semester 2019-2020	253(86)	17 (04)	12 (09)	282 (99)

Number of female students is given in brackets.

B4.3 DUAL DEGREES AND TRANSFER

(a) Dual Degree

During the academic year 2018-2019, one student registered for two first degrees under Dual degree Scheme. (See Annexure B4-3).

(b) Transfer

During the academic year 2018-2019, 8 students were permitted to transfer within First degree. (Details are given in Annexure B4-3).

B4.4 ACADEMIC CALENDAR

During the Calendar year 2018, the Second Semester 2017-2018 started on 21.01.2018 and ended on 31.05.2018. The First Semester 2018-2019 started on 28.08.2018 and ended on 31.12.2018. The Second Semester 2017-2018 PS II started on 21.01.2018 and ended on 02.07.2018. The Summer Term 2017-18 started on 03.06.2018 and ended on 30.07.2018. Also PS I started on 03.06.2018 and ended on 30.07.2018. The First Semester 2018-2019 PS II started on 01.08.2018 and will end on 03.01.2019.

	Starting Date	Ending Date	Number of Instruction days
Second Semester 2018-2019	20/01/2019	30/05/2019	81
Summer term 2018-2019	02/06/2019	31/07/2019	41
First Semester 2019-2020	25/08/2019	31/12/2019	77

B4.5 REGISTRATION OF STUDENTS

The registration for the second semester 2018-19 was held on 20th January 2019 and that of the first semester 2019-20 was held on 25th August 2019. In on-campus programmes, 1291(473) students were registered in the first semester 2019-2020. Details of registration for the first semester 2019-2020 are given in Annexure B4-4.

	Number of students registered
Second Semester 2018-2019	1413(534)
Summer Term 2018-2019	297(113)
First Semester 2019-2020	1291(473)

B4.6 ACADEMIC COUNSELING BOARD (ACB)

During the year 2019, the Academic Counseling Board estimated the extent to which students under its purview fell short of the minimum academic performance, drew up a time-frame within which afflictions were to be removed, determined the package of courses for their registration in each semester and laid down the necessary stipulations for achieving intermediate targets. It further monitored their progress and applied necessary mid-course corrections, wherever required. The statistical summary of the number of On-campus students under its purview during the year is given below:

	I Semester 2018- 2019	II Semester 2018- 2019
1. Total number of students under the purview of ACB at the beginning of the semester	83	95
2. No. of students declared out of its purview at the end of the semester	27	22
3. No. of students who left the institute during the semester	00	01
4. No. of students who came under the purview of ACB at the end of the semester	56	72
5. No. of students new students referred to ACB at the end of the semester	39	05
6. Total No. of students under the purview of ACB during the next semester	95	77

B4.6.1 Academic Counseling Cell (ACC)

Academic Counseling Cell (ACC) consisting of faculty and Student Counselors facilitates counseling services for students' who need counseling with prior appointment with a counselor. Counseling services are confidential services to the students. Also if necessary, a Professional Counselor (PC) is arranged.

B4.7 AWARD OF DEGREES AND MEDALS**B4.7.1 Award of Degrees**

During the year 2019, 444 degrees were awarded as given below: Statistical details of these degrees are given in Annexure B4-5, B4-6 and B4-7.

	Number of Degrees Awarded
84 th Award (vide Board of Governors meeting – 27 th Feb 2019)	50(7)
85 th Award (vide Board of Governors meeting – 08 th July 2019)	394(157)
Total	444(164)

B4. 7.2 Award of Medals**(i) Institute Medals for Academic Year 2018-2019**

List of students for award of medals from amongst the students graduated at the end of first semester, second semester 2018-2019 and summer term 2018- 2019.

S.No.	ID.No.	Name	Gender	CGPA Obtained	Position Obtained	Type of Medal Awarded
Integrated First Degree Programmes (No. of students: 412)						
1.	2015A8PS0247U	NEERAJA PADMAN	F	10.00	FIRST	GOLD
2.	2015A3PS0396U	USAID SAUD CHANGAN	M	9.99	SECOND	SILVER
3.	2014A3A40001U	SHAMITH LOUIS SALDANHA	M	9.93	THIRD	BRONZE

(ii) Director's Medals for the Best All Round Achievement

In addition to the Institute Medals, at Dubai Campus Director's medals are awarded to one male and one female student for the best all-round achievement, in every graduating batch. For the 2019 graduating batch, the Director's medals were awarded to the following students:

S.No.	ID. No.	NAME	SEX
1.	2015A7TS0328U	SHALEEN BENGANI	M
2.	2015AAPS0343U	SHRADDHA	F

B4.8 CAMPUS INTERVIEWS AND PLACEMENT

Efforts were made this year to have more and more industries visit the campus for placement interviews. Despite economic slowdown in Dubai, 141 organisations conducted campus interview and made offers to students (Details are given in Annexure B4-8).

Number of companies which conducted campus interviews	141
No. of students interviewed	312
No. of offers made	136

Employed / Higher Studies of Graduates during the Year 2019

Programme	Number Graduated	Students Registered	Employed	Unemployed	Those neither informed nor sought help in placement	Higher Studies
On-Campus Programme						
B.E. (Hons.)						
Chemical	36	11	9	2	25	11
Electrical & Electronics	45	20	16	4	25	3
Mechanical	130	47	33	14	83	14
Computer Science	135	71	53	18	64	21
Electronics & Instrumentation	5	3	2	1	2	1
Biotechnology	30	7	4	3	23	10
Electronics & Communication	31	17	13	4	14	3
M.E Software Systems	4	4	4	0	0	-
M.E Design	5	3	0	3	2	-
MBA	14	1	1	0	13	-
M.E Microelectronics	4	1	1	0	3	-
Total	439	185	136	49	192	63

B4.9 COURSES OFFERED

The number of courses offered during the year 2019 is as follows:

	Number of courses offered
Second Semester 2018- 2019	213
Summer Term 2018 – 2019	05
First Semester 2019 – 2020	226

B4.9.1 Project-oriented Courses

During this year 2018, many students worked on time-bound projects of various types. The information about the projects done and the names of the students who worked on the projects and the names of the instructors are given in Annexure B4-9. A statistical summary is given below:

S.No.	Course No.	Course Title	No. of Students	
			II SEM 2018-19	I SEM 2019-20
1	BIOT F266	STUDY PROJECT	10	7
2	BIOT F366	LABORATORY PROJECT	6	12
3	BIOT F367	LABORATORY PROJECT	4	3
4	BIOT F376	DESIGN PROJECT	6	2
5	BIOT F491	SPECIAL PROJECT	3	1
6	CE F266	STUDY PROJECT	5	6
7	CE F366	LABORATORY PROJECT	-	1
8	CE F376	DESIGN PROJECT	4	4
9	CE F377	DESIGN PROJECT	-	1
10	CE F491	SPECIAL PROJECT	2	-
11	CHE F266	STUDY PROJECT	3	-
12	CHE F366	LABORATORY PROJECT	3	-
13	CHE F367	LABORATORY PROJECT	-	1
14	CHE F376	DESIGN PROJECT	3	4
15	CHE F377	DESIGN PROJECT	2	-
16	CHE F491	SPECIAL PROJECTS	-	2
17	CHEM F266	STUDY PROJECT	9	3
18	CHEM F366	LABORATORY PROJECT	1	3
19	CHEM F367	LABORATORY PROJECT	1	-
20	CHEM F376	DESIGN PROJECT	-	1
21	CS F266	STUDY PROJECT	12	8
22	CS F366	LABORATORY PROJECT	8	6
23	CS F367	LABORATORY PROJECT	-	2
24	CS F376	DESIGN PROJECT	24	28
25	CS F377	DESIGN PROJECT	18	5
26	CS F491	SPECIAL PROJECT	4	1
27	ECE F266	STUDY PROJECT	-	2
28	ECE F366	LABORATORY PROJECT	1	-
29	ECE F376	DESIGN PROJECT	6	11
30	ECE F377	DESIGN PROJECT	2	1
31	EEE F266	STUDY PROJECT	6	4
32	EEE F366	LABORATORY PROJECT	-	1
33	EEE F367	LABORATORY PROJECT	1	-
34	EEE F376	DESIGN PROJECT	12	12
35	EEE F377	DESIGN PROJECT	2	4
36	GS F376	DESIGN PROJECT	1	1
37	GS F491	SPECIAL PROJECT	1	-
38	HSS F266	STUDY PROJECT	12	22
39	INSTR F366	LABORATORY PROJECT	1	-
40	INSTR F367	LABORATORY PROJECT	3	-

S.No.	Course No.	Course Title	No. of Students	
			II SEM 2018-19	I SEM 2019-20
41	INSTR F376	DESIGN PROJECT	-	1
42	MATH F266	STUDY PROJECT	11	4
43	MATH F376	DESIGN PROJECT	9	2
44	MATH F377	DESIGN PROJECT	3	1
45	ME F266	STUDY PROJECT	16	5
46	ME F366	LABORATORY PROJECT	13	13
47	ME F367	LABORATORY PROJECT	5	-
48	ME F376	DESIGN PROJECT	16	11
49	ME F377	DESIGN PROJECT	6	9
50	ME F491	SPECIAL PROJECTS	2	1
51	PHY F266	STUDY PROJECT	5	-
52	PHY F366	LABORATORY PROJECT	-	2
53	PHY F376	DESIGN PROJECT	1	-

B4.9.2 New courses

During the year 2019, the following new courses were offered.

S.No.	Course No.	Course Name	Enrolled
1	BIO F421	ENZYMOLGY	1
2	BIO G525	ENVIRONMENTAL BIOTECHNOLOGY AND WASTE MANAGEMENT	1
3	BITS E573	STUDY IN ADV TOPICS I	1
4	BITS F464	MACHINE LEARNING	54
5	BITS G649	READING COURSE	1
6	CE F320	DESIGN OF RE CONCRETE STRU	10
7	CE F434	ENV IMPACT ASSESSMENT	23
8	CS F320	FOUNDATIONS OF DATA SCIENCE	54
9	EEE G546	SYSTEMS SIMULATION LAB	8
10	EEE G553	UTILITY APP OF POWER ELE	8
11	EEE G593	POWER QUALITY	8
12	GS F211	MOD POLITICAL CONCEPTS	14
13	GS F231	DYN OF SOCIAL CHANGE	13
14	GS F311	INTRO TO CONFLICT MGMT	4
15	PHY F242	QUANTUM MECHANICS I	6

B4.10 INSTITUTIONAL ACTIVITIES

B4.10.1 Convocation 2019

BITS Pilani, Dubai Campus Bids Adieu to the 16th Graduating Batch of Engineers

Amidst great pride and honor, 443 students of the 16th batch of BITS Pilani, Dubai Campus, were awarded Engineering Degrees. The convocation ceremony was conducted in BITS Pilani, Dubai Campus located in the Academic City. The occasion was graced by the Chief Guest, Dr Eesa Mohammed Bastaki, President of University of Dubai.

During this prestigious event, the degrees were conferred on 443 students who graduated with Ph.D, Higher Degree and First Degree in the following disciplines of engineering: Chemical Engineering, Electrical and Electronics, Mechanical Engineering, Computer Science, Electronics and Instrumentation Engineering, Electronics and Communication, Biotechnology, Design Engineering, Microelectronics, Software System and M.B.A. Awards for academic excellence and all-round achievement were given to the deserving students.

Dr Eesa Mohammed Bastaki, in his address appreciated the management of BITS Pilani, Dubai Campus for understanding the trends of UAE leaders' hard work to enable the rapid evolutionary measurements and expedite the execution of major projects and innovative ideas. Keeping up with the current trends resulted in continuous growth and enhancement of BITS Pilani, Dubai Campus since its inception in the year 2000. He congratulated the graduating batch and encouraged them to participate in innovative activities to support the initiatives of the UAE government to transform UAE into a smart society and contribute to secure sustainable growth for future generations.

Dr. Kumar Mangalam Birla, Chancellor, BITS Pilani, in his remote address paid homage to the great visionary and iconic educationist, Shri B.K. Birla, member of the Board of Governors of the Institute, since inception. He stressed that in the legends of BITS' history, his contribution in crafting an enduring legacy will always stand out. He gave two key messages to the graduating batch: to commit to a lifetime of learning and be a force of change as in this fast-changing world, no degree is sufficient to provide the knowledge and wisdom for a lifetime. The learning curve has turned steeper, as progressive technology is forcing us to question how we live and how we work.

Delivering the convocation address, Vice Chancellor, Prof. Souvik Bhattacharyya, congratulated the graduating students and stressed that the alumni is a force multiplier for any academic institute. The Alma Connect database-cum-community portal is a planned initiative to foster alumni relations. He highlighted that BITS Pilani is India's highest ranked non-Government Institute as declared in various reputed world rankings such as QS BRICS, QS Asia, and QS India in 2019.

Prof. Dr. R.N. Saha, Director BITS Pilani, Dubai Campus, emphasized this year more than 100 companies participated in the Campus Placement Program. He further stated that In line with current trends, new minor programmes in "Data Science" have been introduced, in addition to "Finance" "Materials Science Engineering" and Minor in "Entrepreneurship" which will be offered in the next session. The ceremony concluded solemnly leaving the students in mixed emotions as they bid farewell to their Alma mater and step ahead into their glorious future.

B4.10.2 Workshops and Conferences

Following workshops were conducted by various departments during the Academic Year 2018-2019

1. Department of Biotechnology organized International Conference on "Biotechnological innovations in food and health care – (2019)" held at BITS, Pilani, Dubai Campus on 27-28th January 2019.
2. Department of Biotechnology organized workshop on "Synthesis of Liposome and Nanoparticles" held at BITS, Pilani, Dubai Campus on 13-14 April, 2019
3. Department of Biotechnology organized Symposium on 'Recent Advances and Career Opportunities in Medical Biotechnology' held at BITS, Pilani, Dubai Campus on 7th November, 2019
4. Department of Humanities and Social Sciences conducted a workshop on Research Methods and Data Analysis in Social Sciences on 19 October 2019. The workshop was attended by 17 researchers/professionals from industry, academia and the student fraternity. The workshop covered prominent aspects of statistical and econometric data analysis with hands on learning approach and aimed at helping participants sharpen their analytical skills through SPSS, AMOS, Eviews, R and Smart PLS. Conveners of the workshop were Prof. Shazi Shah Jabeen, Dr. Sartaj R. Rather, Dr. Nitin S. Vihari and Dr. Parizad Dungore.
5. Workshop on RISC-V Instruction Set Architecture (ISA) is growing on a global scale. SiFive, the company founded by the inventors of the RISC-V architecture, and BITS Pilani are jointly hosting a RISC-V Tech Workshop on Wednesday, November 6, 2019 at the Dubai campus of BITS Pilani.
6. The Department of Mechanical Engineering at BITS Pilani Dubai Campus organized 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT2019) from 20th-22nd November 2019. More than 200 delegates from different countries including the USA and South Africa presented their research work.
7. As part of IMMT2019, a pre-conference one-day short course on "Recent Developments in Non-Local Material and Structural Models" was conducted by Prof. J. N. Reddy from Texas A&M University, USA ON 19TH November 2019.
8. Department of Chemical Engineering organized a one-day workshop for school students on "Hands-on workshop on water treatment technologies" on 4th May 2019 at BITS Pilani, Dubai Campus.
9. Department of Civil Engineering and Mechanical Engineering organized **Training Session on Engineering Drawing** for Employees of Unilever Gulf Free Zone Est. - March 2019

B4.11 FACULTY PROFILE

There are 99 Faculty/ Academic staffs in BITS Pilani, Dubai Campus at the end of the first semester 2019-2020. Out of these, 79 are Lecturer and above, and 20 are Lab Instructors and Technical Assistants. Out of these 79 teaching faculty, 76 are Ph.D. holders with several years of teaching experience and 3 have appropriate Master's Degrees with several years of teaching experience. There are 1 Senior Professor, 17 Professors, 15 Associate

Professors, 41 Assistant Professors, 3 Lecturers and 2 Visiting Faculty. There is a constant endeavor to add to the strength of the faculty appropriate to the requirements.

During the year, the teacher – student ratio was 1:14. The faculty has been intensely involved in all the facets of BITS, namely, teaching, research, Practice School, educational administration and institutional development.

Some Faculty Statistics

(i)	Percent of teaching staff (Lecturer & above) possessing Ph. D / made good progress towards Ph.D.	96
(ii)	Percent of teaching staff working for Ph.D (only lecturers).	3
(iii)	Percent of teaching staff who participated in Practice School Programme in the year	50

Faculty Development Programme

Technical contributions from faculty and students

There was a total of 147 contributions which include 23 international Journals, 54 in various Conferences and 7 Book Chapters Publications. The complete list of research contributions made by the faculty, staff and students is given in Annexures B4-11 and B4-12.

B4.12 SPECIAL LECTURES, INVITED LECTURES

Number of eminent scholars and distinguished alumni visited the campus and delivered lectures. Details are given in Annexure B4-10

B4.13 INTERNATIONAL / NATIONAL CONFERENCES / WORKSHOPS

Details are given above in **B4.10.2**.

B4.13.1 Invited Lectures/Workshop/Talks by Faculty:

The following faculty participated in Invited Lectures / Workshop /Talks / Panel Discussions / Chairing the session in International Conferences held during the year:

Date	Faculty	Topic
4th November, 2019	Dr. Gulshan Kumar	Residual Stresses in Zirconium
13th Feb 20119 - 16th Feb 2019	Dr. Eldhose Iype	Machine learning models for estimating molecular properties: (A potential alternative to DFT), 16th Theoretical Chemistry Symposium (TCS 2019) as an invited speaker at BITS Pilani, Pilani Campus, India
September 20, 2019	Dr Shazia Hasan	power quality and application in industry in the conference DoT-2019, 4th Industrial Revolution in Power Sector
April10-11, 2019	Dr. Neeru Sood	NANOPARTICLES: NANOFERTILIZERS IN AGRICULTURE, at 5 th International Conference on "Current Trends in Biotechnology, 2019" (CTBT, 2019) Organized by the School of Life Sciences, MAHE Manipal Dubai, UAE
June 17-19, 2019	Dr. Shilpee Srivastava Saxena	Periodic solutions of vector disease model with harvesting term, International conference on Differential Equations and Control Problems: Modelling, Analysis and Computations (ICDECP 19), IIT Mandi, Himachal Pradesh, India.
December 02-07, 2019	Dr. A.Somasundaram	Instructional workshop on omputational Biology and Bioinformatics, Center for Advanced Research in Applied Mathematics and Statistics, Manipal Academy of Higher Education, Manipal, Karnataka and delivered lectures in Interpretation of biological networks using graphical tools.

A consolidated list of BPDC faculty who participated in International and National Workshops, along with the details is given in Annexure B4-11 and B4-12.

B4.14 DEPARTMENT-WISE REPORTS

B4.14.1 Department: Chemical Engineering

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	-
Associate Professors	2
Assistant Professors	2
Lecturers	-
Visiting Faculty	-
Visiting Assistant Professors	-

Head of the Department: Dr. Nishant Pandya

Contact details: nishant@dubai.bits-pilani.ac.in

Number of Ph.D. Scholars: 01

Full Time : -

Part Time : 01

Aspirant Scheme : -

Ph.D. Thesis Submitted during the year 2019:

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
-	-	-	-	-	-

1. SPONSORED RESEARCH AND CONSULTANCY

PROJECTS SANCTIONED

A. Government Sanctioned

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Investigation of salt hydrates for thermal energy storage	Chemical Engineering	Prof. Udo Scheingenschloegl	Dr. Eldhose lype	KAUST super computing lab	No	300,000 cpu hours

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Optimization of Selected High Yield Grass Species for Biomass and Bioenergy Applications Using Saline and Recycled Wastewater	Chemical Engineering	Dr. S. Ramachandran	Dr. Shoaib Ismail, ICBA, Dr. Neeru Sood, BPDC, Dr. Trupti Gokhale, BPDC, Dr. B.G. Prakash Kumar, BPDC, Dr. C. Babu, TNAU, Mr. Khalil Ur Rahman, ICBA	BPDC and ICBA, Dubai	-	AED 245,000
2	Development of Photocatalyst embedded Graphene based membranes for Treatment of Dye containing waste water under sunlight light irradiation	Chemical Engineering	Dr. Narendra Nath Ghosh (Dept of Chemistry, Goa Campus)	Dr. Amrita Chatterjee, Dr. Mainak Bannerjee, Dr. Anirban Roy, Dr. Sharad Sontakke, Dr. Srinivas Krishnaswamy, Dr. B. G. Prakash Kumar, Dr. Eldhose Iype	ABSTCL	-	52.2 Lac

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Bioremediation of Red mud using acidogenic fermentation byproducts and by Biopiling, BITS Pilani Principal Investigator	Chemical Engineering	Dr. Srikanth Mutnuri	Dr.Vivek R, Dr.Saroj Baral, Dr Sharad Sontakke, Dr Anirban Roy, Dr. Bharat B Gulyani, Dr. Nishant Pandya, Dr Neeru Sood, Dr Trupti Gokhale	ABSTCL		71.5 Lac

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborator (if any)	Amount Sanctioned (INR)
1	Nil						

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborator (if any)	Amount Sanctioned (INR)
1	Nil						

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty in Journals**

1. E. Iype, and S. Urolagin. Machine learning model for non-equilibrium structures and energies of simple molecules. *The Journal of Chemical Physics*, 150 (2), 024307. 2019.
2. B Vijayakumar, M Arulmozhi, BG Prakash Kumar, and G Ashwin. Production of activated carbon from mango seed coat using chemical activation. *Journal of Environmental Biology*, 40 (3), 283-290. 2019.
3. Bharat B Gulyani and Nishant Pandya. On the Similarity of Area Targets and Shells Targets in Heat Exchanger Networks. *Journal of Physics: Conference Series*, 176 (1), 012060. 2019.
4. Taqdees Wadekar, K Kumar and B B Gulyani. Experimental Investigation and Simulation of Convective Heat Transfer in a Solar Still. *Journal of Physics: Conference Series*, 1276 (1), 012043. 2019.
5. Panduga Ramaraju, Amol Prakash Pawar, Eldhose Iype, Nisar A. Mir, Sachin Choudhary, Devinder Kumar Sharma, Rajni Kant, and Indresh Kumar. Enantio- and Diastereoselective Two-Pot Synthesis of Isoquinuclidines from Glutaraldehyde and N-Aryl Imines with DFT Calculations. *The Journal of Organic Chemistry*, 84 (19), 12408-12419. 2019.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED**i) National:**

Nil

ii) International:

1. Zaid M. Hassan and Eldhose Iype. Poster presentation: "Using Machine Learning to Estimate molecular properties". 16th Theoretical Chemistry Symposium (TCS 2019) 13th Feb 2019 - 16th Feb 2019, BITS Pilani, Pilani Campus. 2019.
2. Sadhya Gulati and Eldhose Iype. Poster presentation: "Molecular Dynamics Study of Dehydration of Salt Hydrates". 16th Theoretical Chemistry Symposium (TCS 2019) 13th Feb 2019 - 16th Feb 2019, BITS Pilani, Pilani Campus. 2019.
3. J Alamelu Mangai, Bharat B Gulyani, Rashda Khanam. Oral presentation: "A Rotation Forest Algorithm for Predicting BOD in River Water". National Conference on Cognitive Computing- NCCC'19, on 26, 27-April 2019, 2019.
4. Bharat B. Gulyani, Arshia Fathima. Oral presentation: "Series of Optimized Predictive Models for Forecast of Global Wastewater Treatment Plant Performance". 19th Industrial Conference, ICDM 2019 New York, USA, July 17 – July 21, 2019.
5. Sushil Kumar Singh, Saurabh Kumar, Abhishek Kumar, Anuj Jain, B.B. Gulyani. Oral presentation: "Investigation of mechanical properties of graphene nanoplatelet dispersed epoxy composites". 2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT), 20th - 22nd November 2019, Dubai, UAE. 2019.
6. Sadhya Gulati Zainab Tabassum Udo Schwingenschlogl Eldhose Iype. Oral presentation: "Molecular dynamics simulation of dehydration of salt hydrates (MgSO₄.7H₂O and ZnSO₄.7H₂O)". 2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT), 20th - 22nd November 2019, Dubai, UAE. 2019.
7. Allan Barbosa, Priyank Upadhyay and Eldhose Iype. Poster presentation: "Neural network for mechanical property estimation of multilayered laminate composite". 2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT), 20th - 22nd November 2019, Dubai, UAE. 2019.
8. Prakash Kumar B G, Rusal Raj Francis, Aisha Raouf, Ramachandran Subramanian, Suresh Gupta, Geetha Kannan, Thirumavalavan K. Oral presentation: "Torrefied Materials Derived from Waste Vegetable Biomass". 2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT), 20th - 22nd November 2019, Dubai, UAE. 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED Nil**7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT**

1. Department of Chemical Engineering organized a one-day workshop for school students on "Hands-on workshop on water treatment technologies" on 4th May 2019 at BITS Pilani, Dubai Campus.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Dr. Eldhose Iype participated as an invited speaker to deliver a talk on "Machine learning models for estimating molecular properties: (A potential alternative to DFT)", at 16th Theoretical Chemistry Symposium (TCS 2019) 13th Feb 2019 - 16th Feb 2019, BITS Pilani, Pilani Campus.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Mr. Mourad Alexandre, Middle East Sales & Marketing Manager, Fanda Scientific, UAE has delivered an interactive talk on "Analytical Methods of Chemistry" followed by a hands on experiments using the instrument Duetta (Horiba Scientific) to perform fluorescence and absorbance measurements on 17th March 2019.
2. Mr. Alok Srivastava, Technical Director, Enceladus, UAE has delivered an interactive talk on "Recent Trends in Wastewater Treatment Plants" on 12th September 2019.
3. Ms. Twinkal Manish, Al Ghwasa Technical Equipment, UAE has delivered a hands on session on "Pollution Measurement Instrumentation" on 16th October 2019.

10. AWARDS AND RECOGNITIONS**a. Won by Faculty: Nil****b. Won by Students:**

1. Two final year students, Urvashi Satwani and Amaan Fathima under the faculty supervisor Dr. Nishant Pandya have secured prestigious 1st place in Environmental Science section at 7th Undergraduate Research Competition (URC) conducted by Abu Dhabi University. The competition started in January 2019 with approximately 900 entries and out of which 300 entries were selected for the final round of presentation on 29th April 2019.
2. A team of Chemical Engineering students from BITS Pilani, Dubai Campus with faculty supervisor Dr. Eldhose Iype participated in the prestigious Chem-E-Car competition (Middle East region), which was organized as a part of MEPEC conference in Bahrain by AIChE (American Institute of Chemical Engineers) from 14th to 16th October 2019. They received sponsorship of travel and accommodation for four persons. This was the first time that a university from the UAE entered the Chem-E-Car circuit, let alone any of the four BITS Pilani campuses, a remarkable feat accomplished by our chemical engineering department. The BPDC Chem-E-Car team managed to win the most titles among the other teams as they bagged two awards: 1) 1st Place in Poster Competition, 2) Best Video Award.
3. An interdisciplinary team (AI-Based Health Insurance) including a fourth year chemical engineering student, Urvashi Satwani has won 2nd Runner Up position with prize amount AED 5,000 in the 1st BITS Innovation Competition (BIC 2019) organized by BITS Pilani, Dubai Campus. Out of total 60 innovative proposals submitted in the beginning of the year, 23 teams were shortlisted for finals and four teams were selected for awards during the month of November 2019.
4. A final year chemical engineering student, Allan Barbosa along with faculty members Dr. Priyank Upadhyay and Dr. Eldhose Iype have won the best poster award titled "Neural network for mechanical property estimation of multilayered laminate composite" in the 2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT), 20th - 22nd November 2019, Dubai, UAE. 2019.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Visit of a team from BASF Construction Chemicals, Dubai: A team of four persons (Regional Development Managers, Head of Development) from BASF Construction Chemicals visited the Dubai Campus on 27th February 2019 in order to discuss various possibilities of the collaboration, especially in the field of Civil engineering and Chemical Engineering. The following are some of the areas considered for the collaboration: internship program through PS I and PS II, Invited lectures, innovation competition, and consultancy project.
2. Three faculty members of the department visited KHK Scaffolding and Formworks LLC, Ajman to discuss the possible collaboration for research and consultancy.
3. Dr. B G Prakash Kumar visited Galvanized services LLC, Dubai on 17th Sept 2019 to initiate the research collaborations.

12. PATENTS FILED/PUBLISHED AND GRANTED Nil**13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES**

AIChE – BPDC Student Chapter:

1. As part of Enginuity from 5th Feb to 7th Feb 2019, AIChE Student Chapter organised two fun-filled events: 1) Chemiscene, which involved testing all senses: taste, smell and touch, and 2) A Minute to Win it: 5 tasks that should be completed in the least amount of time.
2. AIChE BPDC Student Chapter organized an Internship Panel on 3rd April 2019, where eight students, who have completed their PS II, spoke about their internship experience. It was a very effective panel discussion, and extremely helpful to those who wanted to understand how the PS program works, the series of different job roles Chemical Engineers are given: from Process Safety to Sales of Chemicals and the work environment in the companies. Students obtained valuable advice from their seniors, and overall it was fruitful.
3. As a part of Technofest during 2nd and 3rd October 2019, AIChE BPDC Student chapter planned various fun activities.
4. Process Simulation Workshop using Aspen Plus and HYSYS: AIChE BPDC Student Chapter has organized a one-day workshop for students on Saturday, 19th October 2019. Resource person: Dr. Nishant Pandya.
5. Matlab workshop: AIChE BPDC Student Chapter has organized a one-day workshop for students on Saturday, 2nd November 2019 for students. Resource person: Dr. Eldhose Iype.
6. A fourth-year chemical engineering student, Aisha Raouf organized a demonstration session on the operation of the Tensiometer on 7th November 2019.
7. A Chem-E-Car Info Session was organized by the Chem-E-Car student group on 25th November 2019 for all students of BPDC to spread the awareness interdisciplinary nature of the Chem-E-Car competition and encourage more students to participate in the event next year.
8. Students of Chemical engineering visited a manufacturing plant at Becker Industrial Coatings LLC, Ras Al-Khaimah on 5th December 2109.
9. AIChE board members have been volunteering with the department's school outreach initiatives: helping organizing sessions for school students' visits to the department, assisting professors in related demonstrations and represented in the events in the external events along with the admission department.
10. A final year student, Urvashi Satwani, who had earlier been selected as Regional Liaison for the Middle East of the AIChE's Executive Student Committee (ESC) was appointed as the Chair of the Sister-chapter subcommittee. The sister chapter program of the AIChE involves the pairing of a US-based AIChE Student Chapter with an International Student Chapter. Urvashi was responsible for overseeing this entire initiative, over a network of 30+ pairs from around the world. Later two more students, Jasiya Harris and Meenakshi Sivaramakrishnan were chosen to be Regional Liaisons of the Middle East.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	Thermal Gravimetric Analyzer (TGA), make Shimadzu, Japan	1
2.	Differential Scanning Calorimeter (DSC), make Shimadzu, Japan	1
3.	Membrane filtration unit (modular unit with option for ultra, micro, nano – filtration)	1
4.	High temperature fluidized bed reactor	1
5.	Ebulliometer (operation under vacuum)	1

B4.14.2 Department: Civil EngineeringNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	1
Associate Professors	0
Assistant Professors	4
Lecturers	1
Visiting Faculty	0
Visiting Assistant Professors	0

Head of the Department: Tewfik Mahdi

Contact details: tewfik@dubai.bits-pilani.ac.in

Number of Ph.D. Scholars: 4

Full Time : 4

Part Time : 0

Aspirant Scheme : 0

Ph.D. Thesis Submitted during the year 2019:

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
-	-	-	-	-	-

1.SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Condition assessment of raw mill Foundation	Civil Engineering	Dr. Vivek	Dr Sridhar Prof Ram Karthikeyan	Star Cements, Dubai	-	501558.75

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty In Journals**

- G. Sridhar., M. Raheena., R. G. Robinson (2019). Simplified Apparatus for CRS Consolidation Testing of Soils., GEOTECHNICAL TESTING JOURNAL [INTERNATIONAL, Vol: 42(3)1: 817-828.
- Charde M, Gupta R, Vemuri A, Kheterpal A, Bhati S, Passive Solar Design for Energy Efficiency in Buildings in Composite Climate, Journal of Physics: Conference Series, IOP Publishing, 1276, 012080, 2019.
- Saif Eddin Jabari, Nikolaos M. Freris, and Deepthi Mary Dilip. (2019) "Sparse travel time estimation from streaming data." Transportation Science (To Appear).
- Saif Eddin Jabari, Deepthi Mary Dilip, Dianchao Lin, & Bilal T. Thodi, (2019). Learning Traffic Flow Dynamics Using Random Fields. IEEE Access, 7, 130566-130577.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National: Nil

ii) International: Nil

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED Nil

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

- Department of Civil Engineering and Mechanical Engineering organized **Training Session on Engineering Drawing** for Employees of Unilever Gulf Free Zone Est. - March 2019

8. INVITED TALKS GIVEN BY BITS FACULTY Nil

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Mr Hemant Gor, Senior Engineer (Civil and Structures) interacted with 2nd and 3rd year students and gave a talk on “Long Span Concrete Structures” on April 7, 2019
2. A Site Visit was organized to Construction Site of Bellevue Tower, Residential Building by Dubai Properties (contractors, Shapoorji Pallonji Middleeast LLC) at Burj Khalifa Boulevard, Dubai on April 30, 2019
3. A Site Visit was organized to CAD/CAM controlled Precast Concrete Plant of Emirates Filigran LLC, Ras AL Khaimah, UAE on November 2, 2019.

10. AWARDS AND RECOGNITIONS**a. Won by Faculty:**

1. Dr. Meghana Charde was invited as an External Jury Member for Architecture Design Studio 9 at College of Architecture and Design, Al Ghurair University, Dubai on December 5, 2019

b. Won by Students: Nil**11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION: Nil****12. PATENTS FILED/PUBLISHED AND GRANTED Nil****13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES Nil****14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED**

S.No.	Software/Equipment	No. of Licenses or Qty.
-	-	-

B4.14.3 Department: Electrical & Electronics EngineeringNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	03
Associate Professors	03
Assistant Professors	07
Lecturers	00
Visiting Faculty	00
Visiting Assistant Professors	00

Head of the Department : Dr Vilas Haridas Gaidhane**Contact details:** Department of Electrical and Electronics Engineering, BITS Pilani Dubai Campus.**Number of Ph.D. Scholars: 12****Full Time : 09****Part Time : 02****Aspirant Scheme : 01****Ph.D. Thesis Submitted during the year 2019:**

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
-	-	-	-	-	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Harnessing and Management of energy through innovative mobility services	EEE	EEE Students	-	Expo Live	-	AED 50000
2	Zirpot	EEE	EEE Students	-	Expo Live	-	AED 50000

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Design and Development of Closed Loop Control System to improve the Process Capability of Incremental Sheet Metal Forming	ME+EEE	Prof R Karthikeyan	Dr Vilas Gaidhane Dr Kalaichelvi	-	-	AED 90000

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty In Journals**

- Vilas H Gaidhane, Nand Kumar., Ravi Kant Mittal., V Rajevelceltha, (2019), "An efficient approach for cement strength prediction", International Journal of Computers and Applications, pp.1-11, doi.org/10.1080/1206212X.2019.1673288.
- Vilas H Gaidhane A. Mir and V. Goyal, (2019), "Energy harvesting from far field RF signals", International Journal of RF and Microwave Computer-Aided Engineering, Vol. 29-, no. 5, pp. e.21612.
- Praveen Kumar Reddy Yelampalli., Jagadish Nayak., Vilas H Gaidhane, (2019), "A novel binary feature descriptor to discriminate normal and abnormal chest CT images using dissimilarity measures", Pattern Analysis and Applications, Vol. 22 -, no. 4, pp. 1517–1526.
- Nand Kumar, Vilas H Gaidhane, Ravi Kant Mittal, (2019) "Cloud-based electricity consumption analysis using neural network," International Journal of Computer Applications in Technology, Vol. 26, No. 1, pp. 45-56.
- Abdul Rajak, Vilas H Gaidhane, Aaron D`costa, (2019) "Design and Implementation of a Network Security Chip with Improved Compression Approach" vol. 12, no. 6, pp. 1-10.
- Avani Kirit Mehta., Swarnalatha Rajaguru (2019), "Design of PID Controller using Internal Model Control Based Lambda Tuning for an Industrial Blending Process", Journal Of Engineering And Applied Science, Vol. 14, no. 5, pp.1486-1492
- Swarnalatha Rajaguru., Vishal Naranje (2019), "Design of Tracking System for Prefabricated Building Components using RFID Technology and CAD Model", Procedia Manufacturing, Vol. 32, pp.928-935.
- Neelesh Kumar., Abhishek Mahajan., Swarnalatha Rajaguru., Kashif Sherwani (2019), "LabVIEW Based Monitoring and Rehabilitation Module for Freezing of Gait in Parkinson Disease", Journal of Medical Engineering and Technology, Vol. -, no. -, pp.1-8.
- Adhir Baran Chattopadhyay., Shazia Hasan., Sunil Thomas (2019), "Parameter based non-linearity in a state variable model of a practical system: A case study", Journal Of Mechanics Of Continua And Mathematical Sciences, Vol. 14, no. 3, pp.135-149.
- Indraneel Patil, B K Rout, V Kalaichelvi, (2019), "Prediction of Bottleneck Points for Manipulation Planning in Cluttered Environment using a 3D Convolutional Neural Network", ARXIV.ORG, pp.1-7.
- Thirunavukkarasu A., Amrouch H., Joe J., Goel N., Parihar N., Mishra S., Dabhi C.K., Chauhan Y.S., Henkel J., Mahapatra S. (2019), "Device to Circuit Framework for Activity-Dependent NBTI Aging in Digital Circuits", IEEE Transactions on Electron Devices, Vol. 66, no. 1, pp.316-323.
- Raja Muthalagu., Subeen Jain (2019), "A novel modified KASUMI block cipher for global system for mobile communications", International Journal of Computers and Applications, Vol. -, no. -, pp.1-8.
- Utsav., Gomathi Bhavani Rajagopalan (2019), "2-D Terrain Chart Mapping for a Navigation Robot using Tactile Sensor for System Modelling", Journal of Engineering and Applied Science, Vol. 14, no. 19, pp.7187-7192.
- Swarnalatha Rajaguru., Amrin Jameel Shanaz., Neelesh Kumar (2019), "Design of an Insole using Force Sensing Resistors for Gait Analysis and Validation using Zebris FDM System", Journal of Engineering and Applied Sciences, Vol. 15, no. 2, pp.430-436.

15. VimalRaj S., Suresh Kumar G., Thomas S., Kannan N. (2019), "MATLAB/SIMULINK based simulations on state of charge on battery for electrical vehicles", *Journal of Green Engineering*, Vol. 9, no. 2, pp.255-269.
16. Sunil Thomas., Nithiyananthan Kannan., Aliakbar Eski (2019), "Investigations on Transient Behavior of an Energy Conservation Chopper Fed DC Series Motor Subjected to a Change in Duty Cycle", *Journal of Green Engineering*, Vol. 9, no. 1, pp.92-111.
17. Kalaichelvi Venkatesan., Abhishek Mungekar., Karthikeyan Ramanujam., Jason Savio Lourence (2019), "Intelligent Control Approach for Fluid Power Transmission of a Wind Turbine System", *Journal of Physics: Conference Series*, Vol. 1276, no. 1, pp.012001.
18. Adhir Baran Chattopadhyay., Julia Tholath Jose (2019), "Modeling of the magnetizing phenomena of doubly fed induction generator using neuro-fuzzy algorithm considering non-linearity", *International Journal of Electrical and Computer Engineering*, Vol. 9, no. 1, pp.23-33.
19. Belinda Sharon Bright., Swarnalatha Rajaguru (2019), "Performance Evaluation of Two Degree of Freedom Conventional Controller adopting the Smith Principle for First Order Process with Dead Time", *International Journal of Electrical and Computer Engineering*, Vol. 9, no. 4, pp.3002-3014.
20. G Sureshkumaar., Nithiyananthan Kannan., Sunil Thomas (2019), "MATLAB/SIMULINK based simulations of KY converter for PV panels powered led lighting system", *International Journal of Power Electronics and Drive Systems*, Vol. 10, no. 4, pp.1885-1893.
21. Arivarasi A., Anand Kumar (2019), "DFT Investigation of Bi (100) and Au (111) for Heavy Metal Ion Adsorption and Selective Comparison for Water Quality Sensing Electrodes", *International Journal of Simulation: Systems, Science and Technology*, Vol. 19, no. 6, pp.59-59.
22. Sureshkumaar G., Kannan N., Thomas S., Karthikeyan S.P. (2019), "Matlab/simulink simulations based modified sepic DC to DC converter for renewable energy applications", *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 11, no. 4, pp.285-295.
23. Dasari Sai Krishna Kishore., Raja Muthalagu (2019), "MATLAB Simulation of Configurable Digital Hearing Aid System with Noise Reduction Filter", *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 11, no. 4, pp.37-42
24. Raja Muthalagu (2019), "A Novel Nonlinear and Non-iterative Precoding Technique for Single and Multi User MIMO Systems", *Wireless Personal Communications*, Vol. 80, no. 3, pp.1-17.
25. A R Abdul Rajak., Shazia Hasan., Bushra Mahmood (2019), "Automatic Waste Detection by Deep Learning and Disposal System Design", *Journal of Environmental Engineering and Science*, doi.org/10.1680/jenes.19.00023.

Conference Publications:

1. Nadeem Khalid Mohammad, Vishal Naranje, Vilas H Gaidhane, (2019), "Prediction of Best Weld Quality Using Artificial Neural Network" IEEE International Conference on Artificial Intelligence (AICAI)-2019, pp. 213-217.
2. Thomas T.G. (2019), "Information transmission analysis of the effects of synthetic stop consonant duration modification on speech perception", 2019 3rd International Conference on Communications, Signal Processing, and their Applications, ICCSPA 2019, pp. 1-7.
3. Krishna G., Mary Lourde R., Jerome K. (2019), "Nanobots for biomedical applications", *ACM International Conference Proceeding Series*, pp.270-279
4. Vrushali Patil., Indraneel Patil., Kalaichelvi Venkatesan., Ramanujam Karthikeyan (2019), "Extraction of Weld Seam in 3D Point Clouds for Real Time Welding Using 5 DOF Robotic Arm", 5th International Conference on Control, Automation and Robotics (ICCAR), Vol., no., pp.727-733
5. Chaudhari S.P., Shaik J.B., Singhal S., Goel N. (2019), "Correlation of dynamic and static metrics of SRAM cell under time-zero variability and after NBTI degradation", *Proceedings - 2018 IEEE 4th International Symposium on Smart Electronic Systems*, iSES 2018, pp.90-93
6. Dev Gupta., Navneet Gupta (2019), "Investigations on Infrared (IR) Sensitive Material for Microbolometer Using Material Selection Approaches", 2018 IEEE Electron Devices Kolkata Conference (EDKCON), pp.349-353

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Prof. TG Thomas, Dr Abdul Rajak, Dr Kalaichelvi, Dr Vilas Gaidhane, Dr, Shazia Hasan and Dr. Sunil Thomas attended a conference DoT-2019, 4th Industrial Revolution in Power Sector, September 20, 2019, Dubai, UAE.

- Dr Vilas Gaidhane and Dr Abdul Rajak attended a conference on "Future of Learning- an event by EdNex and the Government of Canada on November 24, 2019, Sunday, Dubai, UAE

ii) International:

- Dr Vilas Gaidhane attended a Faculty Development Program on Digital Control of Power Electronic Converter for Drives & Energy System (July 15 to 19, 2019) Sponsored by TEQIP-III under Twinning Program, Department of Electrical Engineering Visvesvaraya National Institute of Technology, Nagpur, India
- Dr. Abdul Rajak presented a paper on "Design and Analysis of High-Speed Phase Locked Loop in 180nm Technology", at Industrial Electronics Mechatronics Electrical & Mechanical Power (IEMPOWER - 2019), organized by Institute of Engineering & Management, Kolkata, to be held at S. N. Bose National Centre for Basic Sciences during 21st-23rd November, 2019

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED **NIL**

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT **NIL**

8. INVITED TALKS GIVEN BY BITS FACULTY

- Dr Shazia Hasan delivered a talk on power quality and application in industry in the conference DoT-2019, 4th Industrial Revolution in Power Sector, September 20, 2019, Dubai, UAE

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

- Dr Raj Singh**, superannuated Director (Acting), CSIR-CEERI, Pilani, delivered a guest lecture on Recent advances in VLSI design and interacted with the faculty members and PhD students on August 27, 2019.
- Dr Saroj Rout, BITS Alumni**, interacted with faculty members and Higher Degree students and shared his thoughts about growing technology in VLSI design and applications on September 29, 2019.
- Dr Subhash Chandra Bose**, Ex-Senior Scientist, CSIR-CEERI, Pilani, and Advisor (Academics) at IIT Jodhpur delivered a guest lecture on topic "Man, Machine and Market" and interacted with the faculty members and PhD students on October 31, 2019.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

- Dr. Thoppil George Thomas, Department of EEE, BITS Pilani-Dubai Campus received the Institution of Electronics and Telecommunication Engineers (India) IETE- Prof. K. Sreenivasan Memorial Award (2019) in recognition of his outstanding teaching practices and video lessons in communication systems for the benefit of students & teachers' community of electronics and communication engineering. He received the award from Padma Shri Dr. Y. S. Rajan, Distinguished Professor and Scientist of ISRO at the 62 nd Annual Convention of the IETE held at the Dr. Ram Manohar Lohia Avadh University in Ayodhya on 28 th Sep 2019.
- Dr Vilas Gaidhane works as Technical committee member for 3rd International conference on Material and Intelligent manufacturing, ICMIM 2019, conducted at Inchion, South Korea during August 19-21, 2019.
- Dr Vilas Gaidhane working as a Technical committee member for 4th International Conference on Materials and Intelligent Manufacturing (ICMIM 2020) and 3rd International Conference on Nano Science and Technology (ICNST 2020), which will be held in Osaka, Japan during August 18-20, 2020.

b. Won by Students:

- Two of the graduating students (Mr. Sarthak Sethi and Karan Gupta) Awarded at 1st prize at Hack on Health AI Hackathon in Abu Dhabi, also awarded a cash prize of AED 30,000.
- One of the students** Mr. Sarthak Sethi was awarded 2nd prize at James Dyson Award UAE 2019 for project VisionCap.
- One of the students** Mr. Sarthak Sethi was awarded 2nd prize at TravelTech MiddleEast 2019 for project Smart Baggage Reclaim Kiosk.
- One of the students** Mr. Sarthak Sethi was awarded at Startup Expo Abu Dhabi 2019 for project Smart Unmanned Retail Units / Micromarkets (IoLetics).

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION: **NIL**

12. PATENTS FILED/PUBLISHED AND GRANTED **NIL**

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

IEEE Student Chapter:

- IEEE organised a Pitching Competition on October 3, 2019 where students could come up with any idea, from educational field, scientific areas to even something that can be used to improve our daily lives. The contestants gave a short talk along with a presentation or prototype (depending on their choice of topic), and

expressed it to the panel of judges- Dr. Anand Kumar and Dr. Nitin, who then chose the best idea. The judges had a tough choice to make as around 20 enthusiastic participants turned up for the competition.

- IEEE organized a workshop on October 6, 2019 on Arduino which included an introductory presentation followed by hands-on learning. This workshop was delivered by Mr. Sarthak Sethi. The attendees were also provided with a short manual which included 8 projects based on Arduino, some of which were implemented in the session and some which could be used for further practice.

IFOR Association:

- Team presented (30 Jan to 9 Feb, 2019) Parking Fee Enforcement drone at innovator 2019. A completely autonomous drone coupled with Neural network-based license plate detection using YOLO; Targeting the law enforcement department of Abu Dhabi. Innovator proved to be a very good experience and gave good reviews on project, how we can improve further. It reviewed by the Department of Transport, Abu Dhabi who were working on a similar project. They commented that this neural net-based detection is faster than their traditional detection systems. Also reviewed by Monitoring and Control Center Abu Dhabi and were highly appreciated.
- IFOR team students (27 March 2019) have demonstrated the basic concepts of UAV's and were given hands on experiments which involved building a basic drone using LEGO, which help them visualize and easily understand concepts in a user friendly, safe and responsible way.
- Presented a project "Skeye" at Show'n'Tech 2019, In5 Tech On June 8th 2019.
- Team IFOR students have participated in the BIC competition held at BITS Pilani, Dubai Campus and they were in the selection list of Final Competition held on November 9 2019 but not won the prize. (submitted and went up to final round, but didn't win the Prize)

AOEE Association:

- AOEE had organized a **Technical Competition** called **Defuse the bomb as a part of Enginuity** during 5th & 6th February 2019 with 60 participants.
- AOEE had organized a **Technical Competition** called **MindSpark** as a part of Enginuity from 6th to 7th February 2019 with 70 participants.
- AOEE had organised a **Site Visit to Grid Solutions** on 7th March, 2019.
- AOEE had organized a **Technical Competition** called **SPINOID** on 3rd October 2019
- AOEE had organized a **Fun cum Technical Competition** called **Volted- In** on 5th Dec 2019.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	UDOO X86 II ULTRA microprocessor Kit for IoT	15
2.	DSP Trainer Kit TMS3206748	15
3.	WiFi USB Microscope Digital Camera 1000X Magnification	1
4.	Analog Modulations Trainer EMDA/A	2
5.	Digital Modulations Trainer EMDA/D	2
6.	EDIBON Data Acquisition System	2
7.	Satellite Communication Trainer Kit	1
8.	Digital Oscilloscope	4
9.	Radar Trainer	1
10.	Lenovo Computers	6
11.	Mentor Graphics	25
12.	Robotic Arm Manipulator	1
13.	Control Trainer (XPO-PID)	1
14.	Process Simulator Panel -CE1	1
15.	SDK for MATLAB	1
16.	Electrical & Electronics System Trainer - XPO-CT	1
17.	Humidity and Temperature Sensors Kit	1
18.	Instrumentation Amplifier	1
19.	MiPower Software	5
20.	SCR Kit	1
21.	Single phase Fully controlled Thyristorized rectifier module	1
22.	CST microwave studio Software	1

B4.14.4 Department: Mechanical Engineering

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	3
Associate Professors	1
Assistant Professors	6
Lecturers	0
Visiting Faculty	0
Visiting Assistant Professors	0

Head of the Department: R KARTHIKEYAN

Contact details: rkarthikeyan@dubai.bits-pilani.ac.in

Number of Ph.D. Scholars:

Full Time : 1

Part Time : 9

Aspirant Scheme : 1

Ph.D. Thesis Submitted during the year 2019:

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	NANDAKUMAR P	2013PHXF012U	Characterization of Viking Tool Steel for Press Tools for Heavy duty Blanking & Forming Components for HV Switchgear Industry	KARTHIKEYAN R	-

1. SPONSORED RESEARCH AND CONSULTANCY

PROJECTS SANCTIONED

A. Government Sanctioned

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co- Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Solar refrigerator for RAMADAN	Mechanical Engg. + Electrical Engg.	Dr. Snehaunshu Chowdhury	Dr. Naveen Shrivastava (ME) Dr. NileshGoe (EE) Dr. GomathiBhavani (EE)	Schneider Electric	Mr. MoustafaNour , Schneider electric	\$15000 (In kind)

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Design and Development of Direct Methanol Fuel Cell with Effective Species Management Technique	Mechanical Engineering	Dr. Naveen Shrivastava	-	RIG	-	20,000 AED
2	Incremental sheet forming	Mechanical Engineering	Dr R Karthikeyan	DrKalaichelvi & Dr Vilas, EEE	Seed Grant	-	90,000 AED
3	Bio tribological corrosion	Mechanical Engineering	Dr Vincent	Dr R Karthikeyan	Seed Grant	-	90,000 AED

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Condition Assessment Of Foundation Of Vertical Grinding Mil	CIVIL & MECHANICAL	Dr Vivek	Dr Sridhar & Dr R Karthikeyan	STAR Cement LLC, RAK, UAE	-	5,00,000

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

1. Sundar K., Udayakumar R. (2019), "Potential of cotton seed oil and rice bran oil as a renewable energy source in India", International Journal of Mechanical Engineering and Technology, Vol. 10, no. 2, pp.198-212.
2. Miller Jothi., Redae Haimanot., Udaya Kumar (2019), "Investigation on Pressure Drop of Fluid-Solid Mixture Flow through Pipes Using CFD and SK Model", Journal of Applied Mathematics and Physics, Vol. 7, no. 1, pp.218-232
3. Ramanujam Karthikeyan., Vishweshwar S., Kesar M K., Nikitha R., Udayakumar Rajamanickam (2019), "Embedding IoT Systems for a Fluid Powered Cable Pulling Winch", International Journal of Control and Automation, Vol. -, no. -, pp.1-12
4. Shahidirfan., Udayakumar Rajamanickam (2019), "VULNERABILITIES OF CAN BUS & AUTOMOBILE SECURITY", International Journal of Control and Automation, Vol. 12, no. 5, pp.13-24
5. Adithya Nair., Yogesh Prabhu., Jasmitha Mendonca., W.H. Ryu., E.S. Park., Jatin Bhatt., Vincent Shantha Kumar (2019), "An experimental case study on corrosion characterization of Cu46Zr40Ti8.5Al5.5 metallic glass", Journal of Non-Crystalline Solids, Vol. 524, no. , pp.119654-
6. Cherish Mani., Ramanujam Karthikeyan., Sathish Kannan (2019), "Electrochemical Impedance Analysis on Cryogenically Treated Dissimilar Metal Welding of 316L Stainless Steel and Monel 400 Alloy Using GTAW", Metals, Vol. 9, no. 10, pp.-
7. Rohan Kapdi., Naveen Kumar Shrivastava (2019), "Design and Performance Analysis of Cross flow & Force Draft Cooling Towers", International Journal of Engineering Research and Technology, Vol. 8, no. 7, pp.396-403
8. Pande R., Kalamkar V., Tiwari A., Sharma S., Shrivastava N. (2019), "A mathematical modeling of two-pot biomass cookstove", Journal of Physics: Conference Series, Vol. 1276, no. 1
9. Sai Vijay Venkatesh., Udayakumar Rajamanickam (2019), "Performance and emissions of SI engine with additives", Journal of Physics: Conference Series, Vol. 1276, no. 1
10. Mukesh Singh Tomar., Shashank Khurana (2019), "Investigation of road tunnel fires: challenges and findings", Journal of Physics: Conference Series, Vol. 1276, no. 1, 012065
11. Shashank Khurana., Samreen Khan (2019), "Experimental Investigation on Shape Dependence for Flow past Shallow Cavities", Journal of Physics: Conference Series, Vol. 1276, no. 1, 012002.
12. Udayakumar Rajamanickam., Periasamy Chinnapalaniandi., M C Subin, Ram Karthikeyan (2019), "Design and testing of autonomous irrigation controllers in commercial green houses to control the water consumption", Journal of Physics: Conference Series, Vol. 1276, no. 1
13. Mukesh Singh Tomar and Shashank Khurana (2019), "Numerical simulation of road tunnel fires involving heavy goods vehicle with solid fuels", Journal of Physics: Conference Series, Vol. 1276, no. 1, 012063
14. K Sundar, Udayakumar Rajamanickam, Periasamy Chinnapalaniandi, and Shashank Khurana, (2019), "Cotton Seed Oil and Rice Bran Oil as a Source of Biodiesel in India", Journal of Physics: Conference Series, Vol. 1276, no. 1, 012086
15. Udayakumar Rajamanickam., Pankaj Solanki (2019), "Efficiency of Vortex Tubes in spot cooling", Journal of Physics: Conference Series, Vol. 1276, no. 1
16. Vishweshwar Samba., Ram Karthikeyan., Kesar Mal Kothari., Udayakumar Rajamanickam (2019), "Modelling and evolution of designing the hydraulic circuit for a cable pulling winch machine", Journal of Physics: Conference Series, Vol. 1276, no. 1
17. Vincent Shantha Kumar., Pranay Addepalli (2019), "Computational Fluid Dynamic Analysis on Green Building Materials", Journal of Physics: Conference Series, Vol. 1276, no. 1
18. Udayakumar Rajamanickam., K Sundar (2019), "Performance and emissions characteristics of a variable compression ratio engine operated on dual fuel mode using diesel and biodiesel with additives", Journal of Physics: Conference Series, Vol. 1276, no. 1

19. Naveen K. Shrivastava, Abheek Chatterjee, Tequila A. L. Harris. Effect of Cell Compression on the Performance of a Non-hot Pressed MEA for PEMFC. International Journal of Energy Research (2019) Accepted, In-press.
20. MukeshTomar and Shashank Khurana (2019), "Impact of Passive Fire Protection on Heat Release Rates in Road Tunnel Fire: A Review", Tunelling and Underground Space Technology Journal, Vol. 85, Page 149-159
21. ArijitLodh, Prita Pant, Gulshan Kumar, K. V. Mani Krishna, RaghvendraTewari, Indradev Samajdar, "Orientation-dependent solid solution strengthening in zirconium: a nanoindentation study", Journal of Materials Science, 2019. <https://doi.org/10.1007/s10853-019-04280-3>.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

Nil

ii) International:

1. Mukesh Tomar and Shashank Khurana (2019), "A Numerical Study on the Influence of Different Tunnel Lining Insulation Materials in a Road Tunnel Fire", 2nd International Conference on Recent Advances in Materials and Manufacturing Technology, 20th-22nd November 2019, Dubai, U.A.E.
2. Prem Dakshin and Shashank Khurana (2019), "Frustum CAM (FC) Mechanism: Achieving Differentiating Feed in Continuous Production Machines of Non-similar Parts", 2nd International Conference on Recent Advances in Materials and Manufacturing Technologies, 20th-22nd November 2019, Dubai, U.A.E
3. Pervaiz S., Kannan S., Ram K., Samad W.A. (2019), "Numerical modeling of Charpy impact test to determine the fracture characteristics of aluminium alloy 6061", Conference Proceedings of the Society for Experimental Mechanics Series, Vol. Part F4, no. -, pp.85-88
4. BITS, Sreekrishnan Venkateswaran., Santonu Sarkar (2019), "Time-Sensitive Provisioning of Bare Metal Compute as a Cloud Service", 2019 IEEE 12th International Conference on Cloud Computing (CLOUD), Vol. , no. , pp.447-451
5. Udayakumar Rajamanickam., Hana Aslam Shaikh (2019), "Computational analysis of Anti icing system of an aircraft wing", 3rd International conference on Electronics, Communication and Aerospace Technology (ICECA), Vol. , no. , pp.1110-1114
6. Mohammed Ibrahim., Udayakumar Rajamanickam (2019), "Design analysis of Landing gear system of an aircraft", 3rd International conference on Electronics, Communication and Aerospace Technology (ICECA), Vol. , no. , pp.1326-1330
7. Vrushali Patil, Indraneel Patil, Kalaichelvi Venkatesan, Ramanujam Karthikeyan (2019), "Extraction of Weld Seam in 3D Point Clouds for Real Time Welding Using 5 DOF Robotic Arm", 5th International Conference on Control, Automation and Robotics (ICCAR), Vol. , no. , pp.727-733
8. Rohit Kumar, Gulshan Kumar, Arshpreet Singh, "An Assessment of Residual Stresses and Micro-Structure during Single Point Incremental Forming of Commercially Pure Titanium Used in Biomedical Applications", 2nd International Conference on Recent Advances in Materials and Manufacturing Technologies, 20th-22nd November 2019, Dubai, U.A.E.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Kaustubh P. Kothekar, Naveen K. Shrivastava, Shashikant B. Thombre. Gas Diffusion Layers for Direct Methanol Fuel Cells. Direct Methanol Fuel Cell Technology (2020), In-press, Elsevier.
2. R.Udayakumar and Vivek Shah "performance and emission characteristics of Bio-Diesel from Rapeseed and Soybean in CI Engine", Chapter No20, Smart Innovation, Systems and Technologies, Intelligent Manufacturing and Energy Sustainability, Springer Publications (2020), in press.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

i) National:

Nil

ii) International:

1. The Department of Mechanical Engineering at BITS Pilani Dubai Campus organized 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT2019) from 20th-22nd November 2019. More than 200 delegates from different countries including the USA and South Africa presented their research work.
2. As part of IMMT2019, a pre-conference one-day short course on "Recent Developments in Non-Local Material and Structural Models" was conducted by Prof. J. N. Reddy from Texas A&M University, USA ON 19TH November 2019.

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Dr. Gulshan Kumar gave a Guest Lecture on "Residual Stresses in Zirconium" at Department of Mechanical Engineering, Manav Rachna University, Faridabad (Haryana) on 4th November, 2019.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. On 13th June 2019, Dept. of Mechanical Engineering, BPDC organized an invited talk on "Smart Composite" by Prof. Arockiarajan, IIT Madras, India.
2. On 24th October 2019, Department of Mechanical Engineering, BPDC, organized guest lecture on "Robotics in Surgery - The Future" by Dr. Kamran Ahmed, Surgical and Gastrointestinal Oncologist Director and Partner Oncology Care Associates Saifee Hospital, Fortis Hospital, Mumbai, India.
3. On 18th November 2019, Dept. of Mechanical Engineering, BPDC organized an invited talk on "CO2 transcritical refrigeration system for very high temperature ambient" by Prof. MS Dasgupta, HOD, Mechanical Engineering, Pilani campus, India.
4. On 16th February 2019, Creative lab, BPDC is organized an interactive 3D printing workshop on "Making Jewelry Using 3D Printer" at In5-tech, Dubai Design District, Dubai. The workshop was taught step by step process in designing a jewelry and using 3D printer. The uniqueness about the workshop was to create a moveable object without manual assembly.
5. On 2nd April 2019, Dept. of Mechanical Engineering, BPDC organized a Guest Lecture on "Surface Engineering of Automotive Components-Piston Rings" by Dr. N. Gowrishankar, Director, Materials Research Group, India Piston Ltd.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty: Nil

b. Won by Students:

1. Prem Dakshin, student of 1st year MBA, BPDC won the Joint Second Prize AED 3500/- in 3rd AUE Student Research Competition held from 25th-26th March 2019, at the American University in the Emirates, Dubai, in the Graduate Student Category across all disciplines for his topic "FLOWCON: Frustum CAM (FC) based Fluid Flow Control Mechanism". Dr. Shashank Khurana, Faculty, Mechanical Department, BPDC served as the supervisor.
2. Adithya Pradeep Nair, Shivam Mishra, Rishabh Kaushik from Computer Science Engineering and Shilpa Sreekumar from Mechanical Engineering, BPDC were awarded BEST PAPER AWARD, in respective categories, at the 4th Student Research Colloquium on "Advances in Engineering & IT" AEIT-2019 held at Manipal University, Dubai on 24th and 25th of April 2019. Dr. Shashank Khurana, Faculty, Mechanical Engineering, BPDC served as the supervisor for students' papers.
3. Mantra awards are held every year in all the BITS campuses these awards were instituted by CEL, in 2009, to recognize and reward outstanding students who have demonstrated extraordinary leadership potential and/or entrepreneurial initiative. The following students are the Mantra Award Winners from Dubai Campus for 2018-19. PRANAY ADDEPALLI won Outstanding Leadership- Male, and TARUN KRISHNA JAYACHANDRAN and MOHAMED NAWAZ MUALLIM (Team Trift) and YASHODHAN NAIK (Team Navify) jointly won Entrepreneur of The Year.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Dr. Vincent Shantha Kumar carried out research work at NUS Singapore under University Immersion Program for 2 months between June-July 2019 and established collaboration with Prof. Manoj Gupta, NUS.
2. Dr. Naveen Shrivastava worked for 8 weeks (6th June – 31st July 2019) at CSIR-National Environmental Engineering Research Institute (NEERI)-Nagpur, India, under Industry Immersion Program of BITS-Pilani.

12. PATENTS FILED/PUBLISHED AND GRANTED

1. P.A. no. 201911016252, A Load Simulator for Testing Winch Machine, India, BITS Pilani, VISHWA SAMBA, KESAR KOTHARI, UDAYA KUMAR, KARTHIKEYAN is filed on 17.5.2019,

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

ASME

1. Prof MVN Sankaram, attended regional meeting AME/ImechE 2019 held in Salt Lake City, USA during 8-14, November, 2019.
2. BPD student section organized ME-XPLODE a technical event as part of Egnuity, an Inter-College tech fest. There was a healthy participation of 14 teams which consisted of 2 teams from Heriot Watt University, 4 teams from Victoria University and 8 teams from hosting campus BITS Pilani. The competition had 3 rounds and cumulative total of three rounds was considered to decide the winner.

MEA

1. Organized invited lectures by Dr Kamran, Prof Das Gupta and DrGowrishankar. In collaboration with Indkarta (a startup based company in Masdar City with an aim to achieve sustainability and to spread awareness on green practices), ASME BPD student section participated in construction of bio-dome which was a one-week activity.
2. Part-time technical internship opportunities were negotiated for students of BITS campus with Future Engineering non-profit associations located in UAE.
3. Membership drive was conducted in the first week of September, the freshmen and the senior year students were informed and registered as ASME student members.
4. Established relationship with EWB.
5. Organizing synergy, an intra-college sports, fun events organized by American Society of Mechanical Engineers, BITS Pilani Student Section over a span of five days. Synergy is best known for its twisted and unconventional rules in common sports like badminton, throwball, table tennis, volleyball, carrom and chess. It is one of the most awaited events at BPDC. This year more than 200 students took part in the event. It started on 6th October 2019. The prize distribution ceremony was held on 23rd October 2019. Football was the new addition to Synergy in the 6th edition.

SAE:

Listed below are the events conducted by BITS Motorsports in the year 2019:

1. Analysed the Black Hawks chassis and devised methods to remodel it [April]
2. Worked on suspension models [May]
3. Conducted interviews for fresher's and recruited 35 students [September first week]
4. Started market research and looked up sponsorship opportunities [Mid-September]
5. Started surveying cost of parts and materials and their suppliers [October]
6. Held a CAD workshop to train freshers on designing an aerofoil [Technofest, in association with MEA]
7. Technofest: Held an event named pit stop challenge from SAE, BPD

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	CNC router	1
2.	SLS 3d Printer	1
3.	SHIMADZU 100 kN dynamic testing machine	1
4	VCR Petrol Engine	1
5	Centrifugal compressor test rig	1

B4.14.5. Department: Computer ScienceNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	2
Associate Professors	Nil
Assistant Professors	7
Lecturers	2
Visiting Faculty	Nil
Visiting Assistant Professors	1

Head of the Department: **Dr. Sujala D. Shetty**

Contact details: sujala@dubai.bits-pilani.ac.in

Number of Ph.D. Scholars: **9**Full Time : **6**Part Time : **2**Aspirant Scheme : **Nil**

Ph.D. Thesis Submitted during the year 2019 :

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	NAND KUMAR	2011PHXF0001U	Some Aspects of Cloud Computing and its Applications in Data Analysis	Prof.R.K.Mittal	-
2	PRASEETHA V. M.	2013PHXF0005U	Efficient Techniques for Biometric Identification and Security Aspects	Prof.S. Vadivel	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty in Journals**

1. Raja Muthalagu, Subeen Jain International Journal of Computers and Applications, Taylor & Francis, Online first DOI: 10.1080/1206212X.2019.1619988, pp.1-7.
2. Raja Muthalagu, Wireless Personal Communications, Springer, Vol. 106, no.4, pp.2359-2373.
3. Raja Muthalagu, Kishore, Journal of Advanced Research in Dynamical and Control Systems, Vol.11, no.4, pp. 37-42.
4. Raja Muthalagu, Subeen Jain, Iran Journal of Computer Science, Springer, Vol 2, no.1, pp.33-40.
5. K. Sasikumar B. Vijaykumar, An Efficient Multi-Objective Model for Data Replication in Cloud Computing Environment International Journal of Enterprise Information Systems (IJEIS), Volume: 16, Issue: 1. Article :4, Pages :23, December 18, D019, DOI: 10.4018/IJEIS.2020010104, pp. 69-91
6. Lalitha Natraj, Sujala D. Shetty. International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-12, pp.5378-5383

7. V.M. Praseetha., Saad Bayezed., S. Vadivel, "Secure Fingerprint Authentication Using Deep Learning and Minutiae Verification" Journal of Intelligent Systems, Published Online: 2019-07-24 | DOI: <https://doi.org/10.1515/jisys-2018-0271>.
8. Shaleen Bengani, S. Vadivel and Angel Arul Jothi, "Efficient Music Auto-Tagging with Convolutional Neural Networks", JOURNAL OF COMPUTER SCIENCE [INTERNATIONAL], Vol. 15, no. 8, pp.1203-1208.
9. V.M. Praseetha., S. Vadivel, "Enrolment and Matching of Fingerprints using Minutiae Tree", Journal of Computer Science [International], Vol. 15, no. 3, pp.357-371.
10. Ankita Rane; S,Vadivel, "Implementation of Improved Ship-Iceberg Classifier Using Deep Learning", Journal of Intelligent Systems, Published Online: 2019-04-10 | DOI: <https://doi.org/10.1515/jisys-2018-0289>.
11. Eldhose lype, Siddhaling Urolagin, Machine learning model for non- equilibrium structures and energies of simple molecules, The Journal of chemical physics, vol. 150(2), Pages 024307, January 2019.
12. Alina Zaidi, Siddhaling Urolagin, Worldwide Gross Revenue Prediction for Bollywood Movies using Hybrid Ensemble Model, Int. J. of Business Intelligence and Data Mining, 10.1504/IJBIDM.2019.10019858, January 2019.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Sasikuamr K Vijaykumar B, An efficient replica management based disaster recover using Elephant Herding Optimization Algorithm, 2nd International Conference on Computer Networks and Inventive Communication Technologies [ICCNCT 2019], PaperID : ICCNCT-122, May 23-24, 2019,Coimbatore India.

ii) International:

1. Parth Poply, Sujala D. Shetty, Urbanised Real-time Parking Detection System using Deep Learning", Parth Poply, Sujala D. Shetty, ACM 3rd International Conference on Computer Science and Artificial Intelligence, December 6-8, 2019 in Beijing, China.
2. Saugaat Allabadi, Sujala D. Shetty, Leveraging Blockchain for Identity Management and Recruitment Sector, International conference on Technology, Innovation and Sustainability in Business Management (ICTIS 2019), Middlesex University Dubai on 2 May 2019.
3. S. Jeyalatha, B. Vijayakumar, Web Usage Mining Algorithm for an Academic Search Application, International Conference on Computational Intelligence and Knowledge Economy, ICCIKE 2019, PaperID: ICCIKE-100, 11-12 Dec. 2019, AMITY University, Dubai, UAE.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

NIL

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

1. SiFive, the company founded by the inventors of the RISC-V architecture, and BITS Pilani jointly hosted a RISC-V Tech Workshop on Wednesday, November 6, 2019 at the Dubai campus of BITS Pilani on Wednesday, November 6, 2019 between 1:00 p.m. - 3:30 p.m.

8. INVITED TALKS GIVEN BY BITS FACULTY

NIL

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

1. Invited talk on "How to land your dream job" by Sallyann Della Casa. Sallyann started her own Foundation and Tech Company, became a lawyer at the age of 21, is a published author and her foundation has made difference in the lives of 25,000 youths and counting. Sallyann is a graduate from Harvard. Talk was conducted by Microsoft Tech Club.Date: 31st January 2019.
2. Invited talk by Prof S.R. Subramanya, National University San Diego, California Topic: Complex Algorithms in Real Life Applications.Date: 6-2-19.
3. CS Department and ACM are excited to have the Founder and CEO of Gath3r Mr Raghav Reggie Jerath coming to share his interest in the field of webmining and cryptocurrency. They are looking to offer internship openings for students interested in blockchain and cryptocurrency. Mr Raghav holds a BBA in Project Management from U.K. Date: 2/4/2019.
4. Colonel Ajay Arora gave a talk on "Communication and Risk Management in Corporate Environment", Date : 15/4/19,Colonel Ajay Arora of Indian Army and after serving for 20+ years took Pre mature Retirement in 2012. He has seven years of Corporate experience having served with Persistent Systems Ltd (as Deputy General manager IT Operations) and now with Infosys Limited (as Senior Project Manager).
5. Faculty of the Computer Science Department interacted with Ms. Jenni Jones AWS Academy Program Manager, AWS Training & Certification from London, United Kingdom and deliberated on collaborating on AWS Academy. Date: April 16th 2019

6. A talk on IBM AI and High-Performance Computing by Mr Ganesan Narayanasamy. Mr Ganesan is Senior Technical Computing Solution and Client Care Manager at IBM, Poughkeepsie, New York. Date: 1st May 2019.
7. CS Department invites you to a guest lecture by Prof.Sanjay Kumar Singh from IIT(BHU) Topic: " Application of Machine Learning in Data Science", Date: 15th September 2019.
8. Talk by Mr Anirban Lahiri, Director of Technology, Arndit Ltd.Cambridge. Anirban has more than 15 years of experience in developing advanced technology in the Computing Industry spanning over 3 continents (US, Europe and Asia) including 7 countries. Fellow, at the University of Texas, Austin and Stanford University. Date: 17th November 2019.
9. Talk by Dr. Sahid Cholayil, Dr. Sahid Cholayil is a Visionary & Founder of "Mission 3G" (IIT Madras Research Park), humanitarian educationist, serial entrepreneur and a strong advocate of "technological singularity"."Artificial Intelligence, Future Job, Career & Entrepreneurship". Date: 19th November 2019
10. Talk by Prof Phalguni Gupta, IIT Kharagpur, Currently, he is the Director of National Institute of Technical Teachers' Training and Research, Kolkata Topic: Challenges in Biometric System Development, Date: 28th November 2019.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

NIL

b. Won by Students:

- 1) 1st UAE University Blockchain Challenge Finals organised by Heriot Watt University in collaboration with Nem.io and Dubai Silicon Oasis Authority on May 2nd 2019.The following were the winning teams:
 - a) 1st Prize - AED 55,000 - Team AutoChain
 - i) Jaskanwar Singh - 3rd year CS
 - ii) Sujith Sizon - 3rd year CS
 - iii) Soumil Mittal - 3rd year CS
 - iv) Jayant Panwar -3rd year CS
 - v) Urvashi Satwani - 3rd year Chemical
 - b) 3rd Prize - AED 15,000 - Team SolarGridX
 - i) Jaskaran Singh Sethi- 1st year Chemical
 - ii) Hardik Bhatia - 2nd year CS
 - iii) Prashanth Konda - 3rd year CS
 - iv) Gourisha Sethi- 2nd year CS
- 2) "Hack on Health" Hackathon was organized by the Department of Health, Abu Dhabi Government in partnership with Abu Dhabi Digital Authority and IBM. Three students from our university - **Neetesh Bhati** (C.S. III Year), **Sarthak Sethi** (E.C. E. III Year), and **Yatharth Kher** (C.S. III Year) participated and secured **1st Position**. They received a cash prize of **AED 30,000**. They made an app "Salama" for the prevention of chronic diseases. This was done in line with the UAE's Artificial Intelligence Strategy in October 2019.
- 3) Fintech Festival of MENA region. On 21-23 October 2019, organised by Abu Dhabi Global Market, FinTech Abu Dhabi welcomed over 5,000+ delegates from over 70 countries in Abu Dhabi. The Fintech Abu Dhabi Awards showcased the very best in global FinTech innovation across ten inspirational categories and Mr Hardik Bhatia IIIrd CS was awarded "**Emerging Fintech Talent of the year**". The award is an internationally recognised gold standard for excellence in the field of FinTech.SolarGridX team consisting of Hardik Bhatia (3rd year CS), Prashanth Konda (4th Year CS) and Yatharth Kher (3rd Year CS), tokenizes the ownership of solar panels to be traded as an investment commodity.
- 4) Three Computer Science students, **Shaleen Bengani** (IV CS), **Mohammed Shoaib** (III CS) and **Shruti Arippara Vinodh** (IV CS) secured first place in the **9th Gulf Programming Contest** held on 1st April 2019 at Sultan Qaboos University in Muscat, Oman. Dr Sujala D.Shetty served as the faculty coach for the team.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION:

NIL

12. PATENTS FILED/PUBLISHED AND GRANTED

NIL

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

ACM

Cache Me Outside was a programming contest held during Enginuity, the university's technical fest. The contest was hosted on HackerRank. The contestants had to solve programming problems of varying difficulties. The top 3 teams won cash prizes worth AED 150. Event attendance was around 15. [February 2019]

Capture The Flag competition held during Enginuity, the university's technical fest. Participants had to break into vulnerable systems to obtain a secret code, the flag. Winners were given cash prizes worth AED 300. Event attendance was around 20. [February 2019]

A Science and Technology quiz alongside Flummoxed, the quiz club during Enginuity. The quiz consisted of a preliminary round and a final round with 6 teams. The winners walked away with cash prizes worth AED 300. Event attendance was 60. [February 2019]

A two hour introductory workshop on Blockchain where the principles behind blockchain technology and built a blockchain based web application were explained. Event attendance was around 50. [February 2019]

BPDC ACM organised a hub for Google Hash Code 2019 where students could work on the programming challenge together. The participants were also provided with food, drinks, tech tattoos and ACM merchandise. Event attendance was around 25. [February 2019]

The membership team of ACM set up a stall during the freshmen orientation to interact with the incoming batch and encourage them to join ACM. This not only increased exposure of our club, but also gave a chance to make a positive impression on the new students and their parents who were present on the registration day. Event Attendance was over 40. [August 2019]

The 1st and 2nd year Computer Science students were apprised about ACM and its activities during the Computer Programming tutorials, Probability and Statistics lectures and Object-Oriented Programming Systems Lab respectively. Event Attendance was over 40. [August 2019]

In the No Mouse Challenge, participants were given various tasks to perform on an operating system of their choice (Windows/Linux). These tasks were performed without a mouse. They were evaluated on the total points scored from performing said tasks in the shortest amount of time. Winners received a free ACM Membership. Event Attendance was around 20. [September 2019]

An introductory session of 10-weeks long regarding Coding Bootcamp was organised. Attendees learned Command Line Interface, Git & GitHub, Python Basics, Web Scraping, Competitive Programming, Machine Learning, Web Development. Various projects were built using the knowledge on each topic. Event Attendance: 80 students. [September 2019].

A semester long iOS workshop series was organised where participants learnt concepts of CoreML, iOS app development, etc.

ome and get to know one of the most exciting & happening associations here at BPDC. ACM BPDC invites everyone for its orientation. So what's happening? Get to know what ACM is and how we work. Meet our enthusiastic council members. They can't wait to introduce themselves! Test your problem solving skills with some fun games. Can't wait to meet you. Event Attendance: 50 [September 2019]

Android Dev Session – Makeup:

A Makeup session was conducted by the Vice Chair on March 14th. The same topics were covered as well as additional help was offered to students facing issues running the code. The Event saw the participation of 10 students across different years.

Android Development Workshop for High School Students:

On 28th March ACM-W mentored school students to develop their own Android App. The workshop was conducted by Shaik Sabiha, Chair. Grade 9-11 students built a Cookie Clicker App which taught them basics of Android development. The workshop encouraged students to develop interest in building apps. Refreshments and snacks were also provided to the students. The event was attended by 40 students who had come to visit BITS Dubai Campus.

A Deep Dive Into Power BI : A Collab Workshop with MTC:

"A Deep Dive into Power BI" was conducted on 2nd April where students got an opportunity to explore the basic and advanced features offered. They learnt about using Azure's Text Analytics services and generated a Word Cloud for their project. Participants were provided with certificates given to them by Microsoft Student Partners. The event was attended by 30 students

Mentorship Drive:

Mentorship Drive provided the opportunity for the members to ask seniors in ACM-W regarding their experiences and learn about various opportunities to get involved into. It served as a good closing interaction with the members. The mentors were our Chair, Vice Chair and Treasurer. Mentorship Signups: 3

Opportunity Posts:

Throughout the semester opportunities such as competitions, fellowships, internships on Whatsapp and Instagram were posted for Members. This had given them the opportunity to apply for various events in different field including development, design events, and more. Posts Shared: 20+

Web Development Mentorship:

The Web Development mentorship program was an initiative carried out by the W Council to help guide students regarding the web development field by providing them a real world project to work on. They were shortlisted on the basis of projects undertaken previously via the CV's shared. Through the course of September - December, the 4 Shortlisted Students worked on various pages for the ACM - W Standalone website and successfully delivered results. The mentorship concluded Dec 12th. Certificates were awarded to the participants. Applicants for Mentorship: 10 Shortlisted Mentees: 4

Data Science Workshop:

A five week workshop carried out by ACM-W that dealt with helping students learn and apply different Data Science Techniques on different datasets. The program covered the following topics: Introduction to Python and Python Libraries, Data Pre-Processing, Data Clustering, Classification with Support Vector Machines and Classification with Regression. Session 0 was on Introduction to Python held on 16 September 2019. Session 1 was on Python Libraries held 9 October 2019. Session 2 was about Data Pre-Processing on 16 October 2019. Session 3 was an extension to the previous session with information on data Clustering conducted on 23 October 2019. Session 4 was held on Data Classification on 13 November 2019. The final session was on Data Classification conducted on 20 November 2019.

Microsoft Tech Club

The year 2019 was started off with a seminar on Career Development in January by Ms. Sallyann Della Casa. This seminar was attended by 30 students. For Enginuity which was held from 5th February to 6th February, we had conducted two events – Codeblitz, a code debugging challenge and Frynapse, a virtual scavenger hunt. There were about 40 students who took part in both the events. On 7th March, AI Play – an AI Gaming event was conducted in collaboration with Microsoft Student Partners and ACM. This event was attended by 60 students. On 30th March, Inquizzitive – a sci-fi quiz competition was organised. around 40 students joined for this event. In April, Technobuzz - a series of workshops in collaboration with Microsoft Student Partners and some of our Alumni (Naman Kamra, Pradheepan) was organized. Workshops covered various topic in CS industry such as cloud computing, blockchain, data science etc. Each of these workshops was attended by around 35 students. On 4th April, seminar by FAME Academy about Microsoft Office Specialist Certification was organised. This seminar introduced the students to MOS Certification as well as guided them on its process. This seminar was attended by 30 students. For the first time during Jashn, club organized a Treasure Hunt. Over 60 students participated in this event and it was a huge success. On 15th September, the club orientation was conducted. It was attended by 30 students. On 16th September, a tech quiz was organized in which over 30 students had participated. On 22nd & 23rd September, two-day typing challenge was organized, in which over 110 students had participated.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	Adobe Creative Cloud	5
2.	Enterprise Architect 14	20
3.	Netsim Academic Version NetSim Academic Version 11.1	70
4.	Multimedia Syatems, Virtual Reality and Augmented Reality	1
5.	Mathematica Desktop	2

B4.14.6 Department: BiotechnologyNumber of faculty members (as on 31st December 2019)

Senior Professors, Professors	03
Associate Professors	02
Assistant Professors	03
Lecturers	-
Visiting Faculty	-
Visiting Assistant Professors	-

Head of the Department : Dr. D. Jalaluddin Shariff

Contact details : djshariff@dubai.bits-pilani.ac.in

Number of Ph.D. Scholars: 07

Full Time : 06

Part Time : 01

Aspirant Scheme : -

Ph.D. Thesis Submitted during the year 2019:

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
-	-	-	-	-	-

1. SPONSORED RESEARCH AND CONSULTANCY**PROJECTS SANCTIONED****A. Government Sanctioned**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	AIG/ACRG	Collaborater (if any)	Amount Sanctioned (INR)
1	Optimization of Selected High Yield Grass Species for Biomass and Bioenergy Applications Using Saline and Recycled Wastewater	Biotechnology	Dr. S. Ramachandran	Dr. Khalil Ammar, Dr. Dionysia Angeliki Lyra, (ICBA); Dr. C. Babu, (TNAU); Dr. Neeru Sood, Dr. Trupti Gokhale, Dr. B.G. Prakash Kumar, (BPDC).	-	International Center for Biosaline Agriculture (ICBA), Dubai	46Lakhs (BPDC: AED: 120,000; ICBA: AED: 125,000)
2	A metabolomics approach to explore the health benefits of <i>Salicornia bigelovii</i> exposed to different degrees of salinity stress	Biotechnology	Dr. Mainak Dutta	-	RIG	-	AED 20,000/-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
1	Bioremediation of Red Mud using acidogenic fermentation by products and by bio-piling Duration (June 2018 to June 2019)	Biotechnology	Dr M Srikanth (GOA Campus)	Dr Neeru Sood, Dr Trupti Swarup Gokhale	ABSTCPL	BB Gulyani & Dr Nishant Pandya	3.66 Lakhs (for Dubai Campus)

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

1. Khalil Ur Rahman, Mohamed Khalifa Bin Thaleth, George Mathew Kutty, Ramachandran Subramanian (2019) Pilot scale cultivation and production of *Vanilla planifolia* in the United Arab Emirates. *Bulgarian Journal of Agricultural Science*, 25(6), 1143–1150
2. Rajeswari S., Sood, N., Swarup, G. T., Ramachandran S (2019) Assessing salt-stress tolerance in barley, *Universitas Scientiarum*, Vol. 24, 91-109.
3. Khalil Ur Rahman, Shoaib Ismail and Ramachandran Subramanian (2019) Sustainable nutrient management under marginal environmental conditions for biomass production. *Eco. Env. & Cons.* 25, S163-S169
4. S. Rajeswari, A. Somasundaram, Nishrin Abdul Gafoor, Trupti Gokhale Swarup, Neeru Sood and S.Arumugam (2019) A computational approach to identify the role of potassium transporter in barley. *AKCE, International Journal of Graphs and Combinatorics*, 318-325
5. Bidkar, A. P., Sanpui, P., Ghosh, S. S. (2019). Combination Therapy with MAPK-Pathway-Specific Inhibitor and Folic-Acid-Receptor-Targeted Selenium Nanoparticles Induces Synergistic Antiproliferative Response in BRAF Mutant Cancer Cells. *ACS Biomaterials Science & Engineering*, 5(5), 2222-2234.
6. Karak, Swagata, Das, S, Biswas, M, Choudhury, A, Dutta, M, Chaudhury, K, De, B (2019). Phytochemical composition, β -glucuronidase inhibition, and antioxidant properties of two fractions of Piper beetle leaf aqueous extract. *Journal of Food Biochemistry*, 43:e13048
7. Dutta, M, Cai, J, Gui, W, Patterson, A (2019). A review of analytical platforms for accurate bile acid measurement. *Analytical and Bioanalytical Chemistry*, 411(19): 4541-4549
8. Wegelius, A., Khanna, N., Emsieu, C., Barone, G.D., Pinto., F., Tamagnini, P., Lindblad, P., Berggren, G (2018) Generation of a functional, semisynthetic [FeFe]-hydrogenase in a photosynthetic microorganism. *Energy and Environmental Science*, 11, 3163-3167
9. Sarah Junaid, Namita Khanna, Peter Lindbald & Mehboob Ahmed. 2019. Multifacet Biofuel Production by Microalgal isolates from Pakistan. *Biofuels, Bioproducts & Biorefining*, 1-15
10. Bizzari S., Raihan S., Dawood Jalaluddin Shariff (2019) Comments on the latest meta-analysis of CAPN10 polymorphism associations with polycystic ovary syndrome. *Gene* 717 (2019) 144006.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National:

1. Neeru Sood attended a session "Breaking down barriers in Mental Health" held on Thursday 26 September 2019 at Dubai Science Park organized by Advance Health, UAE, an advance health networking initiative
2. D J Shariff and S Ramachandran participated in the EdEx MENA 2019 seminar held on 18 - 19 November 2019 at The Ritz-Carlton, Dubai International Financial Centre, Dubai, United Arab Emirates

ii) International:

1. Dali Vilma Francis, Neeru Sood and Trupti Gokhale. Nano-therapeutics: A Review on Nano-Metals in Therapeutics. International Conference on Biotechnological innovations in food and Health care (BIFHC 2019), Dubai, UAE, 27-28 January 2019.
2. Fatemah Bensaheb, Dali Vilma Francis, Debashish Chitnis, Namisha Bohara, Neeru Sood and Trupti Gokhale. Antifungal Properties of Biosynthesized Metal Nanoparticles. International Conference on Biotechnological innovations in food and Health care (BIFHC 2019), Dubai, UAE, 27-28 January 2019.
3. S Rajeswari, Trupti Gokhale and Neeru Sood. Assessment of Salinity Stress Tolerance in Barley *Hordeum vulgare* L for Cultivation in Arid and Semiarid Regions. International Conference on Biotechnological innovations in food and Health care (BIFHC 2019), Dubai, UAE, 27-28 January 2019.
4. Akshayaa Sridhar, Rajeswari Somasundaram, Trupti Gokhale, Namita Khanna & Neeru Sood. Isolation and Characterization of Microbes Associated with Root Nodules of *Acacia* and their Application as Biofertilizer in Saline Soils of UAE. International Conference on Biotechnological innovations in food and Health care (BIFHC 2019), Dubai, UAE, 27-28 January 2019.
5. Debashish S. Chitnis, Namisha R. Bohara, Trupti Gokhale. Synthesis, Characterization, and Applications of Biologically Synthesized Metal Nanoparticles. International Conference on Biotechnological innovations in food and Health care (BIFHC 2019), Dubai, UAE, 27-28 January 2019.
6. Neeharika Senthilkumar & Neeru Sood. Innovations, Intentions and Integrity: The CRISPR Episode. International Conference on Biotechnological innovations in food and Health care (BIFHC 2019), Dubai, UAE, 27-28 January 2019.

7. Ramachandran Subramanian, Neeru Sood, Dionyssia Angeliki Lyra, Trupti Gokhale, Khalil Ammar, Prakash Kumar B G. Pennisetum purpureum (Napier grass) varieties for Animal Fodder Production, Gulf Forum on Innovations in Marginal Environments, Nov. 20-21, 2019, Al Habtoor Polo Resort, Dubai, UAE.
8. Shivani B K D, Ramachandran S, Prakash Kumar B G, Dionyssia Angeliki Lyra, Production of Lyocell Fibers from Non-Wood Sources. Current Trends in Biotechnology-CTBT 2018, April 10-11, 2019, Manipal Academy of Higher Education, Dubai Campus.
9. Chirag Ghag, Dionysia Angeliki Lyra, Ramachandran S, Mainak Dutta. Fatty acid analysis of *Salicornia bigelovi* germplasm exposed to different degrees of salinity stress. 7th Undergraduate Research Competition, Abu Dhabi University, Abu Dhabi, UAE, 29th April 2019 (Oral presentation)
10. Shaunak V Potdar, Philip Smith, Andrew Patterson, Mainak Dutta. Metabolomics Analysis of Urine From Mice Induced With Peritoneal Inflammation. Biotechnological Innovations in Food and Health Care 2019, Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019 (Oral presentation)
11. Samantha Ferrao, Jemima Francis, Mainak Dutta. Health benefits of *Salicornia* spp. Biotechnological Innovations in Food and Health Care 2019, Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019 (Poster presentation)
12. Chirag Ghag, Dionysia Angeliki Lyra, Ramachandran S, Mainak Dutta. Fatty acid analysis of *Salicornia bigelovii* exposed to different degrees of salinity stress. Biotechnological Innovations in Food and Health Care 2019, Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019 (Poster presentation)
13. Rubitha Souresh, Rajeshwari S, D J Shariff, Namita Khanna. Biofactories for Isobutanol Production using Kitchen and Agricultural Waste. Biotechnological Innovations in Food and Health Care 2019, Birla Institute of Technology & Science, Pilani, Dubai Campus, 27-28 January 2019
14. Safiya Aafreen , Vasudharini Venkataramanm, Namita Khanna. Embiopteran Silk Patch – a novel drug delivery route. Biotechnological Innovations in Food and Health Care 2019, Birla Institute of Technology & Science, Pilani, Dubai Campus, 27-28 January 2019.
15. Akshayaa Sridhar, Rajeswari Somasundaram, Trupti Gokhale, Namita Khanna & Neeru Sood. Isolation and Characterization of Microbes Associated with Root Nodules of *Acacia* and their Application as Biofertilizer in Saline Soils of UAE. International Conference on Biotechnological innovations in food and Health care (BIFHC 2019), Dubai, UAE, 27-28 January 2019.
16. Gitanjali Nair, Andrea Varghese¹, D.J. Shariff. A study on the degree of awareness regarding diabetes in Indian expats residing in UAE., Biotechnological Innovations in Food and Health Care 2019, Birla Institute of Technology & Science, Pilani, Dubai Campus, 27-28 January 2019
17. Syed Razaa Ali, Zainab Fatima Juddy, D.J. Shariff. Estimation of Mineral Content Present in Detox Water from a Variety of Fruits and Vegetables and its Correlation with Human Health, Biotechnological Innovations in Food and Health Care 2019, Birla Institute of Technology & Science, Pilani, Dubai Campus, 27-28 January 2019
18. Akanksha Pulin Parikh, Rubitha Souresh, Sharon Elsa Oommen, D.J.Shariff. Ramachandran S. Applications of *Salicornia* in food and pharmaceutical biotechnology, Biotechnological Innovations in Food and Health Care 2019, Birla Institute of Technology & Science, Pilani, Dubai Campus, 27-28 January 2019

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Lyra, D. A., Al-Shihi, R. M. S., Nuqui, R., Robertson, S. M., Christiansen, A., Ramachandran, S., Ismail, S., Al-Zaabi, A. M. (2019) Multidisciplinary Studies on a Pilot Coastal Desert Modular Farm Growing *Salicornia bigelovii* in United Arab Emirates. In *Ecophysiology, Abiotic Stress Responses and Utilization of Halophytes*. pp. 327–345. Springer.
2. Mohapatra, S., Ramesh C. Ray., Ramachandran, S. (2019) Bioethanol from Biorenewable Feedstocks: Technology, Economics, and Challenges. In *Bioethanol Production from Food Crops: Sustainable Sources, Interventions, and Challenges*. Academic Press, Elsevier. pp. 3–27.
3. Namita Khanna, Akshayaa Sridhar, Ramachandran Subramanian, Soumya Pandit, Elvis Fosso-Kankeu (2019). Phycoremediation: A Solar Driven Wastewater Purification System. In *Nano and Bio-Based Technologies for Wastewater Treatment: Prediction and Control Tools for the Dispersion of Pollutants in the Environment*. Vol. 1, pp. 373–427. John Wiley & Sons.
4. Ray, R., Ramachandran, S (2019) Bioethanol Production from Food Crops: Sustainable Sources, Interventions, and Challenges. Academic Press, Elsevier.
5. Dali Vilma Francis, Neeru Sood and Trupti Gokhale (2019) Applications of Metal Nanoparticles in Agriculture Nova Science Publishers, Inc. Hauppauge, NY, USA. Book Chapter accepted for publication.

- Singh, Prem, Shounak Roy, Pallab Sanpui, Aditi Banerjee, and Amit Jaiswal. "Gold Nanostructures for Photothermal Therapy." In *Nanotechnology in Modern Animal Biotechnology*, pp. 29-65. Springer, Singapore, 2019.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

- Department of Biotechnology organized International Conference on "Biotechnological innovations in food and health care – (2019)" held at BITS, Pilani, Dubai Campus on 27-28th January 2019.
- Department of Biotechnology organized workshop on "Synthesis of Liposome and Nanoparticles" held at BITS, Pilani, Dubai Campus on 13-14 April, 2019
- Department of Biotechnology organized Symposium on 'Recent Advances and Career Opportunities in Medical Biotechnology' held at BITS, Pilani, Dubai Campus on 7th November, 2019.

8. INVITED TALKS GIVEN BY BITS FACULTY

- Dr. Neeru Sood Presented an invited Lecture -NANOPARTICLES: NANOFERTILIZERS IN AGRICULTURE at 5th International Conference on "Current Trends in Biotechnology, 2019" (CTBT, 2019) Organized by the School of Life Sciences, MAHE Manipal Dubai, UAE from April10-11, 2019.
- Dr. Neeru Sood was invited member for a Panel discussion organized by Our Own English High School Sharjah on 9th December 2019

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

- Dr Subhamoy Pal, Scientific PM, SIAC, interacted with First Degree students and shared his thoughts his Journey from BITS to the United States Military Health System on August 28th, 2019.
- Mrs. Alamelu Murali, representative of Atria Biosciences held a scientific discussion with our First Degree students on 'Clinical Research & Pharmacovigilance' on 6th October 2019
- Prof. Arup Mukherjee, Emeritus Professor at Adamas University, held a scientific discussion with our First Degree students on 'Nanoparticles and Nanoscience' 7th October 2019
- Prof Suresh Arya, Professor, National Cancer Institute (NCI), National Institutes of Health United States (NIHUS) Bethesda, United States held two day lectures on Synthetic Biotechnology on 3rd – 4th of November 2019
- Ms. Gayathri Ganesh, Harvard Medical School, interacted with Biotech students On Path through Immunology, 4th March 2019.
- Hamza Khaliq Khan, University of Bonn, Germany guided the students on BITS2MS, 22nd April 2019.
- Faisal Zaman, University of Linkoping, Sweden interacted with Biotech students on carrier opportunities for the biotech students in the Medical research in Northern European Universities on 28th March 2019.
- Jagadeesh Babu Rangishetty and Manik, BITS Pilani Alumni of batch MPharm'96 and BPharm'97 visited the Dubai campus on 31st August 2019. They interacted with the faculty from the Biotechnology Department on advancements in the Biopharmaceutical field.
- Alumni, Ashvriya, Sharanya Jayashankar, Farah Khatoon, Shweta Biswal, and Sayed Razaa Ali were invited to interact and share their thoughts during the event organized on "Advances and Career opportunities in Medical Biotechnology" held on 7th November 2019. These alumni currently working in different fields of Biotechnology gave the students an insight into the immense career opportunities in Biotechnology.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

Nil

b. Won by Students:

Neeharika Senthilkumar (Biotechnology) Sameeksha Amin, Clayton Pereira, Aamer Abdul (Team WasheX) have won the 1st Runner Up award with a cash Prize Amount of AED 7,000 /, in First BITS Innovation Competition (BIC 2019) a technology-based innovation competition to provide sustainable solutions towards current issues, organized by BITS Pilani Dubai Campus on 2nd week of November 2019

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION:

Nil

12. PATENTS FILED/PUBLISHED AND GRANTED

Nil

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

Chimera Association:

- On 31st October 2019, to celebrate Halloween, the Biotech association, Chimera, organized 'Crime Scene Investigation' focused on team building efforts. The game was open to the students of all the Departments.

2. Farewell was given for the outgoing batch on 25th April 2019
3. Fresher's Welcome was organized for the 2019-2020 batch students on 18th September 2019

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	Nanodrop	1
2.	Fluorescence Inverted Microscope	1
3.	DNA Agarose Gel Electrophoresis Unit	1

15. Any other activities:

MoU between BITS Pilani Dubai Campus and RAK Medical and Health Science University.

MoU between BITS Pilani Dubai Campus and RAK Medical and Health Science University was renewed on 17th December 2019 for next six years.

B4.14.7 Department: General Sciences

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	5
Associate Professors	7
Assistant Professors	5
Lecturers	0
Visiting Faculty	0
Visiting Assistant Professors	0

Head of the Department: Dr.Vijaya Ilango

Contact details: vilango@dubai.bits-pilani.ac.in

Number of Ph.D. Scholars: 0

Full Time : 2

Part Time : 0

Aspirant Scheme : 0

Ph.D. Thesis Submitted during the year 2019:

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

1.PROJECTS SANCTIONED

A. Government Sanctioned

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS**Papers Published by Faculty In Journals:**

1. Shaunak V Potdar, Mohamed Shazin and Geetha Kannan A sustainable energy source from microbes using microbial fuel cells, Journal of Physics: Conference Series, Volume 1276, Number 1, 2019.
2. J. SARAL, S. ARUMUGAM, Ibrahim VENKAT and A. SOMASUNDARAM, Cellular manufacturing problem - A graph theoretic approach, Journal of Advanced Mechanical Design, Systems, and Manufacturing, Vol.13, No.3, 2019.
3. S.V. Divya Rashmi, A. Somasundaram, S. Arumugam, Secure domination subdivision number of a graph, Discrete Mathematics, Algorithms and Applications Vol. 11, No. 3 2019.
4. J. Deepalakshmi, G. Marimuthu, A. Somasundaram, S. Arumugam, On the 2-token graph of a graph, AKCE International Journal of Graphs and Combinatorics, 2019 <https://doi.org/10.1016/j.akcej.2019.05.002>.

5. S. Rajeswari, A. Somasundaram, Nishrin Abdul Gafoor, Trupti Gokhele Swarup, Neeru Sood, S. Arumugam, A computational approach to identify the role of potassium transporter in barley, AKCE International Journal of Graphs and Combinatorics, <https://doi.org/10.1016/j.akcej.2019.03.025>.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

1. Dr.Vijaya Ilango and Dr.Geetha Kannan Attended a workshop on EDU DAY: Basics of Rheology in Anton Paar Middle East , Technical Centre, Rashidiya, Dubai on 6th March 2019.
2. Bidhan Jain and Vijaya Ilango , " Energy Savings and Cost Estimation of Net Zero Homes" International Conference on Crafting Foundations for Sustainable and Inclusive Development (CRFSID-2019) Feb 22 - 23, 2019 in Manipal University , Dubai Campus.
3. Rusal Raj Francis, Aisha Raouf1, Ramachandran Subramanian, Suresh Gupta, Geetha Kannan, Thirumavalavan K - Torrefied Materials Derived from Waste Vegetable Biomass", Prakash Kumar B G*, 2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019), Dubai, UAE.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED : NIL

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT : NIL

8. INVITED TALKS GIVEN BY BITS FACULTY

1. Dr.Shilpee Srivastava Saxena, delivered an invited talk on on "Periodic solutions of vector disease model with harvesting term" during June 17-19, 2019 in International conference on Differential Equations and Control Problems: Modelling, Analysis and Computations (ICDECP 19) , IIT Mandi, Himachal Pradesh, India.
2. Dr. A.Somasundaram participated in the Instructional workshop on Computational Biology and Bioinformatics during December 02-07, 2019 organized by the Center for Advanced Research in Applied Mathematics and Statistics, Manipal Academy of Higher Education, Manipal, Karnataka and delivered lectures in Interpretation of biological networks using graphical tools.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

Department of General Sciences arranged an invited talk on 9.4.2019 in Advanced Characterization Techniques for Various Engineering Applications by Ornov Maulik, Application Specialist, Characterisation Division Anton Paar Middle East Technical Centre, Dubai.

10. AWARDS AND RECOGNITIONS: NIL

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION: NIL

12. PATENTS FILED/PUBLISHED AND GRANTED: NIL

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES:

Association Name: Flummoxed Quizzing Association

Activities: Flummoxed 2019

The quizzing club of BITS Pilani – Dubai Campus, Flummoxed, had a very fruitful year where the club promoted and created a quizzing culture on campus by conducting numerous quizzing events, weekly quizzing sessions, and organizing quiz competitions in association with multiple corporate and academic entities. Some of them have been listed below:

TAPMI Quiz on The Beach: The quizzing club acted as a promoter for this event held at Manipal's Dubai Campus. BPDC team qualified for the international final for the fifth year in a row and flew to Manipal, India to compete in the International Finals.

Pop Fiesta: Held during the Sparks Festival 2018, this event saw over 30 participants from the university compete against each other in a quiz based on the pop culture events which took place in the past decade or so.

The Big Oh: Held during Enginuity 2019. The Big Oh was conducted in collaboration with ACM Chapter, BITS Pilani Dubai Campus as a quiz on all things science and tech. There was a prelim round and a final round. The event had an attendance of 60-70 students and prize money of AED 300 was awarded to the top 3 winning teams.

Quizzards by Flummoxed: During the second semester of 2018-2019, Flummoxed set up groups on WhatsApp and Instagram called Quizzards and initiated a program called "Question of the Day" where participants of the group could create and answer fun quiz questions on any topic just for kicks. There was no incentive involved or contest but was created for promoting quizzing as a fun social activity. The engagement over 3 months exceeded 300 participants and the average engagement per question was around 10-15 participants online.

Lights, Camera, Quiz: Held during BITS Film Festival 2019. LCQ was conducted in collaboration with Paribhasha, the Drama Club as a quiz on all things film: Hollywood and Bollywood. There was a prelim round and a final round. The event had an attendance of 70-80 students and certificates were awarded to the top 3 winning teams.

Quiz Du Fromage: Held during Jashn 2019. QDF was conducted as a quiz on all things food: Multiple cuisines and Culinary facts. There was a prelim round and a final round. The event had an attendance of 70-80 students and certificates were awarded to the top 3 winning teams.

Tata Crucibles: An event held in partnership with the wildly successful Tata Crucibles Campus Edition team saw over 500 participants from universities across the UAE compete against each other to win cash prizes worth upto 30,000 AED. Our university was placed second in the competition, with 5 out of 8 final seats occupied by BPDC students. ShaleenBengani and JiteshPrasadGuravrepresented the region in the International Finals.

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

S.No.	Software/Equipment	No. of Licenses or Qty.
1.	Upgraded version of Collisions experiment	1
2.	pH Meter	2
3.	Conductivity Meter	2
4.	Weighing balance	1

B4.14.8. Department: Humanities & Social Sciences

Number of faculty members (as on 31st December 2019)

Senior Professors, Professors	01
Associate Professors	00
Assistant Professors	07
Lecturers	00
Visiting Faculty	07
Visiting Assistant Professors/Professors	01

Head of the Department: Shazi Shah Jabeen

Contact details: shazi@dubai.bits-pilani.ac.in

Number of Ph.D. Scholars: 06

Full Time : 03

Part Time : 05

Aspirant Scheme : Nil

Ph.D. Thesis Submitted during the year 2019 :

S.No	Name	ID	Topic	Supervisor	Co-Supervisor
1	Raavee Kadam	2015PHXF0900U	Impact of Cultural Intelligence on Organizational Citizenship Behaviour: An Empirical Study of Employees in the Multicultural Workplace	Dr. Srinivasa Rao	Prof. Shazi Shah Jabeen

1. SPONSORED RESEARCH AND CONSULTANCY

PROJECTS SANCTIONED

A. Government Sanctioned

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Industry Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Institute Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

2. ONGOING PROJECTS**A. Ongoing Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Ongoing Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Ongoing International Sanctioned Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Ongoing Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

3. COMPLETED PROJECTS**A. Completed Government Projects**

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

B. Completed Industry Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

C. Completed International Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

D. Completed Institute Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Collaborater (if any)	Amount Sanctioned (INR)
-	-	-	-	-	-	-	-

4. LIST OF RESEARCH PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Papers Published by Faculty In Journals

1. Vihari, NS, Rao, MK, Doliya, P (2019). organizational learning as an innovative determinant of organizational sustainability: An evidence-based approach. *International Journal of Innovation Management*, 23 (3): 1-24.
2. Singh, K, Raina, M (2019). Demographic correlates and validation of PERMA and WEMWBS scales in Indian adolescents. *Child Indicators Research*, 1-12. doi.org/10.1007/s12187-019-09655-1.
3. Bhardwaj, A, Jabeen, SS (2019) Corporate Social Responsibility Practices in Small and Medium Enterprises. *Polish Journal of Management Studies*. 19 (1): 9-20.
4. Kadam, R, Rao, S, Kareem Abdul, W, and Jabeen, SS (2019), A comprehensive examination of antecedents of cultural intelligence amongst students: Testing the moderation effect of third culture kids. *International Journal of Educational Management*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/IJEM-10-2018-0331>.
5. Desai, S, Rao, A, Jabeen, S.S (2019). Impact of cultural intelligence on SME performance: The mediating effect of entrepreneurial orientation. *Journal of Organizational Effectiveness - People and Performance*, 6 (3):161-185.
6. Aruldoss. V (2019). The politics of young children through the 'epistemologies of the south'. *Social Sciences*, 8 (5): 1-14.

5. CONFERENCES/WORKSHOPS/SEMINAR ATTENDED/PAPERS PRESENTED

i) National: Nil.

ii) International:

Conference:

1. Dr. M. Sahu presented a paper in the 1st International Conference on Crafting Foundations for Sustainable and Inclusive Development (CRFSID-2019) held at Manipal Academy of Higher Education (MAHE), Dubai during 22-23 February 2019.
2. Dr. M. Sahu presented a paper in the International Conference on Democratizing Displacement held at Refugee Studies Centre, University of Oxford, London during 18-19 March 2019.
3. Dr. M. Sahu presented a paper in the International Conference on Technology, Innovation and Sustainability in Business Management (ICTIS 2019) held at Middlesex University, Dubai on 2 May 2019.
4. Ms. Sheetal Desai, Dr Srinivasa Rao, and Prof. Shazi Shah Jabeen presented a paper in the International Conference on Technology, Innovation and Sustainability in Business Management held at Middlesex University, Dubai on 2 May 2019.
5. Mr. Prakash Rao, Dr Srinivasa Rao, and Prof. Shazi Shah Jabeen presented a paper in the International Conference on Technology, Innovation and Sustainability in Business Management held at Middlesex University, Dubai on 2 May 2019.
6. Ms. Aastha Bhardwaj, and Prof. Shazi Shah Jabeen presented a paper in the 9th Global Conference on Business and Social Sciences 2019 organized by the Global Academy of Teaching and Research held in Male, Maldives during 19-20 July 2019. Prof. Shazi Shah Jabeen also chaired a session in this conference.
7. Dr. Devika Sharma presented a paper in the International Studies Association (ISA) Conference 'Exploring the Agency of the Global South in International Studies (Practices)', held at LECIAD, Accra, Ghana, during 1-4 August 2019.

Workshop

8. Prof. Shazi Shah Jabeen attended a workshop on Publishing in High Impact Factor SSCI & SCI Indexed Journals (How to Publish in ISI Journals) organized by Global Academy of Training & Research (GATR) in Malé, Maldives on 20 July 2019.

Seminar

9. Dr. Shamshad A. Khan presented a paper in the International Seminar on India-Japan economic partnership: Potentials, promises and prospects held at Policy Research Institute of Ministry of Finance, Tokyo on 09 August 2019.

6. LIST OF BOOKS/ BOOK CHAPTERS PUBLISHED

1. Devika Sharma and Varun Sahni. (2019). Trump's Triumph Through Indian Eyes: Terribly Tragic, Truly Transformative, or Totally Trivial? In *American Presidential Elections in a Comparative Perspective. The World is Watching*, edited by Jesus Velasco, Lanham: Lexington.

- Mahima Raina and K. Singh (2019). Employee Well-Being in Organizations. In *Translational Research and Applied Psychology in India*, 341-368. New-Delhi: Sage.

7. SEMINAR/ WORKSHOP/CONFERENCE CONDUCTED IN THE DEPARTMENT

- Department of Humanities and Social Sciences conducted a workshop on Research Methods and Data Analysis in Social Sciences on 19 October 2019. The workshop was attended by 17 researchers/professionals from industry, academia and the student fraternity. The workshop covered prominent aspects of statistical and econometric data analysis with hands on learning approach and aimed at helping participants sharpen their analytical skills through SPSS, AMOS, Eviews, R and Smart PLS. Conveners of the workshop were Prof. Shazi Shah Jabeen, Dr. Sartaj R. Rather, Dr. Nitin S. Vihari and Dr. Parizad Dungore.

8. INVITED TALKS GIVEN BY BITS FACULTY

- Dr. Sartaj Rather was invited by RAK Medical and Health Sciences University, Ras al Khaimah, UAE on 23 November 2019 as resource person for one day workshop in Time Series Data Analysis.
- Dr. Nitin Vihar was invited by RAK Medical and Health Sciences University, Ras al Khaimah, UAE on 23-November 2019 as resource person for one day workshop in Cross Sectional Data Analysis.

9. INVITED TALKS/DISTINGUISHED LECTURES ARRANGED BY THE DEPARTMENT

- Dr. Paolo Corvo, University of Gastronomic Sciences, Pollenzo, Italy delivered a lecture on Happiness and Society on 21 March 2019.
- Colonel (Veteran) Ajay Arora, Senior Project Manager, Infosys Ltd. delivered a talk on Decision Making on 15 April 2019.
- Mr. Ben Samuel and Ms. Neha Samuel CEO/COO of Fit on Click conducted an interactive session on From Idea to Entrepreneurship on 09 September 2019.
- Mr. Prakash Rao, Supply Chain Projects and Process Excellence Head- Landmark Group, UAE interacted with the Higher Degree students and delivered a talk on The Retail Juggernaut: From Bricks to Clicks on 13 October 2019.
- Mr. Anshul Singhal, CEO Sentient Lab, FZ-LLC delivered with the Higher Degree Students and delivered a talk on Startup to Scale Up: Experiential Insights on 20 October 2019.
- Mr. Dhiren Harchandani, a Harvard Business School alumnus and CEO of Zenboxed delivered a lecture on Reflections on the Idea of Startups in the age of Blockchain on 21 October 2019.
- Prof. S Irudaya Rajan, Professor, Center for Development Studies, Kerala interacted with the students and discussed the Contribution of Indian Gulf Diaspora to Sustainable Development on 24 October 2019.
- Mr. Ammar Malhi, Client Relations Head of SMART CROWD and Mr. Hassan Sheikh, Business Development and Communications Head of SMART CROWD delivered a talk on Disruptions in FinTech Innovations on 18 November 2019.
- Ms. Avneet Kohli, an award-winning presenter, inspirational speaker, impact & communication coach interacted with the students and shared her thoughts about how to make an impact on others in less than seven seconds on 21 November 2019.

10. AWARDS AND RECOGNITIONS

a. Won by Faculty:

- Dr. Shamshad Ahmad Khan was invited as Visiting Research Fellowship in a Japanese Research Institute called Policy Research Institute of the Ministry of Finance, Tokyo, Japan for 3 months from 17 May 2019 to 17 August 2019.
- Prof. Shazi Shah Jabeen received the Best Paper Award for the research paper entitled 'Corporate Social Responsibility Practices in Small and Medium Enterprises' at 9th Global Conference on Business and Social Sciences, Male, Maldives, 19-20 July 2019.
- Prof. Shazi Shah Jabeen was appointed a member of Technical Committee of 5th International Conference on Culture, Languages and Literature organized by IEDRC and co-organized by the Institute of General Education of Ming Chuan University held during 15-17 August 2019, in Ming Chuan University, Taiwan.
- Prof. Shazi Shah Jabeen was appointed as Editorial Board Member of Journal of Management and Marketing Review, 02 August 2019.

b. Won by Students:

- Prem Dakshin, an MBA student won the Joint Second Prize of AED 3500/- in the Graduate Student Category across all disciplines for his topic "FLOWCON: Frustum CAM (FC) based Fluid Flow Control Mechanism", in the 3rd AUE Student Research Competition held during 25-26 March 2019 at American University in the Emirates, Dubai. Dr. Shashank Khurana, Assistant Professor of Mechanical Engineering was the supervisor.

2. MBA student Harish S' Start Up idea was selected for participation in the Silicon Valley Start Up Program'19 which took place during 3-15 June 2019 in Silicon Valley, United States organized by Silicon Valley Forum. His idea was placed among top 12 out of 100 participants.

11. FACULTY DEVELOPMENT, INTERNATIONAL COLLABORATION & INDUSTRY IMMERSION

1. Prof. Shazi Shah Jabeen examined PhD thesis entitled "The position and Hierarchy of Adverbial Phrases in Standard Arabic," Aligarh Muslim University, India. (2019).
2. Prof. Shazi Shah Jabeen examined PhD thesis entitled "Stylistic Manipulations in Jane Austen's Sense and Sensibility", Aligarh Muslim University, India. (2019).

12. PATENTS FILED/PUBLISHED AND GRANTED

Nil

13. DEPARTMENTAL ASSOCIATIONS ACTIVITIES

Departmental Association/Club activities:

1. In-house publications:

Two issues of the in-house publications of Dubai Campus were released during the year:

- i. @bitsdubai (Institute's newsletter) - Volume 16 Issue 1 (2018-2019)
- ii. @bitsdubai (Institute's newsletter) - Volume 16 Issue 2 (2018-2019)

2. Association: Nil

14. SIGNIFICANT NEW EQUIPMENT/EXPERIMENTAL FACILITY ADDED

Nil

B4.15 DIVISION/ UNIT/ CENTERWISE ACTIVITY HIGHLIGHTS

B4.15.1 Academic Research Division

Award of Ph.D. Degree (viva conducted) Dubai Campus

S. No.	Name	Title
1	NAND KUMAR	Some Aspects of Cloud Computing and its Applications in Data Analysis
2	PRASEETHA V. M.	Efficient Techniques for Biometric Identification and Security Aspects
3	NANDAKUMAR P	Characterization of Viking Tool Steel for Press Tools for Heavy duty Blanking & Forming Components for HV Switchgear Industry
4	ARIVARASI A	Design and Evaluation of Micro Dimension 3D Printing Process and Application to Sensors
5	DEVISREE S	Defect Analysis and Design of a New Fault Tolerant Nano Crossbar Architecture

Ph.D. Qualifying examination : 22 Ph.D candidates under full time/ part time, faculty development scheme were permitted to appear in the Ph.D qualifying examination in the year 2019

Sponsored Research Projects

Research projects sponsored by the Institute, are in operation. A list of ongoing research projects is given below:

Ongoing Projects:

S. No.	Projects Title	Principal / Co – Principal Investigator	Sponsored by	Amount Sanctioned(AED)
1	Numerical Modelling of Surcharge Preloading with Vertical Drains	G Sridhar (PI)	RIG - BITS PILANI, DUBAI CAMPUS	AED 20000
2	Performance analysis of port structures incorporating soil-structure interaction under earthquake and hydrodynamic force	Vivek B.	RIG - BITS PILANI, DUBAI CAMPUS	AED 20000

S. No.	Projects Title	Principal / Co – Principal Investigator	Sponsored by	Amount Sanctioned(AED)
3	Optimization of Selected High Yield Grass Species for Biomass and Bioenergy Applications Using Saline and Recycled Wastewater	Dr. S. Ramachandran	International Center for Biosaline Agriculture (ICBA), Dubai	46Lakhs (BPDC: AED: 120,000; ICBA: AED: 125,000)
4	A metabolomics approach to explore the health benefits of <i>Salicornia bigelovii</i> exposed to different degrees of salinity stress	Dr. Mainak Dutta	BITS PILANI/ RIG	AED 20,000/-
5	Harnessing and Management of energy through innovative mobility services	EEE Students	Expo Live	AED 50000
6	ZEERPOT	EEE Students	Expo Live	AED 50000
7	Design and Development of Closed Loop Control System to improve the Process Capability of Incremental Sheet Metal Forming	Prof R Karthikeyan	BITS PILANI/ SEED GRANT	AED 90000
8	Design and Development of Direct Methanol Fuel Cell with Effective Species Management Technique	Dr. Naveen Shrivastava	BITS PILANI/ RIG	20,000 AED
10	Bio tribological corrosion	Dr Vincent	BITS PILANI/ SEED GRANT	90,000 AED
11	Optimization of Selected High Yield Grass Species for Biomass and Bioenergy Applications Using Saline and Recycled Wastewater	Dr. S. Ramachandran	BITS PILANI and ICBA, Dubai	AED 245,000
12	Development of Photocatalyst embedded Graphene based membranes for Treatment of Dye containing waste water under sunlight light irradiation	Dr. Narendra Nath Ghosh (Dept of Chemistry, Goa Campus)	ABSTCL	52.2 Lac
13	Investigation of salt hydrates for thermal energy storage	Prof. Udo Scheingenschloegl Dr. Eldhose Iype	KAUST super computing lab	300,000 cpu hours

Research Contributions through Higher Degree Dissertations:

A total of 18 M.E. and M.B.A. Dissertation Projects were carried out over a period from January 2019 to December 2019. The list is given in Annexure B4-13

Research Contributions through First Degree Theses:

A total of 43 students completed their first-degree theses during both the semesters of the calendar year 2018. Besides faculty members of the Institute, scientists from R & D labs and other professionals also supervised the thesis work. The complete list is given in Annexure B4-14.

Research Contributions through First Degree Theses:

A total of 28 students completed their first-degree theses during the calendar year 2019. Besides faculty members of the Institute, scientists from R & D labs and other professionals also supervised the thesis work. The complete list is given in Annexure B4-14.

Research Publications by Faculty, Staff and Students:

There were a total of 147 contributions which include 86 in various international Journals and 54 in various Conferences and 7 publications in book chapters. The complete list of research contributions made by the faculty, staff and students is given in Annexures B4-11 and B4-12.

Some Noteworthy Achievements:

- Two final year students, Urvashi Satwani and Amaan Fathima under the faculty supervisor Dr. Nishant Pandya have secured prestigious 1st place in Environmental Science section at 7th Undergraduate Research Competition (URC) conducted by Abu Dhabi University. The competition started in January 2019 with

approximately 900 entries and out of which 300 entries were selected for the final round of presentation on 29th April 2019.

2. A team of Chemical Engineering students from BITS Pilani, Dubai Campus with faculty supervisor Dr. Eldhose Iype participated in the prestigious Chem-E-Car competition (Middle East region), which was organized as a part of MEPEC conference in Bahrain by AIChE (American Institute of Chemical Engineers) from 14th to 16th October 2019. They received sponsorship of travel and accommodation for four persons. This was the first time that a university from the UAE entered the Chem-E-Car circuit, let alone any of the four BITS Pilani campuses, a remarkable feat accomplished by our chemical engineering department. The BPDC Chem-E-Car team managed to win the most titles among the other teams as they bagged two awards: 1) 1st Place in Poster Competition, 2) Best Video Award.
3. An interdisciplinary team (AI-Based Health Insurance) including a fourth year chemical engineering student, Urvashi Satwani has won 2nd Runner Up position with prize amount AED 5,000 in the 1st BITS Innovation Competition (BIC 2019) organized by BITS Pilani, Dubai Campus. Out of total 60 innovative proposals submitted in the beginning of the year, 23 teams were shortlisted for finals and four teams were selected for awards during the month of November 2019.
4. A final year chemical engineering student, Allan Barbosa along with faculty members Dr. Priyank Upadhyay and Dr. Eldhose Iype have won the best poster award titled "Neural network for mechanical property estimation of multilayered laminate composite" in the 2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT), 20th - 22nd November 2019, Dubai, UAE. 2019.
5. Two of the graduating students (Mr. Sarthak Sethi and Karan Gupta) Awarded at 1st prize at Hack on Health AI Hackathon in Abu Dhabi, also awarded a cash prize of AED 30,000.
6. One of the students Mr. Sarthak Sethi Awarded 2nd prize at James Dyson Award UAE 2019 for my project VisionCap.
7. One of the students Mr. Sarthak Sethi Awarded 2nd prize at TravelTech MiddleEast 2019 for my project Smart Baggage Reclaim Kiosk.
8. One of the students Mr. Sarthak Sethi Awarded at Startup Expo Abu Dhabi 2019 for my project Smart Unmanned Retail Units / Micromarkets (IoLetics).
9. Team Autochain won first prize (AED 55,000) and Team Solar GridX won 3rd prize (AED 15,000) in the 1st UAE University Blockchain Challenge Finals organised by Heriot Watt University in collaboration with Nem.io and Dubai Silicon Oasis Authority on May 2nd 2019.
10. "Hack on Health" Hackathon was organized by the Department of Health, Abu Dhabi Government in partnership with Abu Dhabi Digital Authority and IBM. Three students from our university - Neetesh Bhati (C.S. III Year), Sarthak Sethi (E.C. E. III Year) , and Yatharth Kher (C.S. III Year) participated and secured 1st Position. They received a cash prize of AED 30,000. They made an app "Salama" for the prevention of chronic diseases. This was done in line with the UAE's Artificial Intelligence Strategy. Date: October 2019.
11. Fintech Festival of MENA region. On 21-23 October 2019, Organised by Abu Dhabi Global Market, FinTech Abu Dhabi welcomed over 5,000+ delegates from over 70 countries in Abu Dhabi. The Fintech Abu Dhabi Awards showcased the very best in global FinTech innovation across ten inspirational categories and Mr Hardik Bhatia IIIrd CS was awarded "Emerging Fintech Talent of the year". The award is an internationally recognised gold standard for excellence in the field of FinTech. SolarGridX team consisting of Hardik Bhatia (3rd year CS), Prashanth Konda (4th Year CS) and Yatharth Kher (3rd Year CS), tokenizes the ownership of solar panels to be traded as an investment commodity.
12. Three Computer Science students, Shaleen Bengani (IV CS), Mohammed Shoaib (III CS) and Shruti Arippara Vinodh (IV CS) secured the first place in the 9th Gulf Programming Contest held on 1st April 2019 at Sultan Qaboos University in Muscat, Oman. Dr Sujala D. Shetty served as the faculty coach for the team.
13. Neeharika Senthilkumar (Biotechnology) Sameeksha Amin, Clayton Pereira, Aamer Abdul (Team WasheX) have won the 1st Runner Up award with a cash Prize Amount of AED 7,000 /, in First BITS Innovation Competition (BIC 2019) a technology based innovation competition to provide sustainable solutions towards current issues, organized by BITS Pilani Dubai Campus on 2nd week of November 2019.
14. Prem Dakshin, an MBA student won the Joint Second Prize of AED 3500/- in the Graduate Student Category across all disciplines for his topic "FLOWCON: Frustum CAM (FC) based Fluid Flow Control Mechanism", in the 3rd AUE Student Research Competition held during 25-26 March 2019 at American University in the Emirates, Dubai. Dr. Shashank Khurana, Assistant Professor of Mechanical Engineering was the supervisor.
15. MBA student Harish S' Start Up idea was selected for participation in the Silicon Valley Start Up Program'19 which took place during 3-15 June 2019 in Silicon Valley, United States organized by Silicon Valley Forum. His idea was placed among top 12 out of 100 participants.

16. Adithya Pradeep Nair, Shivam Mishra, Rishabh Kaushik from Computer Science Engineering and Shilpa Sreekumar from Mechanical Engineering, BPDC were awarded BEST PAPER AWARD, in respective categories, at the 4th Student Research Colloquium on “Advances in Engineering & IT” AEIT-2019 held at Manipal University, Dubai on 24th and 25th of April 2019. Dr. Shashank Khurana, Faculty, Mechanical Engineering, BPDC served as the supervisor for students papers.
17. Mantra awards are held every year in all the BITS campuses these awards were instituted by CEL, in 2009, to recognize and reward outstanding students who have demonstrated extraordinary leadership potential and/or entrepreneurial initiative. The following students are the Mantra Award Winners from Dubai Campus for 2018-19. PRANAY ADDEPALLI won Outstanding Leadership- Male, and TARUN KRISHNA JAYACHANDRAN and MOHAMED NAWAZ MUALLIM (Team Trift) and YASHODHAN NAIK (Team Navifly) jointly won Entrepreneur of The Year.
18. To appraise themselves about BITS Pilani-Dubai campus, interact with faculty, staff & students and/or to collaborate with the Institute, the following were among the notable visitors to BITS Pilani, Dubai Campus (Please see annexure B4.10 for list of those who not only visited but also delivered invited talks at Dubai Campus).
19. Visit of a team from BASF Construction Chemicals, Dubai: A team of four persons (Regional Development Managers, Head of Development) from BASF Construction Chemicals visited the Dubai Campus on 27th February 2019 in order discuss various possibilities of the collaboration, especially in the field of Civil engineering and Chemical Engineering. The following are the some of the areas considered for the collaboration: internship program through PS I and PS II, Invited lectures, innovation competition, and consultancy project.
20. Mr Hemant Gor, Senior Engineer (Civil and Structures) interacted with 2nd and 3rd year students and gave a talk on “Long Span Concrete Structures” on April 7, 2019
21. Dr Raj Singh, superannuated Director (Acting), CSIR-CEERI, Pilani, delivered a guest lecture on Recent advances in VLSI design and interacted with the faculty members and PhD students on August 27, 2019.
22. Dr Saroj Rout, BITS Alumni, interacted with faculty members and Higher Degree students and shared his thoughts about growing technology in VLSI design and applications on September 29, 2019.
23. Dr Subhash Chandra Bose, Ex-Senior Scientist, CSIR-CEERI, Pilani, and Advisor (Academics) at IIT Jodhpur delivered a guest lecture on topic “Man, Machine and Market” and interacted with the faculty members and PhD students on October 31, 2019.
24. . Invited talk on “How to land your dream job” by Sallyann Della Casa. Sallyann started her own Foundation and Tech Company, became a lawyer at the age of 21, is a published author and her foundation has made difference in the lives of 25,000 youths and counting. Sallyann is a graduate from Harvard. Talk was conducted by Microsoft Tech Club.Date: 31st January 2019.
25. 2.Invited talk by Prof S .R. Subramanya, National University San Diego , California Topic: Complex Algorithms in Real Life Applications.Date : 6-2-19.
26. CS Department and ACM are excited to have the Founder and CEO of Gath3r Mr Raghav Reggie Jerath coming to share his interest in the field of webmining and cryptocurrency.They are looking to offer internship openings for students interested in blockchain and cryptocurrency.Mr Raghav holds a BBA in Project Management from U.K.Date: 2/4/2019.
27. Colonel Ajay Arora gave a talk on “Communication and Risk Management in Corporate Environment”, Date : 15/4/19,Colonel Ajay Arora of Indian Army and after serving for 20+ years took Pre mature Retirement in 2012. He has seven years of Corporate experience having served with Persistent Systems Ltd (as Deputy General manager IT Operations) and now with Infosys Limited (as Senior Project Manager).
28. Faculty of the Computer Science Department interacted with Ms.Jenni Jones, AWS Academy Program Manager, AWS Training & Certification from London, United Kingdom and deliberated on collaborating on AWS Academy. Date : April 16th 2019
29. .A talk on IBM AI and High Performance Computing by Mr Ganesan Narayanasamy. Mr Ganesan is Senior Technical Computing Solution and Client Care Manager at IBM, Poughkeepsie, New York. Date: 1st May 2019.
30. CS Department invites you to a guest lecture by Prof.Sanjay Kumar Singh from IIT(BHU) Topic: " Application of Machine Learning in Data Science",Date: 15th September 2019.
31. Talk by Mr Anirban Lahiri, Director of Technology, Arndit Ltd.Cambridge. Anirban has more than 15 years of experience in developing advanced technology in the Computing Industry spanning over 3 continents (US, Europe and Asia) including 7 countries. Fellow, at the University of Texas, Austin and Stanford University. Date: 17th November 2019.

32. Talk by Dr. Sahid Cholayil, Dr. Sahid Cholayil is a Visionary & Founder of "Mission 3G" (IIT Madras Research Park), humanitarian educationist, serial entrepreneur and a strong advocate of "technological singularity"."Artificial Intelligence, Future Job,Career & Entrepreneurship". Date : 19th November 2019
33. Talk by Col.Dr. Rakesh Sharma.Col Dr Rakesh Sharma, IEEE n Army Awardee Dual PhD, BITSian,Head - EY PMU, Govt. of Jharkhand,Founder Dean Engg & Research - GEU Doin,Launched INMARSAT in Siachen,India Ranked Powerlifter n Weightlifter,Founder Chairperson CSI HP.Topic: BITS Raksha Anusandhan Cell - Synergizing BITS Research for The Future To Make Nations Powerful.
34. Talk by Prof Phalguni Gupta,IIT Kharagpur,Currently, he is the Director of National Institute of Technical Teachers' Training and Research, Kolkata Topic: Challenges in Biometric System Development,Date: 28th November 2019.
35. Dr Subhamoy Pal, Scientific PM, SIAC, interacted with First Degree students and shared his thoughts his Journey from BITS to the United States Military Health System on August 28th, 2019.
36. Mrs. Alamelu Murali, representative of Atria Biosciences held a scientific discussion with our First Degree students on 'Clinical Research & Pharmacovigilance' on 6th October 2019
37. Prof. Arup Mukherjee, Emeritus Professor at Adamas University, held a scientific discussion with our First Degree students on 'Nanoparticles and Nanoscience' 7th October 2019
38. Prof Suresh Arya, Professor, National Cancer Institute (NCI), National Institutes of Health United States (NIHUS) Bethesda, United States held two day lectures on Synthetic Biotechnology on 3rd – 4th of November 2019
39. Ms. Gayathri Ganesh, Harvard Medical School, interacted with Biotech students On Path through Immunology, 4th March 2019.
40. Hamza Khaliq Khan, University of Bonn, Germany guided the students on BITS2MS, 22nd April 2019.
41. Faisal Zaman, University of Linkoping, Sweden interacted with Biotech students on carrier opportunities for the biotech students in the Medical research in Northern European Universities on 28th March 2019.
42. Jagadeesh Babu Rangishetty and Manik, BITS Pilani Alumni of batch MPharm'96 and BPharm'97 visited the Dubai campus on 31st August 2019. They interacted with the faculty from the Biotechnology Department on advancements in the Biopharmaceutical field.
43. Alumni, Ashvriya, Sharanya Jayashankar, Farah Khatoon, Shweta Biswal, and Sayed Razaa Ali were invited to interact and share their thoughts during the event organized on "Advances and Career opportunities in Medical Biotechnology" held on 7th November 2019. These alumni currently working in different fields of Biotechnology gave the students an insight into the immense career opportunities in Biotechnology.
44. Department of General Sciences arranged an invited talk on 9.4.2019 in Advanced Characterization Techniques for Various Engineering Applications by Ornov Maulik, Application Specialist, Characterisation Division , Anton Paar Middle East Technical Centre, Dubai.
45. Dr. Paolo Corvo, University of Gastronomic Sciences, Pollenzo, Italy delivered a lecture on Happiness and Society on 21 March 2019.
46. Colonel (Veteran) Ajay Arora, Senior Project Manager, Infosys Ltd. delivered a talk on Decision Making on 15 April 2019.
47. Mr. Ben Samuel and Ms. Neha Samuel CEO/COO of Fit on Click conducted an interactive session on From Idea to Entrepreneurship on 09 September 2019.
48. Mr. Prakash Rao, Supply Chain Projects and Process Excellence Head- Landmark Group, UAE interacted with the Higher Degree students and delivered a talk on The Retail Juggernaut: From Bricks to Clicks on 13 October 2019.
49. Mr. Anshul Singhal, CEO Sentient Lab, FZ-LLC delivered with the Higher Degree Students and delivered a talk on Startup to Scale Up: Experiential Insights on 20 October 2019.
50. Mr. Dhiren Harchandani, a Harvard Business School alumnus and CEO of Zenboxed delivered a lecture on Reflections on the Idea of Startups in the age of Blockchain on 21 October 2019.
51. Prof. S Irudaya Rajan, Professor, Center for Development Studies, Kerala interacted with the students and discussed the Contribution of Indian Gulf Diaspora to Sustainable Development on 24 October 2019.
52. Mr. Ammar Malhi, Client Relations Head of SMART CROWD and Mr. Hassan Sheikh, Business Development and Communications Head of SMART CROWD delivered a talk on Disruptions in FinTech Innovations on 18 November 2019.
53. Ms. Avneet Kohli, an award-winning presenter, inspirational speaker, impact & communication coach interacted with the students and shared her thoughts about how to make an impact on others in less than seven seconds on 21 November 2019.

54. On 13th June 2019, Dept. of Mechanical Engineering, BPDC organized an invited talk on "Smart Composite" by Prof. Arockiarajan, IIT Madras, India.
55. On 24th October 2019, Department of Mechanical Engineering, BPDC, organized guest lecture on "Robotics in Surgery - The Future" by Dr. Kamran Ahmed, Surgical and Gastrointestinal Oncologist Director and Partner Oncology Care Associates Saifee Hospital, Fortis Hospital, Mumbai, India.
56. On 18th November 2019, Dept. of Mechanical Engineering, BPDC organized an invited talk on "CO2 transcritical refrigeration system for very high temperature ambient" by Prof. MS Dasgupta, HOD, Mechanical Engineering, Pilani campus, India.
57. On 16th February 2019, Creative lab, BPDC is organized an interactive 3D printing workshop on "Making Jewelry Using 3D Printer" at In5-tech, Dubai Design District, Dubai. The workshop was taught step by step process in designing a jewelry and using 3D printer. The uniqueness about the workshop was to create a moveable object without manual assembly.
58. On 2nd April 2019, Dept. of Mechanical Engineering, BPDC organized a Guest Lecture on "Surface Engineering of Automotive Components-Piston Rings" by Dr. N. Gowrishankar, Director, Materials Research Group, India Piston Ltd.

During the year 2018-19, 10 students underwent FD Thesis & Dissertation at off-campus locations:

1. PATIL VRUSHALI BHAUSAHEB, University of Michigan, Ann Arbor
2. ADITHYA PRADEEP NAIR, Seoul National University, South Korea
3. SHIVANI SIVAKUMAR, ABB Switzerland Ltd. Co Research Center
4. CHANDRASEN MOHITE, IIT Mandi
5. NIKITA BHARGAVA, IIT Bombay
6. MIHIR PRABHUDESAI, Carnegie Mellon University, Pittsburgh, USA
7. INDRANEEL PATIL, BITS, Pilani - INDIA
8. ROHIT BERIWAL, IIIT Delhi
9. VANSHIKA SHARMA, BITS, Pilani - INDIA
10. SHAMITH LOUIS SALDANHA, Khalifa University - Petroleum Institute, Abu Dhabi, UAE

Following faculty members delivered invited talks, reviewed proposals, reviewed papers for prestigious journals, served as International Advisory members chaired conference sessions during the 2018-2019

1. Dr. Meghana Charde was invited as an External Jury Member for Architecture Design Studio 9 at College of Architecture and Design, Al Ghurair University, Dubai on December 5, 2019.
2. Dr Shazia Hasan delivered a talk on power quality and application in industry in the conference DoT-2019, 4th Industrial Revolution in Power Sector, September 20, 2019, Dubai, UAE.
2. Dr. Thoppil George Thomas, Department of EEE, BITS Pilani-Dubai Campus received the Institution of Electronics and Telecommunication Engineers (India) IETE- Prof. K. Sreenivasan Memorial Award (2019) in recognition of his outstanding teaching practices and video lessons in communication systems for the benefit of students & teachers' community of electronics and communication engineering. He received the award from Padma Shri Dr. Y. S. Rajan, Distinguished Professor and Scientist of ISRO at the 62nd Annual Convention of the IETE held at the Dr. Ram Manohar Lohia Avadh University in Ayodhya on 28th Sep 2019.
3. Dr Vilas Gaidhane works as Technical committee member for 3rd International conference on Material and Intelligent manufacturing, ICMIM 2019, conducted at Incheon, South Korea during August 19-21, 2019.
4. Dr Vilas Gaidhane working as a Technical committee member for 4th International Conference on Materials and Intelligent Manufacturing (ICMIM 2020) and 3rd International Conference on Nano Science and Technology (ICNST 2020), which will be held in Osaka, Japan during August 18-20, 2020.
5. Dr. Neeru Sood Presented an invited Lecture -NANOPARTICLES: NANOFERTILIZERS IN AGRICULTURE at 5th International Conference on "Current Trends in Biotechnology, 2019" (CTBT, 2019) Organized by the School of Life Sciences, MAHE Manipal Dubai, UAE from April 10-11, 2019.
6. Dr. Neeru Sood was invited member for a Panel discussion organized by Our Own English High School Sharjah on 9th December 2019.
7. Dr. Shilpee Srivastava Saxena, delivered an invited talk on "Periodic solutions of vector disease model with harvesting term" during June 17-19, 2019 in International conference on Differential Equations and Control Problems: Modelling, Analysis and Computations (ICDECP 19), IIT Mandi, Himachal Pradesh, India.
8. Dr. A.Somasundaram participated in the Instructional workshop on Computational Biology and Bioinformatics during December 02-07, 2019 organized by the Center for Advanced Research in Applied Mathematics and

Statistics, Manipal Academy of Higher Education, Manipal, Karnataka and delivered lectures in Interpretation of biological networks using graphical tools.

9. Dr. Shamshad Ahmad Khan was invited as Visiting Research Fellowship in a Japanese Research Institute called Policy Research Institute of the Ministry of Finance, Tokyo, Japan for 3 months from 17 May 2019 to 17 August 2019.
10. Prof. Shazi Shah Jabeen received the Best Paper Award for the research paper entitled 'Corporate Social Responsibility Practices in Small and Medium Enterprises' at 9th Global Conference on Business and Social Sciences, Male, Maldives, 19-20 July 2019.
11. Prof. Shazi Shah Jabeen was appointed a member of Technical Committee of 5th International Conference on Culture, Languages and Literature organized by IEDRC and co-organized by the Institute of General Education of Ming Chuan University held during 15-17 August 2019, in Ming Chuan University, Taiwan.
12. Prof. Shazi Shah Jabeen was appointed as Editorial Board Member of Journal of Management and Marketing Review, 02 August 2019.
13. Dr. Gulshan Kumar gave a Guest Lecture on "Residual Stresses in Zirconium" at Department of Mechanical Engineering, Manav Rachna University, Faridabad (Haryana) on 4th November, 2019.

Consultancy

Faculty members from of BITS Pilani Dubai Campus completed the following consultancy projects successfully.

S.No	Principal Investigator	Department	Funding agency	Total sanctioned	Project Title
1	Dr. Vivek B.	Civil Engineering	Star Cement Co. LLC, Dubai	24,750 AED	CONDITION ASSESSMENT OF RAW MILL FOUNDATION- FIELD AND LABORATORY INVESTIGATION
2	Dr M Srikanth (GOA Campus) Dr Neeru Sood, Dr Trupti Swarup Gokhale	Biotechnology	ABSTCPL	3.66 Lakhs(for Dubai Campus)	Bioremediation of Red Mud using acidogenic fermentation by products and by bio-piling Duration (June 2018 to June 2019)
3	Dr. Snehaunshu Chowdhury	Mechanical Engg. + Electrical Engg	Schneider Electric	\$15000 (In kind)	Solar refrigerator for RAMADAN
4	Dr. Srikanth Mutnuri	Chemical Engineering	ABSTCL	71.5 Lac	Bioremediation of Red mud using acidogenic fermentation byproducts and by Biopiling, BITS Pilani Principal Investigator

B4.15.2 Professional Body Activities

Skyline

1. "Skyline" had organized an event named "CONSTRUCTO" on 3rd October as part of BPDC Technofest 2019. It included different games related to the field of Civil Engineering. Event Attendance: 30

ASME (American Society of Mechanical Engineers) Student Branch

1. In collaboration with Indkarta (a startup based company in Masdar City with an aim to achieve sustainability and to spread awareness on green practices), ASME BPD student section participated in construction of bio-dome which was a one week activity.
2. Part-time technical internship opportunities were negotiated for students of BITS campus with Future Engineering non-profit associations located in UAE.
3. ASME BPD student section organized ME-XPLODE a technical event as part of Enginuity, an Inter-College tech fest. There was a healthy participation of 14 teams which consisted of 2 teams from Herriot Watt University, 4 teams from Victoria University and 8 teams from hosting campus BITS Pilani. The competition had 3 rounds and cumulative total of three rounds was considered to decide the winner.
4. Membership drive was conducted in the first week of September, the freshmen and the senior year students were informed and registered as ASME student members.
5. Established relationship with EWB.

6. Organizing synergy, an intra-college sports, fun events organized by American Society of Mechanical Engineers, BITS Pilani Student Section over a span of five days. Synergy is best known for its twisted and unconventional rules in common sports like badminton, throw ball, table tennis, volleyball, carom and chess. It is one of the most awaited events at BPDC. This year more than 200 students took part in the event. It started on 6th October 2019. The prize distribution ceremony was held on 23rd October 2019. Football was the new addition to Synergy in the 6th edition.

Association for Computing Machinery (ACM)

Events Organised:

1. Cache Me Outside: Cache Me Outside was a programming contest held during Enginuity, the university's technical fest. The contest was hosted on Hacker Rank. The contestants had to solve programming problems of varying difficulties. The top 3 teams won cash prizes worth AED 150. Event Attendance: 20
2. Capture The Flag: A Capture The Flag competition held during Enginuity, the university's technical fest. Participants had to break into vulnerable systems to obtain a secret code, the flag. Top 3 teams won AED 150 in prize pool. Event Attendance: 20
3. The Big Oh: A Science and Technology quiz held during Enginuity in collaboration with Flummoxed, the quiz club. The quiz consisted of a preliminary round and a final round with 6 teams. The winners walked away with cash prizes worth AED 300. Event Attendance: 65.
4. Block chain Workshop: We held a two hour introductory workshop on Block chain where we explained the principles behind block chain technology and built a block chain based web application. Event Attendance: 45
5. Google Hash Code: BPDC ACM organised a hub for Google Hash Code 2019 where students could work on the programming challenge together. We also provided the participants with food, drinks, tech tattoos and ACM merchandise. Google Hash Code is an international competitive programming tournament. Members of our organized hub finished 4th in the UAE. Event Attendance: 35
6. AI Play: Organised in collaboration with Microsoft tech Club, Microsoft Student Partners. In this workshop, participants were taught how to create a game-playing bot using Python. The participants also learnt how to host the bot on the Azure cloud. Subways were provided. Event Attendance: 75
7. Council Elections: Held council elections by process of CV screening and interview to elect the new members of the ACM council in the presence of the faculty advisor. Number of Applications: 22
8. Membership Stall: The membership team of ACM set up a stall during the freshmen orientation to interact with the incoming batch and encourage them to join ACM. This not only increased exposure of our club, but also gave us a chance to make a positive impression on the new students and their parents who were present on the registration day. Event Attendance: 40+
9. Membership Pitches in Classrooms: The first and second year Computer Science students were apprised about ACM and its activities during the Computer Programming tutorials, Probability and Statistics lectures and Object-Oriented Programming Systems Lab respectively. Event Attendance: 40+
10. No Mouse Challenge: Participants will be given various tasks to perform on an operating system of their choice (Windows/Linux). These tasks must be performed without a mouse. They will be evaluated on the total points scored from performing said tasks in the shortest amount of time. Winners received a free ACM Membership. Event Attendance: 20
11. CS Essentials: "CS Essentials", our first ACM seminar will guide you through fields such as: Machine Learning, Web Development, Game Development, App Development, Block chain, Cyber security providing you insights and the programming languages you need to learn. Whether you are planning to pursue it or just want to learn for fun, it's nice to know exactly what you need to know. Event Attendance: 25
12. Membership Stall during College Hours: A stall was set up during college hours near the vending machine to promote ACM and its activities to the ongoing traffic of potential members. This helped as both a way to encourage students to join ACM and a way to collect the fees of those members who had already registered. Event Attendance: 40
13. Coding Boot camp Workshop Series Introduction: We gave an introductory session to the 10-week long Coding Boot camp workshop. We discussed the list of topics attendees would be learning, namely: Command Line Interface, Git & GitHub, Python Basics, Web Scraping, Competitive Programming, Machine Learning, and Web Development. We showed a few demos and projects we built using the knowledge of each topic. We had pizzas for the attendees. Event Attendance: 80
14. iOS Workshop Series: We also set up a semester long iOS workshop series where participants would learn concepts such as CoreML, iOS app development, etc. Event Attendance: 24
15. ACM Orientation: Come and get to know one of the most exciting & happening associations here at BPDC. ACM BPDC invites everyone for its orientation. So what's happening? Get to know what ACM is and how we

- work. Meet our enthusiastic council members. They can't wait to introduce themselves! Test your problem solving skills with some fun games. Can't wait to meet you. Event Attendance: 50
16. Codathon: BPDC ACM in collaboration with ACM W presents "Codathon", an all in one Capture the Flag Style coding and problem solving event at Techno fest 2019. The problems range from basic riddles and logical puzzles to ciphers and cryptographic keys. For every problem solved, take control of a country in the world. The team that accomplishes a majority of world domination will win AED 100/-. Event Attendance: 25
 17. ACM Q Problem Solving Event: ACM organized its "Q - Quiz" on day 2 of the Techno fest 2019. Q aims to test the student's problem solving skills by means of a questionnaire comprising of logical and application based problems. There were 12 questions from different areas of Mathematics such as Algebra, Combinatorics, Logic, Probability etc. The highest possible score was 135 and the winning team comprising of Ashlyn & Rifah banked full points. They received a cash prize of AED 100/- along with ACM Goodie Bag. The official certificates were distributed by Dr B. Vijaykumar in the closing ceremony of Techno fest held in the Auditorium. Event Attendance: 31
 18. Sunrise School Visit - ACM School Program: Volunteers from the ACM Chapter visited a local school to spread the spirit of computer science as part of BPDC ACM's newly formed School Program. The program aims to bring together university computer science students with high school students to further the spirit of programming and computer science. ACM BPDC in association with Admission Department, Bits Pilani Dubai had set up a stall at Sunrise English Private School's annual career fair. Students from Grade 9, 10, 11 and 12 visited the stalls to gain insight about college education. Representatives from ACM BPDC enlightened the students about Computer Science and its scope and accordingly promoted ACM in general. The event also involved a few fun questionnaires where the students would take ACM goodies and chocolates home for each question they answered correctly. Event Attendance: 300+
 19. PC Building Workshop: The PC Building workshop will involve the council obtaining PCs from the university IT department to disassemble them together as a group activity and reassemble them back as an exercise. Tutorials and slides were used and students got their hands messy with bolting and unbolting the numerous components that go into an average Desktop computer. Event Attendance: 25
 20. AI Gaming, in this workshop, participants were taught how to create a game-playing bot using Python. The participants also learnt how to host the bot on the Azure cloud. Subways were provided. Event Attendance: 35
 21. ACM Q Online Problem Solving Event: Q online is a sequel to ACM Q held during the month of October. Participants will answer logic puzzles, algorithm questions and more from our social media handles such as WhatsApp and Instagram and a leader board is maintained. Solo participation and winner gets AED 100/- and runner ups receive goodies and algorithm books. The leader board was updated every day. The winner: Himanshu Rathi. Online Engagement: 100 per post, 15 submissions per post on avg.
 22. ACM Hack X: Major League Hacking Local Hack Day: To celebrate BPDC ACM's 10th birthday, we organized a local hack day. Build Day is a day-long global hackathon that you can share with your community. Bring your ideas to life by building new projects and working together with others. Participate in workshops and talks with a community around the world. Over the course of 12 hours, attendees will use hardware and software to build everything from websites to robots to mobile apps and more. We held workshops during the 2 day hackathon as well. The winners won AED 1000/- sponsored by the ACM Treasury. Participants were provided with Subways on both days along with Coffee and Donuts. A PlayStation was set up for unwinding. We provided technical books and also invited 2 industry professionals to judge the event alongside Dr. Santhosh Kumar. We had a cake cutting for the council members. Event Attendance: 40
 23. How to Collaborate with GitHub & GitKraken: ACM organized a workshop titled "How to Collaborate with GitHub and GitKraken". The instructor explained the nuances in working with GitHub and explained the essential concepts that are useful for collaboration. The audience worked together to write a recipe for a chocolate cake. The instructor later demonstrated the use of GitKraken to work locally. Since this workshop was the first of many organized as part of MLH Learn Day, there was a provision of food, sponsored by Microsoft and Subway. Event Attendance: 25
 24. Hack the Technical Interview; Algorithms Practice by Citrix: This workshop was conducted during the MLH localhost event. Most companies assess people based on a coding interview. However, people have difficulties in performing well due to the lack of knowledge of the interview experience. Mohammed Shoaib explained the key points to keep in mind during a technical interview and what to expect. The attendees were paired in groups of 2 and took turns in being the interviewer and interviewee to solve 2 problems. Additionally, they were given 35 min to solve each problem. Together, we analyzed the time & space complexity, further optimizations and different techniques. Event Attendance: 20
 25. Introduction to the Wolfram Language: A hands-on introduction to the Wolfram Language, to demonstrate the full power of Wolfram alpha, Wolfram Mathematica and the rest of the Wolfram technology Stack. Workshop involved executing complex queries on the Wolfram Computational Engine. Participants were given free access to the Wolfram cloud for a period of 30 days. Wolfram was the official local hack sponsor for ACM

Hack X. They further provided Wolfram | One access to the top 3 teams for a period of 1 year. Event Attendance: 25

26. Coding Boot camp Completion and Evaluation Session: Subway meals were distributed on the first day. The evaluation took place the next day. 38 participants of the coding boot camp over the semester would be eligible for certificates of type participation, completion and distinction.

BPDC ACM-W Student Chapter:

1. Inaugural Session of ACM-W: The Inaugural session of BPDC ACM-W was held on 5th March. They were provided information regarding ACM-W and its benefits to computing students. ACM-W Informational brochures and Pizza (not taken out of treasury) was offered to attendees. Event Attendance: 20
2. Android Dev Session – 1: Android Development Session with Android Studio was conducted on 13th March. The session covered setting up an android studio project, introduction to the layout editor & XML followed by designing the UI using Image Views, Text Views & Buttons. Students were guided to build their own Cookie Clicker app, on click of a button the cookie value increments. Codes were written in Java to make the buttons work. The session concluded with every participant being able to successfully build and run the app on their physical device. Event Attendance: 11
3. Android Dev Session – Makeup: A Makeup session was conducted by the Vice Chair on March 14th. The same topics were covered as well as additional help was offered to students facing issues running the code. Event Attendance: 10
4. Android Development Workshop for High School Students: On 28th March ACM-W mentored school students to develop their own Android App. The workshop was conducted by Shaik Sabiha, Chair. Grade 9-11 students built a Cookie Clicker App which taught them basics of Android development. The workshop encouraged students to develop interest in building apps. Refreshments and snacks were also provided to the students. Event Attendance: 40
5. A Deep Dive into Power BI: A Collaborative Workshop with MTC: "A Deep Dive into Power BI" was conducted on 2nd April where students got an opportunity to explore the basic and advanced features offered. They learnt about using Azure's Text Analytics services and generated a Word Cloud for their project. Participants were provided with certificates given to them by Microsoft Student Partners. Event Attendance: 30
6. Mentorship Drive: We provided the opportunity for the members to ask seniors in ACM-W regarding their experiences and learn about various opportunities to get involved into. It served as a good closing interaction with the members. The mentors were our Chair, Vice Chair and Treasurer. Mentorship Signups: 3
7. Opportunity Posts: Throughout the semester we have been sharing opportunities such as competitions, fellowships, internships on Whatsapp and Instagram for our Members. This has given them the opportunity to apply for various events in different field including development, design events, and more. Posts Shared: 20+
8. ACM-W Newsletter: The ACM-W Newsletter is a bi-weekly newsletter curated by our team to deliver the best opportunities such as competitions, workshops and resources in UAE directly to our members. On June 18 we released the first issue of Opportunity Newsletter.
9. ACM-W Newsletter Issue #02 Released: Issue released on July 1. Featuring a new section for Internships.
10. ACM-W Newsletter Issue #03 Released: Issue released on July 13. Featuring a new section for sharing Member's Success Stories.
11. ACM-W Newsletter Issue #04 Released: Issue released on July 27. Member's Success Stories section featured the benefit a BPDC ACM-W Member gained from one of the resources shared by the newsletter. Featured remote fellowships, student jobs and webinars that students could attend.
12. ACM-W Newsletter Issue #05 Released: Issue released on August 13.
13. ACM-W Newsletter Issue #06 Released: Issue released on August 31.
14. Data Science Workshops: A five week workshop carried out by ACM-W that dealt with helping students learn and apply different Data Science Techniques on different datasets. The program covered the following topics: Introduction to Python and Python Libraries, Data Pre-Processing, Data Clustering, Classification with Support Vector Machines and Classification with Regression.
 - a. Session 0: Introduction to Python: 16 September 2019
 - b. Session 1: Python Libraries: 9 October 2019
 - c. Session 2: Data Pre-Processing: 16 October 2019
 - d. Session 3: Data Clustering: 23 October 2019
 - e. Session 4: Data Classification: 13 November 2019

- f. Session 5: Data Classification: 20 November 2019
15. Web Development Mentorship: The Web Development mentorship program is an initiative carried out by the W Council to help guide students regarding the web development field by providing them a real world project to work on. They were shortlisted on the basis of projects undertaken previously via the CV's shared. Through the course of September - December, the 4 Shortlisted Students worked on various pages for the ACM - W Standalone website and successfully delivered results. The mentorship concluded Dec 12th. Certificates were awarded to the participants. Applicants for Mentorship: 10 Shortlisted Mentees: 4
 16. ACM-W Newsletter Issue #07 Released: Issue released on October 30.
 17. Data Science Series Session 3: The session covered clustering. Different algorithms such as KMeans Clustering algorithm and Elbow Method were implemented on Bookings.com Reviews dataset.
 18. ACM- W Social Media Quiz Competition: A two week online quiz was held on ACM-W's Instagram page. Every day one tech-related quiz question was put up and participants were required to answer it. One female and one male winner with the most correct answers were declared after the quiz and were offered a one on one mentorship session on Teams app. Online Participation: 50
 19. MS Tech Day 1: One day event with multiple workshops on Microsoft Technologies. Attendees will be provided certificates, swag and workshop content. Catering was provided by Subway and 3 Udemy courses were offered to attendees (at our own cost) Event Attendance: 40
 20. Create your own Handwriting Recognition Application using Azure APIs: Participants were taught how to use web development technologies such as HTML, CSS & JavaScript and utilize Azure Cognitive APIs to build a web based application that could successfully recognize the contents of an image. Event Attendance: 20
 21. Predicting Flight Delays using Azure Notebooks: Participants utilized Jupyter Notebooks along with Python and a few of its libraries such as Pandas, Matplotlib & Scikit Learn. By end of session students were comfortable working with Azure Notebooks and working on basic machine learning models using Python. Event Attendance: 20
 22. Data Science Workshops conclude and certificates are awarded to students who attended.

AIChE – BPDC Student Chapter:

1. As part of Enginuity from 5th Feb to 7th Feb 2019, AIChE Student Chapter organised two fun-filled events: 1) Chemiscene, which involved testing all senses: taste, smell and touch, and 2) A Minute to Win it: 5 tasks that should be completed in the least amount of time.
2. AIChE BPDC Student Chapter organized an Internship Panel on 3rd April 2019, where eight students, who have completed their PS II, spoke about their internship experience. It was a very effective panel discussion, and extremely helpful to those who wanted to understand how the PS program works, the series of different job roles Chemical Engineers are given: from Process Safety to Sales of Chemicals and the work environment in the companies. Students obtained valuable advice from their seniors, and overall it was fruitful.
3. As a part of Techofest during 2nd and 3rd October 2019, various fun activities were planned by AIChE BPDC Student chapter.
4. Process Simulation Workshop using Aspen Plus and HYSYS: AIChE BPDC Student Chapter has organized a one-day workshop for students on Saturday, 19th October 2019. Resource person: Dr. Nishant Pandya.
5. Matlab workshop: AIChE BPDC Student Chapter has organized a one-day workshop for students on Saturday, 2nd November 2019 for students. Resource person: Dr. Eldhose Iype.
6. A fourth year chemical engineering student, Aisha Raouf organized a demonstration session on the operation of the Tensiometer on 7th November 2019.
7. A Chem-E-Car Info Session was organized by the Chem-E-Car student group on 25th November 2019 for all students of BPDC to spread the awareness interdisciplinary nature of the Chem-E-Car competition and encourage more students to participate in the event next year.
8. Students of Chemical engineering visited a manufacturing plant at Becker Industrial Coatings LLC, Ras Al Khaimah on 5th December 2109.
9. AIChE board members have been volunteering with the department's school outreach initiatives: helping organizing sessions for school students' visits to the department, assisting professors in related demonstrations and represented in the events in the external events along with the admission department.
10. A final year student, Urvashi Satwani, who had earlier been selected as Regional Liaison for the Middle East of the AIChE's Executive Student Committee (ESC) was appointed as the Chair of the Sister-chapter subcommittee. The sister chapter program of the AIChE involves the pairing of a US-based AIChE Student Chapter with an International Student Chapter. Urvashi was responsible for overseeing this entire initiative, over a network of 30+ pairs from around the world. Later two more students, Jasiya Harris and Meenakshi Sivaramakrishnan were chosen to be Regional Liaisons of the Middle East.

IEEE Student Chapter:

1. IEEE organised a Pitching Competition on October 3, 2019 where students could come up with any idea, from educational field, scientific areas to even something that can be used to improve our daily lives. The contestants gave a short talk along with a presentation or prototype (depending on their choice of topic), and expressed it to the panel of judges- Dr. Anand Kumar and Dr. Nitin, who then chose the best idea. The judges had a tough choice to make as around 20 enthusiastic participants turned up for the competition.
2. IEEE organized a workshop on October 6, 2019 on Arduino which included an introductory presentation followed by hands-on learning. This workshop was delivered by Mr. Sarthak Sethi. The attendees were also provided with a short manual which included 8 projects based on Arduino, some of which were implemented in the session and some which could be used for further practice.

IFOR Association:

1. Team presented (30 Jan to 9 Feb, 2019) Parking Fee Enforcement drone at innovator 2019. A completely autonomous drone coupled with Neural network-based license plate detection using YOLO; Targeting the law enforcement department of Abu Dhabi. Innovator proved to be a very good experience and gave good reviews on project, how we can improve further. It reviewed by the Department of Transport, Abu Dhabi who were working on a similar project. They commented that this neural net-based detection is faster than their traditional detection systems. Also reviewed by Monitoring and Control Center Abu Dhabi and were highly appreciated.
2. IFOR team students (27 March 2019) have demonstrated the basic concepts of UAV's and were given hands on experiments which involved building a basic drone using LEGO, which help them visualize and easily understand concepts in a user friendly, safe and responsible way.
3. Presented a project "Skeye" at Show'n'Tech 2019, In Tech on June 8th 2019.
4. Team IFOR students have participated in the BIC competition held at BITS Pilani, Dubai Campus and they were in the selection list of Final Competition held on November 9 2019 but not won the prize. (Submitted and went up to final round, but didn't win the Prize)

AOEE Association:

1. AOEE had organized a Technical Competition called Defuse the bomb as a part of Enginuity during 5& 6th February 2019 with 60 participants.
2. AOEE had organized a Technical Competition called Mind Spark as a part of Enginuity from 6th to 7th February 2019 with 70 participants.
3. AOEE had organised a Site Visit to Grid Solutions on 7th March, 2019.
4. AOEE had organized a Technical Competition called SPINOID on 3rd October 2019
5. AOEE had organized a Fun cum Technical Competition called Volted- In on 5th Dec 2019.

Chimera Association:

1. On 31st October 2019, to celebrate Halloween, the Biotech association, Chimera, organized 'Crime Scene Investigation' focused on team building efforts. The game was open to the students of all the Departments.
2. Farewell was given for the outgoing batch on 25th April 2019.
3. Fresher's Welcome was organized for the 2019-2020 batch students on 18th September 2019

Computer Science Department Orientation Pitch:

1. Codathon: BPDC ACM in collaboration with ACM W presents "Codathon", an all in one Capture the Flag Style coding and problem solving event at Technofest 2019. The problems range from basic riddles and logical puzzles to ciphers and cryptographic keys. For every problem solved, take control of a country in the world. The team that accomplishes a majority of world domination will win AED 100/-. Event Attendance: 25
2. ACM Q Problem Solving Event: ACM organized its "Q - Quiz "on day 2 of the Technofest 2019. Q aims to test the student's problem solving skills by means of a questionnaire comprising of logical and application based problems. There were 12 questions from different areas of Mathematics such as Algebra, Combinatorics, Logic, Probability etc. The highest possible score as 135 and the winning team comprising of Ashlyn & Rifah banked full points. They received a cash prize of AED 100/- along with ACM Goodie Bag. The official certificates were distributed by Dr B. Vijaykumar in the closing ceremony of Technofest held in the Auditorium. Event Attendance: 31
3. Sunrise School Visit - ACM School Program: Volunteers from the ACM Chapter visited a local school to spread the spirit of computer science as part of BPDC ACM's newly formed School Program. The program aims to bring together university computer science students with high school students to further the spirit of programming and computer science. ACM BPDC in association with Admission Department, Bits Pilani Dubai had set up a stall at Sunrise English Private School's annual career fair. Students from Grade 9, 10, 11 and

12 visited the stalls to gain insight about college education. Representatives from ACM BPDC enlightened the students about Computer Science and its scope and accordingly promoted ACM in general. The event also involved a few fun questionnaires where the students would take ACM goodies and chocolates home for each question they answered correctly. Event Attendance: 300+

4. PC Building Workshop: The PC Building workshop will involved the council obtaining PCs from the university IT department to disassemble them together as a group activity and reassemble them back as an exercise. Tutorials and slides were used and students got their hands messy with bolting and unbolting the numerous components that go into an average Desktop computer. Event Attendance: 25
5. AI Gaming: In this workshop, participants were taught how to create a game-playing bot using Python. The participants also learnt how to host the bot on the Azure cloud. Subways were provided. Event Attendance: 35
6. ACM Q Online Problem Solving Event: Q online is a sequel to ACM Q held during the month of October. Participants will answer logic puzzles, algorithm questions and more from our social media handles such as WhatsApp and Instagram and a leader board is maintained. Solo participation and winner gets AED 100/- and runner ups receive goodies and algorithm books. The leader board was updated every day . The winner: Himanshu Rathi. Online Engagement: 100 per post, 15 submissions per post on avg.
7. ACM Hack X: Major League Hacking Local Hack Day: To celebrate BPDC ACM's 10th birthday, we organized a local hack day. Build Day is a day-long global hackathon that you can share with your community. Bring your ideas to life by building new projects and working together with others. Participate in workshops and talks with a community around the world. Over the course of 12 hours, attendees will use hardware and software to build everything from websites to robots to mobile apps and more. We held workshops during the 2 day hackathon as well. The winners won AED 1000/- sponsored by the ACM Treasury. Participants were provided with Subways on both days along with Coffee and Donuts. A PlayStation was set up for unwinding. We provided technical books and also invited 2 industry professionals to judge the event alongside Dr. Santhosh Kumar. We had a cake cutting for the council members. Event Attendance: 40
8. How to Collaborate with GitHub & GitKraken: ACM organized a workshop titled "How to Collaborate with GitHub and GitKraken". The instructor explained the nuances in working with GitHub and explained the essential concepts that are useful for collaboration. The audience worked together to write a recipe for a chocolate cake. The instructor later demonstrated the use of GitKraken to work locally. Since this workshop was the first of many organized as part of MLH Learn Day, there was a provision of food, sponsored by Microsoft and Subway. Event Attendance: 25
9. Hack the Technical Interview; Algorithms Practice by Citrix: This workshop was conducted during the MLH local host event. Most companies assess people based on a coding interview. However, people have difficulties in performing well due to the lack of knowledge of the interview experience. Mohammed Shoaib explained the key points to keep in mind during a technical interview and what to expect. The attendees were paired in groups of 2 and took turns in being the interviewer and interviewee to solve 2 problems. Additionally, they were given 35 min to solve each problem. Together, we analyzed the time & space complexity, further optimizations and different techniques. Event Attendance: 20
10. Introduction to the Wolfram Language: A hands-on introduction the Wolfram Language, to demonstrate the full power of Wolfram alpha, Wolfram Mathematica and the rest of the Wolfram technology Stack. Workshop involved executing complex queries on the Wolfram Computational Engine. Participants were given free access to the Wolfram cloud for a period of 30 days. Wolfram was the official local hack sponsor for ACM Hack X. They further provided Wolfram I One access to the top 3 teams for a period of 1 year.
11. Coding Boot camp Completion and Evaluation Session: Subway meals were distributed on the first day. The evaluation took place the next day. 38 participants of the coding boot camp over the semester would be eligible for certificates of type participation, completion and distinction.

Microsoft Tech Club

Name of Event	Date	Description	No:of Participants
Seminar	31-Jan-19	Career Development by Sallyann Della Casa	30
Frynapse	05-Feb-19	Virtual Scavenger Hunt	20
CodeBlitz	06-Feb-19	Code Debbugging Challenge	20
Inquzzitive	07-Mar-19	Sci-Fi Quiz	40
AI Play	30-Mar-19	AI Gaming event in collaboration with Microsoft Student Partners and ACM	60
Technobuzz	April	Series of workshops in collaboration with Microsoft Student Partners covering various topic in CS industry	30
Seminar	04-Apr-19	Microsoft Office Specialist Certification by FAME Academy	30
Treasure Hunt	23-Apr-19	Treasure Hunt	60
Orientation	15-Sep-19	Orientation	30
Quiz	16-Sep-19	Tech Quiz	30
Typing Challenge 1	22-Sep-19	Typing Challenge	50
Typing Challenge 2	23-Sep-19	Typing Challenge	51
CodeBlitz	03-Oct-19	Code Debbugging Challenge	20
Data Science Workshop	October	Workshop in collaboration with Microsoft Student Partners and ACM-W	30
MS Tech Day -1	16-Nov-19	6 week workshop in collaboration with Microsoft Student Partners and ACM-W	40

Flummoxed Quizzing Association**Activities: Flummoxed 2019**

- The quizzing club of BITS Pilani – Dubai Campus, Flummoxed, had a very fruitful year where the club promoted and created a quizzing culture on campus by conducting numerous quizzing events, weekly quizzing sessions, and organizing quiz competitions in association with multiple corporate and academic entities. Some of them have been listed below:
- TAPMI Quiz on The Beach: The quizzing club acted as a promoter for this event held at Manipal University Dubai Campus. BPDC team qualified for the international final for the fifth year in a row and flew to Manipal, India to compete in the International Finals.
- Pop Fiesta: Held during the Sparks Festival 2018, this event saw over 30 participants from the university compete against each other in a quiz based on the pop culture events which took place in the past decade or so.
- The Big Oh: Held during Enginuity 2019. The Big Oh was conducted in collaboration with ACM Chapter, BITS Pilani Dubai Campus as a quiz on all things science and tech. There was a prelim round and a final round. The event had an attendance of 60-70 students and prize money of AED 300 was awarded to the top 3 winning teams.
- Quizzards by Flummoxed: During the second semester of 2018-2019, Flummoxed set up groups on WhatsApp and Instagram called Quizzards and initiated a program called "Question of the Day" where participants of the group could create and answer fun quiz questions on any topic just for kicks. There was no incentive involved or contest but was created for promoting quizzing as a fun social activity. The engagement over 3 months exceeded 300 participants and the average engagement per question was around 10-15 participants online.
- Lights, Camera, Quiz: Held during BITS Film Festival 2019. LCQ was conducted in collaboration with Paribhasha, the Drama Club as a quiz on all things film: Hollywood and Bollywood. There was a prelim round and a final round. The event had an attendance of 70-80 students and certificates were awarded to the top 3 winning teams.

7. Quiz Du Fromage: Held during Jashn 2019. QDF was conducted as a quiz on all things food: Multiple cuisines and culinary facts. There was a prelim round and a final round. The event had an attendance of 70-80 students and certificates were awarded to the top 3 winning teams.
8. Tata Crucibles: An event held in partnership with the wildly successful Tata Crucibles Campus Edition team saw over 500 participants from universities across the UAE compete against each other to win cash prizes worth up to 30,000 AED. Our university was placed second in the competition, with 5 out of 8 final seats occupied by BPDC students. Shaleen Bengani and Jitesh Prasad Guravre presented the region in the International Finals.

B4.15.3: Center for Innovation, Incubation and Entrepreneurship, Dubai (CIIED)

Report for the year 2019 is appended below

New Venture Creation course was offered to the students 1st Sem 2019-20

Three students (One team) from Dubai campus enrolled for the NVC course. It was heartening to know two of the students secured A grade in the course across the four campuses.

Orientation (1st September 2019)

CIIED conducted its recruitment in the last week of August and the orientation of the team was held on 1st September, 2019. The majority of the team this year is new and this orientation was held to tell them about the vision and goals of CIIED and at the same time familiarize them with the various flagship events we hold. The formal assigning of responsibilities also took place on this occasion and team members were formally inducted into the team.

Talk on Entrepreneurship by Mr. Dilnawaz Khan (15th September 2019)

CIIED hosted an interactive session with Mr. Dilnawaz Khan. He is the founder and chief evangelist at Codesign labs and founder of Power Deck. He has spoken at more than 100 conferences, has over 11 years of experience in the design and technology space, and has 6 years of experience in the startup incubation industry. In the talk, Mr. Dilnawaz shared his knowledge and expertise, developed out of years of experience in the field and he interacted with students, motivating them towards entrepreneurship.

MoU between BITS Pilani Dubai Campus and Kregzo (19th September 2019)

A MoU was signed between Kregzo Innovation Tech FZE (Kregzo) and BITS Pilani Dubai campus on 19th September 2019 by Mr. Nitin Bhalla, Founder, Kregzo Innovation Tech FZE) and Prof. R. N. Saha, Director, BITS Pilani Dubai campus. Kregzo is a creative community formed to collaborate and network with likeminded people that validates your idea, connect you with mentors and take your concept to the market. The purpose of this MoU was to build an entrepreneurial ecosystem at BPDC and to provide continuous Entrepreneurial support to BPDC students for a period of one year to ensure the startups get a successful launch pad in UAE.

MANTRA AWARDS 2019:

Mantra Awards selection process was coordinated and completed on **23rd April 2019** by a six member panel comprising of Dr. Trupti Gokhale - Faculty In-charge, CIIE, Dubai Campus, Dr. Nitin Vihari- Assistant Professor, Humanities and Social Sciences Department, Dr. Anand Kumar- Professor, EEE Department, Dr. Vincent S Kumar- Assistant Professor, Mechanical Engineering, Dr. B.B.Gulyani, Associate Professor, Chemical Engineering, Mr. Sultan Morbidiwala- Member CIIE. The Mantra awardees were

Outstanding Leadership- Male	- PRANAY ADDEPALLI	2015A4PS0270U
Outstanding Leadership- Female	- ANOUSHKA PIRTA	2015A3PS0065U
Social Leadership	- NAVISHA DAGA	2015A7PS0245U
Entrepreneur Of The Year	- TARUN KRISHNA JAYACHANDRAN	2015A4PS0388U
	- MOHAMED NAWAZ MUALLIM	2015A4PS0205U
	- YASHODHAN NAIK	2015A4PS0424U

Talk by Dr. Chetan Singh Solanki on 21st April 2019

Dr. Chetan Singh Solanki is Professor at Department of Energy Science and Engineering, IIT Bombay. He has been working in the Renewable Energy Sector from the past 20 years now. Prof. Solanki was on **Gandhi Global Solar Yatra (GGSY, www.ggsy.in)**, with an aim to sensitize communities across the world on the dire consequences of climate change and the need to ensure energy sustainability. With the technology advancements and economic viability, the concept of Energy Swaraj or localized energy solutions for self-sufficiency can be thought of, as an action to mitigate climate change. **He visited Dubai Campus and delivered a talk to the students and faculty on 21st April 2019**

BPDC CASE CHALLENGE (28th March 2019)

CIIED hosted the BPDC case challenge and saw an enthusiastic participation from the students. The teams consisted of two members each and were assigned with case studies spanning different geographical regions and were on the topic “Business development empowering the people”. The case studies needed to be meticulously studied and interpreted and the teams were then to arrive at a solution for the mentioned problem in the assigned case studies. The teams presented their ideas to a panel of judges comprising of Dr. Natesa Prasad, Dr. Nitin Vihari and Dr. Parizad Dungore, with a profound acumen in business and technology.

The first position was secured by **Team JusReign** (Anubhav Gupta and Keven Shah).

Team Swasmi (Smriti Nagesh and Swathini) bagged the second position.

B4.15.4 PRACTICE SCHOOL**Practice School Programme**

All first degree students have the option of Practice School. The past statistics show that almost all the students opt for this programme. PS-II was conducted at 57 stations with 203 students and 23 faculty during January – July 2019 and at 43 stations with 113 students and 21 faculty during August 2019 -January 2020. PS-I was conducted at 63 stations with 278 students and 21 faculty during June - July 2019.

Categorization of PS stations is given below:

S. No.	Category of Organizations	No. of Organizations	
		PS-II	PS-I
1.	Banks & other Financial Institutions	02	02
2.	Design, Development, Consultancy and Software Organization.	33	23
3.	Trading	14	05
4.	Production, Manufacturing and Maintenance	19	20
5.	Other	03	13
Total		71	63

With the present annual PS intake of 594 students, the PS programme covers almost entire eligible student population of the Institute. It is worthy to note that the Practice School operation at the Dubai Campus has been conducted successfully since 2002. The statistical details of the distribution of students and faculty at PS-I stations are given in Annexure B4-15 followed by the details of the Statistics of PS-II are given in Annexure B4-16. The Growth statistics of PS-I, PS-II are given in Annexure B4-17, while facilities available at various PS-II stations are given in Annexure B4-18. The growth of PS stations is depicted in the graph 1.

Following is the breakup of students who were registered in PS-I, PS-II.

PS-I	Summer Term 2019	278
PS-II	II Semester 2018-2019	203
PS-II	I Semester 2019-2020	113
Total		594

PS-II Assignments: Institute’s Contribution to Industrial Development

Apart from developing skills in Professional judgement, data-handling, documentation, decision making ability etc. in students, the PS-II assignments also relate to real life problems of the host organisation. PS-II assignments listed in Annexure B4-19 were completed by the students at their respective PS-II stations during the year 2019.

These assignments have been implemented to fulfil the ongoing production, modernization, design, development and research needs of the participating industries; thus, directly contributing to the requirements of industrial R & D.

Stipend

In appreciation of the contribution made by our students towards the professional wellbeing of the organization, a stipend / out of pocket allowance is paid to the students by the organizations. In addition, other facilities like accommodation, subsidized lunch, transportation, insurance, TA & DA, foreign travel expenses are also provided by some of the organizations.

During the year under review, the PS activities grew further with the some new PS II stations (Table1).

Graph 1

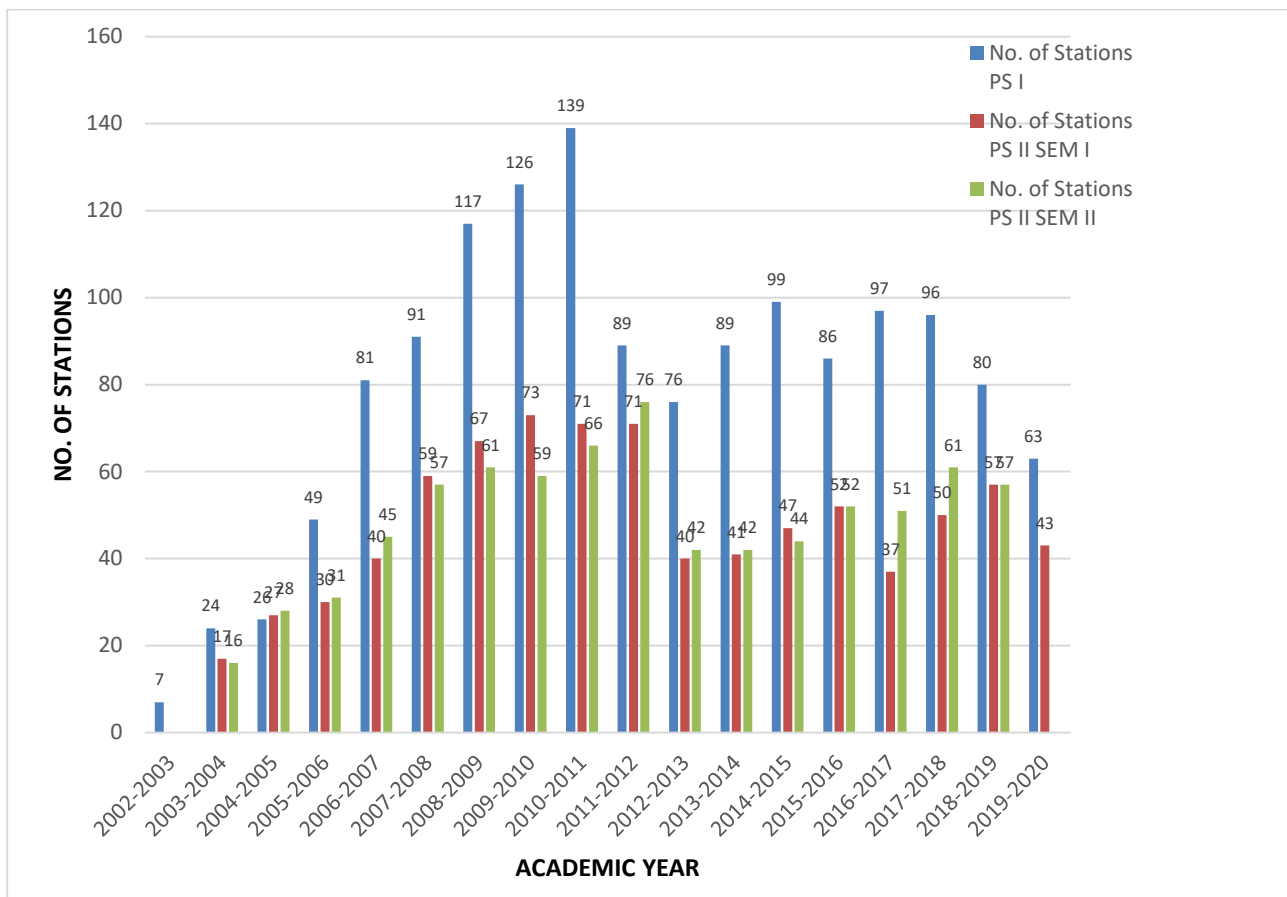


Table1 PS-II Stations Added during the year 2019

S. No.	Name of the PSII Station	Out of pocket allowance in AED & Others Facilities
1	Aarya Engineering, Sharjah Airport International Free Zone, Sharjah	—
2	Al Shirawi Equipment, Al Quoz Industrial Area 3, Dubai	1200
3	Giro Fintech Ltd, DIFC, Dubai	—
4	Grant Thornton, Sheikh Zayed Road, Dubai	1000
5	Shapoorji Pallonji International FZA, Dubai Airport Authority(DAFZA),Dubai	Based on performance
6	THL, Dubai Investment Park 2, Dubai	1200
7	UTP Pipe, JAFZA, Dubai	1000

B4.16 CENTRAL FACILITIES

B4.16.1 Central Library

BITS Pilani, Dubai Campus Library, a gateway to knowledge resources, is located in a separate building spread over two floors and area of about 29,680 sq. ft. It has a contemporary design with reading halls, reference section, stacking area, faculty lounge and digital library with 20 computers, internet browsing centre with 22 computers. The Library operations are fully automated and all the resources are secured with RFID security system. Library catalog (OPAC) can be accessed through exclusive 8 computers. Library has a seating capacity of more than 350 and 70 individual study carrels.

Library hours are: Sunday to Wednesday from 7.30 AM to 10.00 PM, Thursday from 7.30 AM to 7.00 PM, Friday from 4.00 PM to 6.00 PM and Saturday from 1.30 PM to 8.30 PM. The Library hours are extended till midnight 12 AM during all the evaluation components including comprehensive examinations. The Library remains closed on national and Institute holidays.

The mission of the Library is: to collect, organize, preserve and provide access to the information necessary for the institute, to achieve its educational, research and service goals; to improve and enhance access to information in all forms, using innovative technology thereby having a broad based collection, to assist in meeting the needs of students, research scholars, faculty and staff. The Library renders standard services such as borrowing / lending, reference, referral services, etc.

Acquisition Section

At present, the library has a collection of 22852 books. The collection of the library is growing continuously on a regular basis. 982 books were added to the existing collection during the year in major disciplines of engineering and sciences. The Library procured a good collection of fiction and general aptitude books on TOEFL, GMAT, GRE, IELTS, GATE. Books on Arabic language have also been added.

E-resources

1. The Library caters to the users' needs with the collection of abundant e-journals from the following e-databases: IEL Online through IEEE Xplore Digital Library, American Society of Mechanical Engineers (ASME) online journals, ACM Digital Library, JSTOR e-journals, EBSCO Engineering Source and EBSCO Humanities International Complete. The e-databases have full text of e-journals with back issues, conference proceedings, e-books and reports.
2. The Library has MIT Press eBooks with Perpetual Access to 692 titles which are accessible through IEEE Xplore Digital Library.
3. The latest and previous year question papers have been digitized and made available through the library WEB enable online catalogue which can be accessed from anywhere at any time.
4. The Library subscribes to e-papers of "Khaleej Times" and "The Hindu".

Electronic and Digital Services

1. Federated Search for Online databases (e-journals), E-books and OPAC through e-library portal which enables the users to do one-point search and access from anywhere at any time.
2. Library Digital Repository which contains the digital contents of BPDC Magazine, BPDC News, Practice School Reports, Project Reports, Research Publications of BPDC faculty, Thesis / Dissertations.
3. RFID enabled security system and Self Service Kiosk for issue and return of books which enables quick and easy service to the user community.
4. Web enabled Online Public Access Catalogue (Web OPAC) wherein the users can access the catalogue remotely to search the resources and check their account.
5. The Library has Wi-Fi facility within the library which enables the users to use their personal devices for internet browsing / project / thesis work.

Reference Section

1. The Library has latest editions of Encyclopedias, Dictionaries and Hand books on core disciplines of Engineering, Technology, General Sciences and General Knowledge.
2. The Library subscribes to print version of 46 international journals, 57 magazines and 4 local newspapers.
3. The Library has 806 back volumes of journals.
4. Library has more than 1595 CD-ROMs on engineering courses and there are 5 computer terminals exclusively meant for the accessing these.
5. Library has 475 thesis reports, 868 project reports and 2369 practice school reports submitted by students are available for reference.
6. The Library has an MOU with the Al Ain University of Science and Technology in UAE for the mutual benefit of both the institutions to facilitate the users to avail Inter Library Loan (ILL) of resources.

Other Services

1. The Library provides Selective Dissemination of Information (SDI), Conference Alert Service, Competition for students alert service and Latest arrival alert service to the patrons and users.
2. Library provides network based printing, scanning, photocopy and binding facilities to the library users.
3. Useful articles, news, newspapers clippings related to education are being displayed on the library notice board for the benefit of students and faculty.
4. Library has separate discussion rooms for students and a faculty reading room. Additionally, 2 discussion rooms are made available.
5. 10 computer tables in the Library have been replaced with new modern tables in the digital library section.

6. 10 additional Reading Carrels are made available for individual study.

Facts about the Library

The library collection has grown steadily. Some of the significant statistical data about the library are as follows:

SNo.	Items	Total
1	Number of books	22,852
2	Average number of books circulated per day	127
3	Books added during the year 2019	982
4	Number of print periodicals subscribed	103
5	Online Databases made available on library site	6
6	The IEEE - MIT Press eBooks with Perpetual Access	692
7	CD-ROM collection	1595
8	Total no of back volumes of journals	806
9	Total no. of Reports (Thesis and Project Reports)	1343

Library Events

World Book and Copyright Day Celebrations

1. BPDC Library has organized a BITS Book Exhibition 2019 (BBE 2019) on 17th and 18th March 2019. Books related to Mechanical, Civil, CSE, EEE, ECE, EIE, Chemical, Biotechnology Engineering, Management, Fiction, GRE, TOEFL, IELTS, etc., were displayed by leading vendors. Deans, HoDs, Faculty, Staff and Students visited the BBE 2019. Student buyers were given a lucky draw coupon. At the end of BBE 2019, 3 Students who won the lucky draw were given gift vouchers sponsored by the vendors worth of AED50/- to purchase books.
2. On 24th March 2019, BPDC Library organized a talk on "Literary Writing & Getting Your Book Published" by Ms. Anuradha Vijayakrishnan. The guest/author signed on the Library copies of books "Seeing the Girl" and "Who-Am-I-Bird". Ms. Anuradha graduated in Chemical Engineering and MBA from XLRI started the talk with the recollection of her passion for literary activities and writing and talked about her journey as a writer. She enlightened the students on literary writing and important factors that have to be considered when making a decision about publishing the book. She inspired to keep the passion for writing more than publishing the work. She is also a 2010 alumna of the Prague Summer Program for writers. She has won numerous prizes at various literature competitions and her debut novel, "Seeing the Girl", was long listed in 2007 for the Man Asian Literary Prize. She has also authored the "Who-Am-I Bird", a poetry collection, which explores the outer and inner dimensions of our planet and our many layers of identity. She gave a talk at the Emirates Airline Literary Festival 2019 held in Dubai.
3. World Book and Copyright Day celebrations concluded on 23rd April 2019 with free distribution of Books and magazines to Students, Faculty and Staff in order to encourage reading habits.
4. On 9th April 2019, BPDC Library, organized training session on "IEEE Xplore Digital Library : Delivering Research Better than Ever" by Mr. Ranbir Singh, IEEE Client Services Manager. The session was useful for Research scholars. The faculty from EEE department participated and interacted with the speaker

Library Staff Participations

1. Mr. K.Jayachandran, Assistant Librarian attended the Pre-Conference Workshop on "Best Practices & Trends in Collection Development and Information Literacy" held at Al Maktoum Medical Library, Mohammed Bin Rashid University of Medicine and Health Sciences, UAE, 27th November 2019.
2. Library Staff and Committee Members visited Sharjah International Book Fair held at Expo Centre, Sharjah, UAE on 5th November 2019 and purchased books for Library.
3. Librarians Dr. R. Sivakumar and Mr. Jayadev P Hiremath attended the 5th UAE Libraries Symposium 2019 "Tolerance of Information and its Application in Libraries and Information Institutions", Organized by The Cultural and Scientific Association, Dubai, UAE, 20th October 2019.
4. Dr. R. Sivakumar, Librarian and Mr. K. Jayachandran, Asst. Librarian, visited the GITEX technology week on 9th October 2019 held at Dubai World Trade Centre, Dubai. and explored the technologies for BPDC Library.
5. Dr. R. Sivakumar, Librarian attended the ILN Spring Symposium on "Education, Impact, and Reflexions", Organized by ILN GCC held at New York University, Abu Dhabi, UAE, 24th and 25th April 2019.
6. Mr. K.Jayachandran, Assistant Librarian attended the Regional Workshop on "Institutional Digital Repository for National Digital Library of India Project" held at BITS Pilani, Pilani, India, between 25th and 26th February 2019.

B4.16.2 Infrastructure and Facilities

The campus has world-class, state-of-the-art facilities with well-equipped labs and workshops, separate Library block, Academic Block, Sports Complex, Canteen, Clinic, Gymnasium, etc. The Campus has hostel facility for both boys and girl student with single occupancy, central air-conditioned furnished rooms and a full-fledged mess which serves both vegetarian and non-vegetarian food.

In addition with the above to improve the infrastructure further, we are working on the refurbishment of the campus. Part of that in 2017 we have added the Tennis Court in the campus facility and in 2018 a 6 lane running track and 4no's turf pitch is been added.

B4.16.3 Laboratories

The Institution's laboratories are of international standards and they have grown from 2 to 48 in the last 17 years, each well-equipped with the latest equipment and machines. The following table gives the discipline wise details of various laboratories:

S.No	Discipline	Laboratory
1.	Biotechnology	Biology Laboratory
2.		Instrumental Methods of Analysis Laboratory
3.		Genetic Engineering Laboratory
4.		Microbiology Laboratory
5.		Industrial Microbiology Laboratory
6.		Research Laboratory
7.		Microscopy and Imaging facility
8.	Chemical Engineering	Chemical Engineering I Laboratory
9.		Chemical Engineering II Laboratory
10.		Petroleum Laboratory
11.	Chemistry	Chemistry Laboratory
12.	Computer Science	Computer Programming Laboratory
13.		Object Oriented Programming Laboratory
14.		Microprocessors Programming & Interfacing Laboratory
15.		Data Structures and Algorithms
16.		Computer Architecture Laboratory
17.		Database Systems Laboratory
18.		Compilers Laboratory
19.		Computer Networks Laboratory
20.		Web Services Laboratory
21.		Software Systems Laboratory
22.	Electrical and Electronics	Electrical Machinery Laboratory
23.		Introduction to MEMS Laboratory
24.		Power System and Simulation Laboratory
25.		Power Electronics Laboratory
26.	Electronics and Communication	Digital Signal Processing Laboratory
27.		Simulation Laboratory
28.		Communication Systems Laboratory
29.		VLSI Design and CAD Laboratory
30.		Analog Electronics Laboratory
31.		Digital Design Laboratory

S.No	Discipline	Laboratory
32.	Electronics and Instrumentation	Process Control Laboratory
33.		Electronic Instruments & Instrumentation Technology Laboratory
34.	Mechanical	Workshop Practice
35.		Prime Movers And Fluid Machines Laboratory
36.		Engineering Graphics
37.		Production Techniques Laboratory
38.		Computer Aided Design Laboratory
39.		Heat Transfer Laboratory
40.		Material Science Laboratory
41.		Mechatronics Laboratory
42.		Fluid Mechanics Laboratory
43.		Physics
44.	Civil	Soil Mechanics Laboratory
45.		Surveying Laboratory
46.		Transportation Engineering Laboratory
47.		Concrete Technology
48.		Environmental Engineering

B4.16.4 Engineering Services

1. Communication and allied facilities

The following facilities are available for the benefit of students and staff:

i. IT Infrastructure Facilities and Support Services

- The Campus and the hostels are covered with the latest Cisco network Infrastructure of both wired and wireless hotspot environment which provides the internal and external connectivity to fulfill the computing needs of the students.
- We have Cisco sponsored networking research lab equipped with the required network components such as routers, switches, firewall, wireless controllers and access points to build the network from the base level to high level of networking. The Cisco lab has all the paper and soft copy material to help the students to learn and start the practical training on Cisco. This Cisco lab will lead the students to achieve the Cisco certifications and software defined Network projects.
- The data centre equipped with the following servers and Network components.

ii. Servers

- HP DL 380 series new generation
- HP Storage serve (SAN)
- QNAP NAS for Backup
- Dell M1000 Blade Enclosure with Three Blade servers
- Dell Power Edge R740XD GPU server

iii. Network Components

- Cisco Core switches Nexus series
- Cisco Edge switches
- Cisco Firewall
- Cisco Prime system
- Cisco Wireless controller

- f) Cisco Network admission control and access control system
- g) Cisco IP Telephony system
- h) Ucopia Internet access control
- i) Panasonic IP camera setup
- j) Most of our key critical applications are configured in Virtualized environment with load balancing and cluster mode. We have Business continuity and disaster recovery plan in place and we have a disaster recovery site is configured in different location to continue our operation in case of any unforeseen scenario. Periodic backup is scheduled by disk to disk method to backup the data as snapshots.
- k) We have Cisco Telepresence system (under BITS Connect 2.0 project) is implemented in our campus which is interconnected to all our campus in India. The Cisco Telepresence classroom, capacity of 160 seating will help the students to participate the online classroom sessions.
- l) The software tools like AUTOCAD, MATLAB, CATIA, SYNOPSIS, ANSYS, SPSS and ASPEN are available to the students along with a variety of compilers and operating systems.
- m) Smart print solution is implemented as a part of the E-campus solution project.

S.No.	Hardware	QTY	SOFTWARE
	Equipment		
1	HP ProLiant DL380 Gen9 Intel Xeon E5-2620v3 6-Core (2.40GHz 15MB) ,16GB (1 x 16GB) PC4-17000P-R 2133MHz, RDIMM ,3 x 300GB (10k rpm) Hot Plug 2.5in Small Form Factor Smart Carrier ,SAS Smart Array P440ar/2G , HP Embedded 1Gb Ethernet 4-port 331i Adapter ,HP 2U SFF - Easy Install Rail Kit w/CMA, DVD-RW 2 x 500W ,3/3/3	2	ESXI 5.5 update 2,Windows Server 2003/2008/2012 R2- Enterprise x64 edition,CentOS,REDHAT Linux Enterprise, Domain Controller, Web Server
2	HP DL 380 G7 Single Processor / Base Server, 32 GB Memory / 300 GB x 2 Hard drives & 600 GB x 6 Hard Drives	1	ESXI 5.5 update 2,Hypervisor,VMware,Replication server
3	HP DL 380 G7 Dual Processor / Base Server, 32 GB Memory / 300 GB x 2 Hard drives	1	ESXI 5.5 update 2,Hypervisor, Windows Server 2003/2012 R2- Enterprise x64 edition/Linux,Vcenter
4	HP MSA 2040 FC 6x900 SAS SFF Bndl/TVlite, HP MSA 900GB 6G SAS 10K 2.5in DP ENT HDD,	1	HP Storage server
5	12-Bay TurboNAS, Xeon E3-1200 v3 family, 4GB ECC RAM(max. 32GB RAM), 4-LAN, 10G-ready, iSCSI, RAID 0,1, 5, 6, 10, 5+spare, 6+spare, 10+spare, global hot spare, max 8-LAN, PCIe expansion slot x2, redundant power supply, Seagate NAS 4TBx12	1	NAS Backup Server
6	DELL PE M1000e Blade Enclosure Chasis (includes 1xCMC and 9x12V High Efficiency Fans) + 3 x 300W redundant Power supply and Fans + 3 x C19 / C20 power cords, Front Media Tray DVD + SD card for CMC + Integrated Analog KVM Switch, Select Brocade M5424 FC8 Switch Redundant (FI) 12 Ports with 2x 8Gb SFPs,	1	-
7	PowerEdge M630 Blade Server for M 1000 with 2 x Intel Xeon E5-2640 v3 2.6GHz,20M Cache,8.00GT/s QPI,Turbo,HT,8C/16T (90W) Max Mem 1866MHz (135W) Max Mem 2133MHz, 128GB RAM \8 x 16GB RDIMM), 2133 MT/s, Dual Rank, x4 Data Width, 2 x 600GB 15K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive. QLogic 57840S 10Gb Quad Port KR Blade Network Daughter Card, Emulex LPE1205-M 8Gbps Fibre Channel I/O Card for M-Series Blades	2	ESXI 5.5 update 2,Windows Server 2003/2008/2012 R2- Enterprise x64 edition,CentOS, Ubuntu,Debian
8	PowerEdge M630 Blade Server for M1000, 2 x Intel Xeon E5-2698 v3 2.3GHz,40M Cache,9.60GT/s QPI,Turbo,HT,16C/32T (135W) Max Mem 2133MHz, 2 x 600GB 15K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive, 64GB RAM (4 x 16GB RDIMM), 2133 MT/s, Dual Rank, x4 Data Width, QLogic 57840S 10Gb Quad Port KR Blade Network Daughter Card, Emulex LPE1205-M 8Gbps Fibre Channel I/O Card for M-Series Blades	1	ESXI 5.5 update 2,Windows Server 2003/2008/2012 R2- Enterprise x64 edition, CentOS

9	Dell Power Edge R740XD GPU Server,2X,Intel Xeon Gold 2.1G,16C,480GB SSD,2.4TB SAS,32GB RAM,2XNVIDIA Tesla V100 GPU	1	Ubuntu 16.0
10	Cisco ASA Firewall, ASA5585-S20-K9	2	Cisco IOS
11	Cisco Core Switch Cisco Nexus 9300 Series- N9K-C9372PX, 48 x 1/10-Gbps SFP+ and 6 x 40-Gbps fixed QSFP+ ports,	2	Cisco IOS
12	Cisco Edge switches- WS-C2960X-48FPD-L	3	Cisco IOS
13	Sonicwall NSA 5600 Series	1	Wan optimization
14	Cisco AIR-CT5760, AIR-CT5760 (H/A)	2	Cisco IOS
15	Cisco Unified Communication System,UCS-BE-6000	1	Vcenter
16	Cisco Voice Gateway ,CISCO2901/K9	1	Cisco IOS

B4.17 PROCUREMENT AND MAINTENANCE

Facility Management Department is in charge of Maintenance and modification of the infrastructure and facilities in the campus. Any modifications to the infrastructure are taken up by FM Department as per the approval of the Director, BITS Pilani, Dubai Campus. Procurement actions are initiated after the approval by the Purchase Committee, with respect to new equipment, spares, consumables, repairs and modifications of the existing equipment.

During the year 2019, the following jobs of up-gradation / repairs of the existing facilities were done.

1. Painting all common area for institute and hostel.
2. Replaced some of the old fluorescent lights to LED's.
3. Procurement of office furniture for the new faculty and staff.
4. Replaced 12 no's of Wash basin counter and granite top in Hostel A Block.
5. Procurement of bed, mattress and pillow for the hostel rooms.
6. Refilling and repair of Kitchen Hood System.
7. Carried out cleaning of drainage system and kitchen hood system.
8. Refurbishment done for two guest room in Hostel. One in "H" block another in "D" block.
9. Made 2 - glass partitioned Discussion room in library first floor for students.
10. Replaced new door in concrete lab and fluid lab.
11. Purchased 10n's of study carrel and 10 no's of computer table for library.
12. Fixed 2 no's of 3 ton FCU units. One for the class room "332" another for the Mess Store.
13. Purchased 2 no's of dryer and 2 no's of washer for hostel laundry.
14. Carried out Water testing and elevator safety testing as per municipality requirements.
15. Purchase motion sensors for hostel and academic building.
16. Purchased new gas boiling pan for hostel mess.

B4.18 EQUIPMENTS AND ACCESSORIES

A large number of equipment's and accessories were purchased for BITS Pilani, Dubai Campus. The list of major equipment's is included in the Annexure B4-21.

B4.19 STUDENTS ACTIVITIES, ACHIEVEMENTS, SCHOLARSHIPS, CULTURAL AND ACADEMIC FESTIVALS

B4.19.1 Student Council

President	Sanjeeth Reddy Gajjala
Vice President	HrishikeshSabnis
General Secretary	Raj Mukeshbhai Patel
Ex Officio Member	AbaanAhamed

B4.19.2 Day Scholar Representatives

1st Year	Ruman Ahmed
2nd Year	Shobal Philip Roy

3rd Year	Abhishek Nair
4th Year	Swetha Sunil

B4.19.3 Hostel Committee

Block A	Sheikh Shah Sabeel
Block B	Apoorv Arya
Block C	Chaitanya
Block D	Rishabh Kaushik
Block G	Jennifer Julius Michael

B4.19.4 Clubs

Dance (GROOVE)	SumeetJhadhav
Art (SHADES)	MeenakshiSivaramakrishnan
Social & Environment (MAKE A DIFFERENCE)	Allan Barbosa
Drama (PARIBHASHA)	Zaid Ahmed Baig
Public Speaking & Literary Club (EXPRESSIONS)	BalajiSohan
Photography (REFLEXIONS)	Atul Vijay
Music (TREBLE)	Aishwarya Suresh Kumar
Sports	Yasasvi Malka
Design (Oh, Crop!)	ManojTudi
Fashion Club (Allure)	Anushka Singh
Quiz Club (Flummoxed)	EshwaranVenkat

B4.19.5 Student Activities

BITS Pilani, Dubai Campus encourages student to participate in different extracurricular activities to build team spirit. Professional/scientific activities such as intra-university technical festival, Technofest and interuniversity technical festival, Enginuity are organized every year. Students also participate in scientific and professional bodies of international repute such as Student Branch of IEEE, SAE, ASME, ACM, ASHRAE as well as local associations such as MEA, CHEMERA, Linux Users Group, Microsoft Tech. Club etc. Students are equally encouraged to be involved in Sports, cultural and social activities. There are 12 clubs namely Dance Club, Arts Club, Public Speaking & Literary Club, Music Club, Drama Club, Social & Environment's Club, Photography Club, Sports Club, Design Club, Fashion Club, Quiz club and Astronomy Club. The following were some of the important activities held during the academic year 2018-19:

B4.19.6 The Social and Environment Club

Social and Environment club organized many activities during the academic year 2018-19, the activities are given below:

Organic Farming - Organic Farming is held weekly in the organic farm and ladyfingers, cucumbers, potatoes, chillies, tomatoes, beans, bottle gourds, etc, were grown near the tennis court. The students are educated about the benefits of growing food organically. The produce is distributed among the volunteers and the faculty members. Every week, new seeds are planted or maintained, and the current crops are harvested.

Newspaper Paper Bags- Through this initiative, the club aims to replace the plastic bags present in the grocery shop of campus, Mini Mart with newspaper bags handmade by the dedicated group of student volunteers.

This ambitious initiative is currently in its 15th week and the students are receiving excellent responses from the people thanks to the support from the minimart staff and of course from the group of volunteers.

The volunteers are asked to make 5 bags minimum every week and they are submitted in a batch of 25 bags every 4 days to the minimart. Students also meet up in a common hour every week to make the bags together.

Mental Health Awareness Workshop - A mental health awareness workshop was organized by the club on 23rd September 2018. The workshop aimed to promote conversations about mental health and help in ending the stigma surrounding mental health. Students were invited to come and engage in an open discussion with topics ranging from anxiety, peer pressure, self-harm, substance abuse and how to deal with these issues.

DaanUtsav – Joy of Giving Week - DaanUtsav, or the Joy of Giving week was held from 30th September to 4th October 2018. The event was organized by the Social and Environment Club. The club organized a clothes and detergents collection drive throughout the week. All the commodities donated by the students and faculty members will be given to the Red Crescent Society. A blood donation camp was also organized in association with Latifa Hospital during this week in which a lot of people volunteered to donate blood. At least, 100 units of blood were donated by the students and the faculty members.

English Classes - English classes are organized regularly to help the supporting staff improve their language skills. These classes help encourage and empower their communication skills. The enthusiasm shown by the supporting staff through their regular attendance and also by the student volunteers is commendable.

'MINDFULNESS' Workshop - A workshop on 'MINDFULNESS' was conducted by the Social and Environment Club on the 25th of November 2018. The main aim of the workshop was to spread awareness among students regarding mental health and encouraged them to take care of themselves. Activities like chocolate tasting, impromptu theatre and coloring were conducted by life coach Shreya Maheshwari. Students also had a personal one to one session with the life coach to discuss about any other personal issue.

MAD club also collaborated with other clubs on this day to raise awareness. 'Shades' held a pink card making competition for cancer patients. 'Expressions' kept a stall where students could write letters or words of support to breast cancer patients. 'Groove' and 'Trebel' also performed and showcased their support. Cupcakes with Pink frosting were also sold to students as part of 'Pink Day'.

Christmas Breakfast - On 25th December 18, the club hosted a Christmas Breakfast for around 45 members of the supporting staff of the institute as a token of appreciation. Food boxes were distributed along with tea to each one of them to spread the "Festive Joy".

Spectrum- On 26th April 2019, The Social and Environment Club of BITS Pilani, Dubai campus organized one of the most inspirational events, Spectrum 2018. An event to spread happiness amongst the special needs students, it gave BPDC students an opportunity to view and be a part of the world through someone else's eyes. The theme for Spectrum was based on Winnie the Pooh and his friends in the Hundred Acre Wood. The event was inaugurated with the lighting of the auspicious lamp by the Dean of Student Welfare, Dr. Priti Bajpai, the faculty in charge of the club, Dr. Geetha and the office bearers of the club. It was followed by a short welcoming speech. The campus students also sang and danced for the little ones. Over 120 students volunteered to organize activities such as games, singing, sketching, dancing and painting in which 140 students from Senses Centre, Al Noor training Centre, Manzil Centre, stepping stones Centre and National Institute of Vocational Education- participated and won several prizes. Smiles erupted on the faces of the children when they were awarded goodie bags full of exciting things and medals to appreciate and recognize their efforts. The event was a great success as it was able to achieve its primary goal of bringing happiness amongst those little princes and princesses and it also taught BPDC students, the virtue of showing gratitude and love.

Bag of Love - Bag of love, an initiative by The Social and Environment club was held on 1st May 2019. It was an event to appreciate the efforts of the support staff and security, throughout the year. They ensure that the campus is kept in safe hands, so that it functions smoothly. The event was held under the presence of the Director Prof. Dr. R. N. Saha, Dr. Geetha, office bearers and members of the club. The Director and the President of the club, shared a few words to appreciate the efforts of the support staff and security members. It was followed by the distribution of gift bags, containing everyday items such as snacks, juices and other household items. The purpose of the event was to bring smiles on the faces of the support staff and club members ensured that they were able to achieve that.

Valentine's Day- On 14th February 2019, the club had set up a stall to spread love and raise funds for 'Spectrum' as well. A stall was set up by the students which sold handmade cards, roses, donuts, cupcakes and chocolates. One could decorate the cupcakes themselves and send it to their loved ones anonymously as well!

International Women's Day - International Women's Day is celebrated globally on March 8th. The Social and Environment conducted a workshop on Women's health in general on March 7th, 2019 in G-34 from 12 to 1 pm as part of this occasion. It was conducted by Dr Lakshmi who is a practising gynaecologist in Zulekha Hospital who educated the attendees about the general illnesses prone to women. The officers bearers also asked the faculty and the staffs which female role model they would like dedicate this day to and it was posted as a collage on social media. The club also put up posters of unknown and obscure women around the world in different areas of the campus. It was the day to celebrate the social, economic, cultural and political achievements of women

DEWA Walkathon 2019 - On the 30th of March 19, few students of BPDC had come along and participated in the Walkathon organized by DEWA an occasion of Earth Hour in Mersai Promenade in Business Bay. The walk aimed at creating awareness towards fighting climate change. There were various stalls and fun activities in the venue along the walk.

Dubai Cares Walk for Education 2019 -. Dubai Cares organized a walk for education on the 15th of February 19 at 8 am. It is a fund raiser involving a 3km walk in solidarity with the millions of children in developing countries who walk long distances on a daily basis to go to school. Our students participated in the walk and in the various stalls held in the park.

Earth Day 2019 - Earth Day is celebrated globally on April 22nd every year. This year the Social and Environment club provided handmade pen stands made with ice-cream sticks to the faculty. Booklets made from recycled test sheets were distributed among the students throughout the day. There was also a tree plantation which was officiated by the Director of the campus on the hostel ground behind the library.

Dandiya Night - The Social and Environmental Club held one of its most important events, Dandiya Night, on 18th October, 2018. Around 300 students from all 4 years participated in this fun filled event. All this could only be possible due to the tremendous efforts put in by the club members and volunteers and the constant support of the

faculty. This event facilitates Spectrum, an event held every 2nd semester, for individuals with special needs who would be visiting our campus from different schools. It was a fun night filled with dance and music along with a photo booth and various games. All attendees were provided food boxes after the event.

Blood Donation Camp - As part of 'DaanUtsav', the Social and Environment club organized a blood donation camp in association with Latifa Hospital on 3rd October 2018 and 31st March 2019. A team of professionals from Latifa Hospital visited the campus to conduct the blood donation camp. This year, a lot of students and support staff turned up to show their support for their event and a 100 units of blood were donated which was a new record set by the club. This ensured that the objective of the event was met and it was declared a success.

Pink Day - Every year, the month of October is commemorated as the International Breast Cancer Awareness month. This year, the Social and Environment Club held 'Pink Day' on 31st October, 2018 as part of Breast Cancer Awareness on our campus. Students and faculty members were given ribbons as a symbolic gesture and were also encouraged to wear pink or white to show their support. There were stalls present for nail art and henna design and cupcakes with pink frosting were sold among students. Two student dance groups also performed to showcase their support on Pink Day.

Teacher's Day 2018 - Teacher's Day is celebrated every year on 5th September 2018. The Social and Environment club, gave cards to all the faculty members as a token of appreciation for the hard work and dedication.

B4.19.7 The Public Speaking and Literary Club

Toastmasters debate contest: In the Inter Club Debate Contest, a division level toastmasters debate contest which was conducted on 16th November in American University in the Emirates. There were a total of 18 teams participating, including five star clubs such as ICAT Toastmasters Club, Emirates Toastmasters Club and Friends of Yoga Toastmasters Club. Among the participants were also teams from advanced clubs like Dubai Advanced Toastmasters Club and DIC Advanced Toastmasters Club. All contestants were not only much older than us but also more experienced toastmasters. Our team from BITS Dubai Toastmasters Club was the youngest team. The event had a preliminary round with 18 teams. Top 8 teams qualified for the next round, including the team from BITS. Next, the top 3 teams with the highest scores were shortlisted. After intense debating with just 10 minutes to prepare, BITS Dubai team was announced as the champions of the Division-F Inter Club Debate Contest.

BITSMUN 2018

Model United Nations (MUN) is a student simulation of the proceedings of the United Nations in the form of a two-day conference. Students, referred to as Delegates, are assigned a country to represent in one of the UN's numerous committees with pre-set topics to debate. The goal is to identify solutions, by negotiation and consensus, on which many countries can agree. For the first time ever, Expressions brought the BITSMUN to BITS Pilani Dubai on the 17th and 18th of October 2018. The conference lived up to all the expectations and also stayed true to the foundational qualities of BITS Pilani, namely Innovate, Achieve and Lead. Conference hosted 6 schools and 5 universities from Dubai and Sharjah with a total of 150 participants including our BPDC students. The three UN committees which were simulated in this year's conference were the General Assembly which discussed and proposed a Draft Resolution for China's One Belt One Road initiative, the Security council which dreamt of and succeeded in introducing renewed control over the Conflict in the Arctic Region and also the UNESCO which labored to push new ideas of rehabilitation during post war efforts. Every participant in the conference went through the rigorous process of researching his/her country's foreign policy, drafting a position paper on the agenda at hand, giving the opening address to the respective committee, lobbying with fellow delegates, drafting an exhaustive Draft Resolution which resolved the matter at hand and passing it in his/her committee with a winning majority. The exercise proved to be extremely fruitful for all students and each one of them took back many memories, lessons and experiences to cherish from the two days.

Debate Competition: A debate competition was organized by American University in Emirates. Amongst the 16 colleges participating and over 25 teams, the BITS team of Abirami Baalaji and Athul Krishnan came fourth. Sameeksha Amin and Karthik Vasudevan further continued the season of good performances by making it to the Semi-finals of the NYUAD regional debate championships. This team not only almost reached the finals, but their debates and personalities further the reputation of BITS Pilani Dubai Campus in the debating circuit. They also received special mention in the debate hosted by SP Jain University. 'Devils Advocate' was well received during Enginuity. However, during Jashn, the Expressions event – Poetry Slam, had 18 teams participating from over 6 universities. We have received a lot of positive feedback about the event and plan on hosting another one next semester. The judges of the event have also been very supportive and offered to mentor the participants and help further their literary aspirations. The last event of the semester – the BITS Debating Championship- saw 20 participating teams from 6 universities. A BPDC team also participated in a competition in Heriot Watt University, Dubai during II Sem 2018-19.

Emirates Environmental Group Speaking Competition: Urvashi Sharma, Zaidan Umar, Shivank Gupta, Mahwish Kaur and Meeru Sudhir represented Expressions and EEE Department at the Emirates Environmental Group Speaking Competition during 27-28 November 2018 and spoke on the theme "The Future of Agriculture in the Middle East".

Other Events organized/participated in during 2018-19

- 30 debaters participated in the Inter year Debate (following British parliamentary format, post induction) and was organized by a committee of 4.
- 15 students participated in Shipwreck (Sparks): Students are given a particular fictional role and are asked to defend their character for the objective of surviving in the ship until the very end. They practice persuasion skills.
- 8 students participated in New York University Abu Dhabi – Annual Debate competition and one more was a Chair.
- A 4 member delegation participated in Amity University's MUN.
- 6 students participated in SP Jain's Debate Competition
- 6 students and a chair participated in Herriot Watt's Debate Competition
- 3 delegates and 4 chairs participated in Herriott Watt MUN.

B4.19.8 Dance Club

During the academic year 2018-19, groove proved its passion for dance by winning many laurels at intra and inter university level. Activities kicked off in style during the club's introduction during Icebreakers followed by auditions for interested students for both, the eastern and western teams. Dance club activities during different months is as follows:

In the month of February with an entertaining performance at the Global Millennium Annual Meet held at BPDC. Shortly after, the auditions were announced and club gave a warm welcome to all the new members.

Sparks 2018, an intra-college event was held between 23rd -25th October, 2018. The dance competition for the fest was divided into 3 categories: Western Group Dance, Eastern Group Dance and Dancing Doubles. There were 11 teams for the eastern category, 2 for western and 8 for dancing doubles. The event was embraced by special performances delivered by the eastern and western team of Groove. There were many brilliant performances that left the audience awestruck. The group event was judged by AtulyaRajendran, DivyaRagunathan, and the Civil department faculty SreelakshmiBabu. Dancing doubles was judged by AtulyaRajendran and DivyaRagunathan. All of them are brilliant dancers and won countless awards for their breathtaking performances. All the judges were amazed at the splendid performances of the students. The non-stop cheering and support from the audience throughout depicted that they thoroughly enjoyed the event. The hard work, effort and time put in to making this event a success was both prominent and commendable. To sum it all up Sparks 2018 was a platform that displayed a colorful pallet of varied performances, where individuals and teams stepped out from the silhouette into the limelight. To say that an event so magnanimous in dance and spirit was merely a success would be an understatement.

In the month of November 2018 Groove also gave few entertaining performances during the EEE Department Meet and Greet held on November 19th, 2018 and also for Inaugural Ceremony of the BITS Sports Festival held on 25th

November 2018 . In the month of December 2018, students performed in ENGAGE 2018 held at BPDC on Dec 8th 2018 and an entertaining performance was given by dance club students during this Alumni meet function.

The 2nd semester started off in the month of January 2019, with an entertaining performance for the Bio-Tech department day held at BPDC on January 27th 2019. Groove also performed for Enginuity on 7th Feb 2019. Shortly after, the auditions were announced and gave a warm welcome to all the new members.

Students performed at the Indian Consulate on 15th February 2019 during an interactive session between the consulate and the Indian students studying in the UAE.

The team bagged 1st position in both Solo and Western category at the IMT Inter-university competition held on 13th March 2019 and secured 1st and 2nd position in Solo and Western Category respectively at RIT Inter-university competition held on 21st March 2019.

The club secured 2nd position in Western category during the annual Inter-University cultural festival, **Jashn (15th-18th April 2019) organized by BPDC** and also secured 1st position in the duet category.

Dance club entertained and brought smiles to the faces of special needs children during **Spectrum (28th April 2019)** hosted by the Social and Environment Club.

A small performance was also done during the **Annual Day (29th April 2019)**, marking it as one of the most active year for the club.

Lastly, club bid adieu to the seniors at **Diro's Tea Party (2nd May 2019)**.

B4.19.9 Drama Club

The Drama club, Paribhasha encourages budding actors and performers to showcase their talents by giving them a platform by hosting events.

During **Jashn 2019**, organized by BPDC, the club hosted two events – **Proscenium** and **Standup**.

1) In **Proscenium**, teams staged a play that was written and acted completely by the club members.

2) For **Standup** comedy, students from universities all over Dubai, performed their standup acts and judges scored their performances.

The club hosted following events during **Sparks18**.

1) **Nukkad Natak (Street Play)** is held during Sparks every year. Street play is an annual tradition of the club to hold street plays where social issues are highlighted and stories are depicted through plays which are performed outdoors.

2) **A Twist in the Tale** was held during Sparks. This event aimed to make contestants think on their feet by giving them a scene from a popular movie to start with and leaving the rest to their imagination and improvisation skills.

The club also participated in **WattFest- Master of Theatre Competition** which was organized by Heriot Watt University. The team performed 'Jaa ne Bhi Do Yaaro'. The team was led by Zaid Ahmed Baig (Paribhasha President). It was a great experience for the actors as they gained valuable knowledge about theatre.

Apart from this another major event the club organized was **Bits Film Festival (BFF)**. Through this event aspiring film makers got a platform to compete against each other and showcase their work to a larger audience.

B4.19.10 Art Club

The Art Club "Shades" had been active in every major event of BITS Pilani Dubai campus in academic year 2018-2019. The major events and activities by the Art club are as follows:

Convocation (1st September, 2018): Art club individually had done Rangoli and all decorations connected with convocation ceremony.

Gandhi Jayanti (2nd October, 2018): Shades, The art club organized an art exhibition of portraits of Mahatma Gandhi and a rangoli done by our members to commemorate the 150th birth anniversary of the father of our nation.

Pink day (30th October, 2018): Shades, The Art Club conducted a monochromatic card competition, "**Shades of Pink**" on the occasion of Pink Day, organized by the Social and Environmental Club to spread awareness about breast cancer. The participants were asked to make a card about Breast cancer awareness using only one color, pink. Around 22 students participated in the competition. Out of 22 cards, best 5 cards were selected and given prizes. Certificates were given to the winners and volunteers.

Faculty Get together (16th November, 2018): A Faculty/ Staff get together was organized by the BPDC Staff recreational club members with family and friends. The art club members had done Rangoli and all decorations for the get together.

Origami Workshop (22nd November, 2018): An origami (paper folding) workshop was organized by the Art club. The workshop was conducted by Ms. Neeraja Narayanaswamy, 3rd year CS student. The session began with the basics of paper folding such as the types of folds and some basic structures like frogs, butterflies, lilies, etc. Towards the end, techniques to make a bow and a diamond were taught to the students gathered there. A certificate of appreciation was given to Ms. Neeraja for taking out her precious time to teach the basics of paper folding.

BITS Alumni Meet (8th December, 2018): The students from art club were involved in arranging a photo booth for the BITS Alumni Meet which was conducted to cherish their nostalgic memories during the college life of all the members and to reunite them.

ARTEX (27th and 28th March 2019): The annual intra-college art event was conducted by Shades. Its main event is Kalakriti, an Art exhibition, a show case of various forms of art like Oil painting, Acrylic painting, Water Colour painting, Poster Colour painting, Digital Art, Classroom art, Pencil Sketching, Oil pastels, Pen/ink art, Pencil color shading, Glass painting, Fabric painting, Embroidery, Pot designs, Best out of Waste (Junk Art). During Artex, competitions like Rangoli making, Face painting, Henna designing, Origami, Clay modelling, Beg-borrow-steal, Blind art, Doodle art, etc were conducted for the students. Prizes and certificates were given to the winners.

Contribution during Conferences: Art club members did Rangoli and all decorations for the Conference for Mechanical Department and GISA.

B4.19.11 Music Club

Following were the activities of the Music Club Trebel of BITS Pilani Dubai campus. With the commencement of a new academic session this September 2018, The Club's first activity / performance of the year was on **Ice-Breakers '18**, where the club gave its formal introduction to all the Students, most importantly, the first year students. The introduction was followed by an enthralling performance by the existing members of the club. The end of Icebreakers marked the beginning of the Registrations Process for the new academic year.

The Club organized all the Musical Events of Sparks '18, the intra university cultural festival which included events such as – Solo and Duet Singing (Eastern & Western), Beat boxing and Instrumental Competition. The Judges of the events were Reputed Local Artists, BITS Alumni and BITS Faculty.

Trebel represented BPDC in various inter-university festivals, namely IMT Vaudeville at the Institute of Management and Technology and Watt-fest at Heriot Watt University and Manipal carnival at the Manipal institute of technology also at Jashn 2019 organized by BPDC. Trebel also organized, Musical Events of JASHN 2019, the likes of which included Eastern Singing (Solo and Duet), Western Singing (Solo and Duet), Battle of the Bands and Instrumental Competition. BPDC team bagged first prize in Instrumental category, second prize in Solo singing both for Eastern and Western category and Duet singing in Western category. Third prize in Band and Duet singing Eastern category. All the Music Events witnessed huge participation from universities across Dubai.

The club then performed at the annual **Diro's tea party**, 2019 for the graduating batch, and impressed everyone with their performance.

B4.19.12 Design Club

The club designed the year book for the outgoing batch. The club has been contributing in many ways such as: Graphic Design & Illustration done for various events organized by ACM - BITS Pilani, Dubai Campus, Team IFOR, ASME, Sports Club, Drama club, Astronomy Club, Quiz Club, Fashion club and the Editorial Board - BITS Pilani, Dubai Campus. The club is also involved in designing bulletin, brochures pamphlet etc for various events like Jashn, Sparks BSF etc.

B4.19.13 Fashion Club

With the increase in popularity of the club and the shows along with the burden of maintaining a winning streak among interuniversity competitions, Allure members thrived to entertain the crowd and to teach those who are interested a sense of fashion and styling.

The academic year 2018-19 kick-started with a debut video during icebreakers, which was made by a well know videographer - HaseebLatheef. The next step was taken by making a Instagram handle " Allure fashion blog" where the followers were given ideas on how to carry themselves and how to dress for a particular event/season. The next event for the first semester was Sparks'18 in which the club organized two events;

Drape- which was conducted on **23rd of October18**, it was a fashion designer's show where 5 participants brainstormed and came up with innovative designs to portray their ideology. (1st prize - Anna. 2nd prize - Zoha Ansari. 3rd prize - Mahwish Kaur. Best model - Syed Razaa Ali)

Mr& Ms. Sparks - being one of the most hyped events and the last of **Sparks '18(25th October18)** included 16 participants (8 boys and 8 girls) wherein they competed with each other for the title. Other than the main titles there were other awards such as best dressed male/female and best model male/female. The newlings were trained and guided by the allure team for 3 weeks so as to prepare them for the show.

Mr.Sparks- Adnan Khan. **Ms.Sparks-** Meera. **Best male model-** Haris Patel. **Best female model-** SunidhiKashyap. **Best dressed male-** Abhishek. **Best dressed female-** Mary Sheryl

During the second semester, The first show of the year was participation by Panache, the BPDC team during an event organized by IMT, Vaudeville which was held on **14th of March 2019 at IMT**. The theme was "**Straight Outta Heaven**".

For Jashn19, for the event Drape BPDC designers won **1st and 3rd place**, (1st - Zoha Ansari and 3rd- Anna)

And for Jashn19, fashion show which took place on **18th of April 2019**, BPDC team Allure acquired **2nd place** after losing to UOWD by just a difference of 0.5marks. The theme for Jashn was - "**Disney Villains**". Although the club Vice President, Anushka Singh still bagged the title of "**Best female model**" and won a **modeling contract** by **Fahad Kidwai** (Fashion designer & Producer)

All the activities were held under the able guidance of the faculty in-charge Dr. R Swarnalatha. The current members are Syed Razaa Ali, SagarChorera, Kaushal Sharma, Anushka Singh, DivyaGerra, NayanikaGoje, Raza Ali, Arjun Kamath, Nathan Monteiro, Adnan Khan, Rohan Modak, MeeraSudhir, Mary Sheryl Winnie, Simran Arora, SunidhiKashyap, TauqirWaqar, Rohan Modak, Sandra Nakshatra, ParthiPirta, Sanjana Gupta, Randa, Anna, Zainab Fatima Juddy and Priyanka Das Gupta.

B4.19.14 Photography Club

During the year academic year 2018- 2019 the club covered many events like Jashn, Sparks, Recharge, Bits Sports Festival, Enginuity, Technofest, and also covered various Talks and workshops held by all the disciplines. A photography competition that was held during ENGINuity and prizes were sponsored by Nikon. First cut was a short film competition organized in collaboration with Paribhasha - The Drama Club, BITS Pilani Dubai Campus.

B4.19.15 Quiz Club

The quizzing club of BITS Pilani – Dubai Campus, Flummoxed, had a very fruitful year where the club promoted and created a quizzing culture on campus by conducting numerous quizzing events, weekly quizzing sessions, and organizing quiz competitions in association with multiple corporate and academic entities. Some of them have been listed below:

TAPMI Quiz on The Beach: The quizzing club acted as a promoter for this event held at Manipal's Dubai Campus. BPDC team qualified for the international final for the fifth year in a row and flew to Manipal, India to compete in the International Finals.

Pop Fiesta: Held during the Sparks Festival 2018, this event saw over 30 participants from the university compete against each other in a quiz based on the pop culture events which took place in the past decade or so.

The Big Oh: Held during Enginuity 2019. The Big Oh was conducted in collaboration with ACM Chapter, BITS Pilani Dubai Campus as a quiz on all things science and tech. There was a prelim round and a final round. The event had an attendance of 60-70 students and prize money of AED 300 was awarded to the top 3 winning teams.

Quizzards by Flummoxed: During the second semester of 2018-2019, Flummoxed set up groups on WhatsApp and Instagram called Quizzards and initiated a program called "Question of the Day" where participants of the group could create and answer fun quiz questions on any topic just for kicks. There was no incentive involved or contest but was created for promoting quizzing as a fun social activity. The engagement over 3 months exceeded 300 participants and the average engagement per question was around 10-15 participants online.

Lights, Camera, Quiz: Held during BITS Film Festival 2019. LCQ was conducted in collaboration with Paribhasha, the Drama Club as a quiz on all things film: Hollywood and Bollywood. There was a prelim round and a final round. The event had an attendance of 70-80 students and certificates were awarded to the top 3 winning teams.

Quiz Du Fromage: Held during Jashn 2019. QDF was conducted as a quiz on all things food: Multiple cuisines and Culinary facts. There was a prelim round and a final round. The event had an attendance of 70-80 students and certificates were awarded to the top 3 winning teams.

Tata Crucibles: An event held in partnership with the wildly successful Tata Crucibles Campus Edition team saw over 500 participants from universities across the UAE compete against each other to win cash prizes worth upto 30,000 AED. Our university was placed second in the competition, with 5 out of 8 final seats occupied by BPDC students. ShaleenBengani and JiteshPrasad Guravrepresented the region in the International Finals.

B4.19.16 Sports Club

The Sports Club at BITS Pilani, Dubai Campus has always tried to promote, develop and improve the quality of sports as well as the facilities involving these sports. In 2019 sports club organized the following sports activities:

-1) Inter-Year Tournaments:

Sports Club organized Inter Year/Class tournaments for both boys and girls in Cricket, Tennis, Football, Table-Tennis, Throw ball, Badminton, Chess, Carom, Handball, Basketball, Athletics (Field & Track) and Volleyball.

2) Inter-University Tournaments:

a) Scottish Highland Games –

BPDC students participated in the SHG Sports cup held at Heriot Watt-Dubai on 2nd to 6th February 2019.

Table Tennis (Boys) – Second Place, Tug of War (Mixed) - First Place.

b) Gulf Medical University Sports Meet -

BITS Pilani, Dubai Campus participated in GMU Sports Festival organized by GMU from February 9th to February 14th 2019. The following are the results:

Throw ball (Girls) – First Place, Cricket (Girls) – First Place, Badminton (Girls) – First Place, Table Tennis (Girls) – Second Place, Tennis (Boys) – First Place and secured 5 golds in swimming event (Boys and girls).

c) Manipal Sports Fest –

BPDC students participated in the Manipal sports Festival – 2019 held at Manipal University-Dubai on 24th to 28th February 2019. The following are the results: Chess (Boys) – First Place, Chess (Girls) – First Place, Throwball (Girls) – First Place, Cricket (Girls) – Second Place, Basketball (Boys) – Second Place and Badminton (Girls) – Second Place.

d) National Indoor Football Sports Competition -

BITS Pilani, Dubai Campus participated in National Indoor Football Sports Competition organized by RAKMHSU 7th March 2019, where 10 universities participated. The college Football team secured the Third position.

e) Vaudeville'2019 -

BITS Pilani, Dubai Campus participated in Vaudeville Sports Competition organized by IMT Dubai on 11th March 2019. The following are the results: Chess (Boys) – Winners

f) Inter-University Swimming Gala -

BITS Pilani Dubai Campus participated in the Swimming Gala organized by Abu Dhabi University at Al Ain on 2nd March 2019.

g) Amity Sports Fest –

BPDC students participated in the Amity Sports Festival – 2019 held at Amity University-Dubai on 10th March to 14th March 2019. The following are the results: Throwball girls – Winners, Basketball boys - Runner-up, Cricket girls – Winners, Cricket boys - Runner-up, Athletics: 400m (Girls) - Third place, 100m (Girls) - Second place, 200m (Boys) - Third place, 800m (Girls) - Third place and 4x100m (Girls) - Second place.

3) Intra-College Staff and Faculty Sports Tournament:

Staff and Faculty sports tournament was conducted by the Sports Club in April 2019 and featured Badminton, Volleyball, Table-Tennis, Carom and Chess as categories of participations.

4) Inter- Year Boxing Championship:

Annual sports day, Inter-Year Prize Distribution Ceremony: On 5th and 6th May 2019 organized Mega event Boxing Finals followed by sports awards ceremony. Medals were handed out to the winners of the intra-university sports events including field and track events, cricket, throw-ball, volleyball, football, badminton, chess and table tennis. Director Dr. R.N. Saha presided the ceremony as the chief guest and gave away the prizes. Also best Sports persons from each Sport were awarded Best Player Trophies. Also, Faculty and Staff Sports Tournaments award ceremony was held the same day.

Recharge- 2019: Sports Club was responsible for conducting all the Sports Events for the Hostel Week Celebrations in Recharge- 2019. A total of 20 categories of various sports with over 400 participants were conducted in a span of 5 days.

B4.19.17 JASHN 2019

JASHN 2019 which is one of UAE largest inter university cultural festival. It started with a bang as Zakir Khan took stage and ended with the celebration of the semester as Sunburn transformed BPDC into UAE's first ever Sunburn Campus. A huge crowd of around 2500 students from various universities attended the program. The various clubs of BITS Pilani, Dubai Campus organized different events during the cultural fest which comprised of dance, drama, music, literary and art events to name a few. Participants included students from American University of Sharjah, American University of Dubai, BITRAK, Manipal University, Middlesex University and Canadian University of Dubai, Amity University, IMT and Herriot Watt University etc. Events like Dance Drama, E Quiz, Battle of DJs, Battle of Bands, Pixels, Devil's Advocate, Singing, Short film, Fashion Show, etc were held.

B4.19.18 Hostel Week Celebrations 2019

Hostel Week "Recharge" was celebrated with a lot of fanfare in the Dubai Campus starting from 3rd to 8th March 2019, it was a week long affair of fun activities for the hostel students. A special menu was prepared for the week for hostel students. Fun activities like Beg Borrow Steal, Blind Hit, Musical Chairs, Tug of Wars, Eating Competition, Antakshri, Tambola, Kho Kho, Bathroom singing and many outdoor sports were organized. Indoor activities such as chess, carom, badminton and table tennis were organized as well. There was a huge response and participation involved by the hostel students, wardens and the staff. On the final day of the celebrations, a program was organized in the football ground. Prizes were distributed to the winners of the various events and various hostel students displayed their skills by dancing and singing on stage. The hostel staff was also honored during the event. A grand Buffet dinner was organized after the closing ceremony which marked the end of the celebrations.

B4.19.19 Farewell Party

The 'DIROS Tea Party, a farewell party to the passing batch was organized by Student Welfare division on 10th of May 2018. The event began with Department photographs being clicked with the respective department faculty. A program was then organized in the auditorium to bid farewell to the graduating students. The graduating batch and faculty members attended the ceremony. A dance performance by the Dance Club and music performance by music club entertained the gathering. A lot of fun games were arranged and gifts were awarded to the winners of the games. A 15kg cake was cut by the students. The farewell ended with a dinner and on an emotional note. The Party was indeed one that is kept as a memorable and special day to the passing out batch. Students arrived dresses at their very best to Diros Tea Party and the party ended on an emotional note.

B4.19.20 Welcome Party

ICE BREAKERS was held on 10th September 2019. The program started with a tree plantation by the freshers and a block of ice was broken by seniors and juniors. Seniors welcomed the freshers and they interacted with each other. Presentations by all clubs were done to familiarize with the club activities & associations. There were different performances by the clubs and the freshers also performed.

B4.19.21 SPARKS

Sparks, an Intra College Cultural Festival which is organised every year in the month of October. Sparks was organised from 24th October to 25th October 2019. The event was a great success with over 350 participants participating in 12 different events organised by over 9 different clubs of BITS Pilani Dubai Campus. The event was organised by Student Council and Event Management Committee, BITS Pilani Dubai Campus with the help of around 70 Volunteers.

DAY 1

The event started with the lightning of the lamp which was done by Director Prof. R.N.Saha, Dr. Priti Bajpai, and Student Council, followed by Group Dance. After Group Dance, the Event was followed by the Special Performance by the four stand-up comedians. They all have performed for various college festivals across Gulf. They have performed as opening artist alongside famous Indian comedians like Kanan Gill, BiswaKalayanRath and Zakir Khan. Last event for the day was the Dancing Doubles.

DAY 2

Day 2 started with the musical event - Instrumental and Beat Boxing which was followed by quiz event Pop Fiesta (Prelims and Finals). Next event on the line was Eastern Singing (Solo and Duet) followed by NukkadNatak - Street play and a fashion club event Drape.

DAY 3

The first event of the Last day was The Twist in the Tale organised by the Paribhasha (Drama Club) followed by the Ship Wreck and Stranger Games which was organised by BPDC Unplugged. Next in the line for the day were Western Singing (Solo and Duet) and the most exciting event Mr. and Miss. Sparks. Sparks 2019 ended with a special performance by DJ Ramy who is one of the famous DJ's in Dubai and has performed in various music festivals across UAE.

B4.19.22 Ethnic Day

The Student Council and Event Management Committee of BITS Pilani Dubai Campus organized Ethnic Day, one of the most awaited events of the year, on 5 November 2019. Every year, the Ethnic day is celebrated on the occasion of the Foundation day of the Institute. The campus was decked with vivid hues and the multi-cultural environment. The campus was on full display as the students flaunted their ethnic pride with their traditional attires. The day concluded with the vivacious performances of both the students and faculty members of the Institute, apart from the various other fun events lined up throughout the day to keep them mesmerized.

B4.19.23 Gandhi Jayanti Celebration

BITS Pilani Dubai Campus celebrated Gandhi Jayanti on 2nd October 2019, to commemorate the 150th birth anniversary of the father of nation "Mahatma Gandhi". The event started with the lighting of the lamp. It was followed by one of Gandhiji's favorite bhajan "Vaishnav Jan To" by music club (Trebel). Next the drama club of the campus Paribhasha, presented a street play idolizing the values and principles of Gandhi ji. It reflected the life of Gandhi ji, his struggle for Indian independence through nonviolent resistance, his fight against racism and his love for the country. The event ended with floral tributes and prayers to Gandhiji's portrait by the Director, Prof. R. N. Saha, faculty, staff and students. The portrait of Gandhi ji was painted by a student of the Campus. Apart from this Social and Environmental Club (Make a Difference) organized blood donation camp and Detergent & soap collection as a part of Dan Utsav. There was also an Art exhibition & Rangoli put up by Art Club (Shades) on the theme of Gandhi ji's ideology of truth and nonviolence. There was a huge involvement from students as a mark of respect to the Father of Nation.

B4.19.24 Health Drive

To sensitize students on ill effects of junk food, many measures have and are being taken by BITS Pilani Dubai Campus. The Mess menu was revised and items like Burgers and Cutlets which are prepared from frozen food were removed from the menu. A presentation and interactive session was conducted on 4 Oct'19 by MsJinu Mary Prasad (Nutritionist & Dietician) guiding students and faculty on how to live a healthy lifestyle. MsJinu being an inspiring personality has given various talks and regularly conducts workshops & sessions on healthy diet. She has participated in surveys conducted in different schools and colleges acknowledging deeper into the fact that where today's youth nutrition is lacking and how can they cope up with it. She started with brief introduction on balance diet further adding importance of proteins and carbs in our daily diet. She advised students about having meals in regular intervals, drinking minimum two and a half liters of water and long term effects of eating healthy food etc. She also suggested some ways to deal with stress and anxieties. During the she covered all aspects of living healthy and positive lifestyle. She also answered some of the questions put up by students and faculty. Apart from this a BMI measuring machine was placed in the clinic around 80 faculty, staff and students measured their BMI. This talk was a great advantage to students as they got to understand that being healthy is not about having perfect body or losing weight it's about living healthy. October 18th to 18th November 2019, as part of BITS Pilani, Dubai Campus commitment to the Dubai Fitness Challenge, Sports Club of BPDC is organizing various group fitness activities for 30 Minutes every day (from 3:30 pm to 4:00 pm). To take the Fitness Challenge to a whole new level, Sports Club has called on board Naveen Arya- finalist of Dil Se Naache India Vale and of Dance India Dance fame, renowned fitness trainer- Rob Edmond- all the way from UK and Yoga teacher Victoria from IAHV (International Association for Human Values) to show us how the fitness challenge is really done.

B4.19.25 International Women's Day

International Women's Day is celebrated globally on March 8th. The Social and Environment conducted a workshop on Women's health in general on March 7th, 2019 in G-34 from 12 to 1 pm as part of this occasion. It was conducted by Dr Lakshmi who is a practicing gynecologist in Zulekha Hospital. The office bearers asked the faculty and the staffs which female role model they would like to dedicate this day to and it was posted as a collage on social media. Only when we bring everyone together especially women in society, we can grow and prosper. The club also put up posters of unappreciated women around the world in different areas of the campus. It was the day to celebrate the social, economic, cultural and political achievements of women.

B4.19.26 Setting Goals for a Better Tomorrow

On 26th March 2019, a talk was held by Ms Rema Menon the professional counsellor. She talked about the importance of Setting Goals for a better tomorrow, highlighting the importance of setting goals than wishes. She encouraged students to share their goals with their parents as they will constantly remind them and keep a regular

check on their progress. She also mentioned the importance of peers in staying motivated to their goals. She said hang out with those who would push you to stay committed and who you can reach out for help. Adaptive thinking also plays a major role in achieving your goals. Thinking right from the beginning that after graduating you have to support yourself will make you independent and responsible. The courses taught in college are just a skeleton which will make the base. She said it not always about the job, sometimes vision to what you are working is more important. At the end she encouraged the students to be passionate in whatever they do as passion is the key to success.

B4.19.27 Visit to the Consulate General of India

The Consulate General of India, in Dubai invited Indian students from BITS Pilani Dubai Campus to the consulate on 15th February 2019. This was to welcome the Indian students studying in UAE Universities and also to share their views on issues faced by Indian students in the country. The event was initiated by lighting of diya by Deans of universities and the Consul General. A presentation was given by the consulate which listed the work handled by the consulate, it mentioned the rules and regulations to be followed by students and the steps taken by the Government of India in the field of Higher Education. The students were told to register on website www.madad.com and they also shared free helpline number in case of emergency. From BPDC, Dr Priti Bajpai and 15 students participated in the program. The students actively participated in the discussion with the Consul General. There was an open forum inviting questions and suggestions for amending the activities of consulate. Students and teachers discussed their problems regarding funding for projects, placements from Indian companies etc. A dance team of 7 students performed a classical dance. The event concluded by vote of thanks.

B4.19.28 Holi Celebration

Like every year Bits Pilani Dubai Campus took the initiative to celebrate on-campus Holi on 22nd March'19.

Students along with faculty participated enthusiastically playing with colours and shaking their feets on various songs. There was a DJ set up and also refreshments were provided with a classic north Indian touch such as thandai, lassi, bhujia etc. The celebration went upto 1:00 p.m. accompanied by lunch. It was celebrated with a great zeal as students from different religions, cultures even countries were united in blend of colours.

B4.19.29 Scholarships

Financial Assistance to Students- 635 students received financial assistance of AED: **4,558,563/-** under different categories for the Academic Year 2018-19, the details of which are given below:

S. No	Particulars	Students Nos.	Amount in AED
1	Institute Merit Scholarship	554	3,810,350
2	Higher Degree and Doctoral Scholarship	34	186,000
3	Need-based Scholarship (Physically challenged, Bereaved family discount)	12	155,413
4	Others (Staff, Siblings, Sports, Special Concessions)	35	406,800
	Total	635	4,558,563

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SENIOR OFFICERS OF THE INSTITUTE

DIRECTOR

Senior Prof. Dr. R. N. Saha

ASOCIATE DEANS

1. Academic – Undergraduate Studies	Dr. KUMAR KARUPPUSAMY
2. Academic - Graduate Studies and Research	Dr. RAMANUJAM KARTHIKEYAN
3. Practice School	Dr. RAMACHANDRAN ANAND KUMAR
4. Student Welfare	Dr. PRITI BAJPAI

ASSISTANT REGISTRAR

Mr. Akshay Chutani

HEAD OF THE DEPARTMENTS

<u>DEPARTMENT</u>	<u>NAME</u>
1. Chemical	Dr. NISHANT HARISHBHAI PANDYA
2. Civil	Dr. TEWFIK MAHDI
3. Electrical and Electronics	Dr. VILAS HARIDAS GAIDHANE
4. Mechanical	Dr. RAMANUJAM KARTHIKEYAN
5. Computer Science	Dr. SUJALA DEEPAK SHETTY
6. Biotechnology	Dr. DAWOOD JALALUDDIN SHARIFF
7. General Sciences	Dr. VIJAYA ILANGO
8. Humanities and Social Sciences	Dr. SHAZI SHAH JABEEN

HOSTEL WARDENS

	<u>NAME</u>
Chief Warden	Dr. SANTHOSH KUMAR VASUDEVAN

BLOCK

A	Mr. VENKATESH NAGAR ANTHEL
B	Mr. HAROLD FRANKLIN
C	Dr. SANTHOSH KUMAR VASUDEVAN
D	Dr. SHASHANK KHURANA
G	Dr. KARTHIYAYINI SRIDHARAN

DETAILS OF THE ADMISSIONS MADE DURING THE YEAR 2019**I. First Semester 2019-2020****Admission to Integrated First Degree Programmes**

B. E.

Biotechnology	: 23 (20)
Chemical Engineering	: 14 (08)
Civil	: 10 (02)
Electrical and Electronics Engineering	: 08 (01)
Mechanical Engineering	: 29 (02)
Electronics and Instrumentation Engineering	: 00 (00)
Computer Science	: 149 (48)
Electronics and Communication Engineering	: 20 (05)

Admission to Higher Degree Programmes

M. E.

Microelectronics	: 08 (03)
Electrical PED	: 02 (00)
Design Engineering	: 04 (01)
Software Systems	: 03 (00)
Biotechnology	: 00 (00)
M.B.A	: 00 (00)
Ph.D	: 12 (09)

TOTAL	: 282 (99)
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II. Second Semester 2018-2019**Admission to Integrated First Degree Programmes**

B. E.

Biotechnology	: 01 (01)
Chemical Engineering	: 02 (00)
Electrical and Electronics Engineering	: 00 (00)
Mechanical Engineering	: 01 (00)
Electronics and Instrumentation Engineering	: 01 (00)
Computer Science	: 01 (00)
Electronics and Communication Engineering	: 00 (00)
Civil Engineering	: 01 (00)

Admission to Higher Degree Programmes

M. E.

Microelectronics	: 00 (00)
Design Engineering	: 01 (00)
Software Systems	: 06 (03)
Biotechnology	: 00 (00)
Electrical PED	: 02 (00)
M.B.A	: 05 (01)
Ph.D	: 15 (13)

TOTAL	: 29 (17)
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SUMMARY

	II Semester 2017-2018	I Semester 2018-2019
Integrated First Degree Programmes	07 (01)	253 (86)
Higher Degree Programmes	14 (04)	17 (04)
Ph.D	15 (13)	12 (09)
Total	36(18)	282 (89)

Annexure B4-3
(1 page)

**STATEMENT SHOWING THE NUMBER OF CANDIDATES WHO HAVE BEEN PERMITTED IN THE
ACADEMIC YEAR 2018-2019 TO PURSUE VARIOUS DUAL DEGREE PROGRAMMES UNDER VARIOUS
PRIORITIES**

S.NO.	ID NO	NAME	PERMITTED TO DUAL
1	2018A9A40019U	CATHERINE SAVIO	MECHANICAL

**LIST OF CANDIDATES WHO HAVE BEEN PERMITTED TO TRANSFER WITHIN THE FIRST DEGREE IN II
SEMESTER 2018-2019**

S.NO.	ID NO	NAME	PERMITTED TO TRANSFER	
			FROM	TO
1	2018A4PS0290U	KANNAT JAYALAL GOPIKA	MECH	BIOT
2	2017A9PS0904U	RIGVEDA SACHIN JANAI	BIOT	CHE
3	2018AAPS0288U	DIVYA SEHGAL	ECE	CS
4	2018A1PS0132U	JASKARAN S SETHI	CHE	ECE
5	2018A8PS0135U	SIDDHARTH KISHORE	EIE	ECE
6	2018A7PS0107U	PASUPULETI DHANUSH BABU	CS	ECE
7	2018A7PS0226U	SAKSHI SINGH	CS	EEE
8	2018AAPS0238U	SANKALP MEHROTRA	ECE	MECH

NUMBER OF STUDENTS REGISTERED IN SECOND SEMESTER 2018– 2019

PROGRAMME	Year of Admission								Total
	2011 and earlier	2012	2013	2014	2015	2016	2017	2018	
A. Integrated First Degree Programmes									
B.E. (Hons.)									
CHE	-	-	-	-	39(23)	28(15)	15(7)	11(3)	93(48)
CIVIL	-	-	-	-	-	17(5)	11(3)	10(3)	38(11)
EEE	-	-	1(0)	3(0)	36(16)	17(8)	23(8)	15(3)	95(35)
MECH	-	-	-	2(1)	124(10)	69(8)	61(5)	58(5)	314(29)
CS	-	-	2(0)	3(1)	137(63)	123(57)	121(52)	153(58)	539(231)
EIE	-	-	-	-	5 (2)	1(0)	5(3)	5(1)	16(6)
BIO	-	-	-	2(1)	30(24)	15(13)	31(22)	18(13)	96(73)
ECE	-	-	-	-	28(17)	31(15)	26(13)	23(10)	108(55)
Sub Total			3(0)	10(3)	399(155)	301(121)	293(113)	293(96)	1299(488)
B. Higher Degree Programmes									
M.E.									
Software Systems	-	-	-	-	-	-	2(2)	14(6)	16(8)
Microelectronics	-	-	-	-	-	2(1)	2(2)	-	4(3)
Power Ele. & Drives	-	-	-	-	-	-	-	6(0)	6(0)
Design Engineering	-	-	-	-	-	-	6(0)	5(2)	11(2)
Master of Business Administration	-	-	-	-	-	1(0)	13(3)	14(3)	28(6)
Ph.D.	2(1)	1(1)	4(1)	5(2)	6(2)	1(0)	8(3)	22(17)	49(27)
Sub Total	2(1)	1(1)	4(1)	5(2)	6(2)	4(1)	31(10)	61(28)	114(46)
Total (On Campus)	2(1)	1(1)	7(1)	15(5)	405(157)	305(122)	324(123)	354(124)	1413(534)

Number of female students is given in brackets.

NUMBER OF STUDENTS REGISTERED IN FIRST SEMESTER 2019 - 2020

PROGRAMME	Year of Admission									Total
	2011 and earlier	2012	2013	2014	2015	2016	2017	2018	2019	
A. Integrated First Degree Programmes										
B.E. (Hons.)										
CHE	-	-	-	-	8(4)	28(15)	16(8)	10(3)	14(8)	76(38)
CIVIL	-	-	-	-	-	17(5)	11(3)	10(3)	10(2)	48(13)
EEE	-	-	-	2(0)	5(0)	17(8)	23(8)	16(4)	8(1)	71(21)
MECH	-	-	-	1(0)	6(0)	68(8)	61(5)	56(4)	29(2)	221(19)
CS	-	-	2(0)	2(1)	9(5)	123(57)	120(51)	151(58)	149(48)	556(220)
EIE	-	-	-	-	-	1(0)	5(3)	4(1)	-	10(4)
BIO	-	-	-	-	2(1)	15(13)	30(21)	19(14)	23(20)	89(69)
ECE	-	-	-	-	2(1)	31(15)	26(13)	24(9)	20(5)	103(43)
Sub Total	-	-	2(0)	5(1)	32(11)	300(121)	292(112)	290(96)	253(86)	1174(427)
B. Higher Degree Programmes										
M.E.										
Software Systems	-	-	-	-	-	-	-	14(6)	2(0)	16(6)
Microelectronics	-	-	-	-	-	-	-	-	8(3)	8(3)
Power Ele. & Drives	-	-	-	-	-	-	-	6(0)	2(0)	8(0)
Design Engineering	-	-	-	-	-	-	3(0)	5(2)	4(1)	12(3)
Master of Business Administration	-	-	-	-	-	-	6(1)	14(3)	-	20(4)
Ph.D.	-	-	6(3)	5(2)	5(1)	1(0)	6(1)	18(14)	12(9)	53(30)
Sub Total	-	-	6(3)	5(2)	5(1)	1(0)	15(2)	57(25)	28(13)	117(46)
Total (On Campus)	-	-	8(3)	10(3)	37(12)	301(121)	307(114)	347(121)	281(99)	1291(473)

Number of female students is given in brackets.

Annexure B4-5
(1 Page)**STATEMENT OF DEGREES AWARDED**

Degrees	No.of degrees	
	84 th Award (27 th Feb 2019)	85 th Award (08 th July 2019)
<i>B.E. (Hons.)</i>		
Chemical	1(0)	1(0)
Chemical (with PS)	4(0)	30(19)
Electrical & Electronics	2(0)	1(0)
Electrical & Electronics (with PS)	10(2)	32(16)
Computer Science	0	9(1)
Computer Science (with PS)	4(0)	122(59)
Electronics & Instrumentation	0	0
Electronics & Instrumentation (with PS)	0	5(2)
Mechanical	1(0)	7(2)
Mechanical (with PS)	10(0)	113(9)
Biotechnology	0	4(4)
Biotechnology (with PS)	1(1)	25(20)
Electronics & Communication	0	0
Electronics & Communication (with PS)	5(1)	26(16)
Sub Total	38(4)	375(148)
<i>Higher Degree</i>		
M.E. (Software Systems)	0	1(1)
M.E. (Software Systems) (with PS)	2(2)	1(1)
M.E. (Microelectronics)	1(0)	3(3)
M.E. (Microelectronics) (with PS)	0	0
M.E. (Design Engineering)	2(0)	0
M.E. (Design Engineering) (with PS)	0	3(0)
Master of Business Administration	6(1)	6(2)
Master of Business Administration (with PS)	0	2(0)
Sub Total	11(3)	16(7)
Ph. D.	1(0)	3(2)
Total	50(7)	394(157)

SUMMARY

	84 th Award (27 th Feb 2019)	85 th Award (08 th July 2019)	Total
Integrated First Degrees	38(4)	375(148)	413(152)
Higher Degree	11(3)	16(7)	27(10)
Ph. D.	1(0)	3(2)	4(2)
Total	50(7)	394(157)	444(164)

84th AWARD OF DEGREES APPROVED

Programme	Dist.	I	II	Total
B.E. (Hons.) (Chemical)	0	0	1	1
B.E. (Hons.) (Chemical) (with Practice School)	0	1	3	4
B.E. (Hons.) (Mechanical)	1	0	0	1
B.E. (Hons.) (Mechanical) (with Practice School)	0	3	7	10
B.E. (Hons.) (Computer Science)	0	0	0	0
B.E. (Hons.) (Computer Science) (with Practice School)	0	0	4	4
B.E. (Hons.) (Biotechnology)	0	0	0	0
B.E. (Hons.) (Biotechnology)(with Practice School)	0	1	0	1
B.E. (Hons.) (Electronics and Instrumentation)	0	0	0	0
B.E. (Hons.) (Electronics and Instrumentation) (with Practice School)	0	0	0	0
B.E. (Hons.) (Electrical and Electronics)	0	0	2	2
B.E. (Hons.) (Electrical and Electronics) (with Practice School)	1	3	6	10
B.E. (Hons.) (Electronics & Communication Engineering)	0	0	0	0
B.E. (Hons.) (Electronics & Communication Engineering) (with Practice School)	0	1	4	5
Sub Total	2	9	27	38
M.E. (Software Systems)				0
M.E. (Software Systems) (with Practice School)				2
M.E. (Microelectronics)				1
M.E. (Design Engineering)				2
Master of Business Administration				6
Master of Business Administration (with Practice School)				0
Sub Total				11
Ph.D. Degree				1
Total				50

85th AWARD OF DEGREES APPROVED

Programme	Dist.	I	II	Total
B.E. (Hons.) (Chemical)	0	1	0	1
B.E. (Hons.) (Chemical) (with Practice School)	2	18	10	30
B.E. (Hons.) (Mechanical)	3	2	2	7
B.E. (Hons.) (Mechanical) (with Practice School)	5	62	46	113
B.E. (Hons.) (Computer Science)	1	6	2	9
B.E. (Hons.) (Computer Science) (with Practice School)	22	73	27	122
B.E. (Hons.) (Biotechnology)	1	3	0	4
B.E. (Hons.) (Biotechnology)(with Practice School)	2	16	7	25
B.E. (Hons.) (Electronics and Instrumentation)	0	0	0	0
B.E. (Hons.) (Electronics and Instrumentation) (with Practice School)	1	2	2	5
B.E. (Hons.) (Electrical and Electronics)	0	1	0	1
B.E. (Hons.) (Electrical and Electronics) (with Practice School)	2	15	15	32
B.E. (Hons.) (Electronics & Communication Engineering)	0	0	0	0
B.E. (Hons.) (Electronics & Communication Engineering) (with Practice School)	5	13	8	26
Sub Total	44	212	119	375
M.E. (Software Systems)				1
M.E. (Software Systems) (with Practice School)				1
M.E. (Microelectronics)				3
M.E. (Design Engineering) (with Practice School)				3
Master of Business Administration				6
Master of Business Administration (with Practice School)				2
Sub Total				16
Ph.D. Degree				3
Total				394

Annexure B4-8
(4 pages)

**LIST OF ORGANISATIONS WHICH CONDUCTED CAMPUS INTERVIEWS AT
BITS PILANI, DUBAI CAMPUS**

S.No	Name of the Company	Number of Students Interviewed	Number of Offers	Streams
1	2getherments Infra Pvt Ltd	1	1	CS
2	Accenture	2	0	CS
3	Accubits Technologies	1	0	All Streams
4	Ace Power	1	0	EEE/MECH/CS
5	Acme Management Consultancy	1	1	CS
6	Adventure HQ	2	1	CS
7	Agility	2	0	CS
8	Al Ghandi	3	2	EEE
9	Al Nahda International	1	0	CHEM
10	Alghanim International	1	1	CHEM
11	Allen Career Institute	1	1	All Streams
12	Alpha Data	2	0	CS
13	Alucor	5	0	MECH,CS
14	Arqitek	1	1	CS
15	Arya Engineering	2	1	EEE/MECH/CS
16	ASA Ventures	1	0	All Streams
17	Asteco Property Management	4	2	All Streams
18	Azbil Corporation	2	1	All Streams
19	Bain & Company	1	1	CS
20	BAK Holdings	1	0	CS
21	Bayzat	2	0	All Streams
22	Beinex Consulting	1	0	CS
23	Bluelogic	1	0	CS
24	BNC Networks	2	0	All Streams
25	Captain & Company	1	0	CHEM
26	Careem	4	3	CS
27	Carnegie Mellon University	1	1	CS
28	Cinapolis Cinemas	1	0	All Streams
29	Cognizant	1	0	CS
30	Consent Dubai	1	0	EEE/MECH/CS
31	Cosmoplast	4	0	CS
32	Creation Gulf	1	0	EEE/MECH/CS
33	Crescent Dubai LLC	8	5	MECH,EEE
34	Crowe	8	6	CS
35	Cubit Technologies	4	2	CS
36	CX Unicorn	4	0	CS
37	Daggle LTD	1	0	CS
38	Daikin AC	2	1	MECH
39	Damac	2	0	CS
40	Delma Scaffolding Industries LLC	1	1	MECH

S.No	Name of the Company	Number of Students Interviewed	Number of Offers	Streams
41	Delphi Consulting	2	1	CS
42	Dewa	1	1	Mech
43	Dewan Architects	1	1	MECH
44	DNV-GL	4	2	All Streams
45	Dubai Technologies	2	1	CS
46	EFS Facilities Services	6	3	All Streams
47	Elfit Arabia	3	1	MECH
48	ELGI International	1	0	EEE/MECH/CS
49	Elitser Technologies	2	1	CS
50	Emerson	4	2	All Streams
51	Emirates SkyCargo	6	2	CS
52	Emirates Vision Events Management	1	1	Biotech
53	ESAB	4	0	MECH
54	ESRI	4	1	CS
55	Fastrack Industrial Resources LLC	1	0	Biotech/Chem
56	Fathima Group	6	0	CS
57	Febno Technologies	2	0	CS
58	Ferco Shutters	2	1	MECH
59	Finpower LLC	4	2	MECH
60	Flywheel Sport	1	0	All Streams
61	Fractal Systems	2	1	EEE
62	Fujisoft Technology LLC	1	1	CS
63	G+D Currency Technology	4	0	CS
64	Game Change	3	0	CS
65	GFK Middle East	0	0	ALL Streams
66	Granteq	3	1	All Streams
67	Grey Orange Robotics	1	1	CS
68	Gulf Talent	1	0	CS
69	Harwal	1	0	EEE
70	Help AG	4	2	CS
71	Hira Industries	4	2	CHEM,MECH
72	Huhtamaki	1	0	EEE/MECH/CS
73	Hutchinson Port Holding	2	0	All Streams
74	IBM Middle East	5	2	CS
75	ICC Loyalty	5	2	CS
76	IGI DMCC	1	0	BIOTECH,CHEM
77	Immensa Technologies	6	2	MECH
78	Immersive Experiences	2	1	All Streams
79	Integra Technologies FZE	1	0	CS
80	Interel	4	2	CS
81	ISYX Technologies	2	0	CS
82	Johnson Controls	4	2	All Streams
83	Kalpataru Power Transmission	1	1	MECH
84	Kantar World Panel	1	0	All Streams

S.No	Name of the Company	Number of Students Interviewed	Number of Offers	Streams
85	Kingsmen Middle East	4	1	All Streams
86	Kuehne+Nagel	1	0	All Streams
87	Lamprell	2	0	CS,MECH
88	Leads Dubai	1	1	CS
89	Liberty Building Solutions	1	0	All Streams
90	Logi Composites & Chemical Trading	4	2	CHEM
91	Logix Engine	1	1	BIOTECH
92	LSIS Middle East	1	0	EEE
93	Maico Gulf	1	1	ECE
94	Matic Services	1	0	CS
95	McDermott Dubai	1	1	EEE
96	Mena Water	2	1	CHEM
97	Metabyte	1	1	CS
98	Monaco Engineering Solutions	1	1	All Streams
99	National Elevators	1	0	MBA
100	National Marine Dredging Company	1	0	MECH
101	Noon.Com	2	2	CS
102	Omnitec	4	2	All Streams
103	OTIS	3	1	MECH
104	Oyo Vacation Homes Rental LLC	8	6	All Streams
105	Paraminfo	4	0	CS
106	Petrofac	4	0	CS,MECH,CHEM
107	Pivot Technologies	1	0	CS
108	PolariseME	4	0	CS
109	Polytec Masterbatch LLC	1	1	CHEM
110	Praxis Solutions	1	0	CS
111	Protiviti	2	1	CS
112	PWC	13	10	All Streams
113	Quality Finder Real Estate Management Consultancy	1	1	MECH
114	Quality International FZE	1	1	MECH
115	Redington Gulf	5	0	All Streams
116	Royal Arc Machinery	1	1	ECE
117	Safemaster LLC	1	0	EEE
118	Safety Worlds ME consultants	1	0	All Streams
119	Sapient	1	1	CS
120	Schindler	3	1	MECH/EEE
121	Schneider Electric	5	3	MECH/EEE
122	Shri Vaibhav Metacast Private Ltd	1	1	MECH
123	Siemens	2	1	CS,MECH
124	Spire Solutions	4	2	CS
125	Styro	4	3	MECH, CS
126	Sunsmart Global	1	0	All Streams
127	Takaful Emarat	6	4	CS,EC
128	Talabat	2	1	CS

S.No	Name of the Company	Number of Students Interviewed	Number of Offers	Streams
129	Taqeef	0	0	MECH
130	Taurani Holdings	0	0	MECH
131	Tebodin Bilfinger	1	1	CS
132	Torreced	5	0	All Streams
133	Transmed	1	0	All Streams
134	Trinity Holdings	1	0	MECH/CHEM
135	TUV Nord	3	1	BIOTECH
136	UAE Exchange	6	4	EEE
137	Unique Computer Systems LLC	2	0	CS
138	Washmen	8	0	All Streams
139	Ways Infotech	1	0	CS
140	WTA Studios	1	1	All Streams
141	Zomato	4	1	All Streams

Summary

Total No. of Companies:	141
Total No. of students interviewed:	312
Total No. of appointments offered:	136
Total No. of PPO Companies:	29
Total No. of PPO:	44

*Legend

CHEM: Chemical, CS/IT: Computer Science, EEE: Electrical & Electronics, EIE: Electronics & Instrumentation, MECH: Mechanical, BIOT: Biotechnology, ECE: Electronics & Communication, PPO: Pre Placement Offer

List of First Degree Projects Second Semester 2018-2019 (January 2019 to June 2019)				
S.No	Name	Topic	Instructor	Type
1	Swetha Sunil	Daylight Analysis And Building Performance Simulation Using Ies Ve	Gomathi Bhavani .R	DP
2	Allan Varghese Mathew	Wireless Transmission Of Solar Power Using Microwave Propagation	Gomathi Bhavani .R	DP
3	Sagar Agarwal	Implementing A Qr Code Based Information System In Museums	Shazi Shah Jabeen	DP
4	Akansha Das	Building A Recomender System	Sujala Deepak Shetty	DP
5	Navisha Daga	Chatbot - An Intelligent Assistant System Using Nlp And Machine Learning	Sujala Deepak Shetty	DP
6	Ramasa Vempati	IoT Implementation For A Smart City	Sujala Deepak Shetty	DP
7	Sidharth Krishnan	IOS Application Implementing CoreML And ARKit Watson Visual Recognition	Sujala Deepak Shetty	DP
8	Parth Poply	Parking Slot Detection Using Machine Learning	Sujala Deepak Shetty	DP
9	Lalitha Natraj	Development Of A Translation System Which Converts English Text To Pseudo Commands For An American Sign Language Animation Simulator	Sujala Deepak Shetty	DP
10	Kelvin Piety Decosta	Voice Conversion Using Wavenet Autoencoders	Sujala Deepak Shetty	DP
11	Rishika Mini Thulasi	Redesign Of The Mobile Device For The Elderly	Vadivel .S	DP
12	Sejal Chopra	Deep Learning Applied For Emotion Recognition Using Multi Dimensions	Vadivel .S	DP
13	Tanisha Jalan	Use Of Machine Learning In Satellite Imagery And Gis	Vadivel .S	DP
14	T Meena	Gender Recognition Using Machine Learning	Vadivel .S	DP
15	Anubhav Gupta	Deep Learning Applied For Paragraph Summarisation	Vadivel .S	DP
16	Kritika Lalit Kanjani	Enhancement Of Education With AR	Vijayakumar .B	DP
17	Akanksha Pulin Parikh	Integrated Sensor For Healthcare	Swarnalatha .R	DP
18	Harsith Rani Ashokkumar	Simulation And Analysis Of Graphene Based Gas Sensors For NO2 Detection	Krishna Kumar Singh	DP
19	Nikhil Sharma	Forecasting Oil Prices Using Time Series Analytics With Help Of Arima	Tapan Kumar Datta	DP
20	Harshita Gupta .	Management System Of Pharmacy	Tapan Kumar Datta	DP
21	Gunja Mehta	Echo Cancellation In Telecommunication Systems	Thoppil George Thomas	DP
22	Sai Deepti Vakkalanka	Small World Phenomenon	Somasundaram Arumugam	DP
23	Yash Vijay Zarekar	Simulation Of Major Automotive Systems Using Ricardo Software	Udayakumar	DP
24	Shivam Mishra	F1 Tyre Cooling Efficiency	Udayakumar	DP
25	Sultan Basheer Khan	Designing Automated Mobile Radars	Udayakumar	DP
26	Ayswarya Kumbalaparambil Shaji	Analysis Of Some Aspects Of A Switched Reluctance Motor	Adhir Baran Chattopadhyay	DP
27	Christina Loratte Vincent	Simulation Of Some Aspects Of A	Adhir Baran	DP

List of First Degree Projects Second Semester 2018-2019 (January 2019 to June 2019)				
S.No	Name	Topic	Instructor	Type
		Switched Reluctance Motor	Chattopadhyay	
28	Fawzan Riaz Ahmed	Solar Energy & Photovoltaic Cells	Adhir Baran Chattopadhyay	DP
29	Aswin Mohandas Narayanan	Design Of A Remote Controlled Aircraft	Adhir Baran Chattopadhyay	DP
30	Mohammed Shimil Hussain	Simulation Remote Controlled Aircraft	Adhir Baran Chattopadhyay	DP
31	Rishi Raj Pandey	Gravity Power Generation Mechanism	Venkatanaga Sankaram .M	DP
32	Samaksh Jhalani	Gravity Power Generation Mechanism	Venkatanaga Sankaram .M	DP
33	Rudhra Seetharam	Monitoring Plant's Health Using Iot	Abdul Razak .A.R	DP
34	Tanusha Leanne Diaz	Portable Electocardiograph	Abdul Razak .A.R	DP
35	Arulkumaran Ajay	Mechanical Behavior Of Magnesium Metal Matrix Composite	Periasamy .C	DP
36	Athul Augusty	Exhaust Gas Cleaning System In Ship	Periasamy .C	DP
37	Stephen Moansy Thomas	Modelling And Simulation Of Temperature Variations Of Bearings In A Hydropower Generation Unit	Periasamy .C	DP
38	Mohammed Adnan	Weld Line Detection Using 3d Camera	Karthikeyan .R	DP
39	Saksham Gupta	Forward And Inverse Kinematics Of Tal Brabo Robot	Karthikeyan .R	DP
40	Adhitya Durai Rajan Natarajan	Hvac Design Calculation Of A New Four- Story Medical, Clinical, Surgical And Office Building	Prakash Kumar .B.G	DP
41	Cleo Murali	Trees And Wood Derived Products: Ever- Growing Demands And Alternative Sources Of Biomass	Ramachandran .S	DP
42	Rudra Suresh	Design Of Sales And Marketing Model For Service Industry (Certification And Auditing) In The Area Of Food Safety Management System	Ramachandran .S	DP
43	Shivani Bipul Kumar Das	Production Of Lyocell Fibers From Non- Wood Sources: Advantages And Challenges	Ramachandran .S	DP
44	Sajida Begum M .	Application Of Bioinformatics And System Biology In Medicinal Plants	Ramachandran .S	DP
45	Mohammed Suhail Tharappel	Trajectory Tracking By Using Visual Feedback For Five Axis Robotic Manipulator	Kalaichelvi	DP
46	Mishika	Application Of Hybrid Techniques For Prediction Of Compressive Strength	Kalaichelvi	DP
47	Juhikaishar	Solving Real Life Lp Problems By Using Matlab	Suhel Ahmad Khan	DP
48	Raghav Sardana	Stock Behavior Prediction And Employee Turnover Management System Using Python	Suhel Ahmad Khan	DP
49	Zoha Arif Ansari	Numerical Solutions For Non-Linear And Integral Equations Using Matlab	Suhel Ahmad Khan	DP
50	Anjaney Singh	Approximation Of Some Selected Functions Using Matlab-Based Fuzzy Systems	Suhel Ahmad Khan	DP

S.No	Name	Topic	Instructor	Type
51	Ahmed Uzair	Database Management System For Managing Records Of Hostel Students	Santhosh Kumar Vasudevan	DP
52	Melvin George Mathew	Hostel Database Management System For Itinerary	Santhosh Kumar Vasudevan	DP
53	Mridul Bhandari	Implementation Of Database Management System Of Faculty For Hostel Staff	Santhosh Kumar Vasudevan	DP
54	Rashi Agrawal	Using Raspberry Pi To Build A Portable Hacking Station	Santhosh Kumar Vasudevan	DP
55	Syed Humaid Bin Haroon	Operating Systems Development	Santhosh Kumar Vasudevan	DP
56	Gupta Dev Shahbhudayal	Analysis And Ranking Of The Nifty Indices Using A Hybrid Mcdm Approach	Baskaran .S	DP
57	Emy Elizabeth Jacob	Structural Equation Model Of Smartphone Addiction And Its Implication On College Students	Baskaran .S	DP
58	Kanika Mathur	Sem Based Feasibility Study For Mobile Money Transfer Methods And Their Adaptability In Uae	Baskaran .S	DP
59	Anooshka Pudugramam Murali	Energy Consumption And Renewable Energy Methods	Anand Kumar	DP
60	Ashlyn Selena D Souza	Machine Learning To Calculate Energy Consumption Of Bpdc	Anand Kumar	DP
61	Erica Jacqueline Pinto	Extraction Of Electrical Power From Plants	Jagadish Nayak	DP
62	Shivani Sivakumar	Design And Development Of An Algorithm For Obstacle Detection By Robots	Jagadish Nayak	DP
63	Rohil Malhotra	Data Management For Automated Attendance System	Jagadish Nayak	DP
64	Vaidya Satyarth Samir	Data Mining For Predicting The Prevalence Of Diabetes	Gokhale Trupti Swarup	DP
65	Joel Louis	Non Invasive Power Tracker	Vilas Haridas Gaidhane	DP
66	Anjana Vasudevan S	Real Time Driver Drowsiness Detection Using Facial Recognition Techniques	Vilas Haridas Gaidhane	DP
67	Mayank Minda	High-Altitude Platforms For Wireless Communications	Raja Muthalagu	DP
68	Himani Bali	To Develop An Algorithm And Alternative Smart Energy Measures For Large Scale Power Systems	Raja Muthalagu	DP
69	Sachin Samuel Sanjay	Mitigation Of Evil Twin Wifi Attack	Raja Muthalagu	DP
70	Smrithi Malavalli Nagesh	Deep Learning In Spatial Multiplexing Mimo Communication (Multiple-Input Multiple-Output)	Raja Muthalagu	DP
71	Swathini Thirugnanasambandam	Deep Learning With Massive Mimo (Multiple-Input Multiple-Output)	Raja Muthalagu	DP
72	Fathima Sana	Study On Elevator To The Moon And Magnetic Elevation	Sazia Hasan	DP
73	Desai Mit Nileshbhai	Optimization Of Heat Exchanger Network - Review Of Various Methods And Application To A Case Study	Nishant Pandya	DP
74	Preetika Lakshmanan	Career Prediction Using Data Mining	Siddhaling Urolagin	DP
75	Haritha Hari Krishnan	Sentiment Analysis For Stock Prediction	Siddhaling Urolagin	DP
76	Agarwal Tushar Sudhir	Ai For Traffic Management	Siddhaling Urolagin	DP

S.No	Name	Topic	Instructor	Type
77	Keerthana Pramudi Suresh	Sentiment Analysis Of Android App Reviews	Siddhaling Urolagin	DP
78	Sanjeev Narasimhan	Mobile Application Accepting Payments Based On Fingerprint Bio-Metrics	Siddhaling Urolagin	DP
79	Aman Vohra	Development Of A Fingerprint Scanning System For Payment Authentication	Siddhaling Urolagin	DP
80	Ayesha Mohammed Yusuf K	3d Printing Of A Prosthetic Limb	Vincent Shantha Kumar	DP
81	Reuben Mathew Thomas	3d Printing Of A Prosthetic Limb	Vincent Shantha Kumar	DP
82	Kanika Mathur	Predictive Analysis Using Data Mining Techniques For Diagnosis And Prevention Of Diseases	Shilpee Srivastava Saxena	DP
83	Saeeda Mohammed Kabeer	Hybrid Movie Recommendation System With Sentiment Analysis	Shilpee Srivastava Saxena	DP
84	Jaskanwar Singh	Applying Natural Language Processing And Recurrent Neural Networks To Solve Real World Problems	Shilpee Srivastava Saxena	DP
85	Vinayak Sengupta	Smartbrain	Shilpee Srivastava Saxena	DP
86	Dhruv Shailesh Vaidya	Universal Language Interpreter For Transport	Shilpee Srivastava Saxena	DP
87	Sadhya Gulati	Computed Simulations Based On Dehydration Of Cacl ₂ And Znso ₄ Hydrates	Eldhose Iype	DP
88	Mohammed Zaid	Utilizing MI Techniques For Modelling Interatomic Interactions Based On Dft-Acquired Data	Eldhose Iype	DP
89	Zainab Tabassum	Study Of Kinetics Of Dehydration Of Salt Hydrates.	Eldhose Iype	DP
90	Gauri Khanna	An Investigation Into The Direct And Indirect Energy Losses For An Hvac System	Shashank Khurana	DP
91	Mohammad Raza Ali	Design & Cfd Analysis Of Compressible Flows In Nozzles	Shashank Khurana	DP
92	Pranav Upendranath Malhotra	Combat Aircraft Nozzle (Afterburners)	Shashank Khurana	DP
93	Raiyan Riyaz Shaikh	Design Analysis Of A Multistage Hydroelectric Turbine	Shashank Khurana	DP
94	Vishvanth Veera Kumar	Characteristics Of Flow And Thrust Variations In A Jet Engine With A Variable Area Nozzle.	Shashank Khurana	DP
95	Aaqib Hassan	3d Modeling And Thermal Simulation Of Overhead Water Tank With Enclosure	Meghana Charde	DP
96	Shakeel Ahamed	Effect Of Operating Conditions On The Performance Of Direct Liquid Fuel Cells	Naveen Kumar Shrivatsava	DP
97	Syed Ali Raza Zaidi	Plasma Gasification Process Modeling And Energy Recovery From Solid Waste	Naveen Kumar Shrivatsava	DP
98	Angel Mathew	Application Of Bioinformatics Tools To Predict Cellular Pathways Regulated During Exposure To Metal Nanoparticles	Pallab Sanpui	DP
99	Sultan Mustufa Morbiwala	Controlling Remote Robot Using Iot	Nilesh Goel	DP

S.No	Name	Topic	Instructor	Type
100	Somil Mathur	Implementing Consensus Algorithms Of Blockchain And Testing Their Efficiency And Speed In Decentralized Applications	Nilesh Goel	DP
101	Sujith S	Decentralized Juror Platform	Nilesh Goel	DP
102	Srijeev Sarkar	Assessing Image Quality - Formats, Bitmap Compression Algorithms & Colour Spaces	Gaurav Saxena	DP
103	Vijay Balaji	Analysis Of Credit Card Fraud Detection Techniques	Gaurav Saxena	DP
104	Nathan Marcus De Castro Monteiro	Image Identification Using Convolutional Neural Networks	Gaurav Saxena	DP
105	Chrisma Rajeender Mascarenhas	Hash Tabeled Intelligent Keyword Storage Cloud Document System	Gaurav Saxena	DP
106	Kevin Jeejo Puthoor	Developing A Website Using Database Systems & Javascript	Gaurav Saxena	DP
107	Ishaq Mohammed Shakir	Innovative Methods To Prevent Side-Stream Smoke From Cigarettes	Snehaunshu Chowdhury	DP
108	Rajeni Nagarajan	Implementation Of Diabetes Dataset Into Multiclassifiers	Angel Jothi	DP
109	Chettuthara Sulaiman Tanzeeha	Study On Retinal Image Processing Using Deep Learning	Angel Jothi	DP
110	Harshit Gajjar	Learn Python Programming Language	Angel Jothi	DP
111	Vijaya Gajanan Buddhavarapu	Classification Of Thyroid Histopathology Images Using Deep Learning.	Angel Jothi	DP
112	Fatma N Z Alyazji	Analysis And Design Of A Steel Structure Using Staad Pro	Vivek B	DP
113	Bidhan Rajesh Jain	Road Network Analysis And Configuration Using Ptv Vissim Software	Deepthi	DP
114		Road Network Analysis And Configuration Using PTV Vissim Software	Deepthi	DP
115	Eshwaran V	Machine Learning Applications In Information Security	Vadivel .S	LP
116	Solanki Akshar Deepakkumar	Design Of A Generic Software Architecture For Handling Large Streaming Data	Vijayakumar .B	LP
117	Jitesh Prasad Gurav	Novel Algorithm For Distributed Indexing And Retrieval Of Video Data Using Map Reduce Framework	Vijayakumar .B	LP
118	Tarun John Cherian	Distributed Indexing Using Map Reduce Method For Audio Files	Vijayakumar .B	LP
119	Nikita Bhargava	Distributed Indexing And Retrieval Of Image Data Using Map Reduce Framework	Vijayakumar .B	LP
120	Gupta Dev Shahbhudayal	Integrated Patient Measurement System	Swarnalatha .R	LP
121	Abhishek Anil Mungekar	Development Of A Scada Based Firewall Against External Hacking Devices	Swarnalatha .R	LP
122	Yashraj Kalpesh Solanki	Securing Data Transmission Lines Between Plc And Scada Human Machine Interface.	Swarnalatha .R	LP
123	Arulkumaran Ajay	Corrosion Behavior Of Magnesium Metal Matrix Composites	Muralidharan .B	LP
124	Abhinav Tanaji	Evaluation Of Elite Date Palm Varieties For Salt Tolerance At Various Salinity	Neeru Sood	LP

S.No	Name	Topic	Instructor	Type
125	Mohammed Shoaib	Implementation Of Data Structures And Algorithms For 2nd And 3rd Year Students.	Somasundaram Arumugam	LP
126	Mallipudi Sai Rithish	Extraction Of Bio Fuels From Algae And Testing Of Ic Engine	Udayakumar	LP
127	Sritama Banerjee Gourdas	Solar Energy Measurement System	Adhir Baran Chattopadhyay	LP
128	Adhitya Durai Rajan Natarajan	Design Of A Gearless Pm Motor (Direct Drive) For Escalator Application	Venkatanaga Sankaram .M	LP
129	Harsith Rani Ashokkumar	Tribocorrosioin Of Metallic Glass	Venkatanaga Sankaram .M	LP
130	Achuyth Somadas Kottayil	Fatigue Strength Analysis Of Welded Joints	Karthikeyan .R	LP
131	Kiran Rosh Raju	Incremental Sheet Forming - Online Monitoring	Karthikeyan .R	LP
132	Mohamed Anees Zubair	Hot Rolling Simulation Using Ansys	Karthikeyan .R	LP
133	Sarath Chandra Suryadevara	Bio Tribo Corrosion Study Of Magnesium Alloys	Karthikeyan .R	LP
134	Siddharth Sajan George	Friction Stir Welding Of Magnesium	Karthikeyan .R	LP
135	Sidharth Sasikumar	Incremental Sheet Forming Simulation	Karthikeyan .R	LP
136	Mohammed Wasif Ansari	Friction Stir Welding Of Magnesium - Characterization	Karthikeyan .R	LP
137	Angana Haridas	Energy Analysis From Biomass	Prakash Kumar .B.G	LP
138	Nikita Wilson	Synthesis Of Photo Catalyst For Wastewater Treatment	Prakash Kumar .B.G	LP
139	Theresa Paul	Production Of Cellulose From Pennisetum Purpureum (Napier Grass)	Ramachandran .S	LP
140	Sejal Chopra	Visual Servoing Using Convolutional Neural Network For Trajectory Generation Of Robotic Manipulator.	Kalaichelvi	LP
141	Abhishek Anil Mungekar	Online Measurement Using Hall Effect Sensor And Control Of Thickness For Incremental Sheet Forming Process	Kalaichelvi	LP
142	Patil Vrushali Bhausahab	Real Time Intelligent Control System For Robotic Manipulator Through Visual Servoing	Kalaichelvi	LP
143	Meenakshi Sivaramakrishnan	Soil Amendment For Water Treatment	Geetha	LP
144	Ritu Karnik	Synthesis Of Metal Nanoparticles In Bacteria	Gokhale Trupti Swarup	LP
145	Sulaf Majdeddin Alnaser	Antifungal Properties Of Metal Nanoparticles	Gokhale Trupti Swarup	LP
146	Tanishq Rupaal	Oscp Essentials	Nand Kumar	LP
147	Varun Thamarai Selvam	Optimization Of Water Treatment In Metallurgical Industries	Nishant Pandya	LP
148	Adithya Pradeep Nair	Tribo-Corrosion Of Metallic Glasses	Vincent Shantha Kumar	LP
149	Shweta Narayanan Karippath	Designing A Chamber For The Production Of Plastic Carbon Black Composite Filament To Be Used In 3d Printing	Priyank Upadhyaya	LP
150	K Mahathi	Glass Microsphere Filled Polymer Composite: Design And Manufacturing Of Structural Components And Extrusion Sheets And Tapes	Priyank Upadhyaya	LP

S.No	Name	Topic	Instructor	Type
151	Sohail Danish	Investigation On Performance And Emission Characteristics For Fuel Blends	Shashank Khurana	LP
152	Shilpa Sreekumar	Investigate And Study Bio-Locomotion	Shashank Khurana	LP
153	Habibulla Afnan Ahmed Basrur	Low Energy Nuclear Reactions	Naveen Kumar Shrivatsava	LP
154	Rohan Samuel Manogaran	Renewable Energy	Naveen Kumar Shrivatsava	LP
155	Kalvala Rohan Sai	Experimental Investigation Of Direct Liquid Fuel Cells	Naveen Kumar Shrivatsava	LP
156	Manali Nilesh Korgaonkar	Extraction And Encapsulation Of Plant Carotenoid In Natural Micelles	Pallab Sanpui	LP
157	Chandrasen Mohite	Antioxidant Activity Of Salicornia	Mainak Dutta	LP
158	Samantha Rachel Ferrao	Phytochemical Analysis Of Salicornia Bigelovi Stem Exposed To Different Degrees Of Salinity Stress	Mainak Dutta	LP
159	Chirag Parag Ghag	Fatty Acid Analysis Of Salicornia Bigelovi Germplasm Exposed To Different Degrees Of Salinity Stress	Mainak Dutta	LP
160	Akanksha Pulin Parikh	Engineering Cyanobacteria For Hydrogen Production	Namita Khanna	LP
161	Parvathy Siva Kumar	Hydrogen Production From Engineered Cyanobacteria	Namita Khanna	LP
162	Sania Firdous Hameed	Power Generation From Speed Breakers	Gomathi Bhavani .R	SOP
163	Krishna Rajesh Nair	Analysis Of Factors Associated With Change In Lifestyle	Shazi Shah Jabeen	SOP
164	Ahmed A D Farajallah	Analysis Of Assessment Methods Used In Higher Education	Shazi Shah Jabeen	SOP
165	Angel Mathew	A Nutrigenomics Outlook Towards Middle East's Transition From Traditional To Western Diet On Increasing Cancer Cases.	Dawood Jalaluddin Shariff .D	SOP
166	Muhammed Salah Al Din	Study Of Different Techniques Used In The Field Of Forensics During Death Investigation	Dawood Jalaluddin Shariff .D	SOP
167	Gulfishaan Abdul Waheed Abdar	Analysis Of Processed Food And Preservatives	Dawood Jalaluddin Shariff .D	SOP
168	Smridhi Mathur	Study On Cell Therapy Bio Processing	Dawood Jalaluddin Shariff .D	SOP
169	Uthara Sharath	Delay Differential Equations	Maneesha	SOP
170	Avani Gupta	Application Of Computer Vision In Road Safety	Maneesha	SOP
171	Zeya Ahmad	Application Of Computer Vision In Vehicle Identification	Maneesha	SOP
172	Devi Raj Malayil	Harmful Effects Of Cloud Seeding To Induce Artificial Rainfall In Uae	Vijaya Ilango	SOP
173	Manasa Prasad	Biotransformation Of Nanomaterials In The Environment	Vijaya Ilango	SOP
174	Neha Jitender Manghnani	A Study On Internet Of Things And How To Secure It	Tapan Kumar Datta	SOP
175	Rengapriya Aravindan	The Rise Of Blockchain And Cryptography And Their Applications	Tapan Kumar Datta	SOP
176	Anjali Gollapalli	Relation Between Blockchains And Cryptography	Tapan Kumar Datta	SOP
177	Rifah Mohamed	Forecasting Business And Financial Data	Tapan Kumar Datta	SOP

S.No	Name	Topic	Instructor	Type
178	Niyati Singh Sokhi	A Study On Blockchain Technology And Its Applications	Tapan Kumar Datta	SOP
179	Agneevo Mukherjee	Design And Implementation Of Rake Receiver For Multipath Signals	Thoppil George Thomas	SOP
180	Melissaviyane Antony Venancius	Bioremediation Of Hazardous Pollutants	Neeru Sood	SOP
181	Pranav Prakash Shedge	Liposomes : Classification,Preparation & Applications	Neeru Sood	SOP
182	Vaishnavi Prabhakar Golkonda	Study On Perovskite Material On Solar Cells	Ramadoss Roop Kumar	SOP
183	Kunal Ram Haryani	Study Of Graph Theory And It's Application In Social Networking Analysis	Somasundaram Arumugam	SOP
184	Aditya Moudgil	AI And Machine Learning In Autonomotive Industries	Udayakumar	SOP
185	Johann Sergio Fernandes	Energy-Storing Body Panels In Electric Cars	Udayakumar	SOP
186	Abrar Ahmed	Hybrid Technology In High Performance Vehicles	Udayakumar	SOP
187	Palaksh Pradeep Yelamali	Mild Hybrid Vehicles	Udayakumar	SOP
188	Madala Sriram Bhaskar	Braking Systems	Udayakumar	SOP
189	Snehal Kumar Singh	Review Of Building Integrated Photovoltaic Systems	Venkatanaga Sankaram .M	SOP
190	John Reymond	Study On The Various Methods To Treat Water Using Ozone	Venkatanaga Sankaram .M	SOP
191	Simran More	Robotics And Its Applications	Abdul Razak .A.R	SOP
192	Nikshita Sarangi	Implementation Of Multiplication Algorithm On Fpga	Abdul Razak .A.R	SOP
193	Jyot Rajesh Madani	Designing And Implementing 3d Printers	Abdul Razak .A.R	SOP
194	Rohan Joseph	Green Buildings	Periasamy .C	SOP
195	Mridul Bhandari	Analysis And Formulation Of Iterative Optimization Algorithm	Suhel Ahmad Khan	SOP
196	Harshita Gupta .	The Four Colour Theorem	Suhel Ahmad Khan	SOP
197	Lakshmi Shankar Narayanan	Solubility Of Lignin	Rusal Raj Francis	SOP
198	Viniith Sarawate	Depolymerization Of Lignin By Biological Method	Rusal Raj Francis	SOP
199	Malay Kirit Mehta	Depolymerizaion Of Lignin By Chemical Methods	Rusal Raj Francis	SOP
200	Krishi Haresh Punjabi	Oxidation Of Lignin	Rusal Raj Francis	SOP
201	Halima Yousuf Ali Ebrahem Abdallah	Pico-Hydro Powered Water Saving Device	Kavita Sunil Jerath	SOP
202	Haneen Abdel Razzaq Ali Abdallah	Generating Electricity From Soundwaves	Kavita Sunil Jerath	SOP
203	Fawzan Riaz Ahmed	A Visualization Study On Electronic Dance Music.	Kavita Sunil Jerath	SOP
204	Shifa Rahman Sanaur	Importance Of Paternity Leave	Kavita Sunil Jerath	SOP
205	Suhail Nazeer Patayath	A Study On Recent Trends In Electric Vehicle Battery Technology	Sunil Thomas	SOP
206	Ayub Amir	Understanding Quantum Theory And Applying Quantum Computing To Solve Real World Challanges	Santhosh Kumar Vasudevan	SOP
207	Anushka Umesh Mallya	Digit Classification Using Neural Networks	Santhosh Kumar Vasudevan	SOP

S.No	Name	Topic	Instructor	Type
208	Kapil Hitesh Gohil	Nano Materials For Waste Water Treatment	Karthiyayini .S	SOP
209	Sarath Chandra Suryadevara	Understanding Karma From Bagavad Gita As It Is	Karthiyayini .S	SOP
210	Urvashi Sharma	The Relevance Of Bhagwat Gita In The Present World	Karthiyayini .S	SOP
211	Carol Sachdeva	Impact Of Social Media On Mental Health	Geetha	SOP
212	Ramcharan Tej Vutpalakesavarao	Increasing The Shelf Life Of Edible Fluids By Altering Its Rheological Properties	Geetha	SOP
213	Mohammed Afaounodden Ahmed	Economic Benifits Of Waste Segregation In Uae	Geetha	SOP
214	Karanveer Singh	Harvesting Electricity From Microorganism And Finding Its Potential Application.	Geetha	SOP
215	Clayton Pereira	Electrical Drive Systems For Smart Electric Vehicles	Anand Kumar	SOP
216	Abhinav Tanaji	Applications Of Metal Nanoparticles In Medicine	Gokhale Trupti Swarup	SOP
217	Kevin Rodrigues	Technology Of Internet Of Things (Iot) Applied On Smart Grid	Sazia Hasan	SOP
218	Aamer Abdul Rahman	Detecting Objects Using Neural Networks On Raspberry Pi	Sazia Hasan	SOP
219	Urvashi Kamal Satwani	Review On Plant-Based Cheese Manufacturing Process	Nishant Pandya	SOP
220	Sania Suaris	Storage Of Solar Energy	Nishant Pandya	SOP
221	Rohit Bharadwaj Kallakuri	Review Of Multi-Effect Desalination Techniques	Nishant Pandya	SOP
222	Farhan Vakkeparambil Shajahan	Documentation On Steel Fabrication,Corrosion And Reactive Coating Treatment[Rct] Process.	Vincent Shantha Kumar	SOP
223	Muhammed Hussain Zakir	Alternative Material For Car Tyres	Vincent Shantha Kumar	SOP
224	Arafath Syed Rajbabu	Study And Analysis Of The Effect Of Corrosion On Different Materials With Comments On Passivation.	Vincent Shantha Kumar	SOP
225	Anantha Yashwanth Srinidhi	Green Materials In Sustainability Of Buildings	Vincent Shantha Kumar	SOP
226	Jayant Panwar	Factor Analysis To Select A Universe Of Stocks	Shilpee Srivastava Saxena	SOP
227	Aaqib Hassan	Life Cycle Assessment Of A Smartphone	Ms. Sreelakshmi Babu	SOP
228	Vijay Balaji	Integrating Environmental Aspects In Product Design	Ms. Sreelakshmi Babu	SOP
229	Mohammed Sameer Mohammed	Institutional Waste Management Case Study Dubai	Ms. Sreelakshmi Babu	SOP
230	Nikhil Sharma	Impact Of Goods & Services Tax On Indian Economy	Natesa Prasad	SOP
231	Karan Sulekh .	Tidal Energy	Naveen Kumar Shrivatsava	SOP
232	Safiya Aafreen	Review On Keratin As A Biomaterial For Tissue Engineering	Pallab Sanpui	SOP
233	Uthara Sharath	The Corporate Governance In Adcb Bank Of Dubai	Mrutujanaya Sahu	SOP
234	Afraa Siraj Hussain	Women Migration In Uae: A Case Study Of Kerala Nurses	Mrutujanaya Sahu	SOP

S.No	Name	Topic	Instructor	Type
235	Juhikaishar	India's Relations With The Gcc States: Prospect And Retrospect	Mrutujanaya Sahu	SOP
236	Rajeni Nagarajan	The Impact Of Organizational Behavior On Organisational Performance	Mrutujanaya Sahu	SOP
237	Zoha Arif Ansari	Happiness And Economic Development In Uae	Mrutujanaya Sahu	SOP
238	Adithya T P	Understanding Neural Net Variants And Their Applications	Nilesh Goel	SOP
239	Shivam Bansal	Optimization Of Circuit For Given Parameters	Nilesh Goel	SOP
240	Ayush Chamoli	Attrition Analysis	Sartaj Rasool Rather	SOP
241	Sai Deepti Vakkalanka	Nature-Inspired Computation	Gaurav Saxena	SOP
242	Mariana Clara Jojo	Erp Systems And Overview	Gaurav Saxena	SOP
243	Meena Thirupathi	AI Based Automated Surveillance	Gaurav Saxena	SOP
244	Mohammed Siyaam	Nox Emissions In Gas Turbines	Snehaunshu Chowdhury	SOP
245	Sanmugapriya Coimbatore Bhoopal	Innovative Bio-Based Solutions For Micro-Plastics	Namita Khanna	SOP
246	Nikita Kumar Kulkarni	Innovative Bio-Based Solutions For Pollution	Namita Khanna	SOP
247	Nikita Ahuja	Emoticon Analysis	Angel Jothi	SOP
248	Karyn Anselm D Souza	Study On Learning Python Programming Language	Angel Jothi	SOP
249	Venkata Prasanth Sai Konda	Blockchain Theory And Development	Angel Jothi	SOP
250	Paramita Mazumdar	Electrical Bus	Deepthi	SOP
251	Pratik Chatterjee	Electrical Bus	Deepthi	SOP
252	Ramachandrani Sai Sanjeev	Home Automation Using Raspberry Pi	Sujala Deepak Shetty	SP
253	Manali Parag Phawde	Development And Validation Of Analytical Method For Selected Drugs For Estimation In Bulk And Formulations	Neeru Sood	SP
254	Nitya Bhardwaj	Synthesis Of Metal Nanoparticles For Applications In Plant Growth	Neeru Sood	SP
255	Sai Vijay Venkatesh	Performance And Emission Of CI Engine With Additives	Udayakumar	SP
256	Khamarudheen. K.A	Cold Rolling Simulation Using Fea	Karthikeyan .R	SP
257	Tanusha Leanne Diaz	A Data Analysis Of Trending Electronic Dance Music.	Kavita Sunil Jerath	SP
258	Zeya Ahmad	Restaurant Revenue Prediction	Santhosh Kumar Vasudevan	SP
259	Anjaney Singh	Flight Prediction Of Some Selected Products Of A Company Using Multivariate Analysis Using Python Programming Language	Nand Kumar	SP
260	Neeraja Narayanswamy	Neural Cryptography	Siddhaling Urolagin	SP
261	Srijeev Sarkar	Light Pollution - Ecological Impact	Ms. Sreelakshmi Babu	SP
262	Nathan Marcus De Castro Monteiro	Prediction Of Air Pollution Using Data Mining	Ms. Sreelakshmi Babu	SP
263	Debashish Sachin Chitnis	Synthesis And Characterization Of Antibacterial Silver-Zein Nanocomposite	Pallab Sanpui	SP

List of First Degree Projects				
First Semester 2019-2020 (August 2019 to January 2020)				
S.No	Name	Topic	Instructor	Type
1	Digvijay Gorle	Investigation Of Types Of Wireless Transmission Of Power	Gomathi Bhavani .R	DP
2	Ashlyn Selena D Souza	Gesture Recognition Using Deep Learning	Sujala Deepak Shetty	DP
3	Haritha Harikrishnan	Twitter Analysis For Suicidal Data	Sujala Deepak Shetty	DP
4	Piyush Khandelwal	Medical Image Analysis Using Deep Learning	Sujala Deepak Shetty	DP
5	Aindala Pradeep Kumar	Smart Healthcare Monitoring System Based On Iot	Sujala Deepak Shetty	DP
6	Vivekanandan S	Twitter Sentiment Analysis	Sujala Deepak Shetty	DP
7	Puneet Agarwal	Data Mining On Medical Data	Sujala Deepak Shetty	DP
8	Akshat Kumar Tyagi	Creating Blockchain Based Supply Chain For Consumers And Manufacturers	Vadivel .S	DP
9	Siddhartha Mahendra	Analysis Of Financial Statements Using Machine Learning	Vadivel .S	DP
10	Stp Satwik	Comparing Machine Learning Strategies And Models For Credit Card Fraud Detection	Vadivel .S	DP
11	Mohammed Kassim N	Obstacles Avoiding Robot	Vadivel .S	DP
12	Taanya Sunil	Design And Development Of An Aid Device For Deaf Drivers	Swarnalatha .R	DP
13	Riya Mariam Mathews	Implementation Of Car Horn Detection Using Matlab	Swarnalatha .R	DP
14	Krishna G	Cancer Diagnosis Using Matlab	Swarnalatha .R	DP
15	Neeharika Senthilkumar	Biosafety And Bioethical Regulation In The Uae	Neeru Sood	DP
16	Mohammed Haris A	Analysis Of Vertical Axis Hybrid Wind Turbine	Udayakumar	DP
17	Eldon Lalson Kandamkulathy	Chassis And Chassis Material Analysis	Udayakumar	DP
18	Kishore Balamurugan	Computational Analysis And Optimization Of Spiral Plate Heat Exchanger	Udayakumar	DP
19	Naseef Sadhik	Exhaust Heat Recovery In Engines For Performance Improvement	Udayakumar	DP
20	Swetha Sunil	Electronic Speed Controller	Adhir Baran Chattopadhyay	DP
21	Allan Varghese Mathew	Investigation On The Design Of Induction Motor From The Viewpoint Of Power To Weight Ratio.	Adhir Baran Chattopadhyay	DP
22	Mohamed Kani Mohamed Mustafa	Some Aspects Of Analysis Of Starting And Braking Phenomena Of A 3-Phase Induction Motor	Adhir Baran Chattopadhyay	DP
23	Abbahs Siraj	Investigation Of Performance Of A 3 Phase Induction Motor Under Known Sinusoidal Excitation	Adhir Baran Chattopadhyay	DP
24	John Reymond	Finite Element Analysis Of A Submarine Propeller Blade	Venkatanaga Sankaram .M	DP
25	Neeraja Narayanswamy	Smart Dustbin	Abdul Razak .A.R	DP
26	Kshama N Shah	Smart Dustbin	Abdul Razak .A.R	DP
27	Anaghananda Santhosh Kumar	Design Of Green Building	Periasamy .C	DP

S.No	Name	Topic	Instructor	Type
28	Ashley Rohit Lobo	Vision Based Control Of Robotics Manipulator	Karthikeyan .R	DP
29	Sanup Thomas Mathew	Friction Stir Welding - Characterization	Karthikeyan .R	DP
30	Usman Ahmed Mushtaq	Friction Stir Welding - Simulation	Karthikeyan .R	DP
31	Mohammed Adnan	Incremental Sheet Forming	Karthikeyan .R	DP
32	Rohith Biju Issac	Friction Stir Welding - Manufacture	Karthikeyan .R	DP
33	Saksham Gupta	Incremental Sheet Forming Simulation	Karthikeyan .R	DP
34	A Adiban Samy	Simulation Studies On 5dof Robotic Manipulator	Karthikeyan .R	DP
35	Faiz Abdul Salam	Design And Fabrication Of 3 R Robotic Manipulator	Karthikeyan .R	DP
36	Mohammed Suhail Tharappel	Development Of Unmanned Surface Vehicle With Remote Data Acquisition Capabilities	Kalaichelvi	DP
37	Mishika	Real Time Haze Removal Using Computer Vision Techniques	Kalaichelvi	DP
38	Esther Natarajan	Sensor Fusion And Control For Solving Industrial Problems	Kalaichelvi	DP
39	Neetesh Singh Bhati	A Recurrent Neural Network Approach For Visual Servoing Of Robotic Manipulator	Kalaichelvi	DP
40	Venkateshwar Govindaraj	Vision Based 3d Scanning And Quality Assessment For Manufacturing Process	Kalaichelvi	DP
41	Rengapriya Aravindan	Application Development	Santhosh Kumar Vasudevan	DP
42	Chrisma Rajeender Mascarenhas	Monitoring Suspicious Discussion On Online Forums Using Data Mining	Santhosh Kumar Vasudevan	DP
43	Rifah Mohamed	Emotion Recognition Using Image Processing In Python And Open Cv	Santhosh Kumar Vasudevan	DP
44	Thangam Alagappan	Defense Against Man In The Middle Attacks	Santhosh Kumar Vasudevan	DP
45	Rishabh Gupta	Handwritten Digits Recognition Using Neural Networks	Santhosh Kumar Vasudevan	DP
46	Apurav Vij	Design And Development Of Web Portal For Passport Tracking	Santhosh Kumar Vasudevan	DP
47	Shreya Kohli	Mapping Of Solid Waste Using Gis In Dubai And Ways To Minimize It.	Geetha	DP
48	Sania Firdous Hameed	Power Conservation Using Light Sensors	Anand Kumar	DP
49	Aamer Abdul Rahman	Designing And Building An Autonomous Vehicle Using Neural Networks / Computer Vision	Anand Kumar	DP
50	Siddhant Nair	Facial Detection Based Attendance In Ios	Jagadish Nayak	DP
51	Haryani Kunal Ram	Rfid Attendance System Using A Raspberry Pi Microcontroller	Jagadish Nayak	DP
52	Jyot Rajesh Madani	Exploring The Potential And Implementing Esp Microcontrollers	Jagadish Nayak	DP
53	Sarthak Sethi	Smart Un-Manned Self-Service Retail Units With Security	Jagadish Nayak	DP
54	Gunja Mehta	Non-Invasive Method Of Blood Glucose Testing	Vilas Haridas Gaidhane	DP
55	Nupur Vaswani	A Wireless Application Of Drip Irrigation Automation Supported By Soil Moisture Sensors.	Vilas Haridas Gaidhane	DP

S.No	Name	Topic	Instructor	Type
56	Karan Gupta	lot Based Bms(Battery Management System)	Vilas Haridas Gaidhane	DP
57	Tirth Ketan Lakhani	Seebeck Generator	Vilas Haridas Gaidhane	DP
58	Shaun Fernandes	Location Detection For Indoor Navigation Using Wifi-Rssi	Raja Muthalagu	DP
59	Duseja Dhruv Anant	Application For Indoor Wifi Navigation	Raja Muthalagu	DP
60	Samar Kulsoom Nadeem	Modelling Human Activity From Smartphone Data	Raja Muthalagu	DP
61	Suriya Ragavan Badrinath	Using Smartphone Data To Model Human Activity	Raja Muthalagu	DP
62	Govindolla Ashish	Guiding Map For Transit Airport Convenience App (Tac)	Sazia Hasan	DP
63	Swetha Perial Perichiappan	Re-Booking Software Using Airline Database For Transit Airport Convenience App (Tac)	Sazia Hasan	DP
64	Buchireddy Chaitanya Bhaargava	Pnr Scanner And User Interface For Transit Airport Convenience App (Tac)	Sazia Hasan	DP
65	Shifa Rahman Sanaur	Simulation Of Heat Integrated Distillation Column Using A Software Tool	Nishant Pandya	DP
66	Urvashi Kamal Satwani	Using Artificial Intelligence To Find Ways To Replace Animal-Based Food Products	Nishant Pandya	DP
67	Era Parihar	Image And Face Sentimental Analysis	Siddhaling Urolagin	DP
68	Krishna C Kushal	Data Mining And Machine Learning Technique For Better Employment	Siddhaling Urolagin	DP
69	Rishita Arora	Application Of Machine Learning For Career Guidance	Siddhaling Urolagin	DP
70	Jeel Patel	Use Of Data Mining In Tourism	Siddhaling Urolagin	DP
71	Gourisha Sethi	Behavioral Analysis Using Unsupervised Anomaly Detection	Siddhaling Urolagin	DP
72	Shivam Mishra	Cfd Analysis On Aeronautical Structures & Materials	Vincent Shantha Kumar	DP
73	Rayyan	Biocorrosion Evaluation On A Zr-Cu-Ag-Ti Metallic Glass	Vincent Shantha Kumar	DP
74	Jayant Panwar	Hedging Beta And Sector Exposures	Shilpee Srivastava Saxena	DP
75	Nikita Ahuja	Machine Learning And Data Mining Methods In Diabetes Research	Shilpee Srivastava Saxena	DP
76	Mohammed Afaounodden Ahmed	Automation Of Data Modeling For Improving Process Efficiency And Prediction Analysis Algorithms	Shilpee Srivastava Saxena	DP
77	Allan Barbosa	High Throughput Screening Using Machine Learning	Eldhose lype	DP
78	Shelar Maithily Rakesh	Natural Gas Sweetening Equipment Design Using Aspen Cost Estimator	Eldhose lype	DP
79	Jayant Panwar	Application And Implementation Of Kalman Filters	Shashank Khurana	DP
80	Pugalia Nipun Naresh	Rain Water Harvesting Using Gis For Latur	Meghana Charde	DP
81	Kshama N Shah	Rain Water Harvesting Using Gis For Latur	Meghana Charde	DP
82	Rishi Raj Pandey	Study And Design The Working Of A Formula Car.	Naveen Kumar Shrivatsava	DP

S.No	Name	Topic	Instructor	Type
83	Arun Bhaskar Karanayil Anil	Extraction Of Water From Atmosphere For Restoration Of Water Content In Wiper Reservoir For Automobiles.	Naveen Kumar Shrivatsava	DP
84	Riddhima Shukla	Stress Monitoring System Using Temperature And Blood Pressure Sensors	Nilesh Goel	DP
85	Saaima Anwar Feroz	Stress Monitor Using Galvanic Skin Response	Nilesh Goel	DP
86	Paramita Mazumdar	Stress Monitor Using Heart Rate Sensor	Nilesh Goel	DP
87	Pratik Chatterjee	Stress Monitor Using Respiratory Rate Sensor	Nilesh Goel	DP
88	Syed Ahmad Hashir Faraz	Lift & Drag On Slotted Cylinders	Snehaunshu Chowdhury	DP
89	Sulaf Majdeddin Alnaser	Optimization Of Process Parameters For Biohydrogen Production For Local Lab Isolate	Namita Khanna	DP
90	Akshaya Ramachandran K	Natural Language Processing Using Machine Learning	Angel Jothi	DP
91	Amena Qadri Syed	Study On Deep Learning And Its Application To Face Recognition	Angel Jothi	DP
92	Aishwarya Sairama	Study On Deep Learning And Its Application To Hand Writing Recognition	Angel Jothi	DP
93	Shivam Bansal	Study On Soft Computing Techniques And Their Application To Computer Vision	Angel Jothi	DP
94	Adithya T P	Image Captioning With Deep Learning	Angel Jothi	DP
95	Fatma N Z Alyazji	Behavior & Performance Of Bio-Cement Concrete For Pavements	Deepthi	DP
96	Kenish Vipul Shah	Designing A Tokenization Process For Civil Engineering Infrastructure Projects	Deepthi	DP
97	Manoj Reddy Tudi	Adaptive Traffic Signal Control Using Reinforcement Learning	Deepthi	DP
98	Pugalia Nipun Naresh	Analysis Of Import Substitution And Export Promotion For Crude Oil In India	Parizad Dungore	DP
99	S Karthika	Walking Charger Using Piezoelectric Material	Gomathi Bhavani .R	LP
100	Sachin Samuel Sanjay	Prevention Of Denial Of Service Attack Using Machine Learning	Vadivel .S	LP
101	Anubhav Gupta	Intelligent Computer Network Packet Transmission Based On Deep Learning	Vadivel .S	LP
102	Nimra Taneem	Multimedia Based Compsotion And Presentation System- Text, Graphics, Animation	Vijayakumar .B	LP
103	Roshni Dodhi	Multimedia Based Compsotion And Presentation System- Audio, Video, Images	Vijayakumar .B	LP
104	Chris Walter Quadros	Maximization Of Hydrogen Production From Constructed Consortium	Dawood Jalaluddin Shariff .D	LP
105	Shreya Padmesh Prajapat	Isolation Of Microbes From Prosopis Rhizosphere	Neeru Sood	LP
106	Melissaviyane Antony Venanciu	Characterization Of Landfill Isolates For Polythene Bio-Degradation.	Neeru Sood	LP
107	Aishwarya Atakkatan	Isolation Of Microbes From Rhizosphere Of Moringa	Neeru Sood	LP

S.No	Name	Topic	Instructor	Type
108	Riya Nair	Biodegradation Of Plastics (Polyvinyl Chloride) Using Isolates From Landfill Soil In Uae	Neeru Sood	LP
109	Pranav Prakash Shedge	Liposome Preparation For Drug Entrapment	Neeru Sood	LP
110	Rithvik Chinta	Waste Heat Recovery System	Periasamy .C	LP
111	Jagannathan Umopathy	Extrusion For Different Materials	Periasamy .C	LP
112	Manupati Indeever	The Valve Timings In An Ic Engine	Periasamy .C	LP
113	Gulfishaan Abdul Waheed Abdar	Development Of Animal Feed Using Salinity Tolerant Plants	Ramachandran .S	LP
114	John Reymond	Analysis Of Mechanical Properties For Metal And Its Alloys In The Bulk And Nanoscale	Karthiyayini .S	LP
115	Aman Vohra	Implementation Of Matlab For Nucleon Structure Function Calculation	Karthiyayini .S	LP
116	Jasiya Harris	Wastewater Treatment Using Microbial Fuel Cell	Geetha	LP
117	Ramcharan Tej Vutpala Kesava R	Chemical Characterization Of Date Syrup	Geetha	LP
118	Padmaktshni Suryanarayanan	Microbial Fuel Cell Construction And Evaluation	Geetha	LP
119	Pandhi Himali Rajivkumar	Applications Of Metal Nanoparticles Synthesized By S.Maltophilia	Gokhale Trupti Swarup	LP
120	Barai Samruddhi Pramod	Some Studies On Vaccines And Biological Substances Delivery	R N Saha	LP
121	Anna Joy	Wastewater Management Through Electrocoagulation	Nishant Pandya	LP
122	Jaskanwar Singh	Using Deep Learning To Do Behavioural Analysis	Siddhaling Urolagin	LP
123	Anchal Nahata	Corrosion Testing On Magnesium Alloys	Vincent Shantha Kumar	LP
124	Prajit Samir Rawte	Analysis Of Meta Materials For Vibration Isolation.	Priyank Upadhyaya	LP
125	Shreya Pratap Singh	Manufacturing Of Sandwich Panels Using Glass Fibre	Priyank Upadhyaya	LP
126	Vaishnavi Prabhakar Golkonda	Design And Development Of A Radio Control Ornithopter	Shashank Khurana	LP
127	Alhaytham A H Farajallah	Performance Improvement Of An Si Engine	Shashank Khurana	LP
128	Samantha Rachel Ferrao	Synthesis Of Protein-Stabilized Silver Nanoparticles And Their Antibacterial Response	Pallab Sanpui	
129	Fatma N Z Alyazji	Compatibility Of Cement With Water Reducing Admixture In Concrete	Sridhar Gangaputhiran	LP
130	Muhammed Salah Al Din Ayoubi	Xanthine Oxidase Activity Of Salicornia	Mainak Dutta	LP
131	Karanveer Singh	Antioxidant Activity Of Salicornia Exposed To Different Degrees Of Salinity	Mainak Dutta	LP
132	Somil Mathur	Machine Learning Approach To Classify Transit Signals And Identification Of Exoplanets	Nilesh Goel	LP
133	Sujith S	Negotiating Deals Using Artificial Intelligence Models	Nilesh Goel	LP

S.No	Name	Topic	Instructor	Type
134	Ritu Karnik	Pretreatment And Fermentation Of Algal Biomass Grown In Salt Water As A Feedstock For Biofuels And High-Value Biochemicals.	Namita Khanna	LP
135	Sanmugapriya Coimbatore Bhoopa	Biocement	Namita Khanna	LP
136	Nikita Kumar Kulkarni	Development Of Deletion Vector To Knockout Polyhydroxy Butyrate (Phb) Pathway In Synechocystis Pcc 6803	Namita Khanna	LP
137	Tipparaju Venkata Sai Anuj	Study On Recommendation Systems	Angel Jothi	LP
138	Yagnesh Bapodra	Fem Of Extrusion Process	Gulshan Kumar	LP
139	Abdullah Bin Sohaib	Prediction Of Cutting Forces And Surface Roughness In Cnc Machining	Gulshan Kumar	LP
140	Abel Suresh	Fem Simulation Of Nanoindentation Process	Gulshan Kumar	LP
141	Akash Kumar Nelli Sukumar	Hot Rolling Of Titanium Alloys	Gulshan Kumar	LP
142	Tarun Raghuram Tirchanapally	Single Point Incremental Sheet Metal Forming	Gulshan Kumar	LP
143	Samyuktha Senthil Athiban	Optimal Performance Analysis Of Building Interiors Using Ies Ve	Gomathi Bhavani .R	SOP
144	Almoumena Bellah Ali Alali Als	Factors Influencing The Career Choices Of Students	Shazi Shah Jabeen	SOP
145	Mahmoud Ny Abusultan	Study Of The Relationship Between Volunteering And Happiness	Shazi Shah Jabeen	SOP
146	Gracia Tabitha	Gender Differences In Happiness Among Young Adults	Shazi Shah Jabeen	SOP
147	Sunidhi Kashyap	Correlation Between Media Consumption And Eating Disorder: A Gender-Based Study	Shazi Shah Jabeen	SOP
148	Greeshma Kurup	Study Of Ransomware Attacks	Sujala Deepak Shetty	SOP
149	Abhinav Sharma	Analysis Of Honey Pots & Firewalls	Vadivel .S	SOP
150	Pandhi Himali Rajivkumar	Applications Of Metal Nano-Particles As Anti Microbial And In Targeted Drug Delivery.	Dawood Jalaluddin Shariff .D	SOP
151	Sandra Innesent	Studies On The Factors Affecting Genomic Imprinting.	Dawood Jalaluddin Shariff .D	SOP
152	Manji Abdul Mohammed Suhail	Improvisation In Pedagogy At Undergraduate Level	Maneesha	SOP
153	Kamna Sachdev	A Study Of Education Technology In Universities	Maneesha	SOP
154	Varshini Rajesh	Speech Processing Through Hearing Aids For The Hearing Impaired.	Thoppil George Thomas	SOP
155	Bhavya Vimal	A Study On Different Types Of Regenerative Brake And Their Efficiency	Udayakumar	SOP
156	Rayyan Ahammed Rafeeh Ahammad	Superconducting Energy Storage System	Adhir Baran Chattopadhyay	SOP
157	Gunja Mehta	Mathematical Modeling Of Pharmaceutical System	Adhir Baran Chattopadhyay	SOP
158	Mohammed Adnan	Study Of Condition Monitoring Methodologies Of Rotating Machinery	Venkatanaga Sankaram .M	SOP
159	Aashna Kapoor	Designing Electrical Power Systems For Satellites	Abdul Razak .A.R	SOP
160	Ahamad Abaan Althaf	Tidal Energy Generation In The Uae	Abdul Razak .A.R	SOP

S.No	Name	Topic	Instructor	Type
161	Alicia Biju	Social Engineering - Being Aware And Staying Safe	Abdul Razak .A.R	SOP
162	Vrinda Sati	Neuromorphic Computing	Abdul Razak .A.R	SOP
163	Aparna Raghunath	Stock Market Analysis Using Data Mining	Abdul Razak .A.R	SOP
164	Utkrisht Kumar	Application Of Noble Metal Catalyst In Electronic Machinery	Rajan Ramaswamy	SOP
165	Abdul Muqsith Alias Mohammed S	Measurement Of Stellar Distances	Suhel Ahmad Khan	SOP
166	Sankineni Anurag	A Study Of The Impact Of The Industrial Revolution On The Present Day Society	Kavita Sunil Jerath	SOP
167	Vasudha Maddali	A Comparative Study Of The Differences Between The Ideologies Of Western Philosophers And Modern Philosophers And Their Impact On Modern Day Society	Kavita Sunil Jerath	SOP
168	Rashmi Ramesh Kamath	Why Are There So Many Programming Language?	Santhosh Kumar Vasudevan	SOP
169	Ramya Ramesh Kamath	Ddos Attack, Their Danger On Global Scale And Their Prevention	Santhosh Kumar Vasudevan	SOP
170	Ayshwarya Mahesh Kumar	Analyze Urban Heat Using Kriging	Geetha	SOP
171	Kevina Mariam Abraham	Explore Future Climate Projections	Geetha	SOP
172	Chris Walter Quadros	Bio-Hydrogen Synthesis- Current Challenges And Scale Up	Gokhale Trupti Swarup	SOP
173	Rigveda Sachin Janai	Recent Advances In Liposomal Delivery Of Bio-Active Substances	R N Saha	SOP
174	Pavitira Sanker	Aerospace Materials	Vincent Shantha Kumar	SOP
175	Adwait Swanand Kasar	Magnesium Alloys For Aerospace And Bio Implant Applications	Vincent Shantha Kumar	SOP
176	Devansh Shah	Study On Solving And Numerical Simulation Of Partial Differential Equations And Ordinary Differential Equations	Shilpee Srivastava Saxena	SOP
177	Saksham Gupta	Tackling Optimisation Related Problems Using Matlab Software	Priyank Upadhyaya	SOP
178	Syeda Hebah	Analysis Of Daylight Through Windows In Academic Block Of Bits Pilani Dubai Campus	Meghana Charde	SOP
179	Mymuna Ashna	Keratin Hydrogel For Tissue Engineering	Pallab Sanpui	SOP
180	Keven Kalpesh Shah	Town Planning Of Metro Project	Sridhar Gangaputhiran	SOP
181	Ghag Chirag Parag	Exploring The Health Benefits Of Salicornia	Mainak Dutta	SOP
182	Shelar Maithily Rakesh	Corporate Social Responsibility And Sustainable Local Development: A Case Study Of Ongc.India	Mrutyanjaya Sahu	SOP
183	Swetha Sunil	The Role Of Women Entrepreneurs In Establishing Sustainable Economic Development In Uae	Mrutyanjaya Sahu	SOP
184	Amatul Fathima	The Use Of Big Data For Public Health Sector	Mrutyanjaya Sahu	SOP
185	Rishabh Bhati	The Impact Of Corporate Social Responsibility On Business Performance: A Study Of Uae Banks	Mrutyanjaya Sahu	SOP
186	Mohammed Zaid	Machine Learning In Econometrics - A Model To Predict House Prices	Sartaj Rasool Rather	SOP

S.No	Name	Topic	Instructor	Type
187	Meera Sudhir Manickath	Impact Of Foreign Direct Investment On Economic Growth In United Arab Emirates	Sartaj Rasool Rather	SOP
188	Vasudharini Venkataraman	Relationship Between Grades And Attendance - An Empirical Analysis	Sartaj Rasool Rather	SOP
189	Tanmay Shukla	An Analysis Of The Relationship Between Attendance And Grades	Sartaj Rasool Rather	SOP
190	Rohan Bhatta Amit	Predicting House Prices Using Machine Learning Techniques	Sartaj Rasool Rather	SOP
191	Hardik Bhatia	Using Nature Inspired lwd Algorithm To Solve Blockchain Problems	Gaurav Saxena	SOP
192	Adresya Suresh Azhakath	Visualizing Cloning Through The Eyes Of A Computer Scientist	Namita Khanna	SOP
193	Afrah Noushad	Investigation Of Structural Response Of Seawall Under Seismic And Tsunami Loads	Vivek B	SOP
194	Sumera Sulaiman S	Investigation Of Foundation Response Of Seawall Under Seismic And Tsunami Loads	Vivek B	SOP
195	Parvathi Suresh Nair	Delay Caused By Pedestrians In Traffic.	Deepthi	SOP
196	Anupama Kenson	Delay Caused By Pedestrians In Traffic	Deepthi	SOP
197	Mahima Nukala	Infrastructure Leasing & Financial Services; What Went Wrong And Lessons Learnt	Nitin Simha Vihari Poluru	SOP
198	Deoda Dhanesh Sunil	Descriptive Analysis Of Campus Sustainability Initiatives In U.A.E.	Nitin Simha Vihari Poluru	SOP
199	Mohammad Shayan Asjad Khan	Downfall Of India's Premium Airline: Jet Airways	Nitin Simha Vihari Poluru	SOP
200	Anooshka Pudugramam Murali	Economic Value Of Transportation And Its Precedence To The Firm And Market	Parizad Dungore	SOP
201	Rishika Bansal	Factors Affecting Investment And Growth In The Indian Economy	Parizad Dungore	SOP
202	Alhasan A H Farajallah	Tolerance As A Value In Relation To Happiness And Life Satisfaction	Mahima Raina	SOP
203	Priyanka Das Gupta	Gender Role Ideology In Relation To Personality Traits And Career Success.	Mahima Raina	SOP
204	Nikita Ahuja	Deep Learning Applying To Information Security	Vadivel .S	SP
205	Sulaf Majdeddin Alnaser	Study On Sequencing Of The Human Genome	Dawood Jalaluddin Shariff .D	SP
206	Sadhya Gulati	High Throughput Relaxation Using MI	Eldhose lype	SP
207	Mohammed Zaid	Application Of Mbtr To Varying Types Of Datasets And Proposal Of A Modified Coulomb Matrix	Eldhose lype	SP
208	Johann Sergio Fernandes	3-D Printing And Thermal Testing Of Rocket Parts	Shashank Khurana	SP

Annexure B4-10
(3 pages)**Special Lectures by Invited Scholars – 2019**

S.No	Name	Topic	Date
1	Prof. Abhijit Mukherjee, Curtin University, Australia	Sustainable Infrastructure through Improved Maintenance and Low Carbon Materials	15th April 2019
2	Hemant Gor, Senior Engineer (Civil and Structures), Petrofac	Long Span Concrete Structures	April 7, 2019
3	Mr Abhijit Doshi, Technical Manager, ESRI	Making a Story Map using ArcGIS	November 20, 2019
4	Priyadarshini Datta, ESRI	Developing an App using ArcGIS	November 20, 2019
5	Dr Subhamoy Pal, Scientific PM, SIAC, USA	Journey from BITS to the United States Military Health System	28th August, 2019
6	Mrs. Alamelu Murali, Atria Biosciences, India	Clinical Research & Pharmacovigilance	6th October, 2019
7	Prof. Arup Mukherjee, Emeritus Professor, Adamas University	Nanoparticles and Nanoscience	7th October, 2019
8	Prof Suresh Arya, Professor, National Cancer Institute (NCI), National Institutes of Health United States (NIHUS) Bethesda, USA	Synthetic Biotechnology	3-4 November, 2019
9	Ms. Gayathri Ganesh, Harvard Medical School, USA	Path through Immunology	4th March, 2019
10	Hamza Khaliq Khan, University of Bonn, Germany	Student Interaction	22nd April, 2019
11	Jagadeesh Babu Rangishetty and Manik, BITS Pilani Alumni of batch MPharm'96 and BPharm'97	Advancements in the Biopharmaceutical field	31st August, 2019
12	Dr Raj Singh superannuated Director (Acting), CSIR-CEERI, Pilani	Advances in VLSI design	August 27, 2019
13	Dr Saroj Rout, BITS Alumni	Interaction with Faculty and Phd Scholars	September 29, 2019
14	Dr Subhash Chandra Bose, Ex-Senior Scientist, CSIR-CEERI, Pilani, and Advisor (Academics) at IIT Jodhpur	Man, Machine and Market	October 31, 2019
15	Dr. Paolo Corvo, University of Gastronomic Sciences, Pollenzo, Italy	Happiness and Society	March 21, 2019
16	Colonel (Veteran) Ajay Arora, Senior Project Manager, Infosys Ltd.	Decision Making	April 15, 2019
17	Mr. Ben Samuel and Ms. Neha Samuel CEO/COO of Fit on Click	From Idea to Entrepreneurship	September 09, 2019
18	Mr. Prakash Rao, Supply Chain Projects and Process Excellence Head- Landmark Group, UAE	The Retail Juggernaut: From Bricks to Clicks	October 13, 2019.
19	Mr. Anshul Singhal, CEO Sentient Lab, FZ-LLC	Startup to Scale Up: Experiential Insights	October 20, 2019.
20	Mr. Dhiren Harchandani, a Harvard Business School alumnus and CEO of Zenboxed	Reflections on the Idea of Startups in the age of Blockchain	October 21, 2019

S.No	Name	Topic	Date
21	Prof. S Irudaya Rajan, Professor, Center for Development Studies, Kerala	Contribution of Indian Gulf Diaspora to Sustainable Development	October 24, 2019
22	Mr. Ammar Malhi, Client Relations Head of SMART CROWD and Mr. Hassan Sheikh, Business Development and Communications Head of SMART CROWD	Disruptions in FinTech Innovations	November 18, 2019
23	Ms. Avneet Kohli, an award-winning presenter, inspirational speaker, impact & communication coach	How to make an impact in less than seven seconds	November 21, 2019
24	Prof. Arockiarajan, IIT Madras, India.	Smart Composite	June 13 2019
25	Dr. Kamran Ahmed, Surgical and Gastrointestinal Oncologist Director and Partner Oncology Care Associates Saifee Hospital, Fortis Hospital, Mumbai, India	Robotics in Surgery - The Future	October 24 2019
26	Prof. MS Dasgupta, HOD, Mechanical Engineering, Pilani campus, India.	CO2 transcritical refrigeration system for very high temperature ambient	November 18 2019
27	Dr. N. Gowrishankar, Director, Materials Research Group, India Piston Ltd.	Surface Engineering of Automotive Components-Piston Rings	April 2 2019
28	Mr. Mourad Alexandre, Middle East Sales & Marketing Manager, Fanda Scientific, UAE	Analytical Methods of Chemistry” followed by a hands on experiments using the instrument Duetta (Horiba Scientific) to perform fluorescence and absorbance measurements	March 17 2019
29	Mr. Alok Srivastava, Technical Director, Enceladus, UAE	Recent Trends in Wastewater Treatment Plants	September 12 2019
30	Ms. Twinkal Manish, Al Ghwasa Technical Equipment, UAE	Pollution Measurement Instrumentation	October 16 2019
31	Dr Raj Singh, superannuated Director (Acting), CSIR-CEERI, Pilani	Recent advances in VLSI design	August 27, 2019
32	Dr Saroj Rout, BITS Alumni	growing technology in VLSI design and applications	September 29, 2019
33	Dr Subhash Chandra Bose, Ex-Senior Scientist, CSIR-CEERI, Pilani, and Advisor (Academics) at IIT Jodhpur	Man, Machine and Market	October 31, 2019
34	Dr Subhamoy Pal, Scientific PM, SIAC	Journey from BITS to the United States Military Health System	August 28th, 2019
35	Mrs. Alamelu Murali, representative of Atria Biosciences	Nanoparticles and Nanoscience	October 7 2019
36	Prof Suresh Arya, Professor, National Cancer Institute (NCI), National Institutes of Health United States (NIHUS) Bethesda, United States	Synthetic Biotechnology	3rd – 4th of November 2019
37	Ms. Gayathri Ganesh, Harvard Medical School	Path through Immunology	4th March 2019
38	Hamza Khaliq Khan, University of Bonn, Germany	BITS2MS	22nd April 2019
39	Faisal Zaman, University of Linkoping, Sweden	carrier opportunities for the biotech students in the Medical research in Northern European Universities	28th March 2019

S.No	Name	Topic	Date
40	Jagadeesh Babu Rangishetty and Manik, BITS Pilani Alumni of batch MPharm'96 and BPharm'97	advancements in the Biopharmaceutical field	31st August 2019.
41	Alumni, Ashvriya, Sharanya Jayashankar, Farah Khatoon, Shweta Biswal, and Sayed Razaa Ali	Advances and Career opportunities in Medical Biotechnology	7th November 2019
42	Sallyann Della Casa Foundation and Tech Company	How to land your dream job	31st January 2019
43	Prof S .R. Subramanya, National University San Diego , California	Complex Algorithms in Real Life Applications	6-2-19
44	Mr Raghav Reggie Jerath , Founder and CEO of Gath3r	Webmining and cryptocurrency	2/4/2019
45	Colonel Ajay Arora	Communication and Risk Management in Corporate Environment	15/4/19
46	Ms.Jenni Jones, AWS Academy Program Manager, AWS Training & Certification from London, United Kingdom	AWS Academy	April 16th 2019
47	IBM AI and High Performance Computing	IBM AI and High Performance Computing	1st May 2019
48	Prof.Sanjay Kumar Singh from IIT(BHU)	Application of Machine Learning in Data Science	15th September 2019
49	Mr Anirban Lahiri, Director of Technology, Arndit Ltd.Cambridge	developing advanced technology in the Computing Industry spanning over 3 continents (US, Europe and Asia) including 7 countries	17th November 2019
50	Dr. Sahid Cholayil, Dr. Sahid Cholayil is a Visionary & Founder of "Mission 3G" (IIT Madras Research Park)	Technological singularity". "Artificial Intelligence, Future Job, Career & Entrepreneurship	19th November 2019
51	Col.Dr. Rakesh Sharma.Col Dr Rakesh Sharma, IEEE n Army Awardee Dual PhD, BITSian,Head - EY PMU, Govt. of Jharkhand,Founder Dean Engg & Research - GEU Doin,Launched INMARSAT in Siachen,India Ranked Powerlifter n Weightlifter,Founder Chairperson CSI HP	BITS Raksha Anusandhan Cell - Synergizing BITS Research for The Future To Make Nations Powerful.	
52	Prof Phalguni Gupta,IIT Kharagpur,Currently, he is the Director of National Institute of Technical Teachers' Training and Research, Kolkata	Challenges in Biometric System Development	28th November 2019
53	Ornov Maulik, Application Specialist, Characterisation Division , Anton Paar Middle East Technical Centre, Dubai.	Advanced Characterization Techniques for Various Engineering Applications	9.4.2019

Annexure B4-11
(6 Pages)

**LIST OF FACULTY MEMBERS WHO ATTENDED VARIOUS CONFERENCES
AND PRESENTED PAPERS – 2019**

Conference Proceedings

S. No.	Author(s)	Title of the Paper	Conference	Proceedings Pages/ Paper ID.	Date & Place
1	Vivek B. and Prishati Raychowdhury	Effects of Soil-Structure Interaction of FRP Confined Reinforced Concrete Structure under Lateral Cyclic Loading	Geo-Congress 2019, 8th International Conference on Case Histories in Geotechnical Engineering	ASCE Geotechnical Sp. Pub. No. 308, pp. 90- 97	24–27 March, 2019, Philadelphia, Pennsylvania, USA
2	Mukesh Tomar and Shashank Khurana	A Numerical Study on the Influence of Different Tunnel Lining Insulation Materials in a Road Tunnel Fire	2nd International Conference on Recent Advances in Materials and Manufacturing Technology	-	20th-22nd November 2019, Dubai, U.A.E
3	Prem Dakshin and Shashank Khurana	Frustum CAM (FC) Mechanism: Achieving Differentiating Feed in Continuous Production Machines of Non-similar Parts	2nd International Conference on Recent Advances in Materials and Manufacturing Technologies	-	20th-22nd November 2019, Dubai, U.A.E
4	Pervaiz S., Kannan S., Ram K., Samad W.A	Numerical modeling of Charpy impact test to determine the fracture characteristics of aluminium alloy 6061	Conference Proceedings of the Society for Experimental Mechanics Series	Conference Proceedings of the Society for Experimental Mechanics Series, Vol. Part F4, no. -, pp.85-88	2019
5	Udayakumar Rajamanickam., Hana Aslam Shaikh	Computational analysis of Anti icing system of an aircraft wing	3rd International conference on Electronics, Communication and Aerospace Technology (ICECA) Vol. , no. , pp.1110-1114	-	2019
6	Mohammed Ibrahim., Udayakumar Rajamanickam	Design analysis of Landing gear system of an aircraft	3rd International conference on Electronics, Communication and Aerospace Technology (ICECA), Vol. , no. , pp.1326-1330	-	2019
8	Vrushali Patil., Indraneel Patil., Kalaichelvi Venkatesan., Ramanujam Karthikeyan	Extraction of Weld Seam in 3D Point Clouds for Real Time Welding Using 5 DOF Robotic Arm	5th International Conference on Control, Automation and Robotics (ICCAR), Vol. , no. , pp.727-733	-	2019
9	Rohit Kumar, Gulshan Kumar, Arshpreet Singh	An Assessment of Residual Stresses and Micro-Structure during Single Point Incremental Forming of Commercially Pure Titanium Used in Biomedical Applications	2 nd International Conference on Recent Advances in Materials and Manufacturing Technologies	-	20 th -22 nd November 2019, Dubai, U.A.E.
10	Mrutujanaya Sahu	Politics of Urban Development and Forced Displacement of Slums in India.	1st International Conference on Crafting Foundations for Sustainable and Inclusive Development (CRFSID-2019)	-	February 22-23, 2019, Manipal Academy of Higher Education (MAHE), Dubai Campus

S. No.	Author(s)	Title of the Paper	Conference	Proceedings Pages/ Paper ID.	Date & Place
11	Mrutujanaya Sahu	Contesting Development Induced Displacement and New Social Movements in India.	International Conference on Democratizing Displacement	-	March 18-19, 2019, Refugee Studies Centre, University of Oxford, London
12	Mrutujanaya Sahu and Rajeni Nagarajan	Impact of organizational behaviour on organizational performance and sustainability	International Conference on Technology, Innovation and Sustainability in Business Management (ICTIS 2019)	-	May 02, 2019, Middlesex University, Dubai
13	Sheetal Desai, Srinivasa Rao, and Shazi Shah Jabeen	Perceptions of Diversity and Its Impact on Team Innovation and Performance: The Moderating Effects of Team Cultural Intelligence	International Conference on Technology, Innovation and Sustainability in Business Management	-	May 02, 2019, Middlesex University, Dubai
14	Prakash Rao, Srinivasa Rao, and Shazi Shah Jabeen	Towards a Customer Oriented Conceptual Model for E-commerce Sustainability	International Conference on Technology, Innovation and Sustainability in Business Management	-	May 02, 2019, Middlesex University, Dubai
15	Aastha Bhardwaj and Shazi Shah Jabeen	Corporate Social Responsibility Practices in Small and Medium Enterprises	9 th Global Conference on Business and Social Sciences 2019 organized by the Global Academy of Teaching and Research	CIMSSR-00330	July 19-20, 2019, Male, Maldives
16	Devika Sharma	The bad pasts of good norms: Identifying postcolonial silences and agency in the opium ban.	International Studies Association (ISA) Conference 'Exploring the Agency of the Global South in International Studies (Practices)'	-	August 1-4, 2019, LECIAD, Accra, Ghana
17	J Alamelu Mangai, Bharat B Gulyani, Rashda Khanam	A Rotation Forest Algorithm for Predicting BOD in River Water	National Conference on Cognitive Computing- NCCC'19	-	26, 27-April 2019
18	Bharat B. Gulyani, Arshia Fathima	Series of Optimized Predictive Models for Forecast of Global Wastewater Treatment Plant Performance	19th Industrial Conference, ICDM 2019 New York	-	USA, July 17 – July 21, 2019
19	Sushil Kumar Singh, Saurabh Kumar, Abhishek Kumar, Anuj Jain, B.B. Gulyani	Investigation of mechanical properties of graphene nanoplatelet dispersed epoxy composites	2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT)	-	20th - 22nd November 2019, Dubai, UAE
20	Sadhya Gulati Zainab Tabassum Udo Schwingenschlogl Eldhose lype	Molecular dynamics simulation of dehydration of salt hydrates (MgSO ₄ .7H ₂ O and ZnSO ₄ .7H ₂ O)	2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT)	-	20th - 22nd November 2019, Dubai
21	Zaid M. Hassan	Using Machine Learning to Estimate molecular properties	2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT)	-	20th - 22nd November 2019, Dubai
22	Allan Barbosa, Priyank Upadhyay and Eldhose lype	Neural network for mechanical property estimation of multilayered laminate composite	2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT)	-	20th - 22nd November 2019, Dubai

S. No.	Author(s)	Title of the Paper	Conference	Proceedings Pages/ Paper ID.	Date & Place
23	Prakash Kumar B G, Rusal Raj Francis, Aisha Raouf, Ramachandran Subramanian, Suresh Gupta, Geetha Kannan, Thirumavalavan K	Torrefied Materials Derived from Waste Vegetable Biomass	2nd International Conference on Recent Advances in Materials & Manufacturing (IMMT)	-	20th - 22nd November 2019, Dubai
24	Nadeem Khalid Mohammad, Vishal Naranje, Vilas H Gaidhane	Prediction of Best Weld Quality Using Artificial Neural Network	IEEE International Conference on Artificial Intelligence (AICAI)-2019	-	2019
25	Thomas T.G.	Information transmission analysis of the effects of synthetic stop consonant duration modification on speech perception	3rd International Conference on Communications, Signal Processing, and their Applications, ICCSPA 2019	-	2019
26	Krishna G., Mary Lourde R., Jerome K	Nanobots for biomedical applications	ACM International Conference Proceeding Series	-	2019
27	Vrushali Patil., Indraneel Patil., Kalaichelvi Venkatesan., Ramanujam Karthikeyan	Extraction of Weld Seam in 3D Point Clouds for Real Time Welding Using 5 DOF Robotic Arm	5th International Conference on Control, Automation and Robotics (ICCAR)	-	2019
28	Chaudhari S.P., Shaik J.B., Singhal S., Goel N.	Correlation of dynamic and static metrics of SRAM cell under time-zero variability and after NBTI degradation	Proceedings - 2018 IEEE 4th International Symposium on Smart Electronic Systems, iSES 2018	Proceedings - 2018 IEEE 4th International Symposium on Smart Electronic Systems, iSES 2018	2019
29	Dev Gupta., Navneet Gupta	Investigations on Infrared(IR) Sensitive Material for Microbolometer Using Material Selection Approaches	2018 IEEE Electron Devices Kolkata Conference (EDKCON)	-	2019
30	Neeru Sood attended a session	Breaking down barriers in Mental Health	Dubai Science Park organized by Advance Health ,UAE, an advance health networking initiative	-	26 September 2019 Dubai
31	Dali Vilma Francis, Neeru Sood and Trupti Gokhale. Nano-therapeutics	: A Review on Nano-Metals in Therapeutics	International Conference on Biotechnological innovations in food and Health care (BIFHC 2019)	-	Dubai, UAE, 27-28 January 2019
32	Fatemah Bensaheb, Dali Vilma Francis, Debashish Chitnis, Namisha Bohara, Neeru Sood and Trupti Gokhale	Antifungal Properties of Biosynthesized Metal Nanoparticles	International Conference on Biotechnological innovations in food and Health care (BIFHC 2019)	-	Dubai, UAE, 27-28 January 2019
33	S Rajeswari, Trupti Gokhale and Neeru Sood	Assessment of Salinity Stress Tolerance in Barley Hordeum vulgare L for Cultivation in Arid and Semiarid Regions	International Conference on Biotechnological innovations in food and Health care (BIFHC 2019)	-	Dubai, UAE, 27-28 January 2019

S. No.	Author(s)	Title of the Paper	Conference	Proceedings Pages/ Paper ID.	Date & Place
34	Akshayaa Sridhar, Rajeswari Somasundaram, Trupti Gokhale, Namita Khanna & Neeru Sood	Isolation and Characterization of Microbes Associated with Root Nodules of Acacia and their Application as Biofertilizer in Saline Soils of UAE	International Conference on Biotechnological innovations in food and Health care (BIFHC 2019)	-	Dubai, UAE, 27-28 January 2019
35	Debashish S. Chitnis, Namisha R. Bohara, Trupti Gokhale	Synthesis, Characterization, and Applications of Biologically Synthesized Metal Nanoparticles	International Conference on Biotechnological innovations in food and Health care (BIFHC 2019)	-	Dubai, UAE, 27-28 January 2019
36	Neeharika Senthilkumar & Neeru Sood	Innovations, Intentions and Integrity: The CRISPR Episode.	International Conference on Biotechnological innovations in food and Health care (BIFHC 2019)	-	Dubai, UAE, 27-28 January 2019.
37	Ramachandran Subramanian, Neeru Sood, Dionyssia Angeliki Lyra, Trupti Gokhale, Khalil Ammar, Prakash Kumar B G	Pennisetum purpureum (Napier grass) varieties for Animal Fodder Production	Gulf Forum on Innovations in Marginal Environments	-	Nov. 20-21, 2019, Al Habtoor Polo Resort, Dubai, UAE
38	Shivani B K D, Ramachandran S, Prakash Kumar B G, Dionyssia Angeliki Lyra	Production of Lyocell Fibers from Non-Wood Sources	Current Trends in Biotechnology-CTBT 2018	-	April 10-11, 2019, Manipal Academy of Higher Education, Dubai Campus.
39	Chirag Ghag, Dionysia Angeliki Lyra, Ramachandran S, Mainak Dutta.	Fatty acid analysis of Salicornia bigelovi germplasm exposed to different degrees of salinity stress	7th Undergraduate Research Competition, Abu Dhabi University	-	Abu Dhabi, UAE, 29th April 2019
40	Shaunak V Potdar, Philip Smith, Andrew Patterson, Mainak Dutta	Metabolomics Analysis of Urine From Mice Induced With Peritoneal Inflammation.	Biotechnological Innovations in Food and Health Care 2019	-	Birla Institute of Technology & Science, Pilani, Dubai Campus, 27-28 January 2019
41	Samantha Ferrao, Jemima Francis, Mainak Dutta	Health benefits of Salicornia spp.	Biotechnological Innovations in Food and Health Care 2019	-	Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019
42	Chirag Ghag, Dionysia Angeliki Lyra, Ramachandran S, Mainak Dutta	Fatty acid analysis of Salicornia bigelovii exposed to different degrees of salinity stress	Biotechnological Innovations in Food and Health Care 2019	-	Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019
43	Rubitha Souresh, Rajeshwari S, D J Shariff, Namita Khanna	Biofactories for Isobutanol Production using Kitchen and Agricultural Waste	Biotechnological Innovations in Food and Health Care 2019	-	Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019
44	Safiya Aafreen, Vasudharini Venkataraman, Namita Khanna	Embiopteran Silk Patch – a novel drug delivery route	Biotechnological Innovations in Food and Health Care 2019	-	Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019

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45	Akshayaa Sridhar, Rajeswari Somasundaram, Trupti Gokhale, Namita Khanna & Neeru Sood	Isolation and Characterization of Microbes Associated with Root Nodules of Acacia and their Application as Biofertilizer in Saline Soils of UAE	Biotechnological Innovations in Food and Health Care 2019	-	Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019
46	Gitanjali Nair, Andrea Varghese ¹ , D.J. Shariff	A study on the degree of awareness regarding diabetes in Indian expats residing in UAE.	Biotechnological Innovations in Food and Health Care 2019	-	Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019
47	Syed Razaa Ali, Zainab Fatima Juddy, D.J. Shariff	Estimation of Mineral Content Present in Detox Water from a Variety of Fruits and Vegetables and its Correlation with Human Health	Biotechnological Innovations in Food and Health Care 2019	-	Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019
48	Akanksha Pulin Parikh, Rubitha Souresh, Sharon Elsa Oommen, D.J.Shariff. Ramachandran S	Applications of Salicornia in food and pharmaceutical biotechnology	Biotechnological Innovations in Food and Health Care 2019	-	Birla Institute of Technology & Science, Pilani, Dubai Campus, UAE, 27-28 January 2019
49	Sasikuamr K Vijaykumar B	An efficient replica management based disaster recover using Elephant Herding Optimization Algorithm	2nd International Conference on Computer Networks and Inventive Communication Technologies [ICCNCT 2019]	-	May 23-24, 2019, Coimbatore India.
50	Parth Poply, Sujala D. Shetty	Urbanised Real-time Parking Detection System using Deep Learning	ACM 3rd International Conference on Computer Science and Artificial Intelligence	-	December 6-8, 2019 in Beijing, China
51	Saugaat Allabadi, Sujala D. Shetty	Leveraging Blockchain for Identity Management and Recruitment Sector	International conference on Technology, Innovation and Sustainability in Business Management (ICTIS 2019)	-	Middlesex University Dubai on 2 May 2019.
52	S. Jeyalatha, B. Vijayakumar	Web Usage Mining Algorithm for an Academic Search Application	International Conference on Computational Intelligence and Knowledge Economy, ICCIKE 2019	-	11-12 Dec. 2019, AMITY University, Dubai, UAE
53	Bidhan Jain and Vijaya Ilango	Energy Savings and Cost Estimation of Net Zero Homes	International Conference on Crafting Foundations for Sustainable and Inclusive Development (CRFSID-2019)	-	Feb 22 -23, 2019 in Manipal University, Dubai Campus.
54	Rusal Raj Francis, Aisha Raouf ¹ , Ramachandran Subramanian, Suresh Gupta, Geetha Kannan, Thirumavalavan K, Prakash Kumar B G	Torrefied Materials Derived from Waste Vegetable Biomass	2nd International Conference on Recent Advances in Materials & Manufacturing Technologies (IMMT 2019)	-	2019, Dubai, UAE

LIST OF RESEARCH PUBLICATIONS – 2019

Journal Publications

S.No.	Author(s)*	Title of the Publication	Journal	Vol.	Pages
1	Khalil Ur Rahman, Mohamed Khalifa Bin Thaleth, George Mathew Kutty, Ramachandran Subramanian	Pilot scale cultivation and production of Vanilla planifolia in the United Arab Emirates	Bulgarian Journal of Agricultural Science	25 (6)	1143–1150
2	Rajeswari S., Sood, N., Swarup, G. T., Ramachandran S	Assessing salt-stress tolerance in barley	Universitas Scientiarum	24	91-109
3	Khalil Ur Rahman, Shoaib Ismail and Ramachandran Subramanian	Sustainable nutrient management under marginal environmental conditions for biomass production	Eco. Env. & Cons.	25	S163-S169
4	S. Rajeswari, A. Somasundaram, Nishrin Abdul Gafoor, Trupti Gokhale Swarup, Neeru Sood and S.Arumugam	A computational approach to identify the role of potassium transporter in barley	AKCE, International Journal of Graphs and Combinatorics	-	318-325
5	Bidkar, A. P., Sanpui, P., Ghosh, S. S.	Combination Therapy with MAPK-Pathway-Specific Inhibitor and Folic-Acid-Receptor-Targeted Selenium Nanoparticles Induces Synergistic Antiproliferative Response in BRAF Mutant Cancer Cells.	ACS Biomaterials Science & Engineering	5 (5)	2222-2234
6	Karak, Swagata, Das, S, Biswas, M, Choudhury, A, Dutta, M, Chaudhury, K, De, B	Phytochemical composition, β -glucuronidase inhibition, and antioxidant properties of two fractions of Piper beetle leaf aqueous extract.	Journal of Food Biochemistry	43	e13048
7	Dutta, M, Cai, J, Gui, W, Patterson, A.:	A review of analytical platforms for accurate bile acid measurement.	Analytical and Bioanalytical Chemistry	411	4541-4549
8	Bizzari S., Raihan S., Dawood Jalaluddin Shariff	Multifacet Biofuel Production by Microalgal isolates from Pakistan	Biofuels, Bioproducts & Biorefining	-	1-15
9	Sidra Raihan, Dawood Shariff, Sami Bizzari	Comments on the latest meta-analysis of CAPN10 polymorphism associations with polycystic ovary syndrome.	Gene	717	144006
10	Vivek, B, Prishati Raychowdhury	Design and calibration of a laminar soil box suitable for a low-capacity shake table using free-field tests on Ganga sand bed	Soils and Foundations	-	https://doi.org/10.1016/j.sandf.2019.03.010
11	Saif Eddin Jabari, Nikolaos M. Freris, and Deepthi Mary Dilip	Sparse travel time estimation from streaming data	Transportation Science	To Appear	-
12	Saif Eddin Jabari, Deepthi Mary Dilip,, Dianchao Lin, & Bilal T. Thodi	Learning Traffic Flow Dynamics Using Random Fields.	IEEE Access	7	130566-130577

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13	G. Sridhar., M. Raheena., R. G. Robinson	Simplified Apparatus for CRS Consolidation Testing of Soils	GEOTECHNICAL TESTING JOURNAL	42	817-828
14	Charde M, Gupta R, Vemuri A, Kheterpal A, Bhati S	Passive Solar Design for Energy Efficiency in Buildings in Composite Climate	Journal of Physics: Conference Series, IOP Publishing	1276	012080
15	Sundar K., Udayakumar R.	Potential of cotton seed oil and rice bran oil as a renewable energy source in India	International Journal of Mechanical Engineering and Technology,	Vol. 10, no. 2,	pp.198-212
16	Miller Jothi., Redae Haimanot., Udaya Kumar	Investigation on Pressure Drop of Fluid-Solid Mixture Flow through Pipes Using CFD and SK Model	Journal of Applied Mathematics and Physics	Vol. 7, no. 1	pp.218-232
17	Ramanujam Karthikeyan., Vishweshwar S., Kesar M K., Nikitha R., Udayakumar Rajamanickam	Embedding IoT Systems for a Fluid Powered Cable Pulling Winch	International Journal of Control and Automation	-	pp.1-12
18	Shahid irfan., Udayakumar Rajamanickam	VULNERABILITIES OF CAN BUS & AUTOMOBILE SECURITY	International Journal of Control and Automation	Vol. 12, no. 5	pp.13-24
19	Adithya Nair., Yogesh Prabhu., Jasmitha Mendonca., W.H. Ryu., E.S. Park., Jatin Bhatt., Vincent Shantha Kumar	An experimental case study on corrosion characterization of Cu ₄₆ Zr ₄₀ Ti _{8.5} Al _{5.5} metallic glass	Journal of Non-Crystalline Solids	Vol. 524	pp.119654
20	Cherish Mani., Ramanujam Karthikeyan., Sathish Kannan	Electrochemical Impedance Analysis on Cryogenically Treated Dissimilar Metal Welding of 316L Stainless Steel and Monel 400 Alloy Using GTAW	Metals	Vol. 9, no. 10	-
21	Rohan Kapdi., Naveen Kumar Shrivastava	Design and Performance Analysis of Cross flow & Force Draft Cooling Towers	International Journal of Engineering Research and Technology	Vol. 8, no. 7	pp.396-403
22	Pande R., Kalamkar V., Tiwari A., Sharma S., Shrivastava N.	A mathematical modeling of two-pot biomass cookstove	Journal of Physics: Conference Series	Vol. 1276, no. 1	-
23	Sai Vijay Venkatesh., Udayakumar Rajamanickam	Performance and emissions of SI engine with additives	Journal of Physics: Conference Series	Vol. 1276, no. 1	-
24	Mukesh Singh Tomar., Shashank Khurana	Investigation of road tunnel fires: challenges and findings	Journal of Physics: Conference Series	Vol. 1276, no. 1	-
25	Shashank Khurana., Samreen Khan	Experimental Investigation on Shape Dependence for Flow past Shallow Cavities	Journal of Physics: Conference Series	Vol. 1276, no. 1	-
26	Udayakumar Rajamanickam., Periasamy Chinnapalaniandi., M C Subin., Ram Karthikeyan	Design and testing of autonomous irrigation controllers in commercial green houses to control the water consumption	Journal of Physics: Conference Series	Vol. 1276, no. 1	-
27	Mukesh Singh Tomar and Shashank Khurana	Numerical simulation of road tunnel fires involving heavy goods vehicle with solid fuels	Journal of Physics: Conference Series	Vol. 1276, no. 1	-
28	K Sundar, Udayakumar Rajamanickam, Periasamy Chinnapalaniandi, and Shashank Khurana	Cotton Seed Oil and Rice Bran Oil as a Source of Biodiesel in India	Journal of Physics: Conference Series	Vol. 1276, no. 1	-

S.No.	Author(s)*	Title of the Publication	Journal	Vol.	Pages
29	Udayakumar Rajamanickam., Pankaj Solanki	Efficiency of Vortex Tubes in spot cooling",	Journal of Physics: Conference Series	Vol. 1276, no. 1	-
30	Vishweshwar Samba., Ram Karthikeyan., Kesar Mal Kothari., Udayakumar Rajamanickam	Modelling and evolution of designing the hydraulic circuit for a cable pulling winch machine	Journal of Physics: Conference Series	Vol. 1276, no. 1	-
31	Udayakumar Rajamanickam., K Sundar	Performance and emissions characteristics of a variable compression ratio engine operated on dual fuel mode using diesel and biodiesel with additives	Journal of Physics: Conference Series	Vol. 1276, no. 1	-
32	Naveen K. Shrivastava, Abheek Chatterjee, Tequila A. L. Harris	Effect of Cell Compression on the Performance of a Non-hot Pressed MEA for PEMFC	International Journal of Energy Research	Accepted, In-press	-
33	Mukesh Tomar and Shashank Khurana	Impact of Passive Fire Protection on Heat Release Rates in Road Tunnel Fire: A Review	Tunnelling and Underground Space Technology Journal	Vol. 85	Page 149-159
34	Arijit Lodh, Prita Pant, Gulshan Kumar, K. V. Mani Krishna, Raghvendra Tewari, Indradev Samajdar	Orientation-dependent solid solution strengthening in zirconium: a nanoindentation study	Journal of Materials Science	-	-
35	E. Iype, and S. Urolagin	Machine learning model for non-equilibrium structures and energies of simple molecules	The Journal of Chemical Physics	150 (2)	024307
36	B Vijayakumar, M Arulmozhi, BG Prakash Kumar, and G Ashwin	Production of activated carbon from mango seed coat using chemical activation	Journal of Environmental Biology	40 (3)	283-290
37	Bharat B Gulyani and Nishant Pandya	On the Similarity of Area Targets and Shells Targets in Heat Exchanger Networks	Journal of Physics: Conference Series	176 (1)	012060
38	Taqdees Wadekar, K Kumar and B B Gulyani	Experimental Investigation and Simulation of Convective Heat Transfer in a Solar Still	Journal of Physics: Conference Series	1276 (1)	012043
39	Panduga Ramaraju, Amol Prakash Pawar, Eldhose Iype, Nisar A. Mir, Sachin Choudhary, Devinder Kumar Sharma, Rajni Kant, and Indresh Kumar	Enantio- and Diastereoselective Two-Pot Synthesis of Isoquinuclidines from Glutaraldehyde and N-Aryl Imines with DFT Calculations	The Journal of Organic Chemistry	84 (19)	12408-12419
40	Vilas H Gaidhane, Nand Kumar., Ravi Kant Mittal., V Rajevelceltha	An efficient approach for cement strength prediction	International Journal of Computers and Applications	-	pp.1-11
41	Vilas H Gaidhane A. Mir and V. Goyal	Energy harvesting from far field RF signals	International Journal of RF and Microwave Computer-Aided Engineering	Vol. 29-, no. 5	pp. e.21612
42	Praveen Kumar Reddy Yelampalli., Jagadish Nayak., Vilas H Gaidhane	A novel binary feature descriptor to discriminate normal and abnormal chest CT images using dissimilarity measures	Pattern Analysis and Applications	Vol. 22 -, no. 4	pp. 1517–1526
43	Nand Kumar, Vilas H Gaidhane, Ravi Kant Mittal	Cloud-based electricity consumption analysis using neural network	International Journal of Computer Applications in Technology	Vol. 26, No. 1	pp. 45-56

S.No.	Author(s)*	Title of the Publication	Journal	Vol.	Pages
44	Abdul Rajak, Vilas H Gaidhane, Aaron D'costa	Design and Implementation of a Network Security Chip with Improved Compression Approach	-	vol. 12, no. 6	pp. 1-10
45	Avani Kirit Mehta., Swarnalatha Rajaguru	Design of PID Controller using Internal Model Control Based Lambda Tuning for an Industrial Blending Process	Journal Of Engineering And Applied Science	Vol. 14, no. 5	pp.1486-1492
46	Swarnalatha Rajaguru., Vishal Naranje	Design of Tracking System for Prefabricated Building Components using RFID Technology and CAD Model	Procedia Manufacturing	Vol. 32	pp.928-935
47	Neelesh Kumar., Abhishek Mahajan., Swarnalatha Rajaguru., Kashif Sherwani	LabVIEW Based Monitoring and Rehabilitation Module for Freezing of Gait in Parkinson Disease	Journal of Medical Engineering and Technology	-	pp.1-8
48	Adhir Baran Chattopadhyay., Shazia Hasan., Sunil Thomas	Parameter based non linearity in a state variable model of a practical system: A case study	Journal Of Mechanics Of Continua And Mathematical Sciences	Vol. 14, no. 3	pp.135-149
49	Indraneel Patil, B K Rout, V Kalaichelvi,	Prediction of Bottleneck Points for Manipulation Planning in Cluttered Environment using a 3D Convolutional Neural Network	ARXIV.ORG	-	pp.1-7
50	Thirunavukkarasu A., Amrouch H., Joe J., Goel N., Parihar N., Mishra S., Dabhi C.K., Chauhan Y.S., Henkel J., Mahapatra S	Device to Circuit Framework for Activity-Dependent NBTI Aging in Digital Circuits	IEEE Transactions on Electron Devices	Vol. 66, no. 1	pp.316-323
51	Raja Muthalagu., Subeen Jain	A novel modified KASUMI block cipher for global system for mobile communications	International Journal of Computers and Applications	-	pp.1-8.
52	Utsav., Gomathi Bhavani Rajagopalan	2-D Terrain Chart Mapping for a Navigation Robot using Tactile Sensor for System Modelling	Journal of Engineering and Applied Science	Vol. 14, no. 19	pp.7187-7192
53	Swarnalatha Rajaguru., Amrin Jameel Shanaz., Neelesh Kumar	Design of an Insole using Force Sensing Resistors for Gait Analysis and Validation using Zebris FDM System	Journal of Engineering and Applied Sciences	Vol. 15, no. 2	pp.430-436
54	VimalRaj S., Suresh Kumar G., Thomas S., Kannan N	MATLAB/SIMULINK based simulations on state of charge on battery for electrical vehicles	Journal of Green Engineering	Vol. 9, no. 2	pp.255-269.
55	Sunil Thomas., Nithiyananthan Kannan., Aliakbar Eski	Investigations on Transient Behavior of an Energy Conservation Chopper Fed DC Series Motor Subjected to a Change in Duty Cycle	Journal of Green Engineering	Vol. 9, no. 1	pp.92-111
56	Kalaichelvi Venkatesan., Abhishek Mungekar., Karthikeyan Ramanujam., Jason Savio Lourence	Intelligent Control Approach for Fluid Power Transmission of a Wind Turbine System	Journal of Physics: Conference Series	Vol. 1276, no. 1	pp.012001
57	Adhir Baran Chattopadhyay., Julia Tholath Jose	Modeling of the magnetizing phenomena of doubly fed induction generator using neuro-fuzzy algorithm considering non-linearity	International Journal of Electrical and Computer Engineering	Vol. 9, no. 1	pp.23-33
58	Belinda Sharon Bright.,	Performance Evaluation of	International Journal	Vol. 9, no. 4	pp.3002-3014

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	Swarnalatha Rajaguru	Two Degree of Freedom Conventional Controller adopting the Smith Principle for First Order Process with Dead Time	of Electrical and Computer Engineering		
59	G Sureshkumar., Nithiyananthan Kannan., Sunil Thomas	MATLAB/SIMULINK based simulations of KY converter for PV panels powered led lighting system	International Journal of Power Electronics and Drive Systems	Vol. 10, no. 4	pp.1885-1893
60	Arivarasi A., Anand Kumar	DFT Investigation of Bi (100) and Au (111) for Heavy Metal Ion Adsorption and Selective Comparison for Water Quality Sensing Electrodes	International Journal of Simulation: Systems, Science and Technology	Vol. 19, no. 6	, pp.59-59
61	Sureshkumaar G., Kannan N., Thomas S., Karthikeyan S.P	Matlab/simulink simulations based modified sepic DC to DC converter for renewable energy applications	Journal of Advanced Research in Dynamical and Control Systems	Vol. 11, no. 4	pp.285-295
62	Dasari Sai Krishna Kishore., Raja Muthalagu	MATLAB Simulation of Configurable Digital Hearing Aid System with Noise Reduction Filter	Journal of Advanced Research in Dynamical and Control Systems	Vol. 11, no. 4	pp.37-42
63	Raja Muthalagu	A Novel Nonlinear and Non-iterative Precoding Technique for Single and Multi User MIMO Systems	Wireless Personal Communications	Vol. 80, no. 3	pp.1-17
64	A R Abdul Rajak., Shazia Hasan., Bushra Mahmood	Automatic Waste Detection by Deep Learning and Disposal System Design	Journal of Environmental Engineering and Science	-	-
65	Vihari, NS, Rao, MK, Doliya, P	Organizational learning as an innovative determinant of organizational sustainability: An evidence-based approach	International Journal of Innovation Management	23 (3)	1-24
66	Singh, K, Raina, M	Demographic correlates and validation of PERMA and WEMWBS scales in Indian adolescents	Child Indicators Research	-	1-12
67	Bhardwaj, A, Jabeen, SS	Corporate Social Responsibility Practices in Small and Medium Enterprises.	Polish Journal of Management Studies	19 (1)	9-20
68	Kadam, R, Rao, S, Kareem Abdul, W, and Jabeen	A comprehensive examination of antecedents of cultural intelligence amongst students: Testing the moderation effect of third culture kids.	International Journal of Educational Management	ahead-of-print	ahead-of-print
69	Desai, S, Rao, A, Jabeen	Impact of cultural intelligence on SME performance: The mediating effect of entrepreneurial orientation	Journal of Organizational Effectiveness - People and Performance	6 (3)	161-185
70	Aruldoss. V	The politics of young children through the 'epistemologies of the south'	Social Sciences	8 (5)	1-14
71	Raja Muthalagu, Subeen Jain	A Novel Modified KASUMI Block Cipher for Global System for Mobile Communications	International Journal of Computers and Applications, Taylor & Francis	-	1-7
72	Raja Muthalagu	A novel Nonlinear and Non-iterative Precoding Technique	Wireless Personal Communications,	Vol. 106, no.4	pp.2359-2373

S.No.	Author(s)*	Title of the Publication	Journal	Vol.	Pages
		for Single and Multi-user MIMO Systems	Springer		
73	Raja Muthalagu, Kishore	MATLAB simulation of configurable digital hearing aid system with noise reduction filter	Journal of Advanced Research in Dynamical and Control Systems	Vol.11, no.4	pp. 37-42
74	Raja Muthalagu, Subeen Jain	Reducing the time required by KASUMI to generate output by modifying the FL and FI functions	Iran Journal of Computer Science, Springer	Vol 2, no.1	pp.33-40
75	K. Sasikumar B.Vijaykumar	An Efficient Multi-Objective Model for Data Replication in Cloud Computing Environment	International Journal of Enterprise Information Systems (IJEIS)	Volume : 16, Issue : 1	pp. 69-91
76	Lalitha Natraj, Sujala D. Shetty	A Translation System That Converts English Text to American Sign Language Enhanced with Deep Learning Modules	. International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Volume-8 Issue-12	pp.5378-5383
77	Shaleen Bengani, S.Vadivel and Angel Arul Jothi	Efficient Music Auto-Tagging with Convolutional Neural Networks	JOURNAL OF COMPUTER SCIENCE [INTERNATIONAL]	Vol. 15, no. 8	pp.1203-1208
78	V.M. Praseetha., S. Vadivel	Enrolment and Matching of Fingerprints using Minutiae Tree	JOURNAL OF COMPUTER SCIENCE[INTERNATIONAL]	Vol. 15, no. 3	pp.357-371
79	Ankita Rane; S,Vadivel	Implementation of Improved Ship-Iceberg Classifier Using Deep Learning	Journal of Intelligent Systems	-	-
80	Eldhose Iype, Siddhaling Urolagin	Machine learning model for non- equilibrium structures and energies of simple molecules	The Journal of chemical physics	vol. 150(2)	Pages 024307
81	Alina Zaidi, Siddhaling Urolagin	Worldwide Gross Revenue Prediction for Bollywood Movies using Hybrid Ensemble Model	Int. J. of Business Intelligence and Data Mining	-	-
82	Shaunak V Potdar, Mohamed Shazin and Geetha Kannan	A sustainable energy source from microbes using microbial fuel cells	Journal of Physics: Conference Series	Volume 1276, Number 1	-
83	J. SARAL, S. ARUMUGAM, Ibrahim VENKAT and A. SOMASUNDARAM	Cellular manufacturing problem - A graph theoretic approach	Journal of Advanced Mechanical Design, Systems, and Manufacturing	Vol.13, No.3	-
84	S.V. Divya Rashmi, A. Somasundaram, S. Arumugam	Secure domination subdivision number of a graph	Discrete Mathematics, Algorithms and Applications	Vol. 11, No. 3	-
85	J. Deepalakshmi, G. Marimuthu, A. Somasundaram, S. Arumugam	On the 2-token graph of a graph	AKCE International Journal of Graphs and Combinatorics	-	-
86	S. Rajeswari, A. Somasundaram, Nishrin Abdul Gafoor, Trupti Gokhele Swarup, Neeru Sood, S. Arumugam	A computational approach to identify the role of potassium transporter in barley	AKCE International Journal of Graphs and Combinatorics	-	-

Books Chapter Publications

S.No	Authors	Title	Publishing House	Year and Month of Acceptance/ Publishing
1	Lyra, D. A., Al-Shihi, R. M. S., Nuqui, R., Robertson, S. M., Christiansen, A., Ramachandran, S., Ismail, S., Al-Zaabi, A. M.	Multidisciplinary Studies on a Pilot Coastal Desert Modular Farm Growing <i>Salicornia bigelovii</i> in United Arab Emirates. In <i>Ecophysiology, Abiotic Stress Responses and Utilization of Halophytes</i>	Springer	April, 2019
2	Namita Khanna, Akshayaa Sridhar, Ramachandran Subramanian, Soumya Pandit, Elvis Fosso-Kankeu	Phycoremediation: A Solar Driven Wastewater Purification System. In <i>Nano and Bio-Based Technologies for Wastewater Treatment: Prediction and Control Tools for the Dispersion of Pollutants in the Environment</i> .	John Wiley & Sons	2019
3	Dali Vilma Francis, Neeru Sood and Trupti Gokhale	Applications of Metal Nanoparticles in Agriculture	Nova Science Publishers, Inc. Hauppauge, NY, USA	November, 2019
4	Singh, Prem, Shounak Roy, Pallab Sanpui, Aditi Banerjee, and Amit Jaiswal	Gold Nanostructures for Photothermal Therapy. In <i>Nanotechnology in Modern Animal Biotechnology</i>	Springer	March, 2019
5	Khanna, N; Sridhar, A; Pandit, S; Subramanian, R; Fosso-Kankeu E.	Phycoremediation: A solar driven wastewater purification system. In: <i>Nano and Bio-Based Technologies for Wastewater Treatment: Prediction and Control Tools for the Dispersion of Pollutants in the Environment</i>	Scrivener, Beverly, MA, USA	2019
6	Devika Sharma and Varun Sahni	Trump's Triumph Through Indian Eyes: Terribly Tragic, Truly Transformative, or Totally Trivial? In <i>American Presidential Elections in a Comparative Perspective</i>	The World is Watching	2019
7	Mahima Raina and K. Singh	Employee Well-Being in Organizations	Translational Research and Applied Psychology in India	2019

Annexure B4-13
(1 page)

List of Higher Degree Dissertations

Second Semester 2018-2019 (January 2019 to June 2019)

During the **Second Semester 2018-2019**, 10 Higher Degree dissertation projects have been completed. The list of completed Higher Degree dissertations during Second Semester 2018-2019 is given in below

S. No	Name	Topic	Supervisor
1	Ansha Noushad	Multiplier Algorithm for FFT implementation in VLSI	Dr. Abdul Rajak
2	A,Abirami	Securing Stock Market Transaction on Block Chain	Dr. J. Angel Arul Jothi
3	Prasannan,Chippy	Stability Analysis of Different Op-Amp Circuits	Dr. Vilas Haridas Gaidhane
4	Raj,Akhila	Modelling of an Efficient Maximum Power Point Tracking Algorithm of a Solar Photovoltaic Cell using FPGA	Dr. Mary Lourde R
5	V Pavankumar	Challenges of Women Entrepreneurs in UAE	Dr. Natesa Prasad
6	Ajmal,Mohammed	Business Model Innovation and Financial Performance: SMEs in Dubai	Dr. Shazi Shah Jabeen
7	P. K,Anupama.	Competitive Advantage of Online Branding in the Digital Era: Case of the Energy Industry	Dr. Shazi Shah Jabeen
8	Thampi,Aravind M	Artificial Intelligence and its Transforming Power in Industrial Marketing	Dr. Sujala D Shetty
9	Pinjani,Kirti	Impact of Innovative Practices on Performance of Small and Medium Enterprises - Dubai	Dr. Shazi Shah Jabeen
10	Chaitanya,Tata	Relationship between Inflation and Unemployment – Evidence from India	Dr. Sartaj Rather

During the **first semester 2019-2020**, 8 higher degree dissertation projects were completed. The list of completed higher degree dissertations during first semester 2019-2020 is given below:

First Semester 2019-2020 (August 2019 to December 2019)

S. No.	Name	Topic	Supervisor
1	Anooj Jacob Panicker	Studying the Sustainability of Hospital Efficiency for Khoula Hospital	Dr. Pazisad Dungore
2	Maharroof P	5G Network Slicing Challenges & Opportunities	Dr. Anand Kumar
3	Veena E	Effect of Sustainable HR Practices on Employee Wellbeing	Dr. Shazi Shah Jabeen
4	Manoj Malik .	Business Applications for Artificial Intelligence: A Case Based Review	Dr. Nitin Simha Vihari
5	Taha Murtuza Safdari	Internal Determinants of the Job Shop Sales - An empirical analysis	Dr Sartaj Rasool Rather
6	Sagar Dipak Zinzuvadiya .	Design an Energy-Efficient Thrust Vecteded Steering System For Yawing A 1.5m By 1m Catamaran With Electric Propulsion.	Dr. Ram Karthikeyan
7	Ashwin Suresh	Flow Analysis Around a Scaled-Down Catamaran using a CFD Software	Dr. Snehaunshu Chowdhury
8	Mohomammad Shapheek	Optimization of Cooling Time for Polyethylene Fusion Joints	Dr. Naveen Shrivastava

Annexure B4-14
(2 pages)

List of First Degree Thesis

Second Semester 2018-2019 (January 2019 to June 2019)

S.No	Name	Topic	Supervisor
1	Prabhudesai Mihir Pralhad	Machine Learning for Unstructured Data Analysis	Mr. Nandkumar
2	Keshav Maheshwari	Design and Implementation of Customer Targetted E-Commerce Using	Dr. Sujala Shetty
3	Ishan Shastri	Analyzing and Exploring Different Ledgers of Blockchain by Using Artificial Intelligence and Data Science Techniques	Dr. Santhosh Kumar
4	Shaleen Bengali	Deep Learning for Enhancing Smartphone Photography	Dr. S. Vadivel
5	P Sai Sudharshan	A Framework for Distributed Storage, Indexing and Retrieval for Document Centric XML	Dr. B. Vijayakumar
6	Vanshika Sharma	Mobile Robot Path Planning and Area Mapping: Feature Extraction on LiDAR	Dr. Santhosh Kumar
7	Rohit Beriwal	Analysis of Quantum Circuit with Faulty Gates	Dr. Angel Arul Jothi
8	Patil Indraneel Rajeev	Real-Time Intelligent Path Planning in the 3D Workspace for the Robotic Control of a 6 DOF AMM 1410 Industrial Manipulator	Dr. V. Kalaiichelvi
9	Gayathri Hariharan	A Micromechanical Model to Predict Elastic/Viscoelastic Behavior of Syntactic Foams	Dr. Priyank Upadhyaya
10	Zoheb S Razak	Optimization of Transpiration Cooled Gas Turbine Blades at Maximum Temperatures	Dr. Shashank Khurana
11	Rishabh Aggarwal	Study and Analysis of Polymer Based Extrusion Molding Machine	Dr. C. Perisamy
12	Shamith Louis Saldanha	Control of Autonomous Ground Vehicle for Pipeline Monitoring	Dr. R Karthikeyan
13	Rubitha Souresh	Exploring the Versatility of Cyanobacteria as Host and Substrate for Hydrogen Production	Dr. Namita Khanna
14	Namisha R Bohara	Cloning, Expression and Purification of Human Hair Keratin in E.coli	Dr. Pallab Sanpui
15	Sidra Raihan	Meta-Analysis of Association Studies for CAPN1 Gene Polymorphisms with Polycystic Ovarian Syndrome	Dr. D. J. Shariff
16	Yuvraj Borkhade	Understanding the Role of Blockchain Technology in Recent Financial Disruptions and Anticipating its Future Impacts and Opportunities	Dr. Natesa Prasad

First Semester 2019-2020 (August 2019 to December 2020)

S.No.	Name	Topic	Supervisor
1	Yashodhan Nitin Naik	Drone Management Platforms: The future of Urban Air Mobility	Dr. Vincent S Kumar
2	Mohammed Ghulam Nabi Rayyan	Converting Traditional Contracts into Smart Contracts Using Blockchain Technology	Dr. Santhosh Kumar
3	Shivani Sivakumar	Automization and Analysis of Mechanical Bounces in a Real Time system	Dr. Shazia Hasan
4	Adithya Pradeep Nair	Synthesis of Metallic Glasses and its Properties Evaluation	Dr. Vincent S Kumar
5	Aakansha Mathur	Analyzing Yelp Reviews of Restaurants in USA	Dr. Angel Arul Jothi
6	Vijaya Gajanan Buddhavarapu	Convolutional Autoencoders for Segmentation and Classification of Histopathology Images: An Experimental Study	Dr. Angel Arul Jothi
7	Sara Tabassi	Big Data Analytics Using Apache Spark And Hadoop.	Dr. Sujala Shetty
8	Nikita Bhargava	Secure System using Blockchain-based on RWFM Model for Hippocratic Database.	Dr. Sujala Shetty
9	Safiya Aafreen	Cloning of Human Keratin 35 in E. coli	Dr. Pallab Sanpui
10	Chandrasen Mohite	NIR Active Palladium Nanocapsules For Potential Application In Photothermal Therapy	Dr. Pallab Sanpui
11	Simran Nirmal Arora	Hydrogen production from algal biomass	Dr. Namita Khanna
12	Patil Vrushali Bhausheb	Comparison and Evaluation of Controllers for the BalanceBot	Dr. V. Kalaichelvi

Annexure B4-15
(3 pages)

**DETAILS OF DISTRIBUTION OF PS I STUDENTS AND FACULTY OVER PRACTICE SCHOOL- I STATIONS
DURING THE SUMMER TERM 2018-2019**

(02.06.2019 – 31.07.2019)

S.No	Station	No. of Students	No. of Faculty
I. Stations in United Arab Emirates (UAE)			
la. Stations at Abu Dhabi			
1	Advanced Petro Services	3	1
2	Global Emirates and Cables & System Industries	5	1
3	Gulf and Safa Diaries ADH Co LLC *	2	1
4	TUV Nord *	7	1
lb. Stations at Ajman			
5	Moalajah FZC	3	1
6	Power Solution Industries	4	1
lc. Stations at Ras al Khaimah			
7	MESC Cables	5	1
ld. Stations at Dubai			
8	Abath weights & measuring labs	3	1
9	Advanced Biotechnology Centre	3	1
10	Al Ashwaq Building Maintenance	5	1
11	AL BAWADI ROAD CONTRACTING LLC	3	1
12	Al Mazroui Advanced Technology	5	1
13	Bio Care Environmental Services	4	1
14	Dubai Police	2	1
15	ECOMAR Energy Solutions	4	1
16	Emirates – CAE Flight Training	5	1
17	Emirates Transformer & Switchgear Limited	3	1
18	Fit on Click FZE	5	1
19	Fractal Systems FZ LLC *	2	1
20	Globelink Westar Shipping LLC	2	1
21	Gulf Incon Controls International LLC	7	1
22	INDOGULF INSPECTION AND TESTING SERVICES	1	1
23	Intercoil International Co. LLC	5	1
24	Kyoto Technologies. *	4	1
25	L & T Electrical and Automation *	6	1

S.No	Station	No. of Students	No. of Faculty
26	Levtech Consulting *	2	1
27	OASIS INVESTMENT COMPANY LLC (Al Shirawi)	4	1
28	Photon Technologies LLC	4	1
29	Reliance FM	2	1
30	Sanbook Quality Consultancy	9	1
31	Sentient labs	6	1
32	Shama Food Industries LLC (IFFCO Group of Companies LLC)	6	1
33	Sol Analytics	4	1
34	Sprint Arabia	5	1
35	starb2b Consulting Services *	7	1
36	Steinweg Sharaf FZCO	4	1
37	Techrobotix *	5	1
38	Ted Jacob Engineering Group Inc	4	1
39	Tendercare FZE	4	1
40	Venture Info Systems	7	1
41	Voltas Limited	3	1
42	WISOFT solutions FZE	3	1
le. Stations at Sharjah			
43	Arabian Gulf Switchgear	2	1
44	Consilium ME	7	1
45	L & T Power and Transmission	4	1
46	Mohamed Abdulrahman Al-Bahar LLC	5	1
47	Multi Industries FZC	4	1
48	Petrofac International Ltd	5	1
II. Stations in India			
Ila. Stations at Bangalore			
49	Canbank Computer Services Ltd	4	1
50	DRDO	4	1
51	GenoPhe Biotech Pvt Ltd	6	1
52	Sumadhura Group	4	1
53	TCS	3	1
54	Yottec	4	1

IIb. Stations at Hyderabad			
55	Centre for Innovation & Entrepreneurship (CIE)	5	1
56	Posidex technologies Private Ltd	6	1
57	Shalivahana Group	10	1
IIc. Stations at Mumbai			
58	Cimpress India Private Limited	4	1
59	IPCA Laboratories	6	1
60	SBI	3	1
IId. Stations at New Delhi			
61	Bhagwati Products Ltd	7	1
62	Micromax Energy Ltd	7	1
63	UTB	1	1

Summary:

Total number of students	278
Total number of Stations	63
Total number of Faculty	20**

Note:

* - also PS II station

** - Each PS I Faculty was allotted more than one station to monitor.

Annexure B4-16
(3 pages)**SOME PRACTICE SCHOOL- II STATISTICS**

Statistical Details of the Distribution of Students & Faculty over Practice School-II during the year 2018-19:

S.No	Name of the PS Station	Second Semester 2018-19 20.01.2019 – 02.07.2019		First Semester 2019-20 01.08.2019 – 01.01.2020		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
A. Stations at Abu Dhabi						
1	DNV-GL	1	1	–	–	1
2	Finabl, UAE Exchange Centre LLC, Abu Dhabi	4	1	–	–	4
3	Garnet Management Consulting LLC, Abu Dhabi	3	1	–	–	3
4	MES International, Abu Dhabi	1	1	–	–	1
5	TUV Nord	–	–	3	1	3
B. Stations at Ajman						
6	Elfit Arabia, Ajman	4	1	1	1	5
7	KHK Scaffolding and Formwork LLC, Ajman	4	1	2	1	6
C. Stations at Dubai						
8	Agility, Dubai	2	1	–	–	2
9	Al Ghandi General Trading LLC, Dubai	3	1	2	1	5
10	Al Rais Enterprises LLC, Jumeirah 3, Dubai	–	–	2	1	2
11	Al Shirawi Equipment, Al Quoz Industrial Area 3, Dubai	–	–	7	1	7
12	Al Tamimi Engineering Services LLC, Dubai	3	1	3	1	6
13	Alucor Ltd., Dubai	6	1	–	–	6
14	Aristo Star General Trading LLC, Dubai	3	1	4	1	7
15	Aspire Controls & Solutions LLC, Dubai	4	1	4	1	8
16	Asteco Property Management, Dubai	4	1	–	–	4
17	Atlab Trading LLC, Dubai	7	1	–	–	7
18	Azbil Corporation, Dubai	4	1	–	–	4
19	Cluttons	1	1	1	1	2
20	Crowe MAK Ltd., Dubai	2	1	–	–	2
21	DNV-GL, Dubai	1	1	–	–	1
22	EIC, Karama, Dubai	–	–	2	1	2
23	Electromech Electromechanical Ins.Equip. LLC, Dubai	4	1	–	–	4
24	Emerson Final Control	8	1	–	–	8
25	Emerson Rosemount, Dubai	11	1	1	1	12
26	Fractal Systems FZ LLC, Dubai	3	1	–	–	3
27	Game Change Solutions and Services, Dubai	1	1	1	1	2
28	Giro Fintech Ltd, DIFC, Dubai	–	–	2	1	2
29	Grant Thornton, Sheikh Zayed Road, Dubai	–	–	2	1	2
30	Gulf & Safa Diaries, UM Al Nar, Abu Dhabi	–	–	1	1	1
31	Hydro Middle East Inc., Dubai	3	1	2	1	5
32	ICC Loyalty, Dubai	3	1	4	1	7
33	International Centre for Biosaline Agriculture (ICBA), Dubai	12	1	–	–	12
34	Johnson Controls, Dubai	7	1	1	1	8
35	Kempex FZE, Dubai	2	1	–	–	2
36	KPTAC Technologies, Dubai Silicon Oasis, Dubai	–	–	4	1	4
37	Kyoto Technologies, Dubai	6	1	4	1	10
38	L&T Electrical & Automation, Dubai	4	1	7	1	11
39	Levtech Consulting, Dubai	2	1	2	1	4
40	Lucy Electric, JAFZA, Dubai	–	–	3	1	3

S.No	Name of the PS Station	Second Semester 2018-19 20.01.2019 – 02.07.2019		First Semester 2019-20 01.08.2019 – 01.01.2020		Total No. of Students
		No. of Students	No. of Faculty	No. of Students	No. of Faculty	
41	Masafi Co.LLC, Dubai	4	1	–	–	4
42	MES International, Dubai	2	1	–	–	2
43	MSD Animal Health FZ-LLC,DIC, Dubai	3	1	1	1	4
44	MSD Animnal Heatlh FZ-LLC, DHC, Dubai	1	1	5	1	6
45	Noon.com, Dubai	2	1	–	–	2
46	Ottomans International Technologies, Dubai	3	1	–	–	3
47	Param Info, Dubai	3	1	–	–	3
48	Protiviti, Dubai	2	1	–	–	2
49	PwC Middle East, Dubai	9	1	–	–	9
50	Reckitt Beckinser Arabia FZE, Dubai	1	1	2	1	3
51	Redington Gulf, Dubai	5	1	1	1	6
52	Schindler Pars Internatioal, Dubai	1	1	–	–	1
53	Schneider Electric, Dubai	4	1	–	–	4
54	Shapoorji Pallonji International FZA,Dubai Airport Authority(DAFZA),Dubai	–	–	6	1	6
55	Spire Solutions, Dubai	2	1	–	–	2
56	StarB2B Consulting Services LLC, Dubai	5	1	3	1	8
57	TCAL Total Weighing & Measuring Laboratory LLC, Dubai	2	1	2	1	4
58	Techrobotix, Dubai	4	1	3	1	7
59	THL, Dubai Investment Park 2, Dubai	–	–	1	1	1
60	TUV Nord Lab, Dubai	4	1	2	1	6
61	TUV Nord, Dubai	3	1	1	1	4
62	UTP Pipe, JAFZA, Dubai	–	–	2	1	2
63	Zomato Media Pvt.Ltd., Dubai	4	1	1	1	5
D. Stations at Sharjah						
64	Aarya Engineering, Sharjah Airport International Free Zone, Sharjah	–	–	2	1	2
65	Al Shefa Group, Sharjah	3	1	–	–	3
66	Cluttons	3	1	3	1	6
67	Cosmoplast (Harwal Group), Sharjah	5	1	5	1	10
68	Emerson, Hamriya Free Zone,Sharjah	–	–	4	1	4
69	ESRI, Sharjah	2	1	2	1	4
70	Eversendai FZE, Sharjah	2	1	2	1	4
E. Stations at Gurgaon						
71	Zinnov Management Consulting (Non- IT), Gurgaon	1	1	–	–	1

Summary:

Total No. of PS II stations in Semester II – 57

Total No. of PS II stations in Semester I – 43

Total No. of students in Semester II – 203

Total No. of students in Semester I – 113

Common Stations in Both Semesters – 29

* Also PS I stations

Annexure B4-17
(3 pages)**PRACTICE SCHOOL STATISTICS****PRACTICE SCHOOL- I**

Session	No. of students who attended PS- I	No. of faculty who supervised PS- I	No. of PS- I Stations
Summer 2002	53	4	7
Summer 2003	102	10	24
Summer 2004	94	14	26
Summer 2005	155	21	49
Summer 2006	260	28	81
Summer 2007	256	32	91
Summer 2008	357	40	117
Summer 2009	357	40	126
Summer 2010	457	49	139
Summer 2011	343	32	89
Summer 2012	294	28	76
Summer 2013	325	23	89
Summer 2014	369	26	99
Summer 2015	324	29	86
Summer 2016	404	33	97
Summer 2017	423	27	96
Summer 2018	310	22	80
Summer 2019	278	20	63

PRACTICE SCHOOL II

Year	Semester	Period (Duration)	No. of Stations	No. of Students	No. of Faculty
2003-04	I	July 2003 to January 2004 (09.07.2003 to 18.01.2004)	17	27	16
	II	February 2004 to July 2004 (09.02.2004 to 22.07.2004)	16	26	13
2004-05	I	August 2004 to January 2005 (02.08.2004 to 10.01.2005)	27	43	17
	II	February 2005 to July 2005 (01.02.2005 to 14.07.2005)	28	39	26
2005-06	I	July 2005 to January 2006 (24.07.2005 to 05.01.2006)	30	47	30
	II	February 2006 to July 2006 (02.02.2006 to 16.07.2006)	31	43	27
2006-07	I	July 2006 to January 2007 (31.07.2006 to 12.01.2007)	40	76	40
	II	February 2007 to July 2007 (01.02.2007 to 15.07.2007)	45	75	38
2007-08	I	August 2007 to January 2008 (1.08.2007 to 15.01.2008)	59	116	50
	II	February 2008 to July 2008 (3.02.2008 to 17.07.2008)	57	115	50

2008-09	I	August 2008 to January 2009 (3.08.2008 to 15.01.2009)	67	140	52
	II	February 2009 to July 2009 (01.02.2009 to 15.07.2009)	61	133	51
2009-10	I	August 2009 – January 2010 (02.08.2009 to 14.01.2010)	73	155	60
	II	January 2010 to July 2010 (31.01.2010 to 14.07.2010)	59	163	52
2010-11	I	August 2010 to January 2011 (1.08.2010 to 13.01.2011)	71	170	65
	II	February 2011 – July 2011 (30.01.2011 to 14.07.2011)	66	199	59
2011-12	I	August 2011 – January 2012 (1.08.2011 to 12.01.2012)	71	204	62
	II	February 2012 – July 2012 (1.02.2012 to 12.07.2012)	76	242	60
2012-13	I	August 2012 – January 2013 (1.08.2012 to 10.01.2013)	40	144	38
	II	February 2013 – July 2013 (3.02.2013 to 15.07.2013)	42	152	40
2013-14	I	August 2013 – January 2014 (4.08.2013 to 9.01.2014)	41	134	39
	II	February 2014 – July 2014 (2.02.2014 to 3.07.2014)	42	141	41
2014-15	I	August 2014 – January 2015 (5.08.2014 to 8.01.2015)	47	152	43
	II	February 2015 – July 2015 (1.02.2015 to 2.07.2015)	44	148	43
2015-16	I	August 2015 – January 2016 (6.08.2015 to 13.01.2016)	52	160 FD 08 HD	35
	II	Feb 2016- July 2016 (1.02.2016 to 10.07.2016)	52	182	34
2016-17	I	August 2016 – January 2017 (01.08.2016 to 04.01.2017)	37	140	28
	II	January 2017-July 2017 (22.01.2017-03.07.2017)	51	176 FD 04 HD	35
2017-18	I	August 2017-January 2018 (01.08.2017-04.01.2018)	50	180	29
	II	January 2018-July 2018 (20.01.2018-02.07.2018)	61	199 FD 04 HD	32
2018-19	I	August 2018-January 2019 (01.08.2018-3.01.2019)	57	192	27
	II	January 2019 - July 2019 (20.01.2019-02.07.2019)	57	197 FD 06 HD	23
2019-20	I	(July 2019 – Jan 2020) (21.07.2019-02.01.2020)	43	112 FD 1 HD	21

Annexure B4-18
(1 page)

FACILITIES AVAILABLE AT PSI STATIONS DURING THE YEAR 2018-2019

S. No.	STATION	Out of Pocket allowance in AED & other facilities
I. Stations in United Arab Emirates (UAE)		
Ia. Stations at Dubai		
1	Fractal Systems	1000
2	Steinweg Sharaf	1600
3	IFFCO	600
4	Globlink weststar	750
II. Stations in India		
Ila. Stations at Mumbai		
1.	SBI	12000INR
2.	Cimpress India	12000INR
Ilb. Stations at Hyderabad		
1.	Posidex	5000INR

Annexure B4-19

(7 pages)

LIST OF PROJECT ASSIGNMENTS FOR PS II - SECOND SEMESTER 2018-19**LIST OF PROJECT ASSIGNMENTS FOR PS II - SECOND SEMESTER 2018-19**

1	Agility, Dubai	
	1	Sales and CRM Website Development
	2	Web-based Development of Sales Dashboard
2	Al Ghandi General Trading LLC, Dubai	
	3	Working and Study of different ATyS
	4	Analytical Study and Programming of a Smart Energy Meter
	5	Study and Operation of a Feeder Pillar
3	Al Shefa Group, Sharjah	
	6	Study of klingspor abrasives and its financial administration
	7	Electrical works and construction tools in Al Shefa
	8	Study of Abrasives, Power tools, Hand tools and Welding machines
4	Al Tamimi Engineering Services LLC, Dubai	
	9	MEP works for Mcgettigans Restaurant
	10	MEP Works For Italian Restaurant
	11	MEP Works For Royal & Presidential Suites
5	Alucor Ltd., Dubai	
	12	The Role of Engineering Department in an EPC Firm
	13	Automation of Welders Qualification Process and Activities in Quality Control Department
	14	The Role of Production Department in an EPC Firm
	15	The Role of an Engineer in Planning and Production Department of an EPC Firm
	16	An Insight into the Engineering and Workflow Methods
	17	Web Application - Welder Database Management System
6	Aristo Star General Trading LLC, Dubai	
	18	Product Marketing and Website Development
	19	Corporate Marketing Strategies
	20	Market Research Strategies
7	Aspire Controls & Solutions LLC, Dubai	
	21	Building Management System In UAE
	22	Building Management System And Energy Efficiency
	23	Building Management System
	24	Building Management System
8	Asteco Property Management, Dubai	
	25	Digital Marketing and Web Development
	26	Vendor Management System
	27	Data Science Applications in Property Management
	28	Vendor Portal Development
9	Atlab Trading LLC, Dubai	
	29	Lego Education
	30	Understanding Customer Requirements And Management Of Products In Pre-Sales
	31	Robotics And Lego In Stem Education
	32	3-D Printing, Its Applications And Future In The Industry
	33	Atlab Stem Academy

	34	Atlab Stem Education And Academy
	35	E-Commerce Business And Biological Scientific Instruments In Atlab
10	Azbil Corporation, Dubai	
	36	Energy Efficient Building Management Systems
	37	Integrating HVAC using BMS
	38	Building Automation and Utility Systems
	39	Smart and Energy Efficient Building Technologies
11	Cluttons, Dubai	
	40	Property management and valuations
12	Cluttons, Sharjah	
	41	Implementation And Utilization Of Dbms In Property Management'
	42	Comprehensive Analysis Of Property Valuation"
	43	Lease Management Using Tramps – A Property Management Software
13	Cosmoplast (Harwal Group), Sharjah	
	44	HR Management and Payroll Application
	45	Web Application Development for HR Management
	46	Implementation of Analytics in Web Application
	47	Human Capital Management for Group Harwal
	48	PHP Web Application Development and Database Management for Harwal
14	Crowe MAK Ltd., Dubai	
	49	Company Secretary Portal Enhancements and Testing
	50	Development of company secretary portal, Efast tool and Employee Portal
15	DNV-GL, Abu Dhabi	
	51	Importance Of Safety Equipments In Operation Phase
16	DNV-GL, Dubai	
	52	Damage mechanisms affecting fixed equipment integrity in the refining industry
17	Electromech Electromechanical Ins.Equip. LLC, Dubai	
	53	Design And Comparative Study Of A Supercapacitor And It'S Alternatives
	54	Design Analysis And Comparative Study Of Ducting Systems Used In Hvac Industry
	55	Aerodynamics And Heat Transfer Of Paintbooth
	56	Design And Analysis Of A Fans Used In Dust Collectors
18	Elfit Arabia, Ajman	
	57	Reverse engineering
	58	Procurement of materials from purchase department
	59	Designing Dye for injection molding
	60	Web design for Italian virtual office setup
19	Emerson Final Control, Dubai	
	61	Systems and solutions - Inventory, Product applications and WMS
	62	Creating An Accurate And Automated Backlog Report
	63	Process Mapping of PRM MEA Sales Division and Technical Sales
	64	Parts Distribution Supply Chain & Procurement in Life-Cycle Services Department
	65	Water Quality Monitoring Systems
	66	Procurement Engineering
	67	Custom Desktop Application Development and Business Process Automation
	68	Trim Parts Manufacturing for Fisher Control Valves
20	Emerson Rosemount, Dubai	

69	Comprehensive Overview of Freight Management at Rosemount Dubai
70	Techno-Commercial Aspects of Project Management : Measurement, Analytics and Customer Care
71	Business Process Harmonization , Logistics and Warehouse Management at Rosemount Dubai
72	Quality control and Assurance for Incoming Materials at Rosemount Dubai
73	Procurement Process
74	Engineering Project Management : Fundamentals and Methodology
75	Work areas of a Procurement department
76	Manufacturing : Production Line Mangement
77	Activities of a Planner in Supply Chain
78	Solving system issues in production and Managing workplace safety
79	Quotation Procedure : Tools and Opportunities
21	ESRI, Sharjah
80	Optimizing Add Raster in ArcGIS using Amazon Web Services Architecture
81	Geographic information system workflows Implementation
22	Eversendai, Hamriya FZE, Sharjah
82	Fabrication And Quality Control Of Structural Steel
83	Application Of Python At Eversendai
23	Finabl, UAE Exchange Centre LLC, Abu Dhabi
84	Implementation of Innovative technologies in Fintech World
85	Social Media and its implementations in the financial industry
86	Implementation of Futuristic Technologies in the Fintech Industry
87	Disrupting the Fintech World With Revolutionary Technology
24	Fractal Systems FZ LLC, Dubai
88	Mechanical working of DNA Xs and Kinetic Sphere
89	Design and Mechanism of Kinetic Flower and Rotating Screen
90	Detailed Electronic Description of event Technologies-Rotating Sphere and LED cube
25	Game Change Solutions and Services, Dubai
91	A work on Data Science with emphasis on recommendation and prediction engine
26	Garnet Management Consulting LLC, Abu Dhabi
92	Black box testing of Softwares and Applications
93	Black box testing of Franchisee Management application
94	ADHIE - Malffi: Business enablement
27	Hydro Middle East Inc., Dubai
95	QC & Weld Inspection
96	Detailing the flow of work in Hydro Middle East
97	Pumps after market and recertification
28	International Centre for Biosaline Agriculture (ICBA), Dubai
98	Understanding the effect of Bidirectional Reflectance Distribution Function on Multi-Spectral Drones Imagery.
99	Determining the salinity tolerance of different crops and measuring different nutrients for date palm leaves
100	Evaluating growth and productivity parameters of five Quinoa genotypes under different water salinity conditions.
101	Soil Texture and Property Analysis for Different Varieties of Grass Undergoing Liquid Nano Clay Treatment
102	Water producing, refining, condensing, treatment systems
103	Water producing, refining, condensing, treatment systems
104	Understanding the effect of Multi-Resolution on multi-spectral Drones Imagery

	105	Soil Sampling of Liquid Nano Clay Project and its Analysis for Various Parameters.
	106	Intergrated Agri Aqua Culture Systems and Soil Analysis
	107	Biomass production of Pennisetum purpureum (Napier Grass) and Desmanthus under saline irrigation systems
	108	Testing Liquid Nano-Clay Product for growing Turf And Bermuda Grasses.
	109	Analysis of Behavioural Adaptations Shown Over a Period of Time in Twelve Different Varieties of Quinoa Grown for Distinct Salinity Concentrations
29	ICC Loyalty, Dubai	
	110	ICC Loyalty Solutions
	111	Loyalty Services of different banks
	112	Web development and testing
30	Johnson Controls, Dubai	
	113	Engineered Service Group at Johnson Controls International
	114	Operations of Human Resource Department & HVAC Systems and Products at Johnson Controls
	115	Functions of Learning and Development at Johnson Controls
	116	Application Development at Johnson Controls
	117	Infrastructure Support at Johnson Controls.
	118	Functions of the strategy and business transformation department at JCI
	119	Operations of Human Resource Department and Online Security at Johnson Controls
31	Kemipex FZE, Dubai	
	120	Epoxy Resin Technology
	121	Market Research And Business Development For Speciality Chemicals
32	KHK Scaffolding and Formwork LLC, Ajman	
	122	Kaizen control at KHK
	123	Optimizing processes using lean management tools at KHK
	124	Scaffolding support system
	125	Design of scaffolding product and fixtures for K-lock
33	Kyoto Technologies, Dubai	
	126	A Critical Review of Digital Marketing Plan
	127	Improving Current IT Solutions Using Customer Feedback
	128	Implementing Cyber Security Solutions
	129	Search Engine Optimization
	130	Cold Calling
	131	Overview of the Operations Department and it's Relevance to the Company's Growth
34	L&T Electrical & Automation, Dubai	
	132	Access Control System For Haliba Development
	133	Meteorological System For Salalah Lpg
	134	Lower Fars Heavy Oil (LFHO)
	135	Procurement Process In L & T Electrical & Automation
35	Levtech Consulting, Dubai	
	136	Web based information retrieval for database procurement
	137	Driving startegic transformation through digital marketing
36	Masafi Co. LLC, Dubai	
	138	Effect Of Outsourcing On Procurement In Masafi
	139	Standard Managing Process Of Vending Machine
	140	Inventory Control Management In ORACLE

	141	The Strategies And Policies For Hr Development In Masafi Co. LLC
37	MES International, Abu Dhabi	
	142	Fire and gas mapping study in Chemical industries
38	MES International, Dubai	
	143	Process hazard analysis(QRA and HAZOP)
	144	Fire And Gas Mapping Study For KPO-Karachaganak Project Development Phase II
39	MSD Animal Health FZ-LLC, DHC, Dubai	
	145	The power of visualization and forecasting using Data Analytics in Business Operations
40	MSD Animal Health FZ-LLC,DIC, Dubai	
	146	Information management for sales and marketing department - website and social media launch
	147	Aiding in Supply Chain Management for Focus-360, forecasting and Business Operations for SharePoint and Salesforce
	148	A work on Business Operations and Supply Chain Management with emphasis on sales force database and Focus-360
41	Noon.com, Dubai	
	149	Growth of Ecommerce in Middle East
	150	Execution of customer related services at Noon.Com
42	Ottomans International Technologies, Dubai	
	151	The Breaking Down Of Closed Circuit Televisions
	152	Robotic Security Guard
	153	Home Security System Through Face Recognition
43	Param Info, Dubai	
	154	Sales and marketing-The making or breaking of a company
	155	Facial recognition application using tensor flow
	156	People counter, RFID and IOT technologies
44	Protiviti, Dubai	
	157	Robotic process automation
	158	Robotic process automation and its implementation
45	PwC Middle East, Dubai	
	159	The advantages and implementations of a customer relationships management system
	160	Digitalization in the business industry
	161	ETL and data visualization techniques
	162	Data flow on an enterprise level
	163	Customer relationship management and its applications
	164	Development in Salesforce to make an efficient CRM tool
	165	Applications of data science in business
	166	Implementation of data science techniques for business development
	167	Sales force as an efficient CRM tool
46	Reckitt Beckinser Arabia FZE, Dubai	
	168	Understanding and Defining Flow ability for Consumer Products
47	Redington Gulf, Dubai	
	169	An insight into the IT Value division of Redington Gulf
	170	Development of HP value business for Redington Africa
	171	Design and Implementation of App based Automation Services for Telco Africa
	172	Application Development For Telecom Industry

	173	The initiation of the medical distribution business in Africa
48	Schindler Pars International, Dubai	
	174	Export, Sales and Marketing at Schindlers
49	Schneider Electric, Dubai	
	175	Gulf And Pakistan Execution Centre
	176	Ecostruxure And End User Team
	177	Field Services
	178	Home And Distribution Unit Of Schneider Electric
50	Spire Solutions, Dubai	
	179	Empowering Organizations to Fight Cyber Threat Exposure Management
	180	Information technology infrastructure and network security
51	StarB2B Consulting Services LLC, Dubai	
	181	Procurement And The Impact Caused By Globalization
	182	Role of Procurement in Supplier Management for Competitive Gain
	183	Supply Chain Management.
	184	Procurement Management
	185	Electronic Auctions
52	TCAL Total Weighing & Measuring Laboratory LLC, Dubai	
	186	Safety Relief Valves
	187	Pressure Transmitters And Pressure Calibration
53	Techrobotix, Dubai	
	188	Overview Of Multi-Touch Gestures
	189	Overview Of Event Operations
	190	Overview Of Latest Display Technologies
	191	Overview Of OLEDs
54	TUV Nord Lab, Dubai	
	192	Chemical Laboratory Analysis
	193	Health & Hygiene Assurance In Food And Hospitality Industry
	194	A Study On The Microbiological Analysis Of Commercially Manufactured Food Products And Its Propagation To UAE Markets
	195	A Study On Microbiological Food & Water Safety And The Working Of National Inspection & Technical Testing Co.
55	TUV Nord, Dubai	
	196	The Akademie Department Of Tuv Nord Middle East
	197	Quality Management Systems
	198	Renewable Energy And Sustainability Auditing
56	Zomato Media Pvt.Ltd., Dubai	
	199	Online Ordering: Zomato- Deployments And Operations
	200	Overview And Functioning Of Marketing Department In Zomato
	201	Operations And Deployments - Online Ordering : Zomato
	202	Overview And Functioning Of Uae Content In Zomato
57	Zinnov Management Consulting (Non- IT), Gurgaon	
	203	Identification of new business opportunities and market sizing for Zinnov Consulting

Annexure B4-20
(7 Pages)

COMPUTING FACILITIES ACROSS THE CAMPUS

S.No.	Location	Hardware	QTY	Software
		Equipment		
1	Server Room (Data Center)	HP ProLiant DL380 Gen9 Intel Xeon E5-2620v3 6-Core (2.40GHz 15MB) ,16GB (1 x 16GB) PC4-17000P-R 2133MHz, RDIMM ,3 x 300GB (10k rpm) Hot Plug 2.5in Small Form Factor Smart Carrier ,SAS Smart Array P440ar/2G, HP Embedded 1Gb Ethernet 4-port 331i Adapter ,HP 2U SFF - Easy Install Rail Kit w/CMA, DVD-RW 2 x 500W ,3/3/3	2	ESXI 5.5 update 2,Windows Server 2003/2008/2012 R2-Enterprise x64 edition, CentOS, REDHAT Linux Enterprise, Domain Controller, Web Server
		HP DL 380 G7 Single Processor / Base Server, 32 GB Memory / 300 GB x 2 Hard drives & 600 GB x 6 Hard Drives	1	ESXI 5.5 update 2,Hypervisor,VMware, Replication server
		HP DL 380 G7 Dual Processor / Base Server, 32 GB Memory / 300 GB x 2 Hard drives	3	ESXI 5.5 update 2,Hypervisor, Windows Server 2003/2012 R2-Enterprise x64 edition/Linux, Vcenter
		HP MSA 2040 FC 6x900 SAS SFF Bndl/TVlite, HP MSA 900GB 6G SAS 10K 2.5in DP ENT HDD,	1	HP Storage server
		12-Bay TurboNAS, Xeon E3-1200 v3 family, 4GB ECC RAM(max. 32GB RAM), 4-LAN, 10G-ready, iSCSI, RAID 0,1, 5, 6, 10, 5+spare, 6+spare, 10+spare, global hot spare, max 8-LAN, PCIe expansion slot x2, redundant power supply, Seagate NAS 4TBx12	1	NAS Backup Server
		DELL PE M1000e Blade Enclosure Chasis (includes 1xCMC and 9x12V High Efficiency Fans) + 3 x 300W redundant Power supply and Fans + 3 x C19 / C20 power cords, Front Media Tray DVD + SD card for CMC + Integrated Analog KVM Switch, Select Brocade M5424 FC8 Switch Redundant (FI) 12 Ports with 2x 8Gb SFPs,	1	
		PowerEdge M630 Blade Server for M 1000 with 2 x Intel Xeon E5-2640 v3 2.6GHz,20M Cache,8.00GT/s QPI,Turbo,HT,8C/16T (90W) Max Mem 1866MHz (135W) Max Mem 2133MHz, 128GB RAM \ (8 x 16GB RDIMM), 2133 MT/s, Dual Rank, x4 Data Width, 2 x 600GB 15K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive. QLogic 57840S 10Gb Quad Port KR Blade Network Daughter Card, Emulex LPE1205-M 8Gbps Fibre Channel I/O Card for M-Series Blades	2	ESXI 5.5 update 2,Windows Server 2003/2008/2012 R2-Enterprise x64 edition,CentOS, Ubuntu,Debian
		PowerEdge M630 Blade Server for M1000, 2 x Intel Xeon E5-2698 v3 2.3GHz,40M Cache,9.60GT/s QPI,Turbo,HT,16C/32T (135W) Max Mem 2133MHz, 2 x 600GB 15K RPM SAS 12Gbps 2.5in Hot-plug Hard Drive, 64GB RAM (4 x 16GB RDIMM), 2133 MT/s, Dual Rank, x4 Data Width, QLogic 57840S 10Gb Quad Port KR Blade Network Daughter Card, Emulex LPE1205-M 8Gbps Fibre Channel I/O Card for M-Series Blades	1	ESXI 5.5 update 2,Windows Server 2003/2008/2012 R2-Enterprise x64 edition, CentOS
		CISCO IDENTITY SERVICES ENGINE, SNS-3415-K9 (ISE Server)	1	Cisco IOS
		Cisco Prime Server, PRIME-NCS-APL-K9	1	Cisco IOS
Cisco ASA Firewall, ASA5585-S20-K9	2	Cisco IOS		
Cisco Core Switch Cisco Nexus 9300 Series-N9K-C9372PX, 48 x 1/10-Gbps SFP+ and 6 x 40-	2	Cisco IOS		

S.No.	Location	Hardware	QTY	Software
		Equipment		
		Gbps fixed QSFP+ ports,		
		Cisco Edge switches- WS-C2960X-48FPD-L	3	Cisco IOS
		Sonicwall NSA 5600 Series	1	Wan optimization
		Cisco AIR-CT5760, AIR-CT5760 (H/A)	2	Cisco IOS
		Cisco Unified Communication System,UCS-BE-6000	1	Vcenter
		Cisco Voice Gateway ,CISCO2901/K9	1	Cisco IOS
2	Computer Programming Lab (332 & 333)	IBM -LENOVO-Think Centre: Intel I7-8700,3.2GHz, 8GB RAM, 1TB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	9	Windows 10, O365
		Dell OptiPlex , Intel Core I7-4790 (Quad Core, 3.60 GHz 8 GB RAM DDR1TB SATA HDD (Total = 127), Intel Core I5 4590 (Quad Core 3.30 Ghz) 4 GB RAM DDR 500 GB SATA HDD (Total = 29) 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	80+76=156+9=165	Windows 8.1 and Windows 10, Office 365
3	Microprocessor Lab (108)	Dell OptiPlex 9020 MT Intel Core I7-4790 (Quad Core, 3.60 GHz 4 GB RAM DDR1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	30	Windows 8.1, Windows 10, MS Office 2007 and Red Hat Linux 5.0 , Ubuntu advanced platform
		IBM -LENOVO-Think Centre:Inter® Core 2 CPU 4400@ 2.00 GHz,1.99Ghz, 1GB RAM, 160GB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	2	Windows 7, MS Office 2013
4	Physics Lab (309)	HP 280 G2, Intel Core I3,6100, 3.70 GHz, 8GB RAM, 500 GB HDD	5	Windows 7 64 bit, MS Office 2013
		Dell OptiPlex 9020 MT Intel Core I7-4790 (Quad Core, 3.60 GHz 4 GB RAM DDR1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	1	Windows 10, MS Office 2016
		Dell OptiPlex 7050 MT Intel Core I7-7700 (Quad Core, 3.60 GHz 8 GB RAM DDR1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard Dell OptiPlex 7040 MT Intel Core I7-6700 (Quad Core, 3.41 GHz 8 GB RAM DDR1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	4+1=5	Windows 10, MS Office 365
		Acer M2 series intel Core 2 Duo E 7400, 2.80 GHz, 2GH RAM, 320 GB HDD	2	Windows 7 32 bit and MS office 2007
5	Instrumentation Lab (329)	Acer 5600,3.0Ghz,1GB,80 GB	5	Windows 7 32 bit and MS office 2007
		IBM -LENOVO-Think Centre:Inter® Core 2 CPU 4400@ 2.00 GHz,1.99Ghz, 1GBRAM,160GBHardDisk	1	Windows 7 32 bit and MS office 2007
		Dell OptiPlex 9020 MT, Intel Core I7-4770Quad Core, 3.40 GHz 8 GB RAM DDR, 1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	10	Windows 8.1 and Windows 10
6	Digital Electronics Lab and Analog Electronics lab (304)	HP prodesk 400G3MT, Intel Core I7 6700, 3.4Ghz, 8GB RAM, 1TB HDD,	2	Windows 8.1
7	Signal Processing and Simulation Lab (303)	Dell OptiPlex 7020 MT Intel Core I7-4770 (Quad Core, 3.40 GHz 8 GB RAM DDR 1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	20	Windows 7,10 64 bit
8	Communication Lab	ACER:Intel Core 2 CPU 2.0GHz, 1 GB RAM,	1	Windows 7, MS Office

S.No.	Location	Hardware	QTY	Software
		Equipment		
	(330)	150GB Hard Disk, DVD Writer		2007 and Matlab 19 SIMULINK-R2010a
		IBM -LENOVO-Think Centre:Inter® Intel I7-8700,3.2GHz, 16GB RAM, 256GB SSD, 1 TB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	6	
		Inter Core i5 CPU 650 @ 3.20 Ghz 2 Gb RAM 500 HDD	1	
9	Power Electronics Lab (302)	Lenovo:Intel® Core to Due - 2.8 GHz uniprocessor PC, 1GB RAM, 80GB Hard Disk, 3COM Ether Link 10/100	5	Windows XP, MS Office 2007
10	Electrical Machine (313)	Dell Optiplex 9020, Intel Core I7-4790 (Quad Core, 3.60 GHz 8 GB RAM DDR1TB GB SATA	2	Windows 8.1
11	Mechatronics Lab (MS2)	Dell Optiplex 9020, Intel Core I7-4790 (Quad Core, 3.60 GHz 8 GB RAM DDR1TB GB SATA	2	Windows 10
		Dell OptiPlex 7050, Intel Core I7-7700Quad Core 3.60 GHz 16 GB RAM DDR, 1 TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	1	Window 10, O365, MATLAB2019
		Lenovo think center intel Core 2 Duo, 2 GB RAM, 160 GB HDD	6	Windows 7, MS office 2007
12	Heat Transformation lab (MS4)	IBM -LENOVO-Think Centre:Inter® Core 2 CPU 4400@ 2.00 GHz, 1.99Ghz, 1GB RAM,160GB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	1	Windows 7, MS Office 2007
13	PMFM Lab (MG2)	ACER Veriton:Intel® Core 2Duo E7400 - 2.8GHz ACPI uniprocessor PC, 2GB RAM, 320GB Hard Disk, 3COM Ether Link 10/100	1	Windows 7, MS Office 2013
14	Chemistry Lab (306)	IBM Lenovo Think Center Intel I5 8400, 2.81 GHz,8GB RAM, 1TB HDD	1	Windows 10, MS Office 2013
15	Class Rooms	Dell Optiplex 3070 Micro form factor,I5,8GB,500GB	21	Windows 10, MS Office 2013/2016
		Lenovo Think center M 700, Intel Core I5, 4GB RAM, 500GB HDD	10	Windows 7
16	Divisions(Grading, PSP, PCP, AAR,SW,I&E)	IBM -LENOVO-ThinkCentre:Inter® Core 2 CPU 4400@ 2.00 GHz, 1.99Ghz, 1GB RAM,160GB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	5	Windows 7, MS Office 2007
		Dell Optiplex 9020,Core I5, 4590, 3.30GHz, 4GB RAM, 500GB HDD	1	Windows 8.1 MS office 2013
		Dell Optiplex 9020,Core I7, 4770, 3.30GHz, 8GB RAM, 1TB HDD	7	Windows 8.1 MS office 2013
		IBM Lenovo Think center: Intel i7 4790CPU, 3.60GHZ, 8GB RAM, 1TB HDD	1	Win 7 64 Bit
17	Library (BPDC)	LENOVO-ThinkCentreEdge :Inter® Core I3 4170@ 3.70 GHz, 3.70Ghz, 8GB RAM,500GB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	50	Windows 7, MS Office 2007
		Dell OptiPlex 9020 MT Intel Core I7-4790 (Quad Core, 3.60 GHz 4 GB RAM DDR1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	3	Windows 8.1 MS Office 2013
18	Faculty (Academic)	Dell OptiPlex 9020 MT Intel Core I7-4770 (Quad Core, 3.60 GHz 4 GB RAM DDR1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	35	Windows 8.1/Windows 10, MS Office 2013,16
		Lenovo M73 Tower Intel Core i7 3.6Ghz, RAM 8 GB, 1TB HDD	3	
		HP Laptop (Faculty and Staff),i7,8GB,1TB	33	
		HP Probook Laptop New(Faculty and Staff) i7,8GB,1TB/512 SSD/256SSD/1TB SSD	26	
19	Administration (Academic)	IBM -LENOVO-Think Centre:Inter® Core 2 CPU 4400@ 2.00 GHz,1.99Ghz, 1GB RAM,160GB	15	Windows 7, MS Office 2013

S.No.	Location	Hardware	QTY	Software
		Equipment		
		Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo		
		Lenovo M73 Tower Intel Core i7 3.6Ghz, RAM 8 GB, 1TB HDD	1	Windows 10, MS Office 2016
		Dell OptiPlex 9020 MT Intel Core I7-4770 (Quad Core, 3.60 GHz 4 GB RAM DDR1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	12	Windows 8.1 , MS office 2013
		HP Pavilion Desktop (PA to Director) Intel i5 2400, 3010GHZ, 8GB RAM and 1TB HDD	1	Windows 10
		HP Pavilion laptop,i5,4GB,320GB	10	Windows 7/Windows 10 MS office 2013
		Acer Veriton M265 / Intel Core 2 Duo E7400 2.8 GHz / 2 GB RAM / DVD R/ /Mouse / Key Board	5	Windows 7, MS Office 2007
	Director Office	iMac,21.5",i5,8GB,SSD 500	1	MAC IOS 10
20	Engineering Graphics Lab (MS5)	Dell OptiPlex 7020 MT Intel Core I5-4590 (Quad Core, 3.30 GHz 4 GB RAM DDR 500 GB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse Dell KB212-B Quiet Key USB Keyboard	80	Windows 8.1 AutoCAD 2015 CATIA V5 R6 ANSYS 2015 EASY5 2015 ESPRIT DFX Digimat VASP My Lammmps OOF2 Franc & Casca
21	Engineering Graphics Lab	Acer Veriton M265 / Intel Core 2 Duo E7400 2.8 GHz / 2 GB RAM / DVD R/WWindows Server 2008 / Mouse / Key Board	1	Mechanical Software Server
22	CAD LAB -1 (MS6)	IBM -LENOVO-Think Centre:Inter® Core 2 CPU 4400@ 2.00 GHz, 1.99Ghz, 1GB RAM,160GB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	8	Windows 7, MS Office 2007 ADAMS 2015 Aspen Automation Studio
23	CAD LAB -2 (MS6)	Dell OptiPlex 7050, Intel Core I7-7700Quad Core 3.60 GHz 16 GB RAM DDR, 1 TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	18	Windows 10 Abaqus, MATLAB 2016 PLAXIS 2D
24	CAD LAB -2	Dell OptiPlex 9020 MT, Intel Core I5-4590Quad Core, 3.60 GHz 8 GB RAM DDR, 1 TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	6	Windows 8.1
25	Chemical Lab 1 (340)	Dell OptiPlex 9020 MT Intel Core I5-4790Quad Core 3.60 GHz 8 GB RAM DDR 1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse Dell KB212-B Quiet Key USB Keyboard	4	Windows 8.1 Aspen, Mat lab
		Lenovo Think center I5,2.4Ghz, 4GB RAM, 500GB HDD	1	Windows 10
26	Biotechnology Research Lab (305)	Dell OptiPlex 9020 MT Intel Core I7-4590Quad Core 3.30 GHz 8 GB RAM DDR 1TB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse	1	Windows 8.1,Office 2016
		IBM -LENOVO-Think Centre:Inter® Core 2 CPU 4400@ 2.00 GHz, 1.99Ghz, 1GB RAM,160GB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	1	Windows 7,Office 2013
27	Chemical Lab2 (331)	Dell OptiPlex 9020 MT Intel Core I5-4590Quad Core 3.30 GHz 4 GB RAM DDR 500GB SATA HDD 16X DVD/RW Drive Dell MS 111 USB	2	Windows 8.1

S.No.	Location	Hardware	QTY	Software
		Equipment		
		Optical Mouse, Dell KB212-B Quiet Key USB Keyboard		
28	CCTV Control room	HP elite Desk+ HP Compaq8100+Dell Optiplex 9020 + Lenovo Think Center(2+3+2+1)	8	Windows 7 and Windows 8.1
29	Creative Lab (MS7)	Dell Optiplex 9020, Intel Core I7, 3.60 GHz, 8GB RAM, 1TB HDD	2	Windows 8.1
		GPU based workstation,64GB,K80 Tesla GPU,1TB SSD		Windows 10
		HP Think station, Intel Xeon E5 1620, 3.50GHz,8GB RAM, 1TB HDD.	2	Windows 8.1
30	Civil Lab	Dell OptiPlex 9020 MT Intel Core I5-4590Quad Core 3.30 GHz 8 GB RAM DDR 500GB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	1	Windows 8.1 MS Office 2016
31	IT Stock			
		HP Probook Laptop,i78565, 99GHZ, 8GBRAM, 128GBSSD, 1TB SATA HDD	4	Windows 10
		Dell OptiPlex 9020 MT Intel Core I5-4590Quad Core 3.30 GHz 8 GB RAM DDR 500GB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	1	Window 10
		HP Laptop i7 7500, 2.9GHz,6GB RAM, 1TB HDD	1	Windo 10 MS office 2013
32	Microbiology Lab (307)	IBM -LENOVO-Think Centre:Inter® Core 2 CPU 4400@ 2.00 GHz, 1.99Ghz, 1GB RAM,160GB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	2	Windows 7
33	Advanced Molecular Bio Lab (308)	IBM -LENOVO-Think Centre:Inter® Core 2 CPU 4400@ 2.00 GHz, 1.99Ghz, 1GB RAM,160GB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	1	Windows 7
34	Material Testing Lab (MF3)	IBM -LENOVO-Think Centre:Inter® Core 2 CPU 4400@ 2.00 GHz, 1.99Ghz, 1GB RAM,160GB Hard Disk, Broadcom NetLink Gigabit Ethernet Network Card, DVD Combo	3	Windows 7
		Inter Core i5 CPU 650 @ 3.20 Ghz 2 Gb RAM 500 HDD	1	Windows 7
		Dell OptiPlex 9020 MT Intel Core I5-4590Quad Core 3.30 GHz 8 GB RAM DDR 500GB SATA HDD 16X DVD/RW Drive Dell MS 111 USB Optical Mouse, Dell KB212-B Quiet Key USB Keyboard	1	Windows 10
35	Fluid Mechanics Lab (MF 4)	IBM Lenovo Think center: Intel i7 4900CPU, 3.60GHZ, 8GB RAM, 1TB HDD	1	Windows 10
36	LAB 193	HP Z4 G4 workstation,i7,16GB,1TB,2GB graphics,256 SSD	2	Windows 10

(LIST OF EQUIPMENTS PROCURED DURING THE YEAR 2019)

S.No	Name of Equipment	Used for Courses/Thesis/Dissertation Computational/Administrative Work
1.	FATIGUE TESTING MACHINE	Mechanical Engineering Laboratory
2.	ANALOG PID, ADC,DAC,PROCESS CONTROLLER ,PC BASED TUNNING CONTROLER	Communication Systems Laboratory
3.	ROBOTIC ARM MANIPULATOR	Instrumentation Systems Laboratory
4.	SCR TRAINER KIT & THYRISTORIZED RECTIFIER MODULE	Communication Systems Laboratory
5.	IOT KIT	Microprocessor Laboratory
6.	MICROSCOPE	Biotechnology Engineering Laboratory
7.	NANO DROP SPECTROPHOMETER	Biotechnology Engineering Laboratory
8.	MEASURING SYSTEMS ACCESSORIES	Biotechnology Engineering Laboratory
9.	CONDUCTIVITY METER	Chemistry Laboratory
10.	PH METER & ANALYTICAL METER	Chemistry Laboratory
11.	Vmware VSPHERE LICENSE	Data Center
12.	Veeam Backup & Replication	Data Center
13.	Microsoft Office License	Faculty / Staff
14.	WORK STATION	Creative Laboratory
15.	PC & MONITOR	General Science Laboratory
16.	CISCO IP TELEPHONE	Information Technology
17.	COMPACT SCALE	Chemical Engineering Laboratory
18.	COLORIMETER & REACTOR	Chemical Engineering Laboratory
19.	ANALOG MODULATION & DIGITAL MODULATION KIT	Communication Systems Laboratory
20.	DSP TRAINER KIT	Communication Systems Laboratory
21.	FLUIDIZED BED REACTOR	Chemical Engineering Laboratory
22.	STATIC METER	Chemical Engineering Laboratory
23.	CENTRIFUGAL BLOWER KIT	Mechanical Engineering Laboratory
24.	VCR PETROL ENGINE	Mechanical Engineering Laboratory
25.	PC & MONITOR	Mechanical Engineering Laboratory
26.	PC & MONITOR	Biotechnology Engineering Laboratory
27.	FILABOT - PLASTIC EXTRUSION MACHINE	Mechanical Engineering Laboratory
28.	ROBOTIC KIT	Mechanical Engineering Laboratory
29.	MEMBRANE FILTRATION UNIT	Chemical Engineering Laboratory
30.	DESKTOP & MONITOR	Communication Systems Laboratory
31.	SATELLITE COMMUNICATION KIT	Communication Systems Laboratory
32.	EBULLIOMETER	Chemical Engineering Laboratory
33.	PACKED COLUMN INJECTOR	Biotechnology Engineering Laboratory
34.	PROJECTORS	Information Technology
35.	CONSERVATION OF MOMENTUM	Physics Laboratory

S.No	Name of Equipment	Used for Courses/Thesis/Dissertation Computational/Administrative Work
36.	DESKTOP & MONITOR	Information Technology
37.	DESKTOP & MONITOR	Information Technology
38.	THERMAL GRAVIMETRIC ANALYZER & DIFFERENTIAL SCANNING CALORIMETER	Biotechnology/ Mechanical & Chemical Engineering Laboratory
39.	LAPTOPS	Information Technology
40.	AMPLIFIER FOR BELL SYSTEM	Information Technology
41.	INTERACTIVE SCREEN	Information Technology
42.	HOBO WEATHER STATION KIT	Civil Engineering Laboratory
43.	CNC ROUTER – DOUBLE HEAD	Mechanical Engineering Laboratory
44.	3D SLS PRINTER	Mechanical Engineering Laboratory
45.	DIGITAL OSCILLOSCOPE & RADAR COMMUNICATION TRAINER KIT FOR COMMUNICATION LAB	Instrumentation Laboratory
46.	INSTRUMENTATION AMPLIFIER	Instrumentation Laboratory
47.	HUMIDITY & TEMPERATURE LINEAR KIT FOR INSTRUMENTATION LAB	Instrumentation Laboratory
48.	EDIBON DATA ACQUISITION SYSTEM/VIRTUAL INSTRUMENTATION SYSTEM	Communication Systems Laboratory
49.	DESKTOP WITH MONITOR	Computer Science Laboratory
50.	CCTV CAMERA & NVR	Information Technology
51.	MANUAL VACCUM CONTROLLER	Biotechnology Engineering Laboratory
52.	DESKTOP WITH MONITOR	Computer Science Laboratory
53.	CISCO IP TELEPHONE	Information Technology
54.	ORBITAL SHAKER	Biotechnology Engineering Laboratory
55.	DNA AGAROSE GEL ELECTROPHORESIS	Biotechnology Engineering Laboratory
56.	PLANT GROWTH CHAMBER	Biotechnology Engineering Laboratory

BITS Pilani

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Part B5: Work Integrated Learning Programmes

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WORK INTEGRATED LEARNING PROGRAMMES

B5.1 SENIOR OFFICERS OF THE WORK INTEGRATED LEARNING PROGRAMMES

1. Director (Off-Campus Programmes & Industry Engagement)
2. Dean
3. Associate Deans
4. Chief Operations Officer
5. Deputy General Manager, Operations

B5.2 HISTORY

Since 1979, the Institute has been participating in the human resources development activities of the industries by evolving several degree programmes that integrate the working environment of the employees with the learning environment required by the Institute. These programmes are offered in several domains like Information Technology, Engineering Technology and Management.

The Institute conducts Work Integrated Learning Programmes (WILP) as a means of continuing education for employed professionals to meet the Learning & Development needs of a diverse spectrum of industries. These programmes are conducted through a collaborative partnership between BITS Pilani and the organization / industry, to build technical competencies and enable advancement of workplace skills. In a world of rapidly evolving technologies, these programmes represent a successful model to meet the consequent need for continuous education and up-skilling of the workforce.

Over the past three decades, these programmes have grown manifold, meeting the requirements of over 4000 organizations. At present, over 22,000 employed professionals are pursuing various degree programmes through WILP.

B5.3 SALIENT FEATURES

In line with the educational philosophy of the Institute of integrating theory with practice, the student's own work environment provides an ideal ground for a meaningful combination of the two through assignments, case studies, work experience, and projects. The interplay of work or practice and education is ensured since students are admitted only to a programme that is in line with their work profiles, and with the endorsement and active support of the employer.

The programmes are industry focused, with highly contemporary and relevant curriculum, and the individual courses are taught at the same level of rigor as in programmes on the campus. Instruction is delivered at the workplace, using a judicious combination of asynchronous electronic means, and synchronous, faculty-led classes conducted either physically or through the use of technology. Extensive use is made of virtual laboratories, remote laboratories, simulations, case studies, assignments and projects drawn from the workplace for enhanced experiential learning

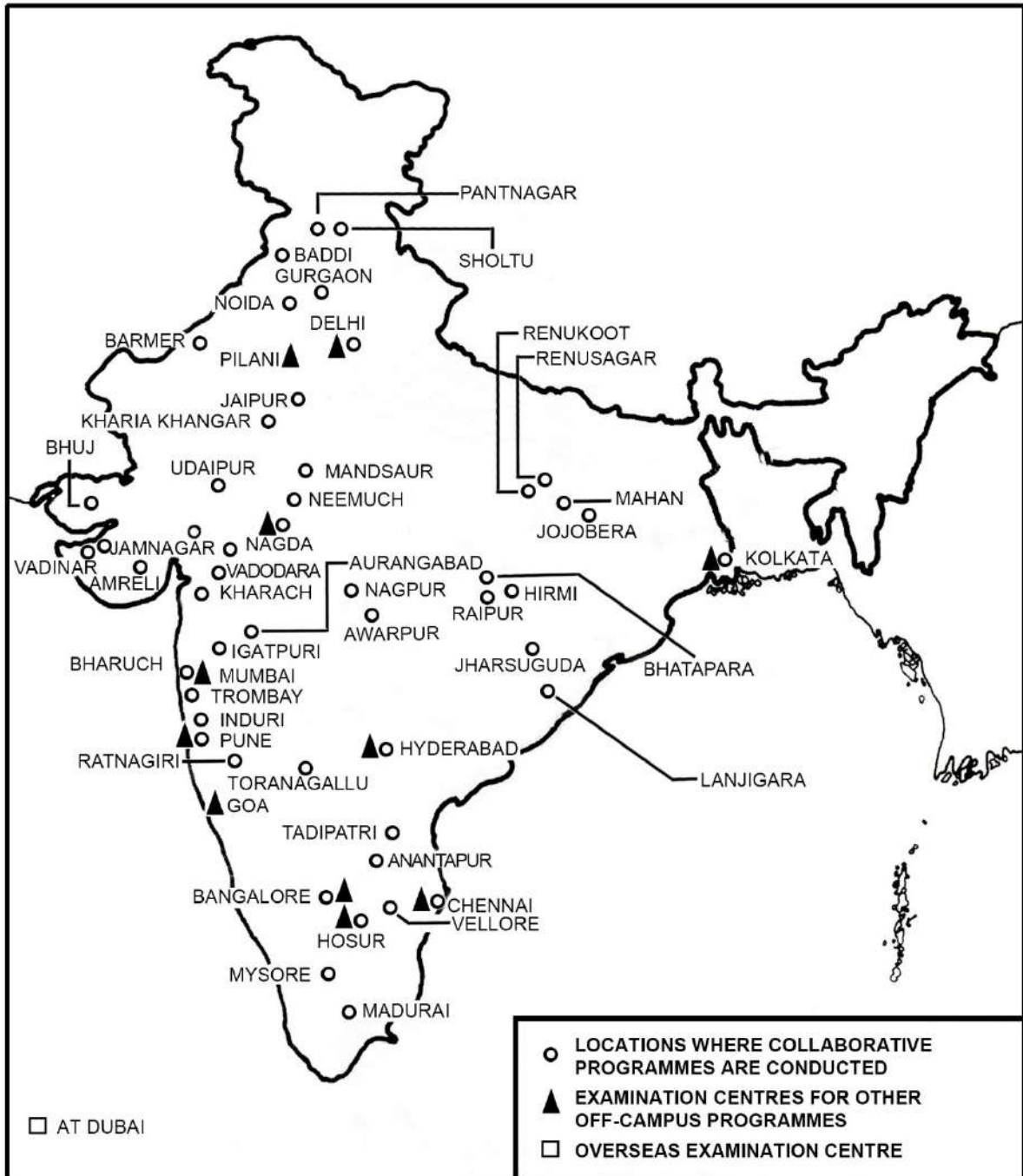
B5.4 PROGRAMMES OFFERED**Currently Operative Work Integrated Learning Programmes**

Programmes	Collaborating / Sponsoring Organization
B.Tech. Programmes	
1. Engineering Design	- Designed for the HRD needs of a diverse spectrum of Engineering Industries
2. Engineering Technology	- Designed for the HRD needs of a diverse spectrum of Engineering Industries and John Deere, Tata Motors, Pune
3. Information Systems	- Designed for the HRD needs of a diverse spectrum of IT Industries and Wipro Bangalore
4. Manufacturing Technology	- Kirloskar Oil Engines, Kolhapur, Bharat Forge, Pune, Tata Motors, Jamshedpur; TACO, Pune; Maruti Suzuki, Gurgaon; Mahindra Motor Vehicles; Cummins, Pune, GE Diesel Locomotive, Delhi
5. Power Engineering	- Aditya Birla Group, Tata Power, JSW Energy – Mumbai
6. Process Engineering	- Aditya Birla Group, Mumbai; JSW Steel, Toranagallu; Vedanta, Jharsuguda; BPCL, Tata Power, Mumbai
B.Sc. Programmes	
1. Design & Computing	HCL, Noida, Chennai Lucknow
M.Sc. Programme	
1. Business Analytics	- Designed for the HRD needs of a diverse spectrum of IT Industries
2. Information Systems	- Designed for the HRD needs of a diverse spectrum of IT Industries
M.B.A. Programmes	
1. Consultancy Management	- Designed for the HRD needs of a diverse spectrum of consulting firms
2. Finance	- Designed for the HRD needs of business organizations
3. Hospital and Health Systems Management	- Designed for the HRD needs of a diverse spectrum of Hospitals and Healthcare organizations
4. Manufacturing Management	- Designed for the HRD needs of a diverse spectrum of Engineering Industries
5. Quality Management	- Designed for the HRD needs of a diverse spectrum of Engineering Industries
M.Tech. Programmes	
1. Automotive Engineering	- Tata Technologies, Tata Motors, Cummins, Pune; Mercedes Benz; Aptive, MBRDI, Bangalore
2. Computing Systems & Infrastructure	- Designed for the HRD needs of a diverse spectrum of IT Industries, VMWare, Wipro, Bangalore
3. Data Science & Engineering	- Designed for the HRD requirements of a diverse spectrum of IT Industries, Avaya, Pune, Intuit, Wipro, BFL Bangalore, HCL

Programmes	Collaborating / Sponsoring Organization
4. Design Engineering	- Designed for the HRD needs of a diverse spectrum of Engineering Industries, SKF and John Deere, Pune
5. Embedded Systems	- Designed for the HRD needs of a diverse spectrum of IT Industries, Cisco, Bangalore; UTC Bangalore and Hyderabad.
6. Environmental Engineering	- Goa Pollution Control Board, Goa
7. Manufacturing Management	- Designed for the HRD needs of a diverse spectrum of Engineering Industries
8. Microelectronics	- Designed for the HRD needs of a diverse spectrum of IT Industries; Synopsys, Bangalore; Samsung, Gurgaon, Aricent Bangalore and Gurgaon
9. Pharmaceutical Operations and Management	- Designed for the HRD needs of a diverse spectrum of Pharmaceutical Industries, and Sun Pharmaceutical Industries, Vadodara; Lupin, Mumbai
10. Quality Management	- Designed for the HRD needs of a diverse spectrum of Engineering Industries
11. Software Engineering	- Wipro Technologies, Dell, SAP Labs, Sabre, EMC, Oracle, Lowe's Services, Bangalore; Avaya, Tech Mahindra, Pune; Capgemini; Qualcomm, Hyderabad
12. Software Systems	- Designed for the HRD requirements of a diverse spectrum of IT Industries; Wipro Technologies, Bangalore; TCS, Hyderabad; Cisco, Synopsys, Bangalore; Samsung, Gurgaon; Aricent, Bangalore and Gurgaon
13. Systems Engineering	- Wipro Infotech, Bangalore
14. Telecommunications & Software Engineering	- Designed for the HRD needs of a diverse spectrum of Telecomm Industries
15. Transportation Engineering	- PWD, Goa
Post Graduate Diploma Programmes	
1. Finance	Designed for the HRD needs of Business organizations
2. Manufacturing Management	- Designed for the HRD needs of Manufacturing organizations
Post Graduate Certificate Programmes	
1. Big Data Engineering	- Designed for the HRD needs of IT industries
2. General Management	- Designed for the HRD needs of Engineering industries
3. Internet of Things	- Designed for the HRD needs of IT industries
4. Manufacturing Practice	- Designed for the HRD needs of Manufacturing organizations
Certificate Programmes	
1. Manufacturing Practice	- Designed for the HRD needs of Manufacturing organizations
2. General Management	- Designed for the HRD needs of Engineering industries

B5.5 MAP OF BITS WORK INTEGRATED LEARNING & COLLABORATIVE PROGRAMMES 2018

MAP OF BITS WORK INTEGRATED LEARNING & COLLABORATIVE PROGRAMMES 2019



B5.6 ADMISSIONS

The number of students admitted in each of the semester is given below.

	Certificate & Diploma Programmes	Integrated First Degree Programmes	Higher Degree Programmes	Total
Second Semester 2018-2019	376(075)	457(43)	3264(1081)	4097(1199)
First Semester 2019-2020	505(100)	649(73)	3145(0637)	4299(0810)

The programme-wise details are given in **Annexure 1 (Part B5)**.

B5.7 REGISTRATION OF STUDENTS

The registration processes for both the semesters was completed on the first day of each semester.

Semester	Number of students registered
Second Semester 2018-2019	18123
First Semester 2019-2020	18558

Details of Registration of students for the First Semester 2019-2020 are given in **Annexure 2 (Part B5)**.

B5.8 GEOGRAPHICAL DISTRIBUTION OF STUDENTS REGISTERED IN FIRST SEMESTER 2019-2020**(A) INDIA**

State	No. of students		
	Specific	Non Specific	Total
Andhra Pradesh	614	365	979
Assam	-	23	23
Bihar	-	62	62
Chandigarh	-	62	62
Chattisgarh	-	39	39
Dadra & Nagar Haveli	-	1	1
Delhi	228	305	533
Goa	-	44	44
Gujarat	99	85	184
Haryana	132	277	409
Himachal Pradesh	-	28	28
Jammu & Kashmir	-	11	11
Jharkand	65	39	104
Karnataka	6651	1680	8331
Kerala	105	150	255
Madhya Pradesh	-	59	59
Maharashtra	1378	1188	2566
Meghalaya	-	2	2
Mizoram	-	4	4

State	No. of students		
	Specific	Non Specific	Total
Nagaland	-	2	2
Orissa	-	5	5
Pondicherry	-	20	20
Punjab	-	52	52
Rajasthan		215	215
Tamil Nadu	502	1886	2388
Telangana	490	740	1230
Uttar Pradesh	66	134	200
Uttarakhand	-	35	35
West Bengal	94	146	240
Total	10424	7659	18083

(B) Foreign

Country	No. of students		
	Specific	Non Specific	Total
Australia	-	8	8
Canada	-	25	25
China	-	1	1
France	-	10	10
Saudi Arabia	-	83	83
Kuwait	-	42	42
Hongkong	-	4	4
Malaysia	3	9	12
Oman	-	36	36
Qatar	-	52	52
Russia	-	3	3
Singapore	-	15	15
UAE	-	184	184
Total	3	472	475
Grand Total	10427	8131	18558

B5.9 SPONSORING ORGANIZATIONS

During the year, 6430 organizations have sponsored their employees for Work Integrated Learning Programmes. List of the organizations are given in **Annexure 'B5-3'**.

B5.10 ACADEMIC CALENDAR

For the year 2019, Second Semester 2018-2019 started on 12-01-2019 and ended on 13-05-2019, while First Semester 2019-2020 started on 20-07-2019 and ended on 02-12-2019 for all programmes except the following:

Second Semester 2018-2019

Degree	Programme Name	Organization	Location	Start Date	End Date
B.Sc.	DESIGN & COMPUTING	HCL	Noida / Chennai / Lucknow / Madurai	27-04-19	05-10-19
B.Tech.	Engineering Technology	JOHN DEERE	Pune	12-01-19	13-05-19
B.Tech.	Engineering Technology	TATA MOTORS	Pune	22-04-19	15-09-19
B.Tech.	Information Systems	WIPRO	Bangalore	30-03-19	01-09-19
B.Tech.	Manufacturing Technology	BHARAT FORGE	Pune	10-02-19	21-07-19
B.Tech.	Manufacturing Technology	CUMMINS	Pune	21-01-19	28-05-19
B.Tech.	Manufacturing Technology	MAHINDRA VEHICLE	PUNE	14-04-19	09-08-19
B.Tech.	Manufacturing Technology	MARUTI SUZUKI	GURGAON	19-05-19	03-11-19
B.Tech.	Manufacturing Technology	MARUTI SUZUKI	GURGAON	07-04-19	09-08-19
B.Tech.	Manufacturing Technology	TATA AUTOCOMP SYSTEMS	Jamshedpur	20-07-19	24-12-19
B.Tech.	Manufacturing Technology	TATA AUTOCOMP SYSTEMS	PUNE / PANTHNAGAR	14-04-19	11-09-19
B.Tech.	Manufacturing Technology	TATA AUTOCOMP SYSTEMS	Pune	20-07-19	24-12-19
B.Tech.	Manufacturing Technology	TATA MOTORS	Jamshedpur	07-04-19	29-09-19
B.Tech.	Manufacturing Technology	TATA MOTORS	Pune / PanthNagar	14-04-19	11-09-19
B.Tech.	Manufacturing Technology	TATA MOTORS	Pune	20-07-19	24-12-19
B.Tech.	POWER ENGINEERING	ABG CEMENT BUSINESS	MUMBAI	12-01-19	13-05-19
B.Tech.	Power Engineering	JSW Energy	Mumbai	12-01-19	13-05-19
B.Tech.	Power Engineering	TATA POWER	Mumbai	12-01-19	13-05-19
B.Tech.	Process Engineering	BPCL	MUMBAI	26-10-19	24-03-20
B.Tech.	Process Engineering	JSW STEEL	Torangallu	11-11-18	09-04-19
B.Tech.	Process Engineering	JSW STEEL	Torangallu	14-10-18	24-03-19
B.Tech.	Process Engineering	JSW STEEL	Torangallu	09-12-18	19-05-19
B.Tech.	Process Engineering	JSW STEEL	Torangallu	27-01-19	09-07-19
B.Tech.	Process Engineering	VEDANTA ALUMINIUM, GRASIM, ULTRATECH	MUMBAI	12-01-19	13-05-19
M.Tech.	Automotive Engineering	CUMMINS	PUNE	20-04-19	07-09-19
M.Tech.	Automotive Engineering	MBRDI	Bangalore	13-04-19	14-09-19
M.Tech.	Automotive Engineering	TATA MOTORS	Pune	22-04-19	15-09-19
M.Tech.	Computing Systems and Infrastructure	VMWare	Bangalore	21-04-19	20-10-19
M.Tech.	Computing Systems and Infrastructure	WIPRO TECHNOLOGIES	Bangalore	30-03-19	01-09-19
M.Tech.	COMPUTING SYSTEMS AND INFRASTRUCTURE	WIPRO TECHNOLOGIES	Bangalore	30-03-19	01-09-19

Degree	Programme Name	Organization	Location	Start Date	End Date
M.Tech.	DATA SCIENCE & ENGINEERING	AVAYA	Pune	27-04-19	22-09-19
M.Tech.	Data Science & Engineering	CLUSTER	BANGALORE	21-04-19	29-09-19
M.Tech.	Data Science & Engineering	CLUSTER	DELHI	21-04-19	29-09-19
M.Tech.	Data Science & Engineering	CLUSTER	HYDERABAD	21-04-19	29-09-19
M.Tech.	DATA SCIENCE & ENGINEERING	CLUSTER	Pune	01-06-19	17-11-19
M.Tech.	DATA SCIENCE & ENGINEERING	CLUSTER	Hyderabad	01-06-19	17-11-19
M.Tech.	DATA SCIENCE & ENGINEERING	CLUSTER	CHENNAI	01-06-19	17-11-19
M.Tech.	DATA SCIENCE & ENGINEERING	CLUSTER	Bangalore	01-06-19	17-11-19
M.Tech.	DATA SCIENCE & ENGINEERING	CLUSTER	DELHI	01-06-19	17-11-19
M.Tech.	DATA SCIENCE & ENGINEERING	INTUIT	Bangalore	21-04-19	22-09-19
M.Tech.	Design Engineering	CLUSTER	BANGALORE	06-02-19	27-10-19
M.Tech.	Design Engineering	CLUSTER	CHENNAI	28-04-19	28-09-19
M.Tech.	Design Engineering	CLUSTER	Pune	19-08-19	08-12-19
M.Tech.	DESIGN ENGINEERING	CLUSTER	Pune	06-01-19	22-06-19
M.Tech.	Design Engineering	CLUSTER PUNE	PUNE	06-01-19	23-06-19
M.Tech.	Design Engineering	CLUSTER PUNE	PUNE	21-04-19	22-09-19
M.Tech.	Embedded Systems	CLUSTER	PUNE	21-02-19	22-06-19
M.Tech.	Embedded Systems	CLUSTER	PUNE	20-04-19	21-09-19
M.Tech.	Embedded Systems	ONLINE CLUSTER	Bangalore	13-07-19	14-12-19
M.Tech.	Embedded Systems	UTC	Bangalore	02-02-19	13-07-19
M.Tech.	Environmental Engineering	GSPCB	GOA	18-02-19	20-06-19
M.Tech.	Microelectronics	ARICENT	Bangalore	05-01-19	06-07-19
M.Tech.	Microelectronics	SYNOPSYS	Bangalore	04-04-19	30-08-19
M.Tech.	Pharmaceutical Operations & Management	CLUSTER	Delhi	25-05-19	11-10-19
M.Tech.	Pharmaceutical Operations & Management	LUPIN	Mumbai	21-01-19	12-05-19
M.Tech.	Pharmaceutical Operations & Management	SUNPHARMA	Halol	08-04-19	12-08-19
M.Tech.	Pharmaceutical Operations & Management	SUNPHARMA	Pune	25-05-19	11-10-19
M.Tech.	Software Engineering	EMC Bangalore	Bangalore	10-05-19	22-09-19
M.Tech.	Software Engineering	LOWES	Bangalore	11-05-19	30-09-19
M.Tech.	Software Engineering	SAP LABS	Bangalore	02-02-19	13-07-19
M.Tech.	Software Engineering	SAP LABS	Bangalore	02-02-19	13-07-19
M.Tech.	Software Engineering	VERIZON DATA SERVICES	Chennai	03-08-19	21-12-19

Degree	Programme Name	Organization	Location	Start Date	End Date
M.Tech.	Software Engineering	WIPRO TECHNOLOGIES	Bangalore	30-03-19	01-09-19
M.Tech.	SOFTWARE ENGINEERING	WIPRO TECHNOLOGIES	Bangalore	30-03-19	01-09-19
M.Tech.	Software Systems	ARICENT	Gurgaon	25-05-19	11-10-19
M.Tech.	Software Systems	CISCO	BANGALORE	13-04-19	28-09-19
M.Tech.	Software Systems	MBRDI	Bangalore	13-04-19	21-09-19
M.Tech.	Software Systems	SAMSUNG	NOIDA	26-04-19	29-09-19
M.Tech.	Software Systems	SAMSUNG	NOIDA	18-01-19	30-06-19
M.Tech.	Software Systems	SYNOPSYS	Bangalore	04-04-19	30-08-19
M.Tech.	Software Systems	Tata Consultancy Services	Hyderabad / Mumbai / Delhi	21-04-19	22-09-19
M.Tech.	Software Systems	UTC	Hyderabad	19-01-19	18-05-19
M.Tech.	SYSTEMS ENGINEERING	WIPRO INFOTECH	Bangalore	30-03-19	01-09-19
M.Tech.	Systems Engineering	Wipro WIMS	Bangalore	26-04-19	22-09-19

First Semester 2019-2020

Degree	Programme Name	Organization	Location	Start Date	End Date
B.Sc.	Design & Computing	HCL	Noida / Chennai / Lucknow / Madurai	02-11-19	28-03-20
B.Sc.	Pharmaceutical Sciences	Dr. Reddy's Labs	Hyderabad	11-11-19	28-03-19
B.Tech.	Engineering Technology	John Deere	Pune	07-07-19	15-12-19
B.Tech.	Engineering Technology	Tata Motors	Pune	04-11-19	22-03-20
B.Tech.	Information Systems	Wipro	Bangalore	05-10-19	08-03-20
B.Tech.	Manufacturing Technology	Bharat Forge	Pune	25-08-19	22-01-20
B.Tech.	Manufacturing Technology	Cummins	Pune	15-07-19	19-11-19
B.Tech.	Manufacturing Technology	GE Diesel Locomotive	Delhi	10-11-19	23-04-20
B.Tech.	Manufacturing Technology	Mahindra Vehicle	Pune	13-10-19	23-02-20
B.Tech.	Manufacturing Technology	Maruti Suzuki India	Gurgaon	02-11-19	12-04-20
B.Tech.	Manufacturing Technology	Maruti Suzuki India	Gurgaon	25-08-19	01-03-20
B.Tech.	Manufacturing Technology	Tata Autocomp Systems	Pune/ Panthnagar	13-10-19	05-04-20
B.Tech.	Manufacturing Technology	Tata Motors	Jamshedpur	13-10-19	31-03-20
B.Tech.	Manufacturing Technology	Tata Motors	Pune/ Panthnagar	13-10-19	05-04-20
B.Tech.	Power Engineering	ABG Cement Business	Mumbai	20-07-19	01-12-19
B.Tech.	Power Engineering	Tata Power	Mumbai	20-07-19	01-12-19
B.Tech.	Process Engineering	BPCL	Mumbai	20-03-20	20-07-20
B.Tech.	Process Engineering	JSW Steel	Torangallu	24-03-19	18-08-19
B.Tech.	Process Engineering	JSW Steel	Torangallu	19-05-19	13-10-19
B.Tech.	Process Engineering	JSW Steel	Torangallu	07-07-19	01-12-19
B.Tech.	Process Engineering	Vedanta Aluminium, Grasim, Ultratech	Mumbai	20-07-19	01-12-19

Degree	Programme Name	Organization	Location	Start Date	End Date
M.Tech.	Automotive Electronics	Aptive	Bangalore	30-11-19	02-05-20
M.Tech.	Automotive Electronics	Cluster	Chennai	24-11-19	26-04-20
M.Tech.	Automotive Engineering	Cummins	Pune	12-10-19	21-03-20
M.Tech.	Automotive Engineering	Mercedes Benz	Bangalore	12-10-19	14-03-20
M.Tech.	Automotive Engineering	Tata Motors, Pune	Pune	22-10-19	15-03-20
M.Tech.	Computing Systems And Infrastructure	Wipro Technologies	Bangalore	05-10-19	08-03-20
M.Tech.	Computing Systems And Infrastructure	Wipro Technologies	Bangalore	05-10-19	08-03-20
M.Tech.	Computing Systems And Infrastructure	Wipro Technologies	Bangalore	05-10-19	08-03-20
M.Tech.	Data Science & Engineering	Avaya	Pune	20-10-19	05-04-20
M.Tech.	Data Science & Engineering	Bel	Bangalore	02-11-19	21-03-20
M.Tech.	Data Science & Engineering	Cluster	Pune	05-01-20	06-06-20
M.Tech.	Data Science & Engineering	Cluster	Hyderabad	19-10-19	05-04-20
M.Tech.	Data Science & Engineering	Cluster	Hyderabad	05-01-20	06-06-20
M.Tech.	Data Science & Engineering	Cluster	Chennai	05-01-20	06-06-20
M.Tech.	Data Science & Engineering	Cluster	Bangalore	19-10-19	05-04-20
M.Tech.	Data Science & Engineering	Cluster	Bangalore	05-01-20	06-06-20
M.Tech.	Data Science & Engineering	Cluster	Delhi	19-10-19	05-04-20
M.Tech.	Data Science & Engineering	Cluster	Delhi	05-01-20	06-06-20
M.Tech.	Data Science & Engineering	Cluster	Bangalore	19-10-19	05-04-20
M.Tech.	Data Science & Engineering	Cluster	Chennai	19-10-19	05-04-20
M.Tech.	Data Science & Engineering	Cluster	Delhi	19-10-19	05-04-20
M.Tech.	Data Science & Engineering	Cluster	Hyderabad	19-10-19	05-04-20
M.Tech.	Data Science & Engineering	Intuit	Bangalore	19-10-19	22-03-20
M.Tech.	Data Science & Engineering	Cluster	Pune	19-10-19	05-04-20
M.Tech.	Data Science & Engineering	Wipro Technologies	Bangalore	09-11-19	12-04-20
M.Tech.	Design Engineering	Cluster	Chennai	03-11-19	15-04-20
M.Tech.	Design Engineering	Cluster	Chennai	03-11-19	15-04-20
M.Tech.	Design Engineering	Cluster	Bangalore	03-11-19	02-06-20
M.Tech.	Design Engineering	Cluster	Pune	20-10-19	15-04-20
M.Tech.	Design Engineering	Cluster	Pune	21-07-19	05-01-20
M.Tech.	Design Engineering	Cluster	Pune	15-12-19	07-06-20
M.Tech.	Embedded Systems	Aerospace Systems	Bangalore	13-07-19	04-01-20
M.Tech.	Embedded Systems	Cluster	Pune	19-10-19	14-03-20
M.Tech.	Environmental Engineering	Goa State Pollution Control Board	Goa	01-10-19	31-01-20
M.Tech.	Microelectronics	Aricent	Bangalore	13-07-19	28-12-19
M.Tech.	Pharmaceutical Operations & Management	Lupin Ltd	Mumbai	22-07-19	17-11-19

Degree	Programme Name	Organization	Location	Start Date	End Date
M.Tech.	Software Engineering	EMC Bangalore	Bangalore	19-10-19	16-02-20
M.Tech.	Software Engineering	Sap Labs	Bangalore	10-08-19	05-01-20
M.Tech.	Software Engineering	Sap Labs	Bangalore	10-08-19	05-01-20
M.Tech.	Software Engineering	Verizon Data Services	Chennai	12-01-20	12-06-20
M.Tech.	Software Engineering	Verizon Data Services	Chennai	10-08-19	22-12-19
M.Tech.	Software Engineering	Wipro Technologies	Bangalore	05-10-19	08-03-20
M.Tech.	Software Systems	ATMECS	Bangalore	16-11-19	11-04-20
M.Tech.	Software Systems	CISCO	Bangalore	19-10-19	21-03-20
M.Tech.	Software Systems	Mercedes Benz	Bangalore	19-10-19	21-03-20
M.Tech.	Software Systems	Samsung, Noida	Noida	06-09-19	01-03-20
M.Tech.	Software Systems	Tata Consultancy Services	Delhi / Hyderabad	02-11-19	15-04-20
M.Tech.	Systems Engineering	Wipro Infotech	Bangalore	13-10-19	22-03-20
M.Tech.	Systems Engineering	Wipro Technologies	Bangalore	13-10-19	22-03-20

B5.11 COURSES OFFERED

The number of courses, offered during the year 2019 is as follows:

	Number of Courses offered
Second Semester 2018-2019	743
First Semester 2019-2020	680

B5.12 NEW COURSES INTRODUCED

The new courses introduced during the year 2019 are given below:

S.No.	Course No.	Course Title
1.	AE* ZG517	Automotive Systems Engineering
2.	AE* ZG510	Automotive Control Systems
3.	AE* ZG518	Electric and Hybrid Vehicles
4.	AE* ZG519	Automotive Security
5.	AE* ZG522	Advanced Vehicle Acoustics
6.	MM* ZG539	Six Sigma
7.	DSE* ZG565	Machine Learning
8.	CBDA ZG511	The Hadoop Framework
9.	CBDA ZG521	ETL & Batch Processing with Hadoop
10.	CBDA ZG531	Big Data Analytics with Spark
11.	CBDA ZG541	Capstone Project
12.	DSE* ZG555	Data visualization and Interpretation
13.	DSE* ZG556	Stream Processing and Analytics
14.	DSE* ZG557	Artificial and Computational Intelligence
15.	DM ZG521	Design for Additive Manufacturing

S.No.	Course No.	Course Title
16.	DM ZG531	High Precision Manufacturing
17.	DM ZG622	Industrial IoT
18.	DM ZG631	Additive Manufacturing Process
19.	DM ZG522	Behavioral Operations
20.	DM ZG532	Big Data Analytics in Manufacturing
21.	DM ZG535	Cyber Security in Manufacturing
22.	PS* ZC222	Pharmaceutical Quality & GMP
23.	PS* ZC223	Fundamentals of Biochemistry and Microbiology
24.	PS* ZC231	Physical and Inorganic Chemistry
25.	PS* ZC234	Techniques in Pharmaceutical Analysis
26.	PS* ZC311	Pharmaceutical Unit Operations – I
27.	PS* ZC312	Pharmaceutical Unit Operations – II
28.	PS* ZC314	Pharmaceutical Jurisprudence in India
29.	PS* ZC331	Pharmaceutical Formulations – I
30.	PS* ZC332	Pharmaceutical Formulations – II
31.	PS* ZC341	Drug Discovery and Action
32.	PS* ZC213	Scale-up of Pharmaceutical Operations
33.	PS* ZC232	Chemistry of Synthetic Drugs
34.	PS* ZC323	Sterile Pharmaceutical Products
35.	PS* ZC324	Name Reactions in Chemical Synthesis
36.	PS* ZC229T	Project
37.	PS* ZC499T	Capstone Project
38.	AEL* ZC442	Advanced Driver Assistance Systems
39.	AEL* ZG513	Automotive Communication Systems
40.	AEL* ZG533	Autotronics
41.	AEL* ZG534	Automotive Networking
42.	AEL* ZC443	Connected Cars
43.	AEL* ZG514	Robust and Intelligent Systems Design
44.	AEL* ZG621	Safety Critical Advanced Automotive Systems
45.	AEL* ZG631	Automotive Diagnostics and Interfaces

B5.13 LIVE INTERACTIVE LECTURE SESSIONS

For the WILP courses offered during II Semester 2018-2019 and I Semester 2019-2020 for the B.Tech. Engineering Technology, B.Tech. Information Systems, B.Tech. Manufacturing Technology, B.Tech. Process Engineering, B.Tech. Power Engineering, MSc. Business Analytics, M.Sc. Information Systems, MBA Consultancy Management, MBA Finance, MBA Hospital & Health Systems Management, MBA Manufacturing Management, MBA Quality Management, M.Tech. Computing Systems & Infrastructure, M.Tech. Microelectronics, M.Tech. Software Systems, M.Tech. Manufacturing Management, M.Tech. Embedded Systems degree programmes, live interactive online lecture sessions were delivered through Internet Based Desktop Video Conferencing systems using Cisco WebEx technology. The video lectures were also recorded and made available on-demand. The students and faculty could also interact asynchronously and share learning resources through an online Learning Management System named Taxila, based on Moodle technology.

Second Semester 2018-2019

S.NO	Course No.	Course Title
1	AAOC ZC111	PROBABILITY & STATISTICS
2	BA ZC412	MODELS & APP IN OPER RESEARCH
3	BA ZC413	INTRO TO STATISTICAL METHODS
4	BA ZC414	OPTIMIZATION METHODS FOR ANALYTICS
5	BA ZC415	ANALYTICS FOR COMPETITIVE ADVANTAGE
6	BA ZC417	FINANCIAL RISK ANALYTICS
7	BA ZC418	ADVANCED FINANCIAL MODELLING
8	BA ZC421	MARKETING MODELS
9	BA ZC423	RETAIL ANALYTICS
10	BA ZC425	HR ANALYTICS
11	BA ZC426	REAL TIME ANALYTICS
12	BA ZC471/ BITS ZC471 / HHSM ZC471 /POM ZC471 / POMSS ZC471	MANAGEMENT INFORMATION SYSTEMS
13	BA ZG512	PREDICTIVE ANALYTICS
14	BA ZG521/ MBA ZG521 /POM ZG513/ FIN ZG521	FINANCIAL MANAGEMENT
15	BA ZG522	BUSINESS DATA MINING
16	BA ZG523/ CSI ZG523	INTRODUCTION TO DATA SCIENCE
17	BA ZG524	ADVANCED STATISTICAL METHODS
18	BA ZG525	BIG DATA ANALYTICS
19	BA ZG621/ MBA ZG621 / MM ZG621/ POM ZG621	SUPPLY CHAIN MANAGEMENT
20	BITS ZG553/ ES ZG553 /MEL ZG553	REAL TIME SYSTEMS
21	CSI ZG522	DESIGN AND OPERATION OF DATA CENTERS
22	CSI ZG526	WEB TECHNOLOGIES
23	CSZG525/CSIZG525/ESZG526	ADVANCED COMPUTER NETWORKS
24	DE ZG513	FINITE ELEMENT METHODS
25	DE ZG520	WORLD CLASS MANUFACTURING
26	DE ZG526	ADVANCED COMPOSITES
27	DE ZG535	ADVANCED ENGINEERING MATHEMATICS
28	DE ZG541/MM ZG541	PRODUCT DESIGN
29	DE ZG561 / ES ZG561	MECHANISMS & ROBOTICS
30	DE ZG611	DYNAMICS AND VIBRATIONS
31	DE ZG622	COMPUTER AIDED ANALYSIS & DESIGN
32	DE ZG631	MATERIALS TECHNOLOGY & TESTING
33	EA ZC412/ MM ZC412	FLEXIBLE MANUFACTURING SYSTEMS
34	EA ZC451	INTERNETWORKING TECHNOLOGIES
35	EEE ZG512/ ES ZG512	EMBEDDED SYSTEM DESIGN
36	EEE ZG571 /ES ZG571	OPTICAL COMMUNICATION
37	ENGG ZC112 / PE ZC112	ELECTRICAL & ELECTRONIC TECHNOLOGY
38	ENGG ZC232/ PE ZC234	ENGINEERING MATERIALS
39	ENGG ZC242	MAINTENANCE & SAFETY
40	ENGG ZC243	MECHANICAL TECHNOLOGY
41	ES ZC263	DIGITAL ELECT & MICROPROCESSOR
42	ES ZG523/ MM ZG523 / QM ZG523 /HHSM ZG519/MBA ZG523	PROJECT MANAGEMENT

S.NO	Course No.	Course Title
43	ES ZG554	RECONFIGURABLE COMPUTING
44	ES ZG573 / EEE ZG573	DIGITAL SIGNAL PROCESSING
45	ES ZG642 / MEL ZG642	VLSI ARCHITECTURES
46	ET ZC235	MANUFACTURING PROCESSES
47	ET ZC323	MECHATRONICS & AUTOMATION
48	ET ZC343	MATERIALS MANAGEMENT
49	ET ZC344	INSTRUMENTATION & CONTROL
50	ET ZC353	ENERGY MANAGEMENT
51	ET ZC362	ENVIRONMENTAL POLLUTION CONTROL
52	ET ZC413	ENGINEERING DESIGN
53	ET ZC416	PRODUCTION PLANNING & CONTROL
54	ET ZC417	MANUFACTURING EXCELLENCE
55	ET ZC423	ESSENTIALS OF PROJECT MGMT
56	ET ZC424	PLANT LAYOUT AND DESIGN
57	ET ZC434	QUALITY CTRL ASSU AND RELIABILITY
58	FIN ZG512	GLOBAL FIN MARKETS AND PRODUCTS
59	FIN ZG513	MGMT OF BANKS & FINANCIAL INST
60	FIN ZG514	DERIVATIVE & RISK MANAGEMENT
61	FIN ZG518	MULTINATIONAL FINANCE
62	FIN ZG520	SECURITY ANALYSIS & PORTFOLIO MANAGEMENT
63	FIN ZG523	MARKET RISK MANAGEMENT
64	FIN ZG528	VENTURE CAPITAL AND PRIVATE EQUITY
65	HHSM ZC417	MANAGERIAL COMMUNICATION
66	HHSM ZG516	EPIDEMIC AND DISASTER MANAGEMENT
67	HHSM ZG615	SERVICE QUALITY EXCELLENCE IN HEALTHCARE
68	HHSM ZG631	INTRODUCTION TO HEALTH SYSTEMS AND ENVIRONMNETAL HEALTH
69	IS ZC328	SOFTWARE TESTING
70	IS ZC337	DATABASE SYSTEMS & APPLICATIONS
71	IS ZC343	SOFTWARE ENGINEERING
72	IS ZC364	OPERATING SYSTEMS
73	IS ZC373	COMPILER DESIGN
74	IS ZC415	DATA MINING
75	IS ZC422	PARALLEL COMPUTING
76	IS ZC423/ CSI ZC423	S/W DEV FOR PORTABLE DEVICES
77	IS ZC424/ ES ZC424	SOFTWARE FOR EMBEDDED SYSTEMS
78	IS ZC444	ARTIFICIAL INTELLIGENCE
79	IS ZC446/ES ZC446 / CSI ZC446	DATA STORAGE TECH & NETWORKS
80	IS ZC462/ CSI ZC462	NETWORK PROGRAMMING
81	IS ZC464	MACHINE LEARNING
82	IS ZC467/ ES ZC481	COMPUTER NETWORKS
83	MATH ZC222	DISCRETE STR FOR COMP SCIENCE
84	MATH ZC233/ PE ZC233	CALCULUS
85	MATH ZC234 / PE ZC235	LINEAR ALGEBRA & OPTIMIZATION
86	MBA ZC411/ BA ZC411	MARKETING
87	MBA ZC415 / FIN ZC415	FINANCIAL & MGMT ACCOUNTING

S.NO	Course No.	Course Title
88	MBA ZC416	MANAGERIAL ECONOMICS
89	MBA ZC417	QUANTITATIVE METHODS
90	MBA ZG511	MANAGING PEOPLE & ORGANIZATION
91	MBA ZG513	ENTERPRISE RESOURCE PLANNING
92	MBA ZG514/ MM ZG514/ QM ZG514	LEADERSHIP & MANAGING CHANGE
93	MBA ZG515	CONSULTING & PEOPLE SKILLS
94	MBA ZG524/QM ZG524	QUALITY MANAGEMENT SYSTEMS
95	MBA ZG525	BUSINESS PROCESS ANALYSIS
96	MBA ZG526 / QM ZG526	OPERATIONS MANAGEMENT
97	MBA ZG531/QM ZG531	STATISTICAL QUALITY CONTROL
98	MBA ZG541	CONSULTANCY PRACTICE
99	MBA ZG634	STRATEGIC CHANGE MANAGEMENT
100	MBA ZG641	MANAGEMENT INFORMATION AND DECISION SUPPORT SYSTEMS
101	MEL ZG611	IC FABRICATION TECHNOLOGY
102	MEL ZG621 / ES ZG621	VLSI DESIGN
103	MEL ZG632	ANALOG IC DESIGN
104	MEL ZG641	CAD FOR IC DESIGN
105	MGTS ZC211	PRINCIPLES OF MANAGEMENT
106	MM ZC441 / QM ZC441/POM ZC441	HUMAN RESOURCE MANAGEMENT
107	MM ZG512	MANUFACTURING STRATEGY
108	MM ZG513	MAINTENANCE ENGINEERING
109	MM ZG515/ QM ZG515	QUANTITATIVE METHODS
110	MM ZG522/ QM ZG532/ MBA ZG522/ HHSM ZG518	TOTAL QUALITY MANAGEMENT
111	MM ZG533	MANUFACTURING PLANNING & CONT
112	MM ZG534	SUSTAINABLE MANUFACTURING
113	MM ZG535 / QM ZG535 / MBA ZG535	DECISION ANALYSIS
114	MM ZG537 / MBA ZG537	LEAN MANUFACTURING
115	MM ZG611 /POM ZG611/ QM ZG611/ MBA ZG611 / POMSS ZG611	STRAT MGMT & BUSINESS POLICY
116	MM ZG627	MANAGERIAL CORPORATE FINANCE
117	PE ZC319	UNIT OPERATIONS - I
118	PE ZC321	CHEMICAL PROCESS CALCULATIONS
119	POM ZG512 / POMSS ZG512	DOSAGE FORM DESIGN
120	POM ZG545	INTELLECTUAL PROPERTY RIGHTS AND PHARMACEUTICALS
121	POM ZG551 / POMSS ZG551	ADVANCED PHYSICAL PHARMACEUTICS
122	POM ZG631 / POMSS ZG631	TQM TOOLS AND TECHNIQUES
123	QM ZG528	RELIABILITY ENGINEERING
124	QM ZG536	DESIGN OF EXPERIMENTS
125	QM ZG663	CONCURRENT ENGINEERING
126	SS ZG513 /ES ZG513/ CSI ZG513	NETWORK SECURITY
127	SS ZG514	OBJECT ORIENTED ANALYSIS & DESIGN
128	SS ZG515/ CSI ZG515	DATA WAREHOUSING
129	SS ZG518	DATABASE DESIGN & APPLICATIONS
130	SS ZG519	DATA STRUCTURES & ALGORITHM DESIGN

S.NO	Course No.	Course Title
131	SS ZG520/ MEL ZG520/ES ZG520	WIRELESS & MOBILE COMMUNICATION
132	SS ZG526	DISTRIBUTED COMPUTING
133	SS ZG527/ CSI ZG527	CLOUD COMPUTING
134	SS ZG531/ ES ZG531	PERVASIVE COMPUTING
135	SS ZG537	INFORMATION RETRIEVAL
136	SS ZG547	USABILITY ENGINEERING
137	SS ZG548	ADVANCED DATA MINING
138	SS ZG552	SOFTWARE TESTING METHODOLOGIES
139	SS ZG554	DISTRIBUTED DATA SYSTEMS
140	SS ZG582/ CSI ZG582	TELECOM NETWORK MANAGEMENT
141	SS ZG622	SOFTWARE PROJECT MANAGEMENT
142	SS ZG626 / MEL ZG651	HARDWARE SOFTWARE CO-DESIGN
143	SS ZG653	SOFTWARE ARCHITECTURES
144	SS ZG656 / ES ZG656 / CSI ZG656	NETWORKED EMBEDDED APPLICATIONS
145	SS ZG661 /QM ZG662/ MBA ZG661	SOFTWARE QUALITY MANAGEMENT
146	TA ZC163	COMPUTER PROGRAMMING (C)
147	TA ZC164/ PE ZC164	COMPUTER PROGRAMMING (MATLAB)
148	TA ZC233 / PE ZC213	ENGINEERING MEASUREMENTS
149	TA ZC312	TECHNICAL REPORT WRITING
150	POWJS ZC415	ESSENTIALS OF PROJECT MANAGEMENT
151	POWJSZC411	ENVIRONMENTAL POLLUTION CONT
152	POWAB ZC315	POWER PLANT ENGINEERING
153	POWAB ZC342	POWER SYSTEM ENGINEERING - I
154	POWAB ZC344	INSTRUMENTATION & CONTROL
155	POWAB ZC431	MAINTENANCE & SAFETY
156	POWJSZC413	PROCESS CONTROL
157	POWJSZC452	RENEWABLE ENERGY
158	POWTP ZC234	LINEAR ALGEBRA & OPTIMIZATION
159	POWTP ZC243	ENGINEERING MEASUREMENTS
160	POWTP ZC315	TRANSPORT PHENOMENA
161	POWTP ZC343	MICROPROCESSORS & MICROCONTROLLERS
162	PEAB ZC312	CHEMICAL ENGG THERMODYNAMICS
163	PEAB ZC319	UNIT OPERATIONS - I
164	PEAB ZC323	PROCESS DESIGN PRINCIPLES
165	PEAB ZC414	PRODUCTION PLANNING & CONTROL

First Semester 2019-2020

S.NO	Course No.	Course Title
1	AAOC ZC111	PROBABILITY & STATISTICS
2	AE ZG510	AUTOMOTIVE CONTROL SYSTEMS
3	AE ZG511	MECHATRONICS
4	AE ZG516	ADVANCES IN IC ENGINES
5	AE ZG517	AUTOMATIVE SYSTEMS ENGINEERING
6	AE ZG518	ELECTRIC AND HYBRID VEHICLES
7	AE ZG524	VEHICLE DYNAMICS

S.NO	Course No.	Course Title
8	AE ZG612	ADVANCES IN MATERIALS, COMPOSITES AND PLASTICS
9	AE ZG633	ADVANCES IN VEHICLE BODY STRUCTURES
10	BA ZC411 / MBA ZC411	MARKETING
11	BA ZC412	MODELS & APP IN OPR RESEARCH
12	BA ZC413	INTRO TO STATISTICAL METHODS
13	BA ZC414	OPTIMIZATION METHODS FOR ANALYTICS
14	BA ZC415	ANALYTICS FOR COMPETITIVE ADV
15	BA ZC417	FINANCIAL RISK ANALYTICS
16	BA ZC418	ADVANCED FINANCIAL MODELLING
17	BA ZC420	DATA VISUALIZATION
18	BA ZC421	MARKETING MODELS
19	BA ZC423	RETAIL ANALYTICS
20	BA ZC424	SUPPLY CHAIN ANALYTICS
21	BA ZC425	HR ANALYTICS
22	BA ZC426	REAL TIME ANALYTICS
23	BA ZC471 / BITS ZC471 / POM ZC471	MANAGEMENT INFORMATION SYSTEMS
24	BA ZG512	PREDICTIVE ANALYTICS
25	BA ZG521 / FIN ZG521 / MBA ZG521 / POM ZG513	FINANCIAL MANAGEMENT
26	BA ZG522	BUSINESS DATA MINING
27	BA ZG523 / CSI ZG523	INTRO TO DATA SCIENCE
28	BA ZG524	ADVANCED STATISTICAL METHODS
29	BA ZG525	BIG DATA ANALYTICS
30	BA ZG621 / MBA ZG621 / MM ZG621 / POM ZG621/QM ZG621	SUPPLY CHAIN MANAGEMENT
31	BITS ZC463 / CSI ZC463	CRYPTOGRAPHY
32	BITS ZG553 / ES ZG553 / MEL ZG553	REAL TIME SYSTEMS
33	CS ZG524 / ES ZG524 / MEL ZG524	REAL TIME OPERATING SYSTEMS
34	CS ZG525 / CSI ZG525/ ES ZG526	ADVANCED COMPUTER NETWORKS
35	CSI ZC423 / IS ZC423	S/W DEV FOR PORTABLE DEVICES
36	CSI ZC446 / ES ZC446 / IS ZC446	DATA STORAGE TECH & NETWORKS
37	CSI ZC462 / IS ZC462	NETWORK PROGRAMMING
38	CSI ZG513 / ES ZG513 / SS ZG513	NETWORK SECURITY
39	CSI ZG514	INTRO TO DEVOPS
40	CSI ZG515 / SS ZG515	DATA WAREHOUSING
41	CSI ZG518 / SS ZG518	DATABASE DESIGN & APPLICATIONS
42	CSI ZG522	DESIGN AND OPERATIONS OF DATA CENTRES
43	CSI ZG524	MIDDLEWARE TECHNOLOGIES
44	CSI ZG526	WEB TECHNOLOGIES
45	CSI ZG527 / SS ZG527	CLOUD COMPUTING
46	CSI ZG528	CYBER PHYSICAL SYSTEMS
47	CSI ZG538 / SS ZG538	INFRASTRUCTURE MANAGEMENT
48	CSI ZG582 / SS ZG582	TELECOM NETWORK MANAGEMENT
49	CSI ZG656 / ES ZG656 / MEL ZG656 / SS ZG656	NETWORK EMBEDDED APPLICATIONS
50	DE ZC415 / MEL ZC415	INTRODUCTION TO MEMS

S.NO	Course No.	Course Title
51	DE ZG513	FINITE ELEMENT METHODS
52	DE ZG514	FRACTURE MECHANICS
53	DE ZG515	COMPUTATIONAL FLUID DYNAMICS
54	DE ZG516 / DM ZG511 / ES ZG511	MECHATRONICS
55	DE ZG523 / ES ZG523 / MBA ZG523 / MM ZG523 / POM ZG523 / QM ZG523	PROJECT MANAGEMENT
56	DE ZG525	MECHANICAL SYSTEM DESIGN
57	DE ZG526	ADVANCED COMPOSITES
58	DE ZG532	QUALITY ASSURANCE & RELIABILITY
59	DE ZG535	ADV ENGINEERING MATHEMATICS
60	DE ZG541 /DM ZG541/ MM ZG541	PRODUCT DESIGN
61	DE ZG561 / ES ZG561	MECHANISMS & ROBOTICS
62	DE ZG611	DYNAMICS & VIBRATIONS
63	DE ZG622	COMPUTER AIDED ANALYSIS & DESIGN
64	DE ZG631	MATERIALS TECH & TESTING
65	DE ZG641	THEORY OF ELASTICITY AND PLASTICITY
66	DE ZG663 / QM ZG663	CONCURRENT ENGINEERING
67	DM ZG521	DESIGN FOR ADDITIVE MANUFACTURING
68	DM ZG531	HIGH PRECISION MANUFACTURING
69	EA ZC412 / MM ZC412	FLEXIBLE MANUFACTURING SYSTEMS
70	EEE ZG512 / ES ZG512 / MEL ZG526	EMBEDDED SYSTEM DESIGN
71	EEE ZG571 / ES ZG571	OPTICAL COMMUNICATION
72	EEE ZG573 / ES ZG573 / MEL ZG573	DIGITAL SIGNAL PROCESSING
73	ENGG ZC112 / PE ZC112	ELECTRICAL & ELECTRONIC TECH
74	ENGG ZC232 / PE ZC234	ENGINEERING MATERIALS
75	ENGG ZC242	MAINTENANCE & SAFETY
76	ENGG ZC243	MECHANICAL TECHNOLOGY
77	ES ZC424 / IS ZC424	SOFTWARE FOR EMBEDDED SYSTEMS
78	ES ZC481 / IS ZC467	COMPUTER NETWORKS
79	ES ZG531 / SS ZG531	PERVASIVE COMPUTING
80	ES ZG532 / MEL ZG531	TESTABILITY FOR VLSI
81	ES ZG554 /MEL ZG554	RECONFIGURABLE COMPUTING
82	ES ZG612	FAULT TOLERANT SYSTEM DESIGN
83	ES ZG613 / MEL ZG613	ADV DIGITAL SIGNAL PROCESSING
84	ES ZG621 / MEL ZG621	VLSI DESIGN
85	ES ZG626 / MEL ZG651	HARDWARE SOFTWARE CO-DESIGN
86	ES ZG642 / MEL ZG642	VLSI ARCHITECTURES
87	ET ZC235 / PE ZC236	MANUFACTURING PROCESSES
88	ET ZC323	MECHATRONICS & AUTOMATION
89	ET ZC343 /PEAB ZC343	MATERIALS MANAGEMENT
90	ET ZC344	INSTRUMENTATION & CONTROL
91	ET ZC353 / PE ZC352	ENERGY MANAGEMENT
92	ET ZC362 / PE ZC411	ENVIRONMENTAL POLLUTION CTRL
93	ET ZC413	ENGINEERING DESIGN
94	ET ZC416 / PE ZC413	PRODUCTION PLANNING & CONTROL
95	ET ZC417	MANUFACTURING EXCELLENCE

S.NO	Course No.	Course Title
96	ET ZC423 /PE ZC423 /POWTP ZC423	ESSENTIALS OF PROJECT MGMT
97	ET ZC424 /POWTP ZC482	PLANT LAYOUT AND DESIGN
98	ET ZC434/ PE ZC434	QUALITY CONTROL ASSURANCE & RELIABILITY
99	ET ZC448/ MM ZC448	ADDITIVE MANUFACTURING
100	ET ZC449/MM ZC449	IoT IN MANUFACTURING
101	FIN ZC415 / MBA ZC415	FINANCIAL & MANAGEMENT ACCOUNT
102	FIN ZG512	GLOBAL FIN MKTS AND PRODUCTS
103	FIN ZG513	MGT OF BANKS & FIN INSTITUTIONS
104	FIN ZG514	DERIVATIVES & RISK MANAGEMENT
105	FIN ZG518	MULTINATIONAL FINANCE
106	FIN ZG519	BUSINESS ANALYSIS & VALUATION
107	FIN ZG520	SECURITY ANALYSIS & PORTFOLIO MGMT
108	FIN ZG522	MERGERS, ACQUISITIONS, and CORPORATE RESTRUCTURING
109	FIN ZG523	MARKET RISK MANAGEMENT
110	FIN ZG524	CREDIT RISK MANAGEMENT
111	FIN ZG528	VENTURE CAPITAL & PVT EQUITY
112	HHSM ZG513	BIOSTATISTICS & EPIDEMIOLOGY
113	HHSM ZG516	EPIDEMIC AND DISASTER MANAGEMENT
114	HHSM ZG614	HOSPITAL OPERATIONS MANAGEMENT
115	HHSM ZG617	STRATEGIC MGMT OF HEALTHCARE ORG
116	IS ZC328	SOFTWARE TESTING
117	IS ZC337	DATABASE SYSTEMS & APPLICATIONS
118	IS ZC343	SOFTWARE ENGINEERING
119	IS ZC364	OPERATING SYSTEMS
120	IS ZC373	COMPILER DESIGN
121	IS ZC415	DATA MINING
122	IS ZC444	ARTIFICIAL INTELLIGENCE
123	MATH ZC233 / PE ZC233/PEAB ZC233	CALCULUS
124	MATH ZC234 / PE ZC235 /POWAB ZC234/PEAB ZC235	LINEAR ALGEBRA & OPTIMIZATION
125	MBA ZC416	MANAGERIAL ECONOMICS
126	MBA ZC417	QUANTITATIVE METHODS
127	MBA ZG511	MANAGING PEOPLE & ORGANIZATIONS
128	MBA ZG513	ENTERPRISE RESOURCE PLANNING
129	MBA ZG514 / MM ZG514 / QM ZG514	LEADERSHIP & MANAGING CHANGE
130	MBA ZG515	CONSULTING & PEOPLE SKILLS
131	MBA ZG522 / MM ZG522 / QM ZG532	TOTAL QUALITY MANAGEMENT
132	MBA ZG524 / QM ZG524	QUALITY MANAGEMENT SYSTEMS
133	MBA ZG525	BUSINESS PROCESS ANALYSIS
134	MBA ZG526 / QM ZG526	OPERATIONS MANAGEMENT
135	MBA ZG531 / QM ZG531	STATISTICAL QUALITY CONTROL
136	MBA ZG535 / MM ZG535 / QM ZG535	DECISION ANALYSIS
137	MBA ZG537 / MM ZG537	LEAN MANUFACTURING
138	MBA ZG541	CONSULTANCY PRACTICE
139	MBA ZG611 / MM ZG611 / QM ZG611 / POM ZG611	STRAT MGMT & BUSINESS POLICY

S.NO	Course No.	Course Title
140	MBA ZG634	STRATEGIC CHANGE MANAGEMENT
141	MBA ZG661 / QM ZG662 / SS ZG661	SOFTWARE QUALITY MANAGEMENT
142	MEL ZG510	RF MICROELECTRONICS
143	MEL ZG511	DESIGN & ANAL OF ALGORITHMS
144	MEL ZG611	IC FABRICATION TECHNOLOGY
145	MEL ZG631	PHYSICS & MOD OF MICROELECT DEVICES
146	MEL ZG632	ANALOG IC DESIGN
147	MEL ZG641	CAD FOR IC DESIGN
148	MGTS ZC211 / POWAB ZC232/ PEAB ZC221	PRINCIPLES OF MANAGEMENT
149	MM ZC441 / POM ZC441 / QM ZC441	HUMAN RESOURCE MANAGEMENT
150	MM ZC472 / QM ZC472	PRECISION ENGINEERING
151	MM ZG512	MANUFACTURING STRATEGY
152	MM ZG513	MAINTENANCE ENGINEERING
153	MM ZG515 / QM ZG515	QUANTITATIVE METHODS
154	MM ZG533	MANUFACTURING PLANNING & CONT
155	MM ZG534	SUSTAINABLE MANUFACTURING
156	MM ZG539/QM ZG539	SIX SIGMA
157	MM ZG627	MANAGERIAL CORPORATE FINANCE
158	PE ZC164 / TA ZC164	COMPUTER PROGRAMMING (MATLAB)
159	PE ZC213 / TA ZC233/ POWAB ZC243/PEAB ZC215	ENGINEERING MEASUREMENTS
160	PE ZC313	CHEMICAL ENGG THERMODYNAMICS
161	PE ZC318	FUNDA OF TRANSPORT PROCESSES
162	PE ZC319	UNIT OPERATIONS - I
163	PE ZC321	CHEMICAL PROCESS CALCULATIONS
164	PE ZC323	PROCESS DESIGN PRINCIPLES
165	PE ZC412	PROCESS EQUIPMENT DESIGN
166	PE ZC452 / PEAB ZC452	PROCESS PLANT SAFETY AND ENVIRONMENT
167	PE ZC453	PROCESS CTRL & INSTRUMENTATION
168	POM ZG512	DOSAGE FORM DESIGN
169	POM ZG515	PHARMA ADMIN AND MANAGEMENT
170	POM ZG522	QUALITY ASSU & REG AFFAIRS
171	POM ZG525	PHARMACEUTICAL DEVELOPMENT AND SCALE UP
172	POM ZG534	ADVANCED PHARMACEUTICAL TECHNOLOGY
173	POM ZG545	Intellectual Property rights and Pharmaceuticals
174	POWAB ZC317	TRANSPORT PHENOMENA
175	POWAB ZC343	MICROPROCESSORS & MICROCONTROLLERS
176	POWAB ZC413	PROCESS CONTROL
177	POWAB ZC452	RENEWABLE ENERGY
178	POWTP ZC316	POWER ELECTRONICS
179	POWTP ZC332	ENERGY MANAGEMENT
180	QM ZG528	RELIABILITY ENGINEERING
181	QM ZG536	DESIGN OF EXPERIMENTS
182	SS ZG514	OBJ ORIENTED ANALYSIS & DESIGN
183	SS ZG519	DATA STRUCTURES & ALGORITHM DESIGN

S.NO	Course No.	Course Title
184	SS ZG520 / MEL ZG520/ ES ZG520 /CSI ZG520	WIRELESS & MOB COMMUNICATION
185	SS ZG526	DISTRIBUTED COMPUTING
186	SS ZG536	ADV STAT TECHNIQUES FOR ANALYTICS
187	SS ZG537	INFORMATION RETRIEVAL
188	SS ZG547	USABILITY ENGINEERING
189	SS ZG548	ADVANCED DATA MINING
190	SS ZG552	SOFTWARE TESTING METHODOLOGIES
191	SS ZG554	DISTRIBUTED DATA SYSTEMS
192	SS ZG562	SOFTWARE ENGINEERING AND MANAGEMENT
193	SS ZG565	MACHINE LEARNING
194	SS ZG622	SOFTWARE PROJECT MANAGEMENT
195	SS ZG653	SOFTWARE ARCHITECTURES
196	SS ZG681	CYBER SECURITY
197	TA ZC312/ POWAB ZC321 / PEAB ZC313	TECHNICAL REPORT WRITING
198	POM ZG631	TQM Tools & Techniques
199	POM ZG521	Statistical Process Control
200	IS ZC327	SYSTEMS PROGRAMMING
201	MATH ZC222	DISCRETE STRUCTURES FOR COMPUTER SCIENCE
202	TA ZC163	COMPUTER PROGRAMMING
203	ES ZC263	DIGITAL ELECTRONICS & MICROPROCESSORS
204	HHSM ZC417	MANAGERIAL COMMUNICATION

B5.14 PROJECT WORK AND DISSERTATION

Students of B.S., B.Tech. programmes do a full-semester Project Work in their final semester, while students of higher degree programmes like M.S., M.Tech., MBA and M.Phil. submit a Dissertation / Project based on a research and development effort. **Annexure 4** and **Annexure 5** list the titles of some of the Projects and Dissertations submitted by the students of WILP during the year 2019.

B5.15 ACADEMIC AND PROFESSIONAL COUNSELLING

During the year, the Academic Monitoring Board (AMB), estimated the extent to which students under its purview fell short of the minimum academic performance, drew up a time-frame within which afflictions were to be removed, determined the package of courses for their registration in each semester and laid down the necessary stipulations for achieving intermediate targets. It further monitored their progress and applied necessary mid-course corrections, wherever required. The statistical summary of the number of students under its purview during the year is given below:

		II Semester 2018-2019
1.	Registered and under the under the purview of AMB at the beginning of the semester	424
2.	Declared outside the purview of AMB at the end of the semester	250
3.	Discontinued during the semester	29
4.	Continue to be under the purview of AMB	145
5.	New cases referred to AMB at the end of the Semester	629
6.	Under the purview of AMB at the beginning of the next semester	774
7.	Registered and under the purview of AMB at the beginning of the next semester	572

B5.16 AWARD OF DEGREES

During the year, a total of 4508 students graduated. The details on the award of degrees are given below.

	Number of degrees awarded
84 th Award (vide Board of Governors meeting held on 22.03.2019)	3094(760)
85 th Award (vide Board of Governors meeting held on 16.07.2019)	2446(541)
Total:	5540(1301)

Note: The numbers in brackets indicate number of

Statistical details of these degrees are given in **Annexure 6 (Part B5)**.

B5.17 NEW COLLABORATIVE PROGRAMMES INTRODUCED

The following new corporate partnership programmes were introduced during the year 2019

1. B.Sc. Design & Computing (HCL)
2. B.Sc. Pharmaceutical Sciences (DRL)
3. B.Tech. Manufacturing Technology (GE Locomotive)
4. Integrated M.Tech. Software Systems (ATMECS)
5. M.Tech. Automotive Electronics (Aptiv)
6. M.Tech. Automotive Engineering (Cummins)
7. M.Tech. Computing Systems and Infrastructure (Wipro)
8. M.Tech. Data Science & Engineering (Intuit)
9. M.Tech. Data Science & Engineering (Avaya)
10. M.Tech. Data Science & Engineering (BEL)
11. M.Tech. Data Science & Engineering (Wipro)

B5.18 NEW PROGRAMMES INTRODUCED

The following new programmes were introduced during the year 2019

1. Post Graduate Certificate Programme in Big Data & Analytics
2. M.Tech. Digital Manufacturing
3. B.Sc. Pharmaceutical Sciences
4. M.Tech. Automotive Electronics
5. M.Tech. Sanitation Science, Technology and Management

B5.19 COLLABORATIVE PROGRAMMES UNDER DISCUSSION

The new collaborative programmes under discussion are indicated below:

1. B.Tech. Manufacturing Technology with Titan, Hosur
2. M.Tech. Data Science & Engineering with Prolifics, Hyderabad
3. Post Graduate Certification in AI & ML with ZF India, Hyderabad
4. M.Tech Computing Systems & Infrastructure with NTT Data, Hyderabad
5. M.Tech. Data Science & Engineering with HCL Technologies at various locations
6. M.Tech Data Science & Engineering with Siemens, Pune
7. Integrated M.Tech Computing Systems & Infrastructure with Capgemini, Mumbai and Bangalore
8. B.Tech Process Engineering with Hindalco, Renukoot
9. B.Tech Process Engineering with Grasim Industries, Renukoot
10. B.Tech Process Engineering with Hindustan Zinc, Udaipur

B5.20 New Initiatives in WILP**A. Digital Learning Initiatives:**

1. New program launch: From the core engineering group two new programs were launched in 'individual mode' and they were, M. Tech (Digital Manufacturing), M.Tech (Automotive Electronics). This is considering the emerging trends in manufacturing and automotive sectors respectively.
2. New live lecture delivery platform achieved a level of maturity and more live lecture studios were installed across locations. Now several lectures are being conducted very similar to the traditional classrooms, which has been well received by the students and faculty.
3. A new e-Library was launched with the help of Pearson Publications through which, over 200 titles relevant for various programs have been made available to the students. These books can be downloaded and watched by any number of students without any limitation.
4. New remote and virtual labs were created in the areas of Instrumentation & Control, Engineering Measurements, Mechatronics, IOT and Automotive Engineering. The required content and lab exercises were developed and implemented across various first and higher degrees of WILP. They have also been receiving very good feedback from the students on their learning potential and flexibility.

B. Information Technology and Operations Initiatives:

1. **Launch of Viva Portal for Management of all Viva Evaluations** - the current viva portal was enhanced to manage all viva evaluations in a single application thereby improving trackability, significantly reduced manual interventions and greater transparency to students for their evaluations and viva grades.
2. **Launch of remote Labs for CSIS in Hyderabad Campus** - A new cluster lab was launched in Hyderabad Campus for conducting remote labs for CSIS courses. This lab as a total of 30 servers that have been virtualized and allows students and faculty to do advanced labs using various open source technologies.

C. Marketing Initiatives:

1. **Launch of the revamped WILP website:** A new website was launched in May 2018, featuring a refreshed user interface and design theme. The website structure and layout was updated to present information in a way that was easier and faster to find. The new design theme blends the industrial and academic design elements to better reflect the brand positioning of WILP. An independent site (www.bits-pilani-wilp.ac.in) now allows for better monitoring and control of marketing investments. With a stable content now available to aspirants and candidates, the next phase of development will focus on the corporate segment and will allow for integrating whitepapers, corporate testimonials, etc.
2. **Launch of EMI Option for Fee Payment:** The Online Application Center launched in 2017 was further enhanced this year with the introduction of the EMI facility for fee payment. While at the beginning this options was introduced to new applicants, it was quickly made available to registered students as well. This was welcomed by applicants and students, and has helped improve admissions as well as registrations.

LIST OF ANNEXURES

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DETAILS OF ADMISSIONS MADE DURING THE YEAR 2019

(A) Second Semester 2018-2019

PROGRAMMES	No. of students joined
1. Certificate & Diploma Programmes	
Post Graduate Certificate	
Artificial Intelligence & Machine Learning	143(23)
Internet of Things	53(11)
Big Data Engineering	140(28)
Big Data Analytics	34(12)
Post Graduate Diploma	
Finance	6(1)
Sub Total	<u>376(75)</u>
2. Integrated First Degree Programmes:	
B.Tech.	
Engineering Technology	196(006)
Power Engineering	36(000)
Process Engineering	106(001)
B.Sc.	
Design & Computing	40(018)
M.Sc.	
Business Analytics	79(018)
Sub Total	<u>457(043)</u>
3. Higher Degree Programmes:	
M.Tech.	
Automotive Engineering	98(022)
Computing Systems & Infrastructure	925(425)
Data Science & Engineering	656(107)
Design Engineering	85(003)
Embedded Systems	68(016)
Manufacturing Management	50(002)
Microelectronics	111(040)
Pharmaceutical Operations & Management	18(004)
Quality Management	62(004)
Software Engineering	572(324)
Software Systems	403(103)
MBA	
Consultancy Management	55(014)
Finance	51(005)
Manufacturing Management	73(004)
Quality Management	37(008)
Sub total	<u>3264(1081)</u>
Total	<u>4097(1199)</u>

(B) First Semester 2019-2020

PROGRAMMES	No. of students joined	
1. Certificate & Diploma Programmes		
Post Graduate Certificate		
Artificial Intelligence & Machine Learning		188(34)
Internet of Things		134(16)
Big Data Engineering		87(22)
Big Data Analytics		89(26)
Post Graduate Diploma		
Finance		7(2)
	Sub Total	<u>505(100)</u>
2. Integrated First Degree Programmes:		
B.Tech.		
Engineering Technology		436(021)
Manufacturing Technology		35(007)
Process Engineering		27(000)
B.Sc.		
Pharmaceutical Sciences		49(016)
M.Sc.		
Business Analytics		102(029)
	Sub total	<u>649(073)</u>
3. Higher Degree Programmes:		
M.Tech.		
Automotive Electronics		67(007)
Automotive Engineering		95(008)
Computing Systems & Infrastructure		125(024)
Data Science & Engineering		756(123)
Design Engineering		152(008)
Digital Manufacturing		54(003)
Embedded Systems		139(034)
Manufacturing Management		115(007)
Microelectronics		129(023)
Pharmaceutical Operations & Management		26(010)
Quality Management		106(023)
Software Engineering		155(047)
Software Systems		711(165)
Systems Engineering		150(059)
MBA		
Consultancy Management		79(022)
Finance		78(025)
Hospital & Health Systems Management		64(022)
Manufacturing Management		84(008)
Quality Management		60(019)
	Sub total	<u>3145(637)</u>
	Total	<u>4299(810)</u>

SUMMARY

	II Semester 2018-19	I Semester 2019-20	Total
Post Graduate Certificates	376(75)	505(100)	881(175)
Integrated First Degree Programmes	457(43)	649(73)	1106(116)
Higher Degree Programmes	3264(1081)	3145(637)	6409(1718)
Total	4097(1199)	4299(810)	8396(2009)

NUMBER OF STUDENTS REGISTERED IN FIRST SEMESTER 2019-2020

Program	Year of Admission						Total		
	2014 & Earlier	2015	2016	2017	2018	2019			
Certificate & Diploma Programmes									
Post Graduate Certificate									
Artificial Intelligence & Machine Learning						188(34)	188(34)		
Internet of Things						134(16)	134(16)		
Big Data Engineering						87(22)	87(22)		
Big Data Analytics						89(26)	89(26)		
Post Graduate Diploma									
Finance					7(01)	7(02)	14(03)		
					Sub-Total	7(01)	505(100)	512(101)	
Integrated First Degree Programmes									
B.Optom.	1(1)	2(0)					3(1)		
B.S.									
Engineering Technology	18(0)						18(0)		
Information Systems	3(1)						3(1)		
B.Sc.									
Design & Computing					38(17)		38(17)		
Pharmaceutical Sciences						49(16)	49(16)		
B.Tech.									
Engineering Technology		42(0)	429(18)	443(14)	445(21)	436(21)	1795(74)		
Information Systems		2(0)	223(82)				225(82)		
Manufacturing Technology			197(3)	140(11)	109(4)	35(7)	481(25)		
Marine Engineering	11(0)	16(0)					27(0)		
Nautical Technology	10(1)	5(0)					15(1)		
Power Engineering			31(0)	43(0)	36(0)		110		
Process Engineering		1(0)	87(1)	96(3)	114(3)	27(0)	325(7)		
M.Sc.									
Information Systems			1(1)				1(1)		
Business Analytics			8(0)	158(32)	138(31)	102(29)	406(92)		
		Sub-Total	43(3)	68(0)	976(105)	880(60)	880(76)	649(73)	3496(317)
Higher Degree Programmes									
M.Phil.									
Hospital & Health Systems Management		2(0)					2(0)		

Program	Year of Admission						Total
	2014 & Earlier	2015	2016	2017	2018	2019	
M.S.							
Manufacturing Management	1(0)						1(0)
Microelectronics		1(0)					1(0)
Software Systems	7(0)						7(0)
M.Tech.							
Automotive Electronics						67(7)	67(7)
Automotive Engineering				40(0)	128(25)	95(8)	263(33)
Computing Systems & Infrastructure			632(391)	364(180)	997(431)	125(24)	2118(1026)
Data Science & Engineering					829(136)	756(123)	1585(259)
Design Engineering			4(1)	166(16)	257(22)	152(8)	579(47)
Digital Manufacturing						54(3)	54(3)
Embedded Systems			9(3)	72(11)	215(49)	139(34)	435(97)
Environmental Engineering				1(0)			1(0)
Manufacturing Management	3(0)		9(1)	61(4)	158(11)	115(7)	346(23)
Microelectronics				95(21)	169(55)	129(23)	393(99)
Pharmaceutical Operations and Management			2(0)	9(0)	101(14)	26(10)	138(24)
Quality Management	1(0)	4(0)	3(1)	70(9)	134(10)	106(23)	318(43)
Software Engineering	20(10)	2175(1182)	1522(852)	110(54)	660(359)	155(47)	4642(2504)
Software Systems	25(6)	34(8)	91(22)	566(136)	1002(250)	711(165)	2429(587)
Systems Engineering					24(8)	150(59)	174(67)
MBA							
Consultancy Management		1(0)	4(1)	30(8)	109(32)	79(22)	223(63)
Finance			1(0)	26(6)	77(13)	78(25)	182(44)
Hospital & Health Systems Management				44(21)	50(25)	64(22)	158(68)
Manufacturing Management		3(0)	6(0)	39(5)	123(12)	84(8)	255(25)
Quality Management		1(1)	2(1)	27(5)	89(33)	60(19)	179(59)
Sub-Total	57(16)	2221(1191)	2285(1273)	1720(476)	5121(1485)	3145(637)	14550(5078)
Grand Total	100(19)	2289(1191)	3261(1378)	2600(536)	6009(1562)	4299(810)	18558(5496)

Note: The numbers in brackets indicate number of female students

LIST OF ORGANIZATIONS WHO HAVE SPONSORED THEIR EMPLOYEES FOR WORK INTEGRATED LEARNING PROGRAMMES OF BITS

S.No.	ORGANIZATION	LOCATION
1.	24/7.AI INC.	BANGALORE
2.	309 FIELD HOSPITAL INDIAN ARMY (ARMY MEDICAL CORPS)	MEERUT
3.	365 DAYS FREIGHT SERVICES FZCO	DUBAI
4.	3B SEMICONDUCTORS (P) LTD.	MUMBAI
5.	3D PLM SOFTWARE SOLUTIONS LTD.	BANGALORE
6.	3D PLM SOFTWARE SOLUTIONS LTD.	PUNE
7.	3WINGS ENGINEERS	HYDERABAD
8.	4G IDENTITY SOLUTIONS (P) LTD.	HYDERABAD
9.	4I ODC (P) LTD.	DELHI
10.	4TIGO	BANGALORE
11.	A O SMITH (I) WATER PRODUCTS (P) LTD.	BANGALORE
12.	A.P. TRANSPORT DEPARTMENT	RAJAHMUNDRY
13.	A3LOGICS	JAIPUR
14.	AAKASH HEALTHCARE SUPERSPECIALITY HOSPITAL	DELHI
15.	AAKRUTI SOFTWARE SOLUTIONS (P) LTD.	HYDERABAD
16.	AARETE TECHNOLOGY SERVICES	PUNE
17.	AAROH LABS (P) LTD.	PUNE
18.	AARVEE ASSOCIATES	HYDERABAD
19.	AARVI ENCON	SAUDIARABIA
20.	AASI MULTISPECIALITY HOSPITAL	RAMANATHAPURAM
21.	ABB GLOBAL INDUSTRIES AND SERVICES (P) LTD.	ABUDHABI
22.	ABB GLOBAL INDUSTRIES AND SERVICES (P) LTD.	BANGALORE
23.	ABB GLOBAL INDUSTRIES AND SERVICES (P) LTD.	BARODA
24.	ABB GLOBAL INDUSTRIES AND SERVICES (P) LTD.	CHENNAI
25.	ABB GLOBAL INDUSTRIES AND SERVICES (P) LTD.	NASHIK
26.	ABB GLOBAL INDUSTRIES AND SERVICES (P) LTD.	VADODARA
27.	ABB IND LTD.	DELHI
28.	ABB IND LTD.	MUMBAI
29.	ABB INDUSTRIES LLC	DUBAI
30.	ABB POWER PRODUCTS AND SYSTEMS (I) LTD.	MUMBAI
31.	ABB POWER PRODUCTS AND SYSTEMS (I) LTD.	PUNE
32.	ABBEY SOFTWARE TECHNOLOGIES	HYDERABAD
33.	ABBOTT HEALTHCARE (P) LTD.	BANGALORE
34.	ABCO INDIA	CHENNAI
35.	ABCROB TECHNOLOGY (P) LTD.	DELHI
36.	ABHINAV IT SOLUTIONS (P) LTD.	PUNE
37.	ABLE DESIGN ENGINEERING SERVICES (P) LTD.	GOA
38.	ABMCPL	DELHI
39.	ABOVE SOLUTIONS (P) LTD.	BANGALORE
40.	ABP (P) LTD.	KOLKATA
41.	ABRAJ ENERGY SERVICES S.A.O.C	CHENNAI
42.	ABS GROUP INC.	ABUDHABI
43.	ABS GROUP INC.	MUMBAI
44.	ABS GROUP INC.	UAE
45.	ABU DHABI GAS INDUSTRIES LTD. (GASCO)	ABUDHABI
46.	ABU DHABI OIL REFINERY COMPANY	ABUDHABI
47.	ABU DHABI OILFILED SERVICES COMPANY-ADOS L.L.C	DUBAI
48.	ABU DHABI POLYMERS LTD. (BOROUGE) (RUWAIS IND	ABUDHABI
49.	ABU DHABI PORTS	DUBAI
50.	ABU DHABI SHIP BUILDING	ABUDHABI
51.	ABUDHABI CO. FOR ONSHORE PETROLEUM O	ABUDHABI
52.	ABUDHABI NATIONAL OIL CO. (ADNOC)	ABUDHABI
53.	ABUDHABI OIL REFINING COMPANY	ABUDHABI
54.	ABUDHABI POLYMERS LTD.	GOA
55.	ACADEMY FOR PERFORMANCE & EXCELLENCE	FARIDABAD
56.	ACC LTD.	GOA
57.	ACC LTD.	KYMORE
58.	ACC LTD.	PUNE
59.	ACC LTD.	THANE
60.	ACCENTURE	BANGALORE
61.	ACCENTURE	CHENNAI
62.	ACCENTURE	DELHI
63.	ACCENTURE	GURGAON
64.	ACCENTURE	HYDERABAD
65.	ACCENTURE	KOLKATA

S.No.	ORGANIZATION	LOCATION
66.	ACCENTURE	MUMBAI
67.	ACCENTURE	PUNE
68.	ACCESS-CADD	NASHIK
69.	ACCION LABS	BANGALORE
70.	ACCION LABS	CHENNAI
71.	ACCION LABS	HYDERABAD
72.	ACCOLITE	HYDERABAD
73.	ACCOPS SYSTEM (P) LTD.	PUNE
74.	ACCORD GLOBAL TECHNOLOGY SOLUTIONS (P) LTD.	BANGALORE
75.	ACCORD SOFTWARE AND SYSTEMS (P) LTD.	ASSPL
76.	ACCRETE HITECH SOLUTIONS (P) LTD.	BANGALORE
77.	ACCU PERICISION	BANGALORE
78.	ACCURATE INDUSTRIAL CONTROLS (P) LTD.	PUNE
79.	ACE ANTENNA (I) (P) LTD.	HYDERABAD
80.	ACE ENGINEERING ACADEMY	HYDERABAD
81.	ACG ASSOCIATED CAPSULES (P) LTD.	MUMBAI
82.	A-CHECK GLOBAL	CHENNAI
83.	ACI WORLDWIDE	PUNE
84.	ACIDAES SOLUTION (P) LTD.	DELHI
85.	ACIDAES SOLUTIONS (P) LTD.	MUMBAI
86.	ACME CLEANTECH SOLUTION (P) LTD.	HYDERABAD
87.	ACME INTERNATIONAL GEN. TRADING & CONTRA	KUWAIT
88.	ACTC (P) LTD.	HYDERABAD
89.	ACTEMIUM (I) PROCESS SOLUTIONS (VAES)	BANGALORE
90.	ACTIANCE (I) (P) LTD.	BANGALORE
91.	ACTIFIO TECHNOLOGIES (I) (P) LTD.	HYDERABAD
92.	ACTUALIZE CONSULTING ENGINEERS (I) (P) LTD.	PUNE
93.	ACUBETECH SOLUTIONS (P) LTD.	COIMBATORE
94.	AD2PRO GLOBAL CREATIVE SOLUTIONS (P) LTD.	BANGALORE
95.	ADAGE AUTOMATION (P) LTD.	GOA
96.	ADANI POWER MAHARASHTRA LTD.	TIRORA
97.	ADCO ABU DHABI	ABUDHABI
98.	ADCO ABU DHABI	UAE
99.	ADDONIX TECHNOLOGIES (P) LTD.	MUMBAI
100.	ADDRESSHEALTH SOLUTIONS (I) (P) LTD.	BANGALORE
101.	ADECCO (I) (P) LTD.	BADDI
102.	ADECCO (I) (P) LTD.	BANGALORE
103.	ADECCO (I) (P) LTD.	CHENNAI
104.	ADEPT CHIP SERVICES PVT.LTD	BANGALORE
105.	ADEPT CHIP SERVICES PVT.LTD	HYDERABAD
106.	ADEPTWORK SOFTWARE SOLUTIONS LLP	SURAT
107.	ADF DATA SCIENCE (P) LTD.	CHENNAI
108.	ADHI PARASAKTHI DENTAL COLLEGE	CHENNAI
109.	ADIENT (I) (P) LTD.	CHENNAI
110.	ADIENT (I) (P) LTD.	PUNE
111.	ADITYA BIRLA FASHION AND RETAIL LTD.	BANGALORE
112.	ADITYA BIRLA GROUP	ARIYALUR
113.	ADITYA BIRLA GROUP	BHARUCH
114.	ADITYA BIRLA GROUP	BHUJ
115.	ADITYA BIRLA GROUP	CHITTORGARH
116.	ADITYA BIRLA GROUP	DAVENGERA
117.	ADITYA BIRLA GROUP	DUBAI
118.	ADITYA BIRLA GROUP	HIRMI
119.	ADITYA BIRLA GROUP	KALABURGI
120.	ADITYA BIRLA GROUP	KHARACH
121.	ADITYA BIRLA GROUP	KOTPUTLI
122.	ADITYA BIRLA GROUP	MUMBAI
123.	ADITYA BIRLA GROUP	NAGDA
124.	ADITYA BIRLA INSULATORS	HALOL
125.	ADITYA BIRLA MANAGEMENT CORPORATION (P) LTD.	MUMBAI
126.	ADITYA BIRLA RETAIL LTD.	MUMBAI
127.	ADITYA ENVIRONMENTAL SERVICES (P) LTD.	MUMBAI
128.	ADIUVO DIAGNOSTICS (P) LTD.	CHENNAI
129.	ADLER MEDIEQUIP PVT.LTD	PUNE
130.	ADNOC	CHENNAI
131.	ADNOC DISTRIBUTION	ABUDHABI
132.	ADNOC LINDE INDUSTRIAL GASES(ELIXIER)	UAE
133.	ADNOC OFFSHORE	NALUMAVADI
134.	ADNOC REFINING	ABUDHABI
135.	ADNOC REFINING	DUBAI
136.	ADNOC REFINING	UAE

S.No.	ORGANIZATION	LOCATION
137.	ADOBE SYSTEMS (I) (P) LTD.	BANGALORE
138.	ADOBE SYSTEMS (I) (P) LTD.	NOIDA
139.	ADOR WELDING LTD.	PUNE
140.	ADOS	DUBAI
141.	ADP (I) (P) LTD.	HYDERABAD
142.	ADP (I) (P) LTD.	PUNE
143.	ADROIT FACILITY MANAGEMENT	DUBAI
144.	ADS GLOBAL KNOWLEDGE ACADEMY (P) LIM	DELHI
145.	ADTRAN NETWORKS (I) (P) LTD.	BANGALORE
146.	ADTRAN NETWORKS (I) (P) LTD.	HYDERABAD
147.	ADU DHABI OILFIELD SERVICES COMPANY-ADOS L.L C	DUBAI
148.	ADVANCE VISION	DELHI
149.	ADVANCED MICRO DEVICES	HYDERABAD
150.	ADVANCED TRAINING INSTITUTE	HYDERABAD
151.	ADVANTEK FUEL SYSTEMS (P) LTD.	PUNE
152.	ADVENT TECHNOLOGIES	DELHI
153.	ADVENT TOOLTECH (P) LTD.	PUNE
154.	ADVY CHEMICAL (P) LTD.	MUMBAI
155.	AE ARMA ELEKTROPANC ELECTROMECHANICAL LL	DUBAI
156.	AECOM (I) (P) LTD.	BANGALORE
157.	AECOM/URS BAHRAIN	BAHRAIN
158.	AEGIS GLOBAL	BANGALORE
159.	AEQUS	BANGALORE
160.	AEQUS (P) LTD.	BELAGAVI
161.	AERIALROOTS TECHNOLOGIES	PUDUCHERRY
162.	AERIS COMMUNICATION (I) (P) LTD.	NOIDA
163.	AERIS COMMUNICATIONS	DELHI
164.	AEROEURO ENGINEERING (I) (P) LTD.	BANGALORE
165.	AEROSTRUCTURES ASSEMBLIES (I) (P) LTD.	GOA
166.	AEROSTRUCTURES MANUFACTURING (I) (P) LTD.	BANGALORE
167.	AERZEN MACHINES (I) (P) LTD.	VADODARA
168.	AES INDIA	NOIDA
169.	AESSEAL (I) (P) LTD.	PUNE
170.	AESSEAL MIDDLE EAST LLC	JAFZA-SOUTH
171.	AFCH FORTIS ESCORTS HEART INSTITUTE KHULNA BD	BANGLADESH
172.	AFFLUENT GLOBAL SERVICES	HYDERABAD
173.	AFWWA HOMOEOPATHIC CLINIC	HYDERABAD
174.	AG MELCO ELEVATOR CO. LLC	DUBAI
175.	AGFA HEALTHCARE SOLUTIONS	DUBAI
176.	AGGREKO LTD.	DUBAI
177.	AGGREKO UK LTD.	DUBAI
178.	AGHARKAR RESEARCH INSTITUTE	PUNE
179.	AGILE COCKPIT	BANGALORE
180.	AGILENT TECHNOLOGIES	DELHI
181.	AGILENT TECHNOLOGIES	GURGAON
182.	AGNICE FIRE PROTECTION (P) LTD.	CHENNAI
183.	AGNISYS TECHNOLOGY	DELHI
184.	AGRAWAL GROUP OF COMPANIES	GOA
185.	AGRIOS PRICE CONSULTING SERVICES	BANGALORE
186.	AGRISOL (I) (P) LTD.	HYDERABAD
187.	AGS TRANSACT TECHNOLOGIES LTD.	MUMBAI
188.	AHEADRACE SOFTWARE DEVELOPMENT SERVICES	HYDERABAD
189.	AIIMSUDR	UDAIPUR
190.	AIMS ENGINEERING	PUNE
191.	AIR (I) LTD.	BANGALORE
192.	AIR (I) LTD.	CHENNAI
193.	AIR TREATMENT ENGINEERING (P) LIMITE	KOLKATA
194.	AIR WORLDWIDE D.B.A VERISK ANALYTICS	HYDERABAD
195.	AIRBUS GROUP	BANGALORE
196.	AIRCEL LTD.	CHENNAI
197.	AIRCEL LTD.	DELHI
198.	AIRCOM INTERNATIONAL (I) (P) LTD. (TEOCO)	DELHI
199.	AIRFRAME AERODESIGNS (P) LTD.	BANGALORE
200.	AIRPORTS AUTHORITY OF INDIA	CHENNAI
201.	AIRPORTS AUTHORITY OF INDIA	COCHIN
202.	AIRPORTS AUTHORITY OF INDIA	GOA
203.	AIRPORTS AUTHORITY OF INDIA	KOLKATA
204.	AIRPORTS AUTHORITY OF INDIA	MUMBAI
205.	AIRTEL X LABS	DELHI
206.	AISQUARE TECHNOLOGIES (P) LTD.	HYDERABAD
207.	AITHENT TECHNOLOGIES	CHENNAI

S.No.	ORGANIZATION	LOCATION
208.	AIVARG TECHNOLOGIES OPC (P) LTD.	CHENNAI
209.	AJ DEVTECH	CHANDIGARH
210.	AJEENKYA DY PATIL UNIVERSITY	PUNE
211.	AJNA INNOVATIONS (P) LTD.	BANGALORE
212.	AKAL INFO SYSTEMS	DELHI
213.	AKAMAI TECHNOLOGIES	BANGALORE
214.	AKKIPET E-COMMERCE (P) LTD.	BANGALORE
215.	AKQA MEDIA (I) (P) LTD.	GURGAON
216.	AKSA SOFTWARE SOLUTIONS (P) LTD.	SRINAGAR
217.	AKSHARA ENTERPRISES P LTD.	HYDERABAD
218.	AKTREA SOLUTIONS (I) (P) LTD.	CHENNAI
219.	AKZONOBEL (I) LTD.	MUMBAI
220.	AL ALAMIAH TECHNOLOGY GROUP	KUWAIT
221.	AL ANWAR CERAMIC TILES CO SAOG NIZWA OMA	OMAN
222.	AL ARABIA TSCD JUMA AL MAJID GROUP	DUBAI
223.	AL DHARIS SPECIALIZED PIPES FITTINGS	DUBAI
224.	AL FARAA GROUP	ABUDHABI
225.	AL FUTTAIM GROUP	DUBAI
226.	AL GHURAIR IRON & STEEL LLC	ABUDHABI
227.	AL HAJIRY TRADING LLC OMAN	OMAN
228.	AL HASHAR & CO LLC	OMAN
229.	AL HODERiyAT GEN CONTRACTING	ABUDHABI
230.	AL JABER TRANSPORT & GENERAL CONTRACTING	ABUDHABI
231.	AL JALILA CHILDREN'S SPECIALTY HOSPITAL	DUBAI
232.	AL KHALEEJ SUGAR CO LLC	DUBAI
233.	AL MAHASIN ELECTRO MECH CONT COMP ABUD	SHARJAH
234.	AL NABOODAH CONTRACTING GROUP	DUBAI
235.	AL NAHIYA GROUP(ADOC)	BANGALORE
236.	AL NAKHEEL ELECTRONICS - DUBAI UAE	DUBAI
237.	AL QABAS EMPLOYMENT	ABUDHABI
238.	AL QAHTANI BEVERAGES	HYDERABAD
239.	AL SABAH ELECTROMECHANICAL INTERNATIONAL	DUBAI
240.	AL SANANI TRADING ESTABLISHMENT	DUBAI
241.	AL SHIRAH RECRUITMENT SERVICES (ALSHIREC) ADNOC	DUBAI
242.	AL SHIRAWI ELECTRICAL & MECHANICAL ENGG	DUBAI
243.	AL TAJIR GLASS INDUSTRIES	DUBAI
244.	AL TAMIMI ENGINEERING SERVICES LLC DUBAI	DUBAI
245.	AL YAMAMA CO. FOR TRADING & CONTRACTING	RIYADH
246.	AL ZAHRA HOSPITAL DUBAI	DUBAI
247.	ALBA POWER (P) LTD.	SRINAGAR
248.	ALBAYAAN EDUCATIONAL COMPLEX	QATAR
249.	ALBERTA HEALTH SERVICES	BANGALORE
250.	ALCATEL DEVELOPMENT INDIA	CHENNAI
251.	ALCATEL LUCENT (P) LTD. (NOKIA CORPORATION)	BANGALORE
252.	ALDERLEY FZE	DUBAI
253.	ALDHARIS SPECIALISED PIPES FITTINGS	DUBAI
254.	ALDHOW ENGINEERING	CHENNAI
255.	ALEMBIC PHARMACEUTICALS LTD.	VADODARA
256.	ALETHE LABS (I) (P) LTD.	NOIDA
257.	ALEXANDER THAMM GMBH	CHENNAI
258.	ALFANAR ELECTRICAL SYSTEMS	CHENNAI
259.	ALFANAR ELECTRICAL SYSTEMS	RIYADH
260.	ALFARDAN GROUP	QATAR
261.	ALGOSCALE TECHNOLOGIES (P) LTD.	NOIDA
262.	ALGO'TECH INDIA	NOIDA
263.	ALKRAFT THERMOTECNOLOGIES (P) LIMIT	CHENNAI
264.	ALL (I) INSTITUTE OF MEDICAL SCIENCES NEW DELHI	DELHI
265.	ALLAHABAD BANK	ALLAHABAD
266.	ALLEGION (I) (P) LTD.	BANGALORE
267.	ALLEGIS GROUP DEPUTED TO FORD TECHNOLOGY	CHENNAI
268.	ALLEGIS SERVICES (I) (P) LTD.	BANGALORE
269.	ALLGO EMBEDDED SYSTEMS	BANGALORE
270.	ALLIANCE TIRE GROUP	TIRUNELVELI
271.	ALLIANZ TECHNOLOGY	CHENNAI
272.	ALLIANZ TECHNOLOGY	THIRUVANANTHAPURAM
273.	ALLIED ELECTRICALS	BANGALORE
274.	ALLISON TRANSMISSION (I) (P) LTD.	CHENNAI
275.	ALLSCRIPTS	PUNE
276.	ALLSCRIPTS (I) (P) LTD.	BANGALORE
277.	ALLSCRIPTS (I) (P) LTD.	PUNE
278.	ALLSCRIPTS (I) LLP	PUNE

S.No.	ORGANIZATION	LOCATION
279.	ALLSOFT SOLUTIONS AND SERVICES (P) LTD.	DELHI
280.	ALLSTATE INDIA	BANGALORE
281.	ALMARAI COMPANY	RIYADH
282.	ALP CONSULTING LTD.	BANGALORE
283.	ALPHA ICT LLP	PUNE
284.	ALSTOM	AGRA
285.	ALSTOM BHARAT FORGE POWER (P) LIMITE	SANAND
286.	ALSTOM GROUP	CHENNAI
287.	ALSTOM GROUP	COIMBATORE
288.	ALSTOM GROUP	DELHI
289.	ALSTOM GROUP	KOLKATA
290.	ALSTOM SYSTEM (I) (P) LTD.	AGRA
291.	ALSTOM TRANSPORT (I) LTD.	BANGALORE
292.	ALSTOM TRANSPORT (I) LTD.	COIMBATORE
293.	ALSTOM TRANSPORT (I) LTD.	DELHI
294.	ALSTOM TRANSPORT (I) LTD.	PRAYAGRAJ
295.	ALSTRUT (I) (P) LTD.	CHENNAI
296.	ALTAIR ENGINEERING (I) (P) LTD.	BANGALORE
297.	ALTAIR ENGINEERING (I) (P) LTD.	PUNE
298.	AL-TASNIM ENTERPRISES LLC	MUSCAT,OMAN
299.	ALTEN CALSOFTLABS	BANGALORE
300.	ALTEN SVERIGE AB	PUNE
301.	ALTERNATIVE BUSINESS INTELLIGENCE (P) LTD.	BANGALORE
302.	ALTIMETRIK (I) (P) LTD.	BANGALORE
303.	ALTIMETRIK (I) (P) LTD.	CHENNAI
304.	ALTIMETRIK (I) (P) LTD.	HYDERABAD
305.	ALTIOSTAR	BANGALORE
306.	ALTISOURCE BUSINESS SOLUTIONS (P) LTD.	BANGALORE
307.	ALTRAN TECHNOLOGIES (I) (P) LTD.	BANGALORE
308.	ALTRAN TECHNOLOGIES (I) (P) LTD.	CHENNAI
309.	ALTRAN TECHNOLOGIES (I) (P) LTD.	COIMBATORE
310.	ALTRAN TECHNOLOGIES (I) (P) LTD.	DELHI
311.	ALTRAN TECHNOLOGIES (I) (P) LTD.	HYDERABAD
312.	ALUMINIUM BAHRAIN	BAHRAIN
313.	ALVAS EDUCATIONAL FOUNDATION	BANGALORE
314.	ALYX TECHNOLOGIES	PUNE
315.	AM EQUIPMENT & SERVICES (P) LTD.	DELHI
316.	AMADEUS SOFTWARE LABS (I) (P) LTD.	BANGALORE
317.	AMANA GENERAL CONTRACTING & STEEL BUILDINGS	DUBAI
318.	AMANA INDUSTRIES	SHARJAH
319.	AMAR IMPEX	CHENNAI
320.	AMARACORE (P) LTD.	BANGALORE
321.	AMARARAJA BATTERIES LTD.	BANGALORE
322.	AMAZATIC SOLUTIONS	PUNE
323.	AMAZON DEVELOPMENT CENTER (I) (P) LTD.	BANGALORE
324.	AMAZON DEVELOPMENT CENTER (I) (P) LTD.	CHENNAI
325.	AMAZON DEVELOPMENT CENTER (I) (P) LTD.	COIMBATORE
326.	AMAZON DEVELOPMENT CENTER (I) (P) LTD.	DELHI
327.	AMAZON DEVELOPMENT CENTER (I) (P) LTD.	GURGAON
328.	AMAZON DEVELOPMENT CENTER (I) (P) LTD.	HYDERABAD
329.	AMBOSELI PROFESSIONAL ASSOCIATE (P) LTD.	BANGALORE
330.	AMBUJA CEMENTS LTD.	GURGAON
331.	AMBUJA CEMENTS LTD.	JAIPUR
332.	AMD (I) (P) LTD.	BANGALORE
333.	AMD (I) (P) LTD.	HYDERABAD
334.	AMD R & D CENTER HYDERABAD	HYDERABAD
335.	AMDOCS	AMDOCS
336.	AMDOCS	DELHI
337.	AMDOCS	GURGAON
338.	AMDOCS	PUNE
339.	AMEC BLACKCAT	DOHA
340.	AMEC FOSTER WHEELER (I) (P) LTD.	KOLKATA
341.	AMEC FOSTER WHEELER ASIA PACIFIC PTE. LTD.	SINGAPORE
342.	AMERICAN COMMUNITY SCHOOL	DUBAI
343.	AMERICAN EXPRESS	BANGALORE
344.	AMERICAN EXPRESS	DELHI
345.	AMERICAN EXPRESS	GURGAON
346.	AMERICAN HOSPITAL DUBAI	DUBAI
347.	AMERICAN MEGATRENDS TECHNOLOGIES (I) (P) LTD.	CHENNAI
348.	AMERICAN ONCOLOGY INSTITUTE	DELHI
349.	AMERIPRISE (I) (P) LTD.	GURGAON

S.No.	ORGANIZATION	LOCATION
350.	AMERIPRISE FINANCIAL	DELHI
351.	AMERIPRISE FINANCIAL (P) LTD.	DELHI
352.	AMETEK INSTRUMENTS	BANGALORE
353.	AMETEK INSTRUMENTS (I) (P) LTD.	BANGALORE
354.	AMEYA PECISION ENGINEERS (P) LTD.	PUNE
355.	AMICORP MANAGEMENT (I) (P) LTD. (BANGALORE
356.	AMIGOS VENTURES	PUNE
357.	AMMANN (I) (P) LTD.	DELHI
358.	AMPHENOL FCI	COCHIN
359.	AMPLEX EMIRATES LLC	ABUDHABI
360.	AMPOOL (I) (P) LTD.	PUNE
361.	AMRI HOSPITALS BHUBANESWAR	BHUBANESWAR
362.	AMRITA CENTRE FOR CYBER SECURITY	KOLLAM
363.	AMRITA VISWA VIDYAPEETHAM UNIVERSITY	CHENNAI
364.	AMS SEMICONDUCTORS IND.PVT. LTD.	HYDERABAD
365.	AMW AUTO COMPONENTS LTD.	BHUJ
366.	ANALGE INFOTECH (P) LTD.	BANGALORE
367.	ANALINEAR IMAGING SYSTEMS	HYDERABAD
368.	ANALOG DEVICES (I) (P) LTD.	BANGALORE
369.	ANALOG DEVICES INC	BANGALORE
370.	ANALOG DEVICES INDIA	BANGALORE
371.	ANALYTICAL SOLUTIONS	MUMBAI
372.	ANALYTICS QUOTIENT SERVICES (P) LTD.	BANGALORE
373.	ANALYZER CAE SOLUTIONS PVT.LTD.	PUNE
374.	ANAND NVH (P) LTD.	DELHI
375.	ANCHOR ELECTRICALS (P) LTD.	DAMAN
376.	ANCHOR ELECTRICALS (P) LTD.	THANE
377.	ANDORTECH (I) (P) LTD.	BANGALORE
378.	ANDREW TELECOMMUNICATION (I) (P) LTD. (COMMSCOPE)	GOA
379.	ANERGY LTD.	CHENNAI
380.	ANKURA HOSPITAL FOR WOMEN AND CHILDREN	DUBAI
381.	ANNORA PHARMA	HYDERABAD
382.	ANORA SEMICONDUCTOR LABS (P) LTD.	BANGALORE
383.	ANRITSU (I) (P) LTD.	HYDERABAD
384.	ANS STEEL TUBES LTD.	FARIDABAD
385.	ANSALDO STS (A) A HITACHI GROUP COMPANY	BANGALORE
386.	ANSALDO STS AUSTRALIA PTY LTD.	PERTHAUSTRALIA
387.	ANSYS SOFTWARE (P) LTD.	BANGALORE
388.	ANSYS SOFTWARE (P) LTD.	PUNE
389.	ANTARIKSH WASTE VENTURES (P) LTD.	CHENNAI
390.	ANVESHA COMMUNITY DEVELOPMENT	BANGALORE
391.	ANZ BANKING OPERATIONS AND TECHNOLOGY (P) LTD.	BANGALORE
392.	ANZ OPERATION AND TECHNOLOGY	BANGALORE
393.	ANZ OPERATIONS AND TECHNOLOGY (P) LTD.	BANGALORE
394.	ANZ SERVICES INDIA	BANGALORE
395.	AO SMITH (I) WATER PRODUCTS (P) LTD.	BANGALORE
396.	AON SERVICES (P) LTD.	BANGALORE
397.	AON SERVICES (P) LTD.	GURGAON
398.	AON SERVICES (P) LTD.	NOIDA
399.	AOTC LLC	MUMBAI
400.	APERTA LTD.	COIMBATORE
401.	APMOSYS TECHNOLOGIES (P) LTD.	MUMBAI
402.	APOLLO GLENEAGLES HOSPITALS	KOLKATA
403.	APOLLO HOSPITALS	ARAGONDA
404.	APOLLO HOSPITALS	CHENNAI
405.	APOLLO HOSPITALS	HYDERABAD
406.	APOLLO MEDICAL COLLEGE HYDERABAD	HYDERABAD
407.	APOLLO SPECIALITY HOSPITALS	NELLORE
408.	APOLLO TYRES GLOBAL R&D CENTRE-ASIA	CHENNAI
409.	APOLLO TYRES LTD.	CHENNAI
410.	APOLLO TYRES LTD.	COIMBATORE
411.	APOLLO TYRES LTD.	VADODARA
412.	APOLLOTYRES GLOBAL R&D CENTRE	CHENNAI
413.	APPOX LAB (P) LTD.	DELHI
414.	APPICON IT (P) LTD.	HYDERABAD
415.	APPIRIO	BANGALORE
416.	APPIRIO INDIA	JAIPUR
417.	APPLE (I) (P) LTD.	HYDERABAD
418.	APPLE INC	HYDERABAD
419.	APPLIED MATERIALS	BANGALORE
420.	APPLIED MATERIALS	CHENNAI

S.No.	ORGANIZATION	LOCATION
421.	APPLIED MATERIALS (I) (P) LTD.	BANGALORE
422.	APPLIED MATERIALS (I) (P) LTD.	CHENNAI
423.	APPLIED RESEARCH & DEVELOPMENT LABORATOR	JAIPUR
424.	APPLUS VELOSI LLC	MUSCAT,OMAN
425.	APPS ASSOCIATES	HYDERABAD
426.	APPSTER LLP	GURGAON
427.	APPSTER LLP	NOIDA
428.	APRICOT FOODS (P) LTD.	DELHI
429.	APT ELECTRONICS (P) LTD.	DELHI
430.	APTEAN (I) (P) LTD.	BANGALORE
431.	APTIV	BANGALORE
432.	APTIV	CHENNAI
433.	APTIV - TCI	BANGALORE
434.	APTIV AUTOMOTIVE	BANGALORE
435.	APTIV COMPONENTS (I) (P) LTD.	BANGALORE
436.	APTIV COMPONENTS (I) (P) LTD.	PUNE
437.	APTIV COMPONENTS (I) (P) LTD.	DELHI
438.	APTIV-TECHNICAL CENTER INDIA	BANGALORE
439.	APTTUS	BANGALORE
440.	APTUS DATA LABS	HYDERABAD
441.	ARABIAN GULF SWITCHGEAR	SHARJAH
442.	ARABIAN INDUSTRIES MANUFACTURING	CHENNAI
443.	ARABIAN INDUSTRIES PROJECTS LLC	BANGALORE
444.	ARABTEC CONSTRUCTION LLC	DUBAI
445.	ARC ELECTRICALS	CUDDALORE
446.	ARCADIS DESIGN & CONSULTANCY INC	DUBAI
447.	ARCADIS GEC INDIA	BANGALORE
448.	ARCESIUM (I) (P) LTD.	HYDERABAD
449.	ARDC HAL(HINDUSTAN AERONAUTICS LTD.)	BANGALORE
450.	ARDEN TELECOM PVT.LTD.	DELHI
451.	ARGUS EMBEDDED SYSTEMS	HYDERABAD
452.	ARIAL ENGINEERING SERVICES	HYDERABAD
453.	ARIBA TECHNOLOGIES (I) (P) LTD.	BANGALORE
454.	ARICENT	BANGALORE
455.	ARICENT	BHUBANESWAR
456.	ARICENT	CHENNAI
457.	ARICENT	DELHI
458.	ARICENT	GURGAON
459.	ARICENT	HYDERABAD
460.	ARIES MARINE	SHARJAH
461.	ARISGLOBAL SOFTWARE (P) LTD.	BANGALORE
462.	ARISTOCRAT TECHNOLOGIES	NOIDA
463.	ARK 3D	CHENNAI
464.	ARKIPLAN ARCHITECTS CONSULTING ENGINEERS	DUBAI
465.	ARLO TECHNOLOGIES SERVICES INDIA	BANGALORE
466.	ARM EMBEDDED TECHNOLOGIES (P) LTD.	BANGALORE
467.	ARMACELL (I) (P) LTD.	AGRA
468.	ARMACELL (I) (P) LTD.	PUNE
469.	ARMED FORCES	DELHI
470.	ARMED FORCES	GUWAHATI
471.	ARMED FORCES	MUMBAI
472.	ARMED FORCES	NOIDA
473.	ARMED FORCES	PUNE
474.	ARMOR (I) CODING AND IMAGING SUPPLIES (P) LTD.	BANGALORE
475.	ARMSTRONG INTERNATIONAL (P) LTD.	HYDERABAD
476.	ARMY	DELHI
477.	ARMY	KOLKATA
478.	ARMY/ DRDO	KOLKATA
479.	ARPAN INFRASOLUTION (P) LTD.	LOHARDAGA
480.	ARRAYSTORM LIGHTING (P) LTD.	BANGALORE
481.	ARRIS GROUP (I) (P) LTD.	BANGALORE
482.	ARRK SOLUTIONS (P) LMTD	MUMBAI
483.	ARTEMIS HOSPITAL	DELHI
484.	ARTEMIS HOSPITAL GURGAON	DELHI
485.	ARTEMIS HOSPITALS GURGAON	DELHI
486.	ARTZ SOLUTIONS	COIMBATORE
487.	ARUBA NETWORKS (I) (P) LTD.	BANGALORE
488.	ARUNA ALLOY STEELS (P) LTD.	MADURAI
489.	ARYAKA NETWORKS	BANGALORE
490.	ARYAVRAT INFOTECH (P) LTD.	JAIPUR
491.	ASAHI (I) GLASS LTD.	GURGAON

S.No.	ORGANIZATION	LOCATION
492.	ASAHI (I) GLASS LTD.	MUMBAI
493.	ASAP BERHAD	KUALALUMPUR
494.	ASAS HUMAN RSOURCES	ABUDHABI
495.	ASB INTERNATIONAL	MUMBAI
496.	ASC RECORDS (AT)	BANGALORE
497.	ASCENT CONSULTING SERVICES (P) LTD.	BANGALORE
498.	ASD GLOBAL (I) (P) LTD.	DELHI
499.	ASERGIS TELECOM SERVICES (P) LTD.	GURGAON
500.	ASHOK IRON WORKS (P) LTD.	GOA
501.	ASHOK LEYLAND LTD.	BANGALORE
502.	ASHOK LEYLAND LTD.	CHENNAI
503.	ASHOK LEYLAND LTD.	HOSUR
504.	ASHOK LEYLAND LTD.	KOLKATA
505.	ASHOK LEYLAND LTD.	ALWAR
506.	ASHOK LEYLAND LTD.	DELHI
507.	ASHOK LEYLAND LTD.	DUBAI
508.	ASHOK LEYLAND LTD.	FARIDABAD
509.	ASHOK LEYLAND LTD.	JAMSHEDPUR
510.	ASHOK LEYLAND LTD.	SILIGURI
511.	ASHOK LEYLAND LTD.	VELLIVOYALCHAVADI
512.	ASHOK LEYLAND LTD.	CHENNAI
513.	ASHTECH TOOLING & STAMPING PVT.LTD	PUNE
514.	ASIA AUTOMATION (P) LTD.	PUNE
515.	ASIAAN METALS AND ALUMINIUM CASTING PVT.LTD	BANGALORE
516.	ASIAN HOSPITAL	DELHI
517.	ASIAN INSTITUTE OF MEDICAL SCIENCES FAR	FARIDABAD
518.	ASIAN PAINTS LTD.	COIMBATORE
519.	ASIAN PAINTS ME LLC	DELHI
520.	ASIAN PAINTS PPG (P) LTD.	MUMBAI
521.	ASIANPAINTS LTD.	CHENNAI
522.	ASK AUTOMOTIVE (P) LTD.	GURGAON
523.	ASM ENTERPRISE (I) (P) LTD.	HYDERABAD
524.	ASM TECHNOLOGIES (P) LTD.	BANGALORE
525.	ASP INFOTECH	DELHI
526.	ASPARTIKA BIOTECH (P) LTD.	BANGALORE
527.	ASPIRE SYSTEMS (I) (P) LTD.	CHENNAI
528.	ASPIRING MINDS	GURGAON
529.	ASQUARE RETAIL LLP	PUNE
530.	ASSAM ELECTRONICS DEVELOPMENT CORPORATION LTD.	ASSAM
531.	ASSET RECONSTRUCTION CO. (I) LTD.	MUMBAI
532.	ASTA (I) (P) LTD.	VADODARA
533.	ASTECHNOSOFT (P) LTD.	PUNE
534.	ASTER AADHAR HOSPITAL KOLHAPUR	MUMBAI
535.	ASTERIA AEROSPACE	BANGALORE
536.	ASTERIA AEROSPACE (P) LTD.	BANGALORE
537.	ASTRAZENECA	CHENNAI
538.	ASTRAZENECA (I) (P) LTD.	CHENNAI
539.	AT&S (I) (P) LTD.	NANJANGUD
540.	AT&T COMMUNICATION SERVICES (I) (P) LTD.	BANGALORE
541.	AT&T COMMUNICATIONS SERVICES (P) LTD.	BANGALORE
542.	ATC TELECOM INFRASTRUCTURE (P) LTD.	GURGAON
543.	ATC TIRES (P) LTD.	TAMILNADU
544.	ATC TIRES (P) LTD.	TIRUNELVELI
545.	ATC TIRES (P) LTD.	CHENNAI
546.	ATECH SOLUTIONS (P) LTD.	BANGALORE
547.	ATG TIRE (P) LTD.	BANGALORE
548.	ATHARVARAJ HATCHERIES	NAGPUR
549.	ATHENA DRUG DELIVERY SOLUTIONS	MUMBAI
550.	ATHENA HEALTH TECHNOLOGIES (P) LTD.	CHENNAI
551.	ATHENAHEALTH	BANGALORE
552.	ATHENAHEALTH TECHNOLOGY (P) LTD.	BANGALORE
553.	ATHENESE DIAGNOSTICS (P) LTD.	CHENNAI
554.	ATHENTA TECHNOLOGIES (P) LTD.	NOIDA
555.	ATHER ENERGY (P) LTD.	BANGALORE
556.	ATHMA HOSPITAL 12 B 10TH CROSS EAST	CHENNAI
557.	ATLAB	DUBAI
558.	ATLANTIS LAB PVT.LTD.	PUNE
559.	ATLAS COPCO (I) LTD.	BANGALORE
560.	ATLAS COPCO (I) LTD.	PUNE
561.	ATLAS ELEKTRONIK (I) (P) LTD.	MUMBAI
562.	ATLAS HEALTHCARE SOFTWARE (I) (P) LTD.	KOLKATA

S.No.	ORGANIZATION	LOCATION
563.	ATLASCOPCO (I) LTD.	HYDERABAD
564.	ATLASSIAN	BANGALORE
565.	ATMECS	BANGALORE
566.	ATMECS	HYDERABAD
567.	ATMECS TECHNOLOGIES (P) LTD.	HYDERABAD
568.	ATOLL SOLUTIONS (P) LTD.	BANGALORE
569.	ATOS (I) (P) LTD.	BANGALORE
570.	ATOS (I) (P) LTD.	GURGAON
571.	ATOS (I) (P) LTD.	KOLKATA
572.	ATOS (I) (P) LTD.	POLAND
573.	ATOS (I) (P) LTD.	PUNE
574.	ATOS GLOBAL IT SOLUTIONS AND SERVICES (P) LTD.	MUMBAI
575.	ATOS SYNTEL	CHENNAI
576.	ATOTECH DEVELOPMENT CENTRE (P) LIMIT	BANGALORE
577.	ATRIA CONVERGENCE TECHNOLOGIES	BANGALORE
578.	ATTRA INFOTECH (P) LTD.	BANGALORE
579.	ATTUNE INFOCOM (P) LTD.	AHMEDABAD
580.	ATTUNE INFOCOM (P) LTD.	BANGALORE
581.	ATUL LTD.	MUMBAI
582.	AUDIENCE SCIENCE (I) (P) LTD.	PUNE
583.	AUJAS NETWORKS (P) LTD.	DELHI
584.	AUM BADRINATH DENTAL & PHYSIOTHERAPY CLINIC	DELHI
585.	AURECON	DUBAI
586.	AURIGO SOFTWARE	BANGALORE
587.	AURIONPRO SOLUTIONS LTD.	PUNE
588.	AUROBINDO PHARMA LTD.	HYDERABAD
589.	AUROBINDO PHARMA LTD.	VISAKHAPATNAM
590.	AUTO IGNITION LTD.	MUMBAI
591.	AUTOCOP (I) (P) LDT	PUNE
592.	AUTODESK (I) (P) LTD.	BANGALORE
593.	AUTOGRID (I) (P) LTD.	BANGALORE
594.	AUTOLIV	BANGALORE
595.	AUTOLIV (I) (P) LTD.	BANGALORE
596.	AUTOMATIC DATA PROCESSING	HYDERABAD
597.	AUTOMATION SYSTEMS	HYDERABAD
598.	AUTOMOTIVE AXLES LTD.	BANGALORE
599.	AUTOMOTIVE AXLES LTD. INDIA	BANGALORE
600.	AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA	PUNE
601.	AUTOMOTIVE ROBOTICS (I) (P) LTD.	CHENNAI
602.	AUTOMOTIVE ROBOTICS (I) (P) LTD.	HYDERABAD
603.	AUTOMOTIVE ROBOTICS INC	HYDERABAD
604.	AV LIGHT AUTOMOTIVE LTD.	GURGAON
605.	AVADH RAIL INFRA LTD.	DELHI
606.	AVALON DATA SYSTEMS LLC	ABUDHABI
607.	AVALON TECHNOLOGY AND SERVICES (P) LTD.	CHENNAI
608.	AVANKIA LTD.	BANGALORE
609.	AVAYA (I) (P) LTD.	PUNE
610.	AVENCH SYSTEM (P) LTD.	BANGALORE
611.	AVEVA SOLUTIONS (I) LLP	HYDERABAD
612.	AVEVA SOLUTIONS LLP	HYDERABAD
613.	AVI SC-T&D-MULTI MODAL FACILITY	PUNE
614.	AVIHS TECHNOLOGIES	BANGALORE
615.	AVIN SYSTEMS	BANGALORE
616.	AVL (I) (P) LTD.	BANGALORE
617.	AVL (I) (P) LTD.	GURGAON
618.	AVL TECHNICAL CENTRE (P) LTD.	DELHI
619.	AVL TECHNICAL CENTRE PVT	DELHI
620.	AVTEC LTD.	BANGALORE
621.	AVTEC LTD.	HOSUR
622.	AVTEC.LTD	DELHI
623.	AVX ELECTRONICS	DELHI
624.	AWALGULF MANUFACTURING CO B.S.C (C)	MAVELIKARA
625.	AWNICS TECHNOLOGIES (P) LTD.	BANGALORE
626.	AXA BUSINESS SERVICES	PUNE
627.	AXIOM ENERGY CONVERSION LTD.	HYDERABAD
628.	AXIS BANK	DELHI
629.	AXIS BANK	MUMBAI
630.	AXIS BANK LTD.	CHENNAI
631.	AXIS CADES	BANGALORE
632.	AXIS CADES	HYDERABAD
633.	AXIS CADES ENGINEERING SOLUTIONS	HYDERABAD

S.No.	ORGANIZATION	LOCATION
634.	AXIS ELECTRICAL COMPONENTS (I) (P) LTD.	PUNE
635.	AXON AUTOTEC (P) LTD.	DELHI
636.	AYAAN INSTITUTE OF MEDICAL SCIENCES	HYDERABAD
637.	AYT INTERNATIONAL L.L.C	DUBAI
638.	AYURVEDIC CLINIC	HYDERABAD
639.	AZCOM INFOSOLUTIONS (I) (P) LTD.	GURGAON
640.	AZUGATELEMATICS (P) LTD.	BANGALORE
641.	B M BIRLA HEART RESEARCH CENTRE	KOLKATA
642.	B.A CONTINUUM (I) (P) LTD.	CHENNAI
643.	BA CONTINUUM (I) (P) LTD.	CHENNAI
644.	BA CONTINUUM	MUMBAI
645.	BA CONTINUUM (I) (P) LTD.	CHENNAI
646.	BA CONTINUUM (I) (P) LTD.	DELHI
647.	BA CONTINUUM (I) (P) LTD.	HYDERABAD
648.	BA CONTINUUM INDIA	HYDERABAD
649.	BABY DESTINATION	DELHI
650.	BACARDI (I) (P) LTD.	DELHI
651.	BACI	HYDERABAD
652.	BADVE ENGINEERING LTD.	GURGAON
653.	BAEHAL	BANGALORE
654.	BAEHAL SOFTWARE LTD.	BANGALORE
655.	BAHWAN ENGINEERING CO. LLC	DUBAI
656.	BAHWAN TECHNICAL CONTRACTING CO LLC	DUBAI
657.	BAINITE MACHINES (P) LTD.	MUMBAI
658.	BAJAJ AUTO LTD.	AURANGABAD
659.	BAJAJ AUTO LTD.	PANTNAGAR
660.	BAJAJ AUTO LTD.	PUNE
661.	BAJAJ ELECTRICALS LTD.	BANGALORE
662.	BAJAJ ELECTRICALS LTD.	MUMBAI
663.	BAJAJ FINANCE	PUNE
664.	BAJAJ POWER LTD.	DELHI
665.	BAJORIA APPLIANCES (P) LTD.	BHUBANESWAR
666.	BAKELITE COATINGS AND PAINTS (P) LTD.	HYDERABAD
667.	BAKER HUGHES	PUNE
668.	BAKER HUGHES SINGAPORE PTE.	MUMBAI
669.	BALCO MEDICAL CENTRE	CHENNAI
670.	BALFOUR BEATYY INFRASTRUCTURE LTD. BANGALORE	BANGALORE
671.	BALIRAM TECHNOLOGIES (OPC) (P) LTD.	PUNE
672.	BALL AEROCAN (I) (P) LTD.	AHMEDABAD
673.	BALLY TECHNOLOGIES (I) (P) LTD.	CHENNAI
674.	BANGALORE BAPTIST HOSPITAL	BANGALORE
675.	BANGALORE INTEGRATED SYSTEM SOLUTIONS PV	BANGALORE
676.	BANGALORE METRO RAIL CORPORATION LTD.	BANGALORE
677.	BANK OF AMERICA	CHENNAI
678.	BANK OF AMERICA	DELHI
679.	BANK OF AMERICA	HYDERABAD
680.	BANK OF AMERICA CONNTINUUM LTD.	CHENNAI
681.	BANK OF AMERICA CONTINUUM	HYDERABAD
682.	BANK OF AMERICA CONTINUUM SOLUTIONS	HYDERABAD
683.	BANK OF BARODA	CHENNAI
684.	BANK OF BARODA	MUMBAI
685.	BANK OF MAHARASHTRA	PUNE
686.	BARCLAYS BANK PLC	HYDERABAD
687.	BARCLAYS CAPITAL SERVICES LTD. SINGAPORE	SINGAPORE
688.	BARCLAYS GLOBAL SERVICE CENTRE (P) LTD.	GOA
689.	BARCLAYS GLOBAL SERVICE CENTRE (P) LTD.	PUNE
690.	BARCLAYS SERVICES (I) (P) LTD.	PUNE
691.	BARCO ELECTRONICS SYSTEMS (P) LTD.	NOIDA
692.	BARCO ELECTRONICS SYSTEMS P LTD.	DELHI
693.	BARRACUDA NETWORKS (P) LTD.	BANGALORE
694.	BASE INFORMATION MANAGEMENT (P) LTD.	MUMBAI
695.	BASF INDIA	GURGAON
696.	BASIS MOLD (I) (P) LTD.	PUNE
697.	BAYER ZYDUS PHARMA (P) LTD.	PUNE
698.	BBL DAIDO (P) LTD.	CHENNAI
699.	BCEC	CHENNAI
700.	BE ENGINEERING SERVICES (I) (P) LTD.	HYDERABAD
701.	BE NGINEERING SERVICES (I) PVT.LTD	HYDERABAD
702.	BECKMAN COULTER	BANGALORE
703.	BEKAERT INDUSTRIES (P) LTD.	PONDICHERY
704.	BEKAERT INDUSTRIES (P) LTD.	PUNE

S.No.	ORGANIZATION	LOCATION
705.	BEL	BANGALORE
706.	BELCAN	BANGALORE
707.	BELCAN (I) (P) LTD.	HYDERABAD
708.	BELIEVERS CHURCH MEDICAL COLLEGE HOSPITAL	COIMBATORE
709.	BELIEVERS CHURCH MEDICAL COLLEGE	THIRUVALLA
710.	BELIEVERS CHURCH MEDICAL COLLEGE HOSPITAL	THIRUVALLA
711.	BELIEVERS CHURCH MEDICAL COLLEGE HOSPITAL	COIMBATORE
712.	BELLSONICA AUTO COMPONENT (I) (P) LTD.	GURGAON
713.	BEML LTD.	BANGALORE
714.	BEML LTD.	DELHI
715.	BEML LTD.	MYSORE
716.	BEML LTD.	BANGALORE
717.	BENGALURU	BANGALORE
718.	BENNETT COLEMAN & CO LTD.	PUNE
719.	BENNETT UNIVERSITY	NOIDA
720.	BENU NETWORKS PACKET SWITCH (P) TD.	HYDERABAD
721.	BERCO UNDERCARRIAGES(INDIA)PVT LTD.	HYDERABAD
722.	BERGER BECKER COATINGS (P) LTD.	GOA
723.	BERKADIA SERVICES (I) (P) LTD.	HYDERABAD
724.	BEST KOKI AUTOMOTIVE (P) LTD.	DELHI
725.	BETTER FINANCIAL CORPORATION	HYDERABAD
726.	BEUMER GROUP	DOHA
727.	BEUMER GROUP	QATAR
728.	BEWELL HOSPITALS	CHENNAI
729.	BG EXPLORATION & PRODUCTION (I) LTD.	MUMBAI
730.	BGR ENERGY SYSTEMS LTD.	CHENNAI
731.	BHANDARI ADVOCATES	DELHI
732.	BHARANI ADVANCED DENTAL CARE	BANGALORE
733.	BHARAT BIOTECH INTERNATIONAL LTD.	HYDERABAD
734.	BHARAT DYNAMICS LTD. KANCHANBAGH	HYDERABAD
735.	BHARAT ELECTRONICS LTD.	BANGALORE
736.	BHARAT ELECTRONICS LTD.	CHENNAI
737.	BHARAT ELECTRONICS LTD.	DELHI
738.	BHARAT ELECTRONICS LTD.	GHAZIABAD
739.	BHARAT ELECTRONICS LTD.	HYDERABAD
740.	BHARAT ELECTRONICS LTD. GHAZIABAD	DELHI
741.	BHARAT ELECTRONICS LTD.S	CHENNAI
742.	BHARAT FINANCIAL INCLUSION LTD.	HYDERABAD
743.	BHARAT FORGE	CHAKA
744.	BHARAT FORGE	MUNDWA
745.	BHARAT FORGE LTD.	BELAMB
746.	BHARAT FORGE LTD.	PUNE
747.	BHARAT HEAVY ELECTRICALS LTD.	BANGALORE
748.	BHARAT HEAVY ELECTRICALS LTD.	BHOPAL
749.	BHARAT HEAVY ELECTRICALS LTD.	CHENNAI
750.	BHARAT HEAVY ELECTRICALS LTD.	COIMBATORE
751.	BHARAT HEAVY ELECTRICALS LTD.	HARIDWAR
752.	BHARAT HEAVY ELECTRICALS LTD.	HYDERABAD
753.	BHARAT HEAVY ELECTRICALS LTD.	JAGDISHPUR
754.	BHARAT HEAVY ELECTRICALS LTD.	RANIPET
755.	BHARAT HEAVY ELECTRICALS LTD.	TIRUCHIRAPALLI
756.	BHARAT PETROLEUM CORPORATION LTD.	HYDERABAD
757.	BHARAT PETROLEUM CORPORATION LTD. KR	KOCHI
758.	BHARAT SANCHAR NIGAM LTD.	HYDERABAD
759.	BHARAT TECHNOPLAST (P) LTD.	AHMEDABAD
760.	BHARATH HEAVY ELECTRICALS LTD.	CHENNAI
761.	BHARATI VIDYAPEETH DEEMED UNIV. MEDICAL	PUNE
762.	BHARTI AIRTEL LTD.	GURGAON
763.	BHARTI INFRA TEL LTD.	BHUBANESWAR
764.	BHAVYABANU ELECTRONICS (P) LTD.	HYDERABAD
765.	BHEL CORPORATE RESEARCH AND DEVELOPMENT HYDERABAD	HYDERABAD
766.	BHEL HARIDWAR	DELHI
767.	BHTC (I) (P) LTD.	PUNE
768.	BHUMI ENTECH EQUIPMENTS (P) LTD.	DELHI
769.	BHUSHAN POWER AND STEEL LTD.	KOLKATA
770.	BHUSHAN POWER AND STEEL LTD.	SAMBALPUR
771.	BHUSHAN STEEL LTD.	ANGUL
772.	BHUSHAN STEEL LTD.	DELHI
773.	BIDGELY	BANGALORE
774.	BIESSE MANUFACTURING (P) LTD.	BANGALORE
775.	BIESSE MANUFACTURING CO (P) LTD.	BANGALORE

S.No.	ORGANIZATION	LOCATION
776.	BIG TREE ENTERTAINMENT (P) LTD.	BANGALORE
777.	BIGTREE ENTERTAINMENT (P) LTD.	BANGALORE
778.	BILAD OMAN LLC (SUHAIL BAHWAN GROUP)	SOHAROMAN
779.	BILFINGER DEUTSCHE BABCOCK EMIRATES LLC	BITSPILANI
780.	BILLIONTAGS CREATIONS (P) LTD.	CHENNAI
781.	BIMS HOSPITAL	MUMBAI
782.	BINANI CEMENT FACTORY	DUBAI
783.	BINLADIN CONTRACTING GROUP	DUBAI
784.	BIO VEDA ACTION RESEARCH COMPANY	PAONTA
785.	BIOCON	BANGALORE
786.	BIOCON	HYDERABAD
787.	BIOCON	MALAYSIA
788.	BIOCON	SHAMEERPET
789.	BIOCON BIOLOGICS (I) LTD.	BANGALORE
790.	BIOCON LTD.	BANGALORE
791.	BIOLOGICAL E LTD.	HYDERABAD
792.	BIOLOGICAL E. LTD.	CHENNAI
793.	BIPL	CHENNAI
794.	BIRDEYE SOFTWARE (P) LTD.	GURGAON
795.	BIRLA COPPER DAHEJ GUJARAT	DAHEJ
796.	BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE PILANI	HYDERABAD
797.	BIRLA TYRES LTD.	CHENNAI
798.	BIRLA TYRES LTD.	HYDERABAD
799.	BIRLASOFT	BANGALORE
800.	BIRLASOFT	PUNE
801.	BIRLASOFT (I) LTD.	BANGALORE
802.	BIRLASOFT (I) LTD.	HYDERABAD
803.	BIRLASOFT (I) LTD.	NEWJERSEY
804.	BIRLASOFT (P) LTD.	PUNE
805.	BIRLASOFT LTD.	DELHI
806.	BIRLASOFT LTD. PLOT NO 22 SECTOR 135 NOIDA	DELHI
807.	BISS (P) LTD.	BANGALORE
808.	BISTA SOLUTIONS (P) LTD.	MUMBAI
809.	BITS PILANI GOA CAMPUS	BITSPILANI
810.	BITS PILANI GOA CAMPUS	GOA
811.	BITS PILANI GOA CAMPUS	VASCODAGAMA
812.	BIW SOFT (P) LTD.	CHENNAI
813.	BIZACUITY SOLUTIONS (P) LTD.	BANGALORE
814.	BIZIMPACT KNOWLEDGE SERVICES LLP	BANGALORE
815.	BK GULF LLC	DUBAI
816.	BLACK CAT CONTRACTING AND ENGINEERING SERVICES WLL	CHENNAI
817.	BLACKCAT ENGINEERING AND CONSTRUCTION	DUBAI
818.	BLACKPEPPER TECHNOLOGIES (P) LTD.	BANGALORE
819.	BLOOM ENERGY (I) (P) LTD.	BANGALORE
820.	BLUE STAR LTD.	BANGALORE
821.	BLUE STAR LTD.	CHENNAI
822.	BLUE STAR LTD.	DELHI
823.	BLUE STAR LTD.	HYDERABAD
824.	BLUE STAR LTD.	KOLKATA
825.	BLUE STAR LTD.	MUMBAI
826.	BLUECHIP ENERGY SOLUTIONS (P) LTD.	DELHI
827.	BLUECREST TECHNOLOGY (P) LTD.	DELHI
828.	BLUESTAR LTD.	BANGALORE
829.	BLUESTAR LTD.	THANE
830.	BLUESTONE.COM	BANGALORE
831.	BMC SOFTWARE	BANGALORE
832.	BMC SOFTWARE	HYDERABAD
833.	BMC SOFTWARE	PUNE
834.	BMC SOFTWARE (I) (P) LTD.	DELHI
835.	BMRCL	BANGALORE
836.	BNP PARIBAS ISPL	MUMBAI
837.	BNY MELLON (I) (P) LTD.	PUNE
838.	BNYMELLON TECHNOLOGY (P) LTD.	CHENNAI
839.	BOEING (I) (P) LTD.	BANGALORE
840.	BOEING (I) (P) LTD.	CHENNAI
841.	BOEING INTERNATIONAL CORPORATION (I) P	BANGALORE
842.	BOLTELL INFOMEDIA (P) LTD.	BANGALORE
843.	BOLTON OILFIELD SERVICES LLC	CHENNAI
844.	BOMBARDIER TRANSPORTATION (I) (P) LTD.	HYDERABAD
845.	BOMBARDIER TRANSPORTATION (I) (P) LTD.	PUNE
846.	BOMBARDIER TRANSPORTATION (I) (P) LTD.	VADODARA

S.No.	ORGANIZATION	LOCATION
847.	BOMBAY GAS	PUNE
848.	BONFLEET SOLUTIONS (P) LTD.	PUNE
849.	BOOKYOURGYM FITNESS (P) LTD.	BANGALORE
850.	BORDER ROAD ORGANIZATION	DELHI
851.	BORQS SOFTWARE SOLUTIONS (P) LTD.	BANGALORE
852.	BORRI POWER ME FZCO	DUBAI
853.	BOSCH AUTOMOTIVE ELECTRONICS (I) (P) LTD.	BANGALORE
854.	BOSCH CHASSIS SYSTEMS (I) (P) LTD.	DELHI
855.	BOSCH CHASSIS SYSTEMS (I) (P) LTD.	PUNE
856.	BOSCH LTD.	BANGALORE
857.	BOSCH LTD.	COIMBATORE
858.	BOSCH LTD.	DELHI
859.	BOSCH LTD.	NASHIK
860.	BOSCH LTD.	PUNE
861.	BOSTON SCIENTIFIC	DELHI
862.	BOSTON SCIENTIFIC TECHNOLOGY & ENGG SERVICE PVT LTD	GURGAON
863.	BOTIL OIL TOOLS (I) (P) LTD.	GURGAON
864.	BOTTOMLINE TECHNOLOGIES	MUMBAI
865.	BP EQUITIES (P) LTD.	MUMBAI
866.	BRAHMOS AEROSPACE	BRAHMOSAEROSPACE
867.	BRAHMOS AEROSPACE	DELHI
868.	BRAHMOS AEROSPACE (P) LTD.	DELHI
869.	BRAINMOBI	NOIDA
870.	BRAINPAN INNOVATIONS (P) LTD.	DELHI
871.	BRAINTECHNOSYS (P) LTD.	NOIDA
872.	BRAKES (I) (P) LTD.	CHENNAI
873.	BRANDENBURG INNOVATIONS (I) (P) LTD.	BANGALORE
874.	BREACH CANDY HOSPITAL TRUST	MUMBAI
875.	BRIDGESTONE (I) (P) LTD.	INDORE
876.	BRIDGETREE CONSULTING (P) LTD.	KOLKATA
877.	BRILLIO	BANGALORE
878.	BRILLIO TECHNOLOGIES (P) LTD.	BANGALORE
879.	BRITANNIA INDUSTRIES LTD.	DELHI
880.	BRITANNIA INDUSTRIES LTD.	ERODE
881.	BRITANNIA INDUSTRIES LTD.	KOLKATA
882.	BRITISH COUNCIL MGT. SERVICES	DELHI
883.	BRITISH TELECOM	BANGALORE
884.	BRITISH TELECOM	DELHI
885.	BRITISH TELECOM ESERV	BANGALORE
886.	BROADCOM	BANGALORE
887.	BROADCOM	HYDERABAD
888.	BROADCOM COMMUNICATION TECHNOLOGIES PVT	BANGALORE
889.	BROADCOM COMMUNICATION TECHNOLOGIES PVT	HYDERABAD
890.	BROADCOM COMMUNICATIONS TECHNOLOGIES (P) LTD.	BANGALORE
891.	BROADCOM LTD.	BANGALORE
892.	BROADCOM LTD.	HYDERABAD
893.	BROADRIDGE	BANGALORE
894.	BROADRIDGE	HYDERABAD
895.	BROADRIDGE FINANCIAL SOLUTIONS (I) (P) LIM	BANGALORE
896.	BROADRIDGE FINANCIAL SOLUTIONS (I) (P) LTD.	HYDERABAD
897.	BROCADE COMMUNICATION SYSTEM	BANGALORE
898.	BROCADE COMMUNICATIONS SYSTEMS (P) LTD.	BANGALORE
899.	BROOKFIELD MULTIPLEX MEDGULF JV WLL QAT	DOHA
900.	BSBK (P) LTD.	RAIPUR
901.	BSH HOUSEHOLD APPLIANCES MANUFACTURING	PUNE
902.	BSH HOUSEHOLD APPLIANCES MFG. (P) LTD.	BANGALORE
903.	BSI GROUP (I) (P) LTD.	KOLKATA
904.	BSNL	CHENNAI
905.	BSNL	DELHI
906.	BSNL	HYDERABAD
907.	BSNL	RAIGARH
908.	BT ESERV (I) (P) LTD.	BANGALORE
909.	BT GLOBAL BUISNESS SERVICES (P) LTD.	DELHI
910.	BT GLOBAL SERVICE LTD.	GURGAON
911.	BTCXINDIA	HYDERABAD
912.	BTL (I) (P) LTD.	BANGALORE
913.	BUCHER HYDRAULICS (P) LTD.	DELHI
914.	BUHLER (I) (P) LTD.	BANGALORE
915.	BUILDING BLOCKS LEARNING SOLUTIONS (P) LTD.	DELHI
916.	BUMI ARMADA BERHAD	DELHI
917.	BUMI ARMADA BERHAD	KUALALUMPUR

S.No.	ORGANIZATION	LOCATION
918.	BUMI ARMADA BERHAD	SINGAPORE
919.	BUREAU OF INDIAN STANDARDS	ABUDHABI
920.	BUREAU OF INDIAN STANDARDS	KOCHI
921.	BUREAU OF INDIAN STANDARDS	NOIDA
922.	BUREAU VERITAS CPS (I) (P) LTD.	DELHI
923.	BUREAU VERITAS MIDDLE EAST COMPANY.L.L.C	DUBAI
924.	BURKAN MUNITIONS SYSTEMS	DUBAI
925.	BURNDY TECHNOLOGIES	CHENNAI
926.	BURNS & MCDONNELL INDIA	MUMBAI
927.	BUSINESS BRIO	KOLKATA
928.	BUSINESS GURU	CHENNAI
929.	BUSIPRO CONSULTANCY AND SERVICES (P) LTD.	CHENNAI
930.	BYDESIGN (I) (P) LTD.	BANGALORE
931.	C.R.I PUMPS	COIMBATORE
932.	C3I SOLUTIONS	HYDERABAD
933.	CA TECHNOLOGIES	HYDERABAD
934.	CAAVO LABS (I) (P) LTD.	BANGALORE
935.	CADD CENTRE TRAINING SERVICES (P) LTD.	CHENNAI
936.	CADENCE	BANGALORE
937.	CADENCE	BELLANDUR
938.	CADENCE	DELHI
939.	CADENCE	NOIDA
940.	CADENCE DESIGN SYSTEM	BANGALORE
941.	CADENCE DESIGN SYSTEMS	DELHI
942.	CADENCE DESIGN SYSTEMS (I) (P) LTD.	PUNE
943.	CADFEM ENGINEERING SERVICES (I) (P) LTD.	HYDERABAD
944.	CADFEM INDIA	HYDERABAD
945.	CADILA HEALTH CARE LTD.	HYDERABAD
946.	CADILA HEALTHCARE LTD.	DELHI
947.	CADMAXX SOLUTIONS (P) LTD.	BANGALORE
948.	CAG OF INDIA(GOI)	HYDERABAD
949.	CAIR DRDO	BANGALORE
950.	CAIRN (I) LTD.	GURGAON
951.	CALCON INSTRUMENTATION & SALES LLC	DUBAI
952.	CALCUTTA GUJRATI SAMAJ MEDICAL CENTRE	KOLKATA
953.	CALCUTTA MEDICAL REASERCH INSTITUTE	KOLKATA
954.	CALIBER INTERCONNECT SOLUTIONS	BANGALORE
955.	CALIBER INTERCONNECT SOLUTIONS (P) LTD.	COIMBATORE
956.	CALITRON CALIBRATION LABORATORY	PUNE
957.	CALLHEALTH SERVICES (P) LTD.	HYDERABAD
958.	CALLIDUSCLOUD AS SAP COMPANY	HYDERABAD
959.	CALSOFT INC.	PUNE
960.	CALSONIC KANSEI MOTHERSON AUTO PRODUCTS	CHENNAI
961.	CALYPSO TECHNOLOGY (I) (P) LTD.	CHENNAI
962.	CAMERON MANUFACTURING (I) (P) LTD.	COIMBATORE
963.	CAMERON MANUFACTURING INDIA	COIMBATORE
964.	CAMERON-A SCHLUMBERGER COMPANY	COIMBATORE
965.	CAMFIL (I) (P) LTD.	DELHI
966.	CAMPUS EAI (I) (P) LTD.	DELHI
967.	CAMPUS MANAGEMENT INTERNATIONAL (P) LTD.	BANGALORE
968.	CAMTECH MANUFACTURING FZCO	DUBAI
969.	CANARA BANK	ERNAKULAM
970.	CANARA HSBC OBC LIFE INSURANCE	GURGAON
971.	CANARYS AUTOMATIONS (P) LTD.	SINGAPORE
972.	CANDELA LABS(FORMERLY AWPL)	BANGALORE
973.	CAN-PACK (I) (P) LTD.	AURANGABAD
974.	CANVASINFRA BUILD (P) LTD.	DELHI
975.	CAP GEMINI (I) (P) LTD.	HYDERABAD
976.	CAPACIOUS IT SERVICES	HYDERABAD
977.	CAPCO TECHNOLOGIES	BANGALORE
978.	CAPGEMINI (I) (P) LTD.	CHENNAI
979.	CAPGEMINI (I) (P) LTD.	GURGAON
980.	CAPGEMINI (I) (P) LTD.	HYDERABAD
981.	CAPGEMINI (I) (P) LTD.	NOIDA
982.	CAPGEMINI (I) (P) LTD.	PUNE
983.	CAPGEMINI (I) (P) LTD.	BANGALORE
984.	CAPGEMINI SERVICES (I) (P) LTD.	DELHI
985.	CAPGEMINI SERVICES (I) (P) LTD.	MUMBAI
986.	CAPGEMINI TECHNOLOGY SERVICES (I) LTD.	BANGALORE
987.	CAPGEMINI TECHNOLOGY SERVICES INDIA	MUMBAI
988.	CAPGEMINI TECHNOLOGY SERVICES LTD.	PUNE

S.No.	ORGANIZATION	LOCATION
989.	CAPITA	PUNE
990.	CAPITAL PRECISION TECHNOLOGY (P) LTD.	CHENNAI
991.	CAPRICORN GROUP	TRIVANDRUM
992.	CAPRUSIT (P) LTD.	HYDERABAD
993.	CAPSULE8 (I) (P) LTD.	CHENNAI
994.	CAPTRONIC SYSTEMS (P) LTD.	BANGALORE
995.	CARBORUNDUM UNIVERSAL LTD.	CHENNAI
996.	CARBORUNDUM UNIVERSAL LTD.	HOSUR
997.	CARBYNETECH (I) (P) LTD.	HYDERABAD
998.	CARDIAC DESIGN LABS	MYSORE
999.	CARE HOSPITAL	HYDERABAD
1000.	CAREER INSTITUTE OF COMMERCE & ACCOUNTI	KOTA
1001.	CAREER NET	BANGALORE
1002.	CAREERBUILDER (P) LTD.	DELHI
1003.	CARESOFTECH GLOBAL	COIMBATORE
1004.	CARESOFTECH GLOBAL (P) LTD.	CHENNAI
1005.	CARESOFTECH GLOBAL (P) LTD.	COIMBATORE
1006.	CARGILL (I) (P) LTD.	GURGAON
1007.	CARGILL BUSINESS SERVICES (I) (P) LTD.	BANGALORE
1008.	CARGO ON GO (P) LTD.	DELHI
1009.	CARL ZEISS (I) (P) LTD.	BANGALORE
1010.	CARL ZEISS INDIA(BANGALORE) PVT.LTD	BANGALORE
1011.	CARLISLE TRADING AND MANUFACTURING (I) (P) LTD.	CHENNAI
1012.	CARRARO (I) (P) LTD.	PUNE
1013.	CARRIER AIRCONDITIONING & REFRIGERATION LTD.	KOLKATA
1014.	CARS24 SERVICES (P) LTD.	GURGAON
1015.	CARTEBLANCHE	DELHI
1016.	CARTINI (I) LTD.	MADKAIGOA
1017.	CARTINI (I) LTD.	PONDA
1018.	CASCADE FANS (P) LTD.	PUNE
1019.	CASE NEW HOLLAND	PUNE
1020.	CASE NEW HOLLAND CONSTRUCTION EQUIPMENTS (P) LTD.	PITHAMPUR
1021.	CASE STRUCTURAL ENGINEERS	KOLLAM
1022.	CAST SOFTWARE (I) (P) LTD.	BANGALORE
1023.	CATALENT PHARMA	BANGALORE
1024.	CATALINA MARKETING JAPAN	HYDERABAD
1025.	CATERPILLAR (I) (P) LTD.	BANGALORE
1026.	CATERPILLAR (I) (P) LTD.	CHENNAI
1027.	CATERPILLAR (I) (P) LTD.	HOSUR
1028.	CATERPILLAR (I) (P) LTD.	THIRUVALLUR
1029.	CAUSECODE TECHNOLOGIES (P) LTD.	PUNE
1030.	CAUSEWAY SOFTWARE TECHNOLOGIES	BANGALORE
1031.	CAVENDISH INDUSTRIES LTD.	HARIDWAR
1032.	CAVENDISH INDUSTRIES LTD.(J K TYRE ASSOCIATE)	DELHI
1033.	CAVIUM NETWORKS (I) (P) LTD.	HYDERABAD
1034.	CBK INFOTETECH (I) (P) LTD.	BANGALORE
1035.	CBRE SOUTH ASIA (P) LTD.	CHENNAI
1036.	CBRI	ROORKEE
1037.	CDAC HYDERABAD	HYDERABAD
1038.	CDAC THIRUVANANTHAPURAM	PUNE
1039.	CDAC-NOIDA	DELHI
1040.	CDK GLOBAL	HYDERABAD
1041.	CDK GLOBAL	PUNE
1042.	CDK GLOBAL (I) (P) LTD.	HYDERABAD
1043.	CEAT LTD.	MUMBAI
1044.	CEAT SPECIALTY TYRES LTD.	AMBERNATH
1045.	CEAT TYRES LTD.	PUNE
1046.	CEB (NOW GARTNER)	BANGALORE
1047.	C-EDGE TECHNOLOGIES LTD.	DELHI
1048.	CELEBRITY FASHIONS LTD.	CHENNAI
1049.	CELIGO	HYDERABAD
1050.	CELLERITE SYSTEMS	HYDERABAD
1051.	CELLIBER TECHNOLOGIES	BANGALORE
1052.	CENDUIT (I) SERVICES (P) LTD.	BANGALORE
1053.	CENEDEX (I) SOFTWARE SOLUTIONS	DELHI
1054.	CENTER FOR DEVELOPMENT OF ADVANCED COMPU	BANGALORE
1055.	CENTER FOR DEVELOPMENT OF ADVANCED COMPUTING	CHENNAI
1056.	CENTER FOR STUDY OF SCIENCE TECHNOLOGY	BANGALORE
1057.	CENTRAL BOARD OF INDIRECT TAXES	DELHI
1058.	CENTRAL GOVERNMENT	KOLKATA
1059.	CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE	BANGALORE

S.No.	ORGANIZATION	LOCATION
1060.	CENTRE FOR DEVELOPMENT OF ADVANCED COMPU	DELHI
1061.	CENTRE FOR DEVELOPMENT OF ADVANCED COMPU	MUMBAI
1062.	CENTRE FOR DEVELOPMENT OF ADVANCED COMPU	PUNE
1063.	CENTRE FOR DEVELOPMENT OF ADVANCED COMPU	THIRUVANANTHAPURAM
1064.	CENTRE FOR DEVELOPMENT OF TELEMATICS	BANGALORE
1065.	CENTRE FOR DEVELOPMENT OF TELEMATICS(C-DOT)	BANGALORE
1066.	CENTRE FOR DEVELOPMENT OF ADVANCED COMPU	TRIVANDRUM
1067.	CENTROMOTION INDIA	BANGALORE
1068.	CENTUM ELECTRONICS	BANGALORE
1069.	CENTUM ELECTRONICS LTD.	BANGALORE
1070.	CENTURY HOSPITAL	BANGALORE
1071.	CENTURYLINK (I) (P) LTD.	DELHI
1072.	CENTURYLINK INDIA	BANGALORE
1073.	CENTURYLINK INDIA	NOIDA
1074.	CENTURYLINK TECHNOLOGIES (I) (P) LTD.	BANGALORE
1075.	CENTURYLINK TECHNOLOGIES (I) (P) LTD.	DELHI
1076.	CEREBRA CONSULTING INC	HYDERABAD
1077.	CEREBROZ EDUTREE	AHMEDABAD
1078.	CEREBTEC TECHNOLOGIES (P) LTD.	BANGALORE
1079.	CERIUM SYSTEMS (P) LTD.	BANGALORE
1080.	CERNER HEALTHCARE SOLUTIONS (I) (P) LTD.	BANGALORE
1081.	CG POWER & INDUSTRIAL SOLUTIONS LTD.	AURANGABAD
1082.	CG POWER & INDUSTRIAL SOLUTIONS LTD.	NASHIK
1083.	CGI INC.	HYDERABAD
1084.	CGTECH (I) (P) LTD.	PUNE
1085.	CHAITHANYA EYE HOSPITAL & RESERACH INSTI	TRIVANDRUM
1086.	CHAKRA NETWORK SOLUTIONS (P) LTD.	CHENNAI
1087.	CHAMBAL FERTLISERS AND CHEMICALS LTD.	KOTA
1088.	CHAOLIGIX TECHNOLOGIES (I) (P) LTD.	BANGALORE
1089.	CHARNOCK HOSPITALS	KOLKATA
1090.	CHECKPOINT SYSTEMS	BANGALORE
1091.	CHECKTRONIX (I) (P) LTD.	CHENNAI
1092.	CHELLAM ELECTRICAL SERVICES	CHENNAI
1093.	CHELSIO COMMUNICATIONS	BANGALORE
1094.	CHEMTEX CONSULTING OF (I) (P) LTD.	BANGALORE
1095.	CHENNAI CRITICAL CARE CONSULTANTS (P) LTD.	CHENNAI
1096.	CHETAK ENTERPRISES LTD.	NIMBAHERA
1097.	CHETTINAD CEMENT CORPORATION LTD.	DINDIGUL
1098.	CHEVRON ORONITE PTE LTD.	CHENNAI
1099.	CHEVRON ORONITE PTE LTD.	SINGAPORE
1100.	CHINA PETROLEUM PIPELINE ENGG-ABUDHABI	DUBAI
1101.	CHINA SYSTEM (DUBAI) UNIQUE ITS	CHENNAI
1102.	CHRISTIAN MEDICAL COLLEGE	DELHI
1103.	CHRISTIAN MEDICAL COLLEGE	LUDHIANA
1104.	CHRISTIAN MEDICAL COLLEGE	TAMILNADU
1105.	CHRISTIAN MEDICAL COLLEGE	VELLORE
1106.	CHRISTIAN MEDICAL COLLEGE AND HOSPITAL LUDHIANA	DELHI
1107.	CHRISTIAN MEDICAL COLLEGE VELLORE	CHENNAI
1108.	CHRISTIE DIGITAL SYSTEMS	CHENNAI
1109.	CHRISTIE DIGITAL SYSTEMS (I) (P) LTD.	BANGALORE
1110.	CHROMEbase MINING	ZIMBABWE
1111.	CHRYSALISGOLD (P) LTD.	BANGALORE
1112.	CHUBB ALBA CONTROL SYSTEMS LTD.	BANGALORE
1113.	CIBER AN HTC GLOBALCOMPANY	BANGALORE
1114.	CIBERSITIES (I) (P) LTD.	CHENNAI
1115.	CIENA	DELHI
1116.	CIENA (I) (P) LTD.	DELHI
1117.	CIENA (I) (P) LTD.	GURGAON
1118.	CIENA (I) LTD.	DELHI
1119.	CIENA INDIA	DELHI
1120.	CIENTRA TECHSOLUTIONS (P) LTD.	BANGALORE
1121.	CIGITAL ASIA (P) LTD.	BANGALORE
1122.	CIGNETIX SYSTEMS	DUBAI
1123.	CIGNEX DATAMETIX	GURGAON
1124.	CIGNEX DATAMETIX	HYDERABAD
1125.	CIGNITI TECHNOLOGIES	HYDERABAD
1126.	CIGNITI TECHNOLOGIES LTD.	HYDERABAD
1127.	CINCH BUSINESS SOLUTIONS (P) LTD.	COIMBATORE
1128.	CIPLA LTD.	GOA
1129.	CIPLA LTD.	HYDERABAD
1130.	CIPLA LTD.	MUMBAI

S.No.	ORGANIZATION	LOCATION
1131.	CISCO (I) (P) LTD.	BANGALORE
1132.	CISCO SYSTEMS	PUNE
1133.	CISCO SYSTEMS (I) (P) LTD.	BANGALORE
1134.	CISCO SYSTEMS INC.	BANGALORE
1135.	CISCO SYSTEMS INC.	DELHI
1136.	CISCO SYSTEMS INDIA	BANGALORE
1137.	CITI TECHNOLOGY CENTRE	PUNE
1138.	CITIBANK	BANGALORE
1139.	CITIBANK	MUMBAI
1140.	CITIBANK	SINGAPORE
1141.	CITICORP SERVICES (I) (P) LTD.	BANGALORE
1142.	CITICORP SERVICES (I) (P) LTD.	CHENNAI
1143.	CITICORP SERVICES (I) (P) LTD.	PUNE
1144.	CITIUSTECH	PUNE
1145.	CITRIX R AND D	BANGALORE
1146.	CITY CONSTRUCTION	GOA
1147.	CITYKART RETAIL (P) LTD.	DELHI
1148.	CK BIRLA HOSPITALS (CMRI & BMBHRC)	KOLKATA
1149.	CKBIRLAHOSPITAL FOR WOMEN	GURGAON
1150.	CLADTECH INTERNATIONAL AL RAJHI HOLDING	DUBAI
1151.	CLAIRVOLEX KNOWLEDGE PROCESSES (P) LTD.	BANGALORE
1152.	CLASSIC INFO PTY LTD.	CHENNAI
1153.	CLASSIC MARBLE COMPANY	SILVASSA
1154.	CLAUSION (I) (P) LTD.	CHANDIGARH
1155.	CLEARA LLC MARYLAND USA	GUNTUR
1156.	CLEVELAND BRIDGE & ENGINEERING MIDDLE EA	DUBAI
1157.	CLIMATE MAKER ELECTROMECHANICAL CO. LLC.	DUBAI
1158.	CLIX CAPITAL	DELHI
1159.	CLOUD ELEMENTS	HYDERABAD
1160.	CLOUD ELEMENTS INDIA	HYDERABAD
1161.	CLOUD LENDING SOLUTIONS	BANGALORE
1162.	CLOUD TECHNOLOGIES	BANGALORE
1163.	CLOUD TECHNOLOGIES	HYDERABAD
1164.	CLOUDMANTRA	PUNE
1165.	CLOUDWAVE TECHNOLOGIES (P) LTD.	BANGALORE
1166.	CLOVE DENTAL	DELHI
1167.	CLOVER INFOTECH (P) LTD.	MUMBAI
1168.	CLUES NETWORK (P) LTD.	DELHI
1169.	CLUGRID CLOUD SERVICES (P) LTD.	MUMBAI
1170.	CMAI	BANGALORE
1171.	CMC VELLORE	VELLORE
1172.	CME (I) TECHNOLOGY AND SUPPORT SERVICES (P) LTD.	BANGALORE
1173.	CME GROUP	BANGALORE
1174.	CME GROUP (I) LTD.	BANGALORE
1175.	CME INDIATECHNOLOGY AND SUPPORT SERVICES LTD.	BANGALORE
1176.	CMI INDUSTRY AUTOMATION (P) LTD.	PUNE
1177.	CMS COMPUTERS	BANGALORE
1178.	CNH CONSTRUCTION EQUIPMENT (I) (P) LTD.	PUNE
1179.	CNH INDUSTRIAL	NOIDA
1180.	CNSI	CHENNAI
1181.	COBHAM MISSION EQUIPMENT	HYDERABAD
1182.	COCHIN SHIPYARD LTD.	COCHIN
1183.	CODE ORGO	HYDERABAD
1184.	CODEEVEREST (P) LTD.	BANGALORE
1185.	CODEHALL TECHNOLOGY	BANGALORE
1186.	COGNAM TECHNOLOGY (P) LTD.	DELHI
1187.	COGNITIVE RESEARCH AND INNOVATIONS (P) LTD.	BANGALORE
1188.	COGNIZANT- CALL LETTER PENDING	CHENNAI
1189.	COGNIZANT TECHNOLOGY SOLUTIONS (I) (P) LTD.	HYDERABAD
1190.	COGNIZANT TECHNOLOGY SOLUTIONS (I) (P) LTD.	KOLKATA
1191.	COGNIZANT TECHNOLOGY SOLUTIONS (I) (P) LTD.	BANGALORE
1192.	COGNIZANT TECHNOLOGY SOLUTIONS (I) (P) LTD.	CHENNAI
1193.	COGNIZANT TECHNOLOGY SOLUTIONS (I) (P) LTD.	COIMBATORE
1194.	COGNIZANT TECHNOLOGY SOLUTIONS (I) (P) LTD.	DELHI
1195.	COGNIZANT TECHNOLOGY SOLUTIONS (I) (P) LTD.	PUNE
1196.	COGNIZANT WORLDWIDE LTD.	HYDERABAD
1197.	COINTRIBE TECHNOLOGIES (P) LTD.	DELHI
1198.	COLE PARMER (I) (P) LTD.	HYDERABAD
1199.	COLGATE GLOBAL BUSINESS SERVICES	PUNE
1200.	COLLAB HOUSE (P) LTD.	HYDERABAD
1201.	COLLEGE OF DENTAL SCIENCES	DAVENGERA

S.No.	ORGANIZATION	LOCATION
1202.	COLLINS AEROSPACE	BANGALORE
1203.	COLLINS AEROSPACE	HYDERABAD
1204.	COLLINS AEROSPACE SYSTEMS	BANGALORE
1205.	COLORTOKEN	BANGALORE
1206.	COLRUYT IT CONSULTANCY (I) (P) LTD.	HYDERABAD
1207.	COLT TECHNOLOGIES (P) LTD.	BANGALORE
1208.	COLT TECHNOLOGIES (P) LTD.	GURGAON
1209.	COLUMBIAASIA HOSPITAL	BANGALORE
1210.	COLUMBUS GLOBAL SERVICES (I) (P) LTD.	HYDERABAD
1211.	COMAKEIT	HYDERABAD
1212.	COMAU (I) (P) LTD.	PUNE
1213.	COMCAST (I) ENGINEERING CENTER	CHENNAI
1214.	COMFOTEC ELECTROMECHANICAL SERIVCES LLC	DUBAI
1215.	COMHARD TECHNOLOGIES	DELHI
1216.	COMMSCOPE	BANGALORE
1217.	COMMSCOPE	GOA
1218.	COMMSCOPE	VERNA
1219.	COMMVault	BANGALORE
1220.	COMMVault	HYDERABAD
1221.	COMMVault SYSTEMS	BANGALORE
1222.	COMMVault SYSTEMS	HYDERABAD
1223.	COMODO SECURITY SOLUTINS (P) LTD.	CHENNAI
1224.	COMPASS (I) SUPPORT SERVICES (P) LTD.	MUMBAI
1225.	COMPRO TECHNOLOGIES (P) LTD.	DELHI
1226.	COMPUCOM-CSI INDIA	PUNE
1227.	COMPUNNEL TECHNOLOGIES	NOIDA
1228.	COMPUTER AID INC. INDIA	BANGALORE
1229.	COMPUTER WAVE	BANGALORE
1230.	COMPUTERSCIENCECORPORATION	HYDERABAD
1231.	COMSTAR AUTOMOTIVE TECHNOLOGIES	CHENNAI
1232.	COMSTAR AUTOMOTIVE TECHNOLOGY (P) LTD.	CHENNAI
1233.	CONAX ACCESS SYSTEMS (P) LTD.	NOIDA
1234.	CONCENTRIX	BANGALORE
1235.	CONCENTRIX DAKSH (I) (P) LTD.	DELHI
1236.	CONGRUENT INFO-TECH	CHENNAI
1237.	CONSERVE INFOTECH (P) LTD.	DELHI
1238.	CONSILIENCE	MUMBAI
1239.	CONSOLIDATED CONTRACTORS INTERNATIONAL C	ABUDHABI
1240.	CONSTAIR PROJECTS	PUNE
1241.	CONSTEMS-AI SYSTEM (P) LTD.	DELHI
1242.	CONSUL NEOWATT POWER SOLUTION (P) LTD.	CHENNAI
1243.	CONSUL NEOWATT POWER SOLUTIONS (P) LTD.	CHENNAI
1244.	CONTATA SOLUTIONS (P) LTD.	NOIDA
1245.	CONTINENTAL AG	BANGALORE
1246.	CONTINENTAL AUTOMOTIVE	BANGALORE
1247.	CONTINENTAL AUTOMOTIVE (P) LTD. BANGALORE	BANGALORE
1248.	CONTINENTAL AUTOMOTIVE COMPONENT (I) (P) LTD.	BANGALORE
1249.	CONTINENTAL AUTOMOTIVE COMPONENTS	BANGALORE
1250.	CONTINENTAL AUTOMOTIVE COMPONENTS (I) (P) LTD.	BANGALORE
1251.	CONTINENTAL AUTOMOTIVE COMPONENTS (I) PVT.LTD	BANGALORE
1252.	CONTINENTAL AUTOMOTIVE COMPONENTS (INDIA	BANGALORE
1253.	CONTINENTAL AUTOMOTIVE COMPONENTS (INDIA	BHIWADI
1254.	CONTINENTAL AUTOMOTIVE COMPONENTS (INDIA	MANESAR
1255.	CONTINENTAL AUTOMOTIVE COMPONENTS (INDIA)	BANGALORE
1256.	CONTINENTAL AUTOMOTIVE COMPONENTS (P) LTD.	BANGALORE
1257.	CONTINENTAL AUTOMOTIVES	BANGALORE
1258.	CONTINENTAL AUTOMOTIVES (P) LTD.	BANGALORE
1259.	CONTINUUM MANAGED SOLUTIONS	PUNE
1260.	CONTINUUM MANAGED SOLUTIONS (P) LTD.	MUMBAI
1261.	CONTROL COMPUTER SYSTEMS (SYSCOM)	DUBAI
1262.	CONTROLBLUE AUTOMATION AND SOFTWARE (P) LIMITE	KOLKATA
1263.	CONVERGYS (I) SERVICES	GURGAON
1264.	CONVERGYS (I) SERVICES	HYDERABAD
1265.	CONVERSANT SOFTWARE DEVELOPMENT AND CAMPAIGN MANAG	BANGALORE
1266.	COOPER STANDARD	PUNE
1267.	CORALHIRE TECHNOLOGIES	BANGALORE
1268.	CORAZA TECHNOLOGIES/ONEDIRECT	BANGALORE
1269.	CORE VALUE TECHNOLOGIES DELHI INDIA	NOIDA
1270.	COREEL TECHNOLOGIES	BANGALORE
1271.	CORODEX AGENCIES LLC	DUBAI
1272.	COROMANDEL INTERNATIONAL LTD.	VAPI

S.No.	ORGANIZATION	LOCATION
1273.	COROMANDEL TRAVELS LTD.	CHENNAI
1274.	CORONA DIGITEX	BANGALORE
1275.	CORP. R&D BHARAT HEAVY ELECTRICAL LTD.	HYDERABAD
1276.	COSMO FILMS LTD.	VADODARA
1277.	COSTRATEGIX TECH (P) LTD.	BANGALORE
1278.	COTTON UNIVERSITY	GUWAHATI
1279.	COVANCE (I) PHARMACEUTICAL SERVICES (P) LTD.	MUMBAI
1280.	COVIAM TECHNOLOGIES PVT.LTD	HYDERABAD
1281.	COVIDIEN (I) ENGINEERING CENTER (MEDTR	HYDERABAD
1282.	COVIDIEN ENGINEERING SERVICES	HYDERABAD
1283.	COVIDIEN HEALTHCARE (I) PVT.LTD .	MYSORE
1284.	CP PUMPS AND SYSTEMS FZE	DUBAI
1285.	CPA GLOBAL	DELHI
1286.	CPA GLOBAL	GURGAON
1287.	CRAFTSMAN AUTOMATION (P) LTD.	JAMSHEDPUR
1288.	CRANE GLOBAL HEALTH SOLUTION	PUNE
1289.	CRANE PROCESS FLOW TECH.	SATARA
1290.	CRANE PROCESS FLOW TECHNOLOGIES	MUMBAI
1291.	CRANE PROCESS FLOW TECHNOLOGIES	PUNE
1292.	CREATIVE ABODE	GOA
1293.	CREATIVE SYNERGIES CONSULTING (I) PVT	BANGALORE
1294.	CREDIT SUISSE	MUMBAI
1295.	CREDIT SUISSE SERVICES (I) (P) LTD.	BANGALORE
1296.	CRESTTEK ENGINEERING SOLUTIONS (P) LTD.	CHENNAI
1297.	CRIPUMPS (P) LTD.	KOLKATA
1298.	CROMPTON GREAVES LTD.	AHMEDNAGAR
1299.	CROMPTON GREAVES LTD.	BANGALORE
1300.	CROMPTON GREAVES LTD.	MUMBAI
1301.	CROPIN TECHNOLOGY SOLUTIONS	BANGALORE
1302.	CRPF	DELHI
1303.	CRYOGENIC PROCESS CONTROLS	CHENNAI
1304.	CRYOLOR ASIA PACIFIC (P) LTD.	CHENNAI
1305.	CSG SYSTEMS INTERNATIONAL	BANGALORE
1306.	CSIR-IGIB	DELHI
1307.	CSIR-NATIONAL INSTITUTE OF OCEANOGRAPHY	GOA
1308.	CSIR-NATIONAL PHYSICAL LABORATORY NEW DELHI	DELHI
1309.	CSS CORP (P) LMTD	BANGALORE
1310.	CSS CORP (P) LTD.	CHENNAI
1311.	CTK SOFTWARE	BANGALORE
1312.	CTRLS DATACENTERS LTD.	HYDERABAD
1313.	CTS (I) (P) LTD.	KOLKATA
1314.	CUBELOGIC SOFTWARE (I) (P) LTD.	BANGALORE
1315.	CULLIGAN INTERNATIONAL (EMIRATES) LLC	DUBAI
1316.	CUMMINS (I) LTD.	BANGALORE
1317.	CUMMINS (I) LTD.	DELHI
1318.	CUMMINS (I) LTD.	GUWAHATI
1319.	CUMMINS (I) LTD.	JAIPUR
1320.	CUMMINS (I) LTD.	JAMSHEDPUR
1321.	CUMMINS (I) LTD.	KOLKATA
1322.	CUMMINS (I) LTD.	LUCKNOW
1323.	CUMMINS (I) LTD.	PHALTAN
1324.	CUMMINS (I) LTD.	PITHAMPUR
1325.	CUMMINS (I) LTD.	PUNE
1326.	CUMMINS (I) LTD.	RANCHI
1327.	CUMMINS BUSINESS UNIT	PUNE
1328.	CUMMINS EMISSION SOLUTION	PUNE
1329.	CUMMINS GENERATOR TECHNOLOGIES (I) (P) LTD.	PUNE
1330.	CUMMINS MIDDLE EAST	DUBAI
1331.	CUMMINS TECHNICAL CENTER INDIA.	PUNE
1332.	CUMMINS TECHNOLOGIES	PHALTAN
1333.	CUMMINS TECHNOLOGIES (I) (P) LTD.	PUNE
1334.	CUMMINS TURBO TECHNOLOGIES (I) LTD.	PITHAMPUR
1335.	CUMMINS TURBO TECHNOLOGIES (I) LTD.	PUNE
1336.	CUMULUS SYSTEMS (P) LTD.	PUNE
1337.	CUREWELL HOSPITAL	INDORE
1338.	CURIOKIDZ	CHENNAI
1339.	CUSTOMER ANALYTICS	CHENNAI
1340.	CUSTOMERXPS SOFTWARE (P) LTD.	BANGALORE
1341.	CUTTING EDGE DIGITAL (P) LTD.	DELHI
1342.	CV DESIGNERS (I) (P) LTD.	HYDERABAD
1343.	CVC TECHNOLOGIES (I) (P) LTD.	MUMBAI

S.No.	ORGANIZATION	LOCATION
1344.	CVENT (I) (P) LLTD	GURGAON
1345.	CYBAGE SOFTWARE (P) LTD.	HYDERABAD
1346.	CYBAGE SOFTWARE (P) LTD.	KALYANINAGAR
1347.	CYBAGE SOFTWARE (P) LTD.	MUMBAI
1348.	CYBAGE SOFTWARE (P) LTD.	PUNE
1349.	CYBRILLA TECHNOLOGIES	BANGALORE
1350.	CYGNUS MICROSYSTEMS (P) LTD.	HYDERABAD
1351.	CYIENT LTD.	HYDERABAD
1352.	CYIENT.LTD.	DELHI
1353.	CYPRESS	BANGALORE
1354.	CYPRESS SEMICONDUCTORS	BANGALORE
1355.	CYRUS-XP HEALTH INFORMATION TECHNOLOGY (P) LTD.	BANGALORE
1356.	CYWARE LABS	MUMBAI
1357.	D VIATE SYSTEMS (P) LTD.	HYDERABAD
1358.	D. E. SHAW (I) (P) LTD.	HYDERABAD
1359.	D2C INSURANCE BROKING (P) LTD.	DELHI
1360.	DABUR (I) LTD.	SILVASSA
1361.	DAH2 (P) LTD.	HYDERABAD
1362.	DAIKIN AIRCONDITIONING (I) (P) LTD.	DELHI
1363.	DAIKIN AIRCONDITIONING (I) (P) LTD.	NEEMRANA
1364.	DAIMLER (I) COMMERCIAL VEHICLE (P) LIM	CHENNAI
1365.	DAIMLER (I) COMMERCIAL VEHICLES	CHENNAI
1366.	DAIMLER (I) COMMERCIAL VEHICLES (P) LTD.	CHENNAI
1367.	DAIMLER (I) COMMERCIAL VEHICLES (P) LTD.	KANCHEEPURAM
1368.	DAIMLER (I) COMMERCIAL VEHICLES ORAGADAM	CHENNAI
1369.	DAIMLER (I) DEPUTED BY LEADHR	CHENNAI
1370.	DALMIA CEMENT BHARAT LTD.	DCBL
1371.	DALTON CLINSYS	VADODARA
1372.	DAMCO SOLUTIONS (P) LTD.	NOIDA
1373.	DANA (I) TECHNICAL CENTRE	PUNE
1374.	DANFOSS INDUSTRIES (P) LTD.	CHENNAI
1375.	DANILELI (I) LTD.	TADA
1376.	DANSKE IT	BANGALORE
1377.	DANSKE IT & SUPPORT SERVICES (P) LTD.	BANGALORE
1378.	DANWAY EME LLC	DUBAI
1379.	DAR AL HANDASAH	PUNE
1380.	DARASHAW & CO. (P) LTD.	DELHI
1381.	DARE DRDO	BANGALORE
1382.	DASSAULT SYSTEMES	BANGALORE
1383.	DASSAULT SYSTEMES	PUNE
1384.	DASSAULT SYSTEMS	PUNE
1385.	DATAFACTORS SOFTWARE (I) (P) LTD.	BANGALORE
1386.	DATAFLOW SERVICE (P) LTD.	DELHI
1387.	DATAM INTELLIGENCE 4MARKET RESEARCH	HYDERABAD
1388.	DATAMATICS GLOBAL SERVIES LTD.	BANGALORE
1389.	DATAMETICA	PUNE
1390.	DATAMI MOBILE SOLUTIONS (P) LTD.	BANGALORE
1391.	DATARESOLVE TECHNOLOGIES	BANGALORE
1392.	DATT MEDIPRODUCTS (P) LTD.	DELHI
1393.	DATYLER PHARMA PACKAGING (I) (P) LTD.	PUNE
1394.	DBOI GLOBAL SERVICES (P) LTD.	BANGALORE
1395.	DBS ASIA HUB 2 (P) LTD.	HYDERABAD
1396.	DBS ASIA HUB2 (P) LTD.	HYDERABAD
1397.	DBS BANK	SINGAPORE
1398.	DBT MISSION CABINET SECRETARIAT	DELHI
1399.	DCB BANK LTD.	CHENNAI
1400.	DCM SHRIRAM LTD. UNIT: SHRIRAM ALKALI &	BHARUCH
1401.	DECATHLON SPORTS (I) (P) LTD.	PUNE
1402.	DECISION MINDS (I) (P) LTD.	BANGALORE
1403.	DECISION RESOURCES GROUP	BANGALORE
1404.	DEENANATH MANGESHKAR HOSPITAL PUNE	PUNE
1405.	DEEPTI ELECTRONICS & ELECTRO OPTICS (P) LTD.	BANGALORE
1406.	DEFENCE	DELHI
1407.	DEFENCE COMMUNICATION NETWORK SUB GROUP	MEERUT
1408.	DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY	PUNE
1409.	DEFENCE R&D ORG (DRDO) MIN OF DEFENCE	HYDERABAD
1410.	DEFENCE RESEARCH & DEVELOPMENT ORGANIZATION	DELHI
1411.	DEFENCE RESEARCH & DEVELOPMENT ORGANIZATION	HYDERABAD
1412.	DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION	DELHI
1413.	DEFENCE RESEARCH DEVELOPMENT LABORATORY	HYDERABAD
1414.	DEFENCE SERVICE(ARMY)	DELHI

S.No.	ORGANIZATION	LOCATION
1415.	DEFENCE SERVICE(ARMY)	JALANDHAR
1416.	DEFENCE SERVICE(ARMY)	JAMNAGAR
1417.	DEFENCE SERVICE(ARMY)	PANCHKULA
1418.	DEFENCE SERVICES (ARMY)	DELHI
1419.	DEFENCE TERRAIN RESEARCH LABORATORY (DTRL) DRDO	DELHI
1420.	DEFINITION NETWORKS (I) (P) LIM	PUNE
1421.	DEFINITION NETWORKS (P) LTD.	PUNE
1422.	DELHI INTEGRATED MULTI MODAL TRANSIT SYSTEM LTD.	DELHI
1423.	DELL EMC	BANGALORE
1424.	DELL EMC	CHENNAI
1425.	DELL EMC	RIYADH
1426.	DELL EMC CORPORATION	BANGALORE
1427.	DELL EMC TECHNOLOGIES	BANGALORE
1428.	DELL INTERNATIONAL SERVICES (P) LTD.	BANGALORE
1429.	DELL R&D	BANGALORE
1430.	DELL TECHNOLOGIES	BANGALORE
1431.	DELL TECHNOLOGIES	CHENNAI
1432.	DELL TECHNOLOGIES	HYDERABAD
1433.	DELL TECHNOLOGIES INTERNATIONAL	HYDERABAD
1434.	DELL TECHNOLOGY	PUNE
1435.	DELLEMC	BANGALORE
1436.	DELLNER (I) (P) LTD.	CHENNAI
1437.	DELOITTE CONSULTING (I) (P) LTD.	BANGALORE
1438.	DELOITTE CONSULTING (I) (P) LTD.	DELHI
1439.	DELOITTE CONSULTING (I) (P) LTD.	GURGAON
1440.	DELOITTE CONSULTING (I) (P) LTD.	HYDERABAD
1441.	DELOITTE CONSULTING LLC	BANGALORE
1442.	DELOITTE CONSULTING LLP	HYDERABAD
1443.	DELOITTE CONSULTING US (I) (P) LTD.	HYDERABAD
1444.	DELOITTE CONSULTING US (I) (P) LTD.	MUMBAI
1445.	DELOITTE LLP USI	BANGALORE
1446.	DELOITTE USI	BANGALORE
1447.	DELOITTE USI	HYDERABAD
1448.	DELOITTE USI	MUMBAI
1449.	DELOITTE USI HYDERABAD	HYDERABAD
1450.	DELPHI - TVS TECHNOLOGIES	CHENNAI
1451.	DELPHI AUTOMOTIVE SYSTEMS	BANGALORE
1452.	DELPHI AUTOMOTIVE SYSTEMS	DELHI
1453.	DELPHI CONNECTION SYSTEMS (I) LTD.	BANGALORE
1454.	DELPHI CONNECTION SYSTEMS (I) LTD.	CHENNAI
1455.	DELPHI CONNECTION SYSTEMS (I) LTD.	KOCHI
1456.	DELPHI TVS	BANGALORE
1457.	DELPHI TVS	CHENNAI
1458.	DELPHI TVS	THIRUVALLUR
1459.	DELTA (I) ELECTRONICS	DELHI
1460.	DELTA MAGNETS LTD.	PUNE
1461.	DELTA POWER SOLUTIONS (I) (P) LTD.	BANGALORE
1462.	DELTA POWER SOLUTIONS (I) (P) LTD.	DELHI
1463.	DELTRON	DELHI
1464.	DENSO (I) (P) LTD.	DELHI
1465.	DENSO INTERNATIONAL (I) (P) LTD.	DELHI
1466.	DENTAL CLINIC	DELHI
1467.	DEP (I) (P) LTD.	BANGALORE
1468.	DEP (I) (P) LTD.	CHENNAI
1469.	DEPARTMENT OF ATOMIC ENERGY AMD CR	HYDERABAD
1470.	DEPARTMENT OF TECHNICAL EDUCATION J&K GO	SRINAGAR
1471.	DEPT OF PHE GOVERNMENT OF JAMMU AND KASHMIR	DELHI
1472.	DEQODE (TECHRACERS (P) LTD.)	PUNE
1473.	DES DYNAMICS (P) LTD.	PUNE
1474.	DESIGN TECH SYSTEM LTD.	BANGALORE
1475.	DESIGN TECH SYSTEM LTD.	PUNE
1476.	DESIGNFLYOVER CONSULTING LLP	MUMBAI
1477.	DESIGNTECH SYSTEMS	HYDERABAD
1478.	DESIGNTECH SYSTEMS LTD.	CHENNAI
1479.	DESIRE ENGINEERING WORKS	MUMBAI
1480.	DESMANIA DESIGN (P) LTD.	DELHI
1481.	D-ESPAT (P) LTD.	CHENNAI
1482.	DETROIT ENGINEERED PRODUCTS INC	CHENNAI
1483.	DEUTSCHE BANK	MUMBAI
1484.	DEUTSCHE BANK	PUNE
1485.	DEUTSCHE BANK OPERATIONS INTERNATIONAL	PUNE

S.No.	ORGANIZATION	LOCATION
1486.	DEUTSCHE BÖRSE AG - FRANKFURT - GERMANY	HYDERABAD
1487.	DEVELOPMENT BANK OF SINGAPORE	HYDERABAD
1488.	DEVELOPMENT BANK OF SINGAPORE(DBS)	HYDERABAD
1489.	DEWA	DUBAI
1490.	DEXCEL ELECTRONICS DESIGNS (P) LTD.	BANGALORE
1491.	DEXCEL ELECTRONICS DESIGNS (P) LTD.	KANNUR
1492.	DEZMINDZ TECHNOLOGY	BANGALORE
1493.	DFCCIL	GURGAON
1494.	DGAQA MIN OF DEFENCE	BANGALORE
1495.	DGAQA MINISTRY OF DEFENCE	PUNE
1496.	DGCA	DELHI
1497.	DGQA	HYDERABAD
1498.	DGQA MINISTRY OF DEFENCE	HYDERABAD
1499.	DHAFIR GROUP FOR GENERAL TRADING	ABUDHABI
1500.	DHATRIINFO SOLUTIONS (P) LTD.	HYDERABAD
1501.	DHI (I) WATER & ENVIRONMENT (P) LTD.	DELHI
1502.	DHOOT TRANSMISSION (P) LTD.	PUNE
1503.	DHRUV CONSULTANCY SERVICES (P) LIMIT	MUMBAI
1504.	DHRUV EMBEDDED SOLUTIONS	HYDERABAD
1505.	DHS INFORMATICS	BANGALORE
1506.	DHYAN NETWORKS AND TECHNOLOGIES	CHENNAI
1507.	DIABETO MEDTECH (I) (P) LTD.	MUMBAI
1508.	DIAGNOSEARCH LIFE SCIENCES (P) LTD.	MUMBAI
1509.	DIAGNOSYS ELECTRONICS (I) (P) LTD.	BANGALORE
1510.	DICETEK	DUBAI
1511.	DIEBOLD NIXDORF (I) (P) LTD.	GOA
1512.	DIEBOLD NIXDORF (I) (P) LTD.	HYDERABAD
1513.	DIERS BIOMEDICAL SOLUTIONS (P) LTD.	DELHI
1514.	DIETECH (I) (P) LTD.	CHENNAI
1515.	DIFACTO ROBOTICS AND AUTOMATION	BANGALORE
1516.	DIGI DRIVES (P) LTD.	FARIDABAD
1517.	DIGICOLLECT (I) (P) LTD.	BANGALORE
1518.	DIGITAL DESK INFO SYSTEMS (P) LTD.	HYDERABAD
1519.	DIGITALFACTORS (I) (P) LTD.	BANGALORE
1520.	DIGITALTRUST TECHNOLOGIES (P) LTD.	HYDERABAD
1521.	DIGITECH CONTROL AND AUTOMATION	CHENNAI
1522.	DIGTEL SOFTCOM	DELHI
1523.	DIMENSION DATA	BANGALORE
1524.	DIMENSION DATA	CHENNAI
1525.	DIMENSION DATA	MUMBAI
1526.	DINESH ENTERPRISES	KALYAN
1527.	DIRECTORATE GENERAL OF TRAINING MOSDE	DELHI
1528.	DIRECTORATE OF HEALTH SERVICES KERALA	TRIVANDRUM
1529.	DIRECTORATE OF TRANSPORT GOA	GOA
1530.	DISH TV (I) LTD.	DELHI
1531.	DITELLIGENCE (P) LTD.	BANGALORE
1532.	DIXON TECHNOLOGIES (I) LTD.	DELHI
1533.	DM WAYANAD INSTITUTE OF MEDICAL SCIENCES	HYDERABAD
1534.	DMDE	COIMBATORE
1535.	DMI	BANGALORE
1536.	DMRC	DELHI
1537.	DN HOMES	BHUBANESWAR
1538.	DNATA / EMIRATES GROUP	DUBAI
1539.	DNV GL BUSINESS ASSURANCE (I) (P) LTD.	CHENNAI
1540.	DOHA PETROLEUM	DOHA
1541.	DOIT&C GOVT. OF RAJASTHAN	SRIMADHOPUR
1542.	DOMAIN EXPERT SERVICES	CHENNAI
1543.	DONALDSON (I) FILTER SYSTEMS (P) LTD.	GURGAON
1544.	DONALDSON (I) FILTER SYSTEMS (P) LTD.	MANESAR
1545.	DONGFANG ELECTRONICS	CHENNAI
1546.	DOOSAN POWER SYSTEMS (I) (P) LTD.	CHENNAI
1547.	DORMA (I) (P) LTD.	CHENNAI
1548.	DOTWORLD TECHNOLOGIES	COIMBATORE
1549.	DOVER (I) (P) LTD.	BANGALORE
1550.	DOVER (I) (P) LTD.	CHENNAI
1551.	DOW CHEMICALS INTERNATIONAL (P) LIMI	CHENNAI
1552.	DPWORLD -UAE	DUBAI
1553.	DQS INDIA	BANGALORE
1554.	DR MEHTA HOSPITAL	CHENNAI
1555.	DR PRAFULLA PAATIL MULTISPECIALITY HOSPITAL	MUMBAI
1556.	DR ROHIT'S DENTA& IMPLANT CENTREL	DELHI

S.No.	ORGANIZATION	LOCATION
1557.	DR SUNDARARAJAN NEURO HOSPITAL (P) LTD.	CHENNAI
1558.	DR TMA PAI ROTARY HOSPITAL	MANIPAL
1559.	DR. CHAUDHARY HOSPITAL AND MEDICAL RESEARCH CENTRE	UDAIPUR
1560.	DR. NTR VAIDYA SEVA TRUST	VISAKHAPATNAM
1561.	DR. R.N. LAHOTI AYURVEDIC COLLEGE SULTA	SULTANPUR
1562.	DR. RANJEET JAGTAPS HEART CLINIC	PUNE
1563.	DR. REDDYS LABORATORIES	HYDERABAD
1564.	DR. REDDYS LABORATORIES LTD.	VISAKHAPATNAM
1565.	DREAM STEPS TECHNOLOGIES (P) LTD.	NOIDA
1566.	DREAMERINDIA INNOVATIONS	CHENNAI
1567.	DREAMORBIT SOFTECH (P) LTD.	BANGALORE
1568.	DRESSER-RAND	PUNE
1569.	DRESSER-RAND A SIEMENS BUSINESS	PUNE
1570.	DRUVA DATA SOLUTIONS (P) LTD.	PUNE
1571.	DRY DOCKS WORLD DUBAI	DUBAI
1572.	DSI TECHNOLOGIES (P) LTD.	CHENNAI
1573.	DSM - SINOCEM PHARMACEUTICALS (I) (P) LTD.	TOANSA
1574.	DSMART SYSTEMS (P) LTD.	HYDERABAD
1575.	DTDC EXPRESS LTD.	MUMBAI
1576.	DUBAI AIR NAVIGATION SERVICES	DUBAI
1577.	DUBAI CABLE COMPANY	DUBAI
1578.	DUBAI ELECTRICITY & WATER AUTHORITY	DUBAI
1579.	DUBAI ELECTRICITY AND WATER AUTHORITY	DUBAI
1580.	DUFREY BUSINESS SERVICES LLP	BANGALORE
1581.	DUN & BRADSTREET TECHNOLOGY AND DATA SERVICES	CHENNAI
1582.	DUNBAR AND BOARDMAN PARTNERSHIP LTD.	DUBAI
1583.	DUNCAN ENGINEERING LTD.	PUNE
1584.	DUNNHUMBY	DELHI
1585.	DUPONT INDIA	HYDERABAD
1586.	DURA AUTOMOTIVE SERVICES (I) (P) LTD.	HYDERABAD
1587.	DUSANE INFOTECH (P) LTD.	PUNE
1588.	DVS TECHNOSOFT (P) LTD.	PUNE
1589.	DXC TECHNOLOGIES	BANGALORE
1590.	DXC TECHNOLOGIES	CHENNAI
1591.	DXC TECHNOLOGIES	HYDERABAD
1592.	DXC TECHNOLOGIES	NOIDA
1593.	DXC TECHNOLOGIES	PUNE
1594.	DXC TECHNOLOGY (I) (P) LTD.	DELHI
1595.	DYNAFUSION TECHNOLOGIES (P) LTD.	BANGALORE
1596.	DYNAMATICS HYDRAULICS	CHENNAI
1597.	DYNAMIC INDUSTRIES	ABUDHABI
1598.	DYNAMIC INDUSTRIES	DELHI
1599.	DYNASPEDE INTEGRATED SYSTEMS	HOSUR
1600.	E CUBE (I) SOLUTIONS LTD.	VADODARA
1601.	E SQUARE PROFESSIONAL TRAINING AND CONSULTING	CHENNAI
1602.	E.I DUPONT (I) (P) LTD.	GURGAON
1603.	E.I DUPONT (I) (P) LTD.	VADODARA
1604.	EAGLEBURGMANN KE (P) LTD.	CHENNAI
1605.	EAGLEBURGMANN SAUDIARABIA LTD.	SAUDIARABIA
1606.	EASI - ALLEGIS GROUP	BANGALORE
1607.	EASUN REYROLLE LTD.	BANGALORE
1608.	EASUN-MR TAP CHANGERS (P) LTD.	CHENNAI
1609.	EATON (I) INNOVATION CENTER	PUNE
1610.	EATON (I) INNOVATION CENTER	MAGARPATTA
1611.	EATON (I) INNOVATION CENTER	PUNE
1612.	EATON FLUID POWER LTD.	AHMEDNAGAR
1613.	EATON FLUID POWER LTD.	CHENNAI
1614.	EATON INDUSTRIAL SYSTEMS (P) LTD.	AHMEDNAGAR
1615.	EATON TECHNOLOGIES (P) LTD.	PONDICHERY
1616.	EATON TECHNOLOGIES (P) LTD.	PUNE
1617.	EBIX SOFTWARE (I) (P) LTD.	COIMBATORE
1618.	EBSAVVY INFOTECH (P) LTD.	NOIDA
1619.	E-BUSINESS SOLUTIONS LTD.	RIYADH
1620.	EBZ SYSTEC (I) (P) LTD.	GURGAON
1621.	ECCENTRIC INFOTECH (P) LTD.	PUNE
1622.	ECENTRIC HR SOLUTIONS (P) LTD.	BANGALORE
1623.	ECENTRIC SOLUTIONS	BANGALORE
1624.	ECI TELECOM	BANGALORE
1625.	ECIL	BANGALORE
1626.	ECIL	HYDERABAD
1627.	ECIL(UNDER DEPARTMENT OF ATOMIC ENERGY)	HYDERABAD

S.No.	ORGANIZATION	LOCATION
1628.	ECLERX	CHANDIGARH
1629.	ECLERX SERVICES LTD.	PUNE
1630.	ECLINICALWORKS	AHMEDABAD
1631.	ECLINICALWORKS (I) (P) LTD.	PUNE
1632.	ECOLOGIKOL ADVISORS (I) (P) LTD.	CHENNAI
1633.	EDAG PRODUCTION SOLUTION	GURGAON
1634.	EDGEVERVE LTD.	PUNE
1635.	EDGEVERVE SYSTEMS	BANGALORE
1636.	EDGEVERVE SYSTEMS	PUNE
1637.	EDGEVERVE SYSTEMS LTD.	BANGALORE
1638.	EDGEVERVE SYSTEMS LTD.	PUNE
1639.	EDGEVERVE(AN INFOSYS COMPANY)	BANGALORE
1640.	EDGEVERVE(AN INFOSYS COMPANY)	HYDERABAD
1641.	EDIC PRECISION INDUSTRIES	ABUDHABI
1642.	EDIFECS TECHNOLOGIES (P) LTD.	GURGAON
1643.	EDUPRISTINE	GURGAON
1644.	EDUTECH	HYDERABAD
1645.	EF INFORMATION SYSTEMS	BANGALORE
1646.	EF INFORMATION SYSTEMS (P) LTD.	BANGALORE
1647.	EFFECTUAL KNOWLEDGE SERVICES	NOIDA
1648.	EFI (I) (P) LTD.	BANGALORE
1649.	EGAIN COMMUNICATIONS (P) LTD.	PUNE
1650.	EGIS RAIL	RIYADH
1651.	EICHER POLARIS	INDORE
1652.	EICHER POLARIS	JAMSHEDPUR
1653.	EINFOCHIPS	AHMEDABAD
1654.	EINFOCHIPS	BANGALORE
1655.	EINFOCHIPS (I) (P) LTD.	DELHI
1656.	EINFOCHIPS (P) LTD.	AHMEDABAD
1657.	EINFOCHIPS (P) LTD.	MUMBAI
1658.	EKA SOFTWARE SOLUTIONS (P) LTD.	BANGALORE
1659.	EKAM VENTURE	NASHIK
1660.	EKUBE DESIGN SOLUTIONS	BANGALORE
1661.	ELCO INTERNATIONAL ENGINEERING CO. LLC	DUBAI
1662.	ELECTRICITY AND WATER AUTHORITY	BAHRAIN
1663.	ELECTRO AUTOMATION	COIMBATORE
1664.	ELECTRO METER CORPORATION	KOLKATA
1665.	ELECTRODRIVE POWERTRAIN SOLUTIONS (P) LTD.	PUNE
1666.	ELECTROMECH MATERIAL HANDLINGSSYSTEMS	PUNE
1667.	ELECTRON BRIDGE	NOIDA
1668.	ELECTRONICA HITECH MACHINE TOOLS (P) LTD.	PUNE
1669.	ELECTRONICS CORPORATION OF (I) LTD.	CHENNAI
1670.	ELECTRONICS CORPORATION OF (I) LTD.	HYDERABAD
1671.	ELECTRONICS FOR IMAGING (I) (P) LI	BANGALORE
1672.	ELECTROSTEEL STEELS LTD.	KOLKATA
1673.	ELEKTROBIT INDIA	BANGALORE
1674.	ELEKTRONIKA SALES (I) (P) LTD.	DELHI
1675.	ELEMENT DOHA LLC	HYDERABAD
1676.	ELEMENT INFOMATICS (I) (P) LTD.	BANGALORE
1677.	ELGI EQUIPMENTS LTD.	COIMBATORE
1678.	ELGI EQUIPMENTS LTD.	KOLKATA
1679.	ELGI EQUIPMENTS LTD.	MUMBAI
1680.	ELI RESEARCH (I) (P) LTD.	CHENNAI
1681.	ELI RESEARCH (I) (P) LTD.	DELHI
1682.	ELI RESEARCH (I) (P) LTD.	FARIDABAD
1683.	ELI RESEARCH (I) (P) LTD.	GURGAON
1684.	ELIXIER ADNOC LINDE INDUSTRIAL GASES LTD.	ABUDHABI
1685.	ELMACH PACKAGES (I) (P) LTD.	BHIWADI
1686.	ELPIS IT SOLUTIONS (P) LTD.	BANGALORE
1687.	ELSEWEDY CABLES	DOHA
1688.	ELSYTEC POWER PROJECTS (P) LTD. CHENNAI	CHENNAI
1689.	ELTEX SUPER CASTINGS	COIMBATORE
1690.	EMAMI CEMENT LTD.	HYDERABAD
1691.	EMARAT ALOULA INDUSTRIES	DUBAI
1692.	EMBITEL TECHNOLOGIES (I) (P) LTD.	PUNE
1693.	EMC SOFTWARE & SERVICES (I) P LTD.	BANGALORE
1694.	EMC SOFTWARE & SERVICES (I) P LTD.	MAHADEVAPURA
1695.	EMC SOFTWARE AND SERVICES (I) (P) LTD.	BANGALORE
1696.	EMCO - A DIVISION OF ETA	DUBAI
1697.	EMCURE PHARMACEUTICALS LTD.	PUNE
1698.	EME AUTOMATION	PANAJI

S.No.	ORGANIZATION	LOCATION
1699.	EMEDISCENE	DELHI
1700.	EMERALD HOMEDEVELOPERS (P) LTD.	DELHI
1701.	EMERIO TECHNOLOGIES	CHENNAI
1702.	EMERSON	AMBERNATH
1703.	EMERSON	BANGALORE
1704.	EMERSON	CHENNAI
1705.	EMERSON	DUBAI
1706.	EMERSON	NASHIK
1707.	EMERSON	SAUDIARABIA
1708.	EMERSON - FISHER CHENNAI ENGINEERING CENTRE	CHENNAI
1709.	EMERSON AUTOMATION SOLUTIONS	CHENNAI
1710.	EMERSON INNOVATION CENTER - PUNE	PUNE
1711.	EMERSON PROCESS MANAGEMENT (I) PVT.LTD	PUNE
1712.	EMESA (I) ELEVATOR COMPONENT (P) L	MUMBAI
1713.	EMIDS TECHNOLOGIES	BANGALORE
1714.	EMIRATE ADVANCE RESEARCH & TECHNOLOGY HO	ABUDHABI
1715.	EMIRATES AIRLINES	DUBAI
1716.	EMIRATES ALUMINIUM	ABUDHABI
1717.	EMIRATES ALUMINIUM	ALTAWEELAH
1718.	EMIRATES BLOCK FACTORY	ABUDHABI
1719.	EMIRATES BLOCKS FACTORY	DUBAI
1720.	EMIRATES GENERAL PETROLEUM CORPORATION(EMARA	DUBAI
1721.	EMIRATES GLOBAL ALUMINIUM	ABUDHABI
1722.	EMIRATES GLOBAL ALUMINIUM	DUBAI
1723.	EMIRATES GROUP	DUBAI
1724.	EMIRATES NBD	DUBAI
1725.	EMIRATES STEEL	ABUDHABI
1726.	EMIRATES STEEL	DUBAI
1727.	EMIRATES TELECOMMUNICATIONS	HYDERABAD
1728.	EMMANUEL HOSPITAL ASSOCIATION	KOLKATA
1729.	EMPLAY INC.	BANGALORE
1730.	EMRILL SERVICES LLC	CHENNAI
1731.	EMTEC TECH (P) LTD.	PUNE
1732.	EMTEC TECHNOLOGIES	PUNE
1733.	EMUDHRA LIMTED	BANGALORE
1734.	EMUDHRA LTD.	BANGALORE
1735.	EMUG ENGINEERING SERVICES (P) LTD.	HYDERABAD
1736.	E-MUG TECHNOLOGIES (P) LTD.	HYDERABAD
1737.	ENARKA (I) (P) LTD.	BANGALORE
1738.	ENARKA (I) (P) LTD. BANGALORE	BANGALORE
1739.	ENCO ENGINEERS COMBINE (P) LTD.	NOIDA
1740.	ENDEAVOUR (A GENPACT COMPANY)	BANGALORE
1741.	ENDRESS + HAUSER FLOWTEC (I) (P) LTD.	AURANGABAD
1742.	ENDRESS+HAUSER FLOWTEC (I) (P) LTD.	PUNE
1743.	ENDRESS+HAUSER INSTRUMENTS INTERNATIONAL AG	DUBAI
1744.	ENDRESS+HAUSER WETZER (I) (P) LTD.	AURANGABAD
1745.	ENDURANCE INTERNATIONAL GROUP	BANGALORE
1746.	ENDURANCE TECHNOLOGIES LTD.	AURANGABAD
1747.	ENDURANCE TECHNOLOGIES LTD.	DELHI
1748.	ENDURANCE TECHNOLOGIES LTD.	PUNE
1749.	ENERGY EFFICIENCY SERVICES LTD.	MUMBAI
1750.	ENEXL TECHNOLOGIES & SOLUTIONS (P) LMT	BANGALORE
1751.	ENGINEERING CONSORTIUM CONSULTING ENGINE	DUBAI
1752.	ENGINEERING INTEGRITY SOLUTIONS	CHENNAI
1753.	ENGINEERS (I) LTD.	DELHI
1754.	ENOIA BABCOCK BORSIG (P) LTD.	CHENNAI
1755.	ENOVA FACILITIES MANAGEMENT	DUBAI
1756.	ENPHASE ENERGY	BANGALORE
1757.	ENSEMBLE TECH (P) LTD.	CHENNAI
1758.	ENTER ORGANIZATION	HOSUR
1759.	ENTROPIK TECHNOLOGIES (P) LTD.	BANGALORE
1760.	ENVESTNET	BANGALORE
1761.	ENVESTNET	THIRUVANANTHAPURAM
1762.	ENVESTNET	TRIVANDRUM
1763.	ENZENE BIOSCIENCES LTD. PUNE	PUNE
1764.	EPAM SYSTEMS	HYDERABAD
1765.	EPAM SYSTEMS (I) (P) LTD.	HYDERABAD
1766.	EPIROC MINING (I) LTD.	PUNE
1767.	EPPINGER TOOLING ASIA P LTD.	COIMBATORE
1768.	EPSILON	BANGALORE
1769.	EPSILON CONVERSANT	BANGALORE

S.No.	ORGANIZATION	LOCATION
1770.	EPTISA (I) PROVATE LTD.	KOLKATA
1771.	EQ TECHNOLOGIC	PUNE
1772.	EQ TECHNOLOGIC INC.	PUNE
1773.	EQUAL EXPERTS	BANGALORE
1774.	EQUATE PETROCHEMICAL COMPANY	KUWAIT
1775.	EQUILIBRIUM SOLUTIONS PVT.LTD	PUNE
1776.	ERBHS-CNI	DELHI
1777.	ERCON COMPOSITES	JODHPUR
1778.	ERICSSON	BANGALORE
1779.	ERICSSON	DELHI
1780.	ERICSSON (I) (P) LTD.	BANGALORE
1781.	ERICSSON (I) (P) LTD.	DELHI
1782.	ERICSSON (I) GLOBAL (P) LTD.	BANGALORE
1783.	ERICSSON (I) GLOBAL (P) LTD.	DELHI
1784.	ERICSSON (I) GLOBAL SERVICES	CHENNAI
1785.	ERICSSON (I) GLOBAL SERVICES (P) LTD.	BANGALORE
1786.	ERICSSON (I) GLOBAL SERVICES (P) LTD.	DELHI
1787.	ERICSSON GLOBAL (I) LTD.	BANGALORE
1788.	ERICSSON GLOBAL (I) LTD.	GHAZIABAD
1789.	ERICSSON GLOBAL (I) LTD.	GURGAON
1790.	ERICSSON GLOBAL (I) LTD.	GUWAHATI
1791.	ERICSSON GLOBAL (I) LTD.	KOLKATA
1792.	ERICSSON GLOBAL (I) LTD.	NOIDA
1793.	ERICSSON GLOBAL (I) SERVICES	BANGALORE
1794.	ERICSSON GLOBAL (I) SERVICES	DELHI
1795.	ERNST & YOUNG	BANGALORE
1796.	ERNST & YOUNG	CHENNAI
1797.	ERNST & YOUNG	KOCHI
1798.	ERNST & YOUNG (P) LTD.	BANGALORE
1799.	ERNST & YOUNG GLOBAL DELIVERY SERVICES (I) LLP	BANGALORE
1800.	ERNST & YOUNG LLP	HYDERABAD
1801.	ERNST & YOUNG LLP	KOLKATA
1802.	ERNST AND YOUNG	BANGALORE
1803.	ERNST AND YOUNG LLP	DELHI
1804.	ERON ENERGY (P) LTD.	GURGAON
1805.	ESCORTS LTD.	DELHI
1806.	ESI CORPORATION	DELHI
1807.	ESI HARYANA	DELHI
1808.	ESKAYEM CONSULTANTS (P) LTD.	MUMBAI
1809.	ESKO GRAPHICS (I) (P) LTD.	BANGALORE
1810.	E-SOURCE SOLUTIONS LTD.	BANGALORE
1811.	ESRI	DELHI
1812.	ESSAR PROJECTS (I) LTD.	CHENNAI
1813.	ESSAR STEEL (I) LTD.	HYDERABAD
1814.	ESSAR STEEL (I) LTD.	SURAT
1815.	ESSAR STEEL LTD. INDIA.	MUMBAI
1816.	ESSAR STEELS LTD.	MUMBAI
1817.	ESSENTRA	BANGALORE
1818.	ESSEX LAKE GROUP	DELHI
1819.	ESTECH DESIGN	PUNE
1820.	ESTERLINE TECHNOLOGIES (I) (P) LTD.	BANGALORE
1821.	ETA ASCON (M&E DIVISION)	DUBAI
1822.	ETA MELCO ELEVATOR CO. LLC (DUBAI)	DUBAI
1823.	ETECHACES MARKETING AND CONSULTING (P) LTD.	DELHI
1824.	ETIHAD AIRWAYS ENGINEERING	ABUDHABI
1825.	ETIMAD RESEARCH AND DEVELOPMENT LLC	DUBAI
1826.	ETISALAT	ABUDHABI
1827.	EUPHORIA TECHNOLOGIES	CHENNAI
1828.	EUPHOTIC LABS	BANGALORE
1829.	EUROFINS IT SOLUTIONS	BANGALORE
1830.	EUROFLEX TRANSMISSIONS (I) (P) LTD.	HYDERABAD
1831.	EUROGULF MACHINES AND TOOLS	DUBAI
1832.	EVALUESERVE	DUBAI
1833.	EVALUESERVE	GURGAON
1834.	EVALUESERVE.COM	DELHI
1835.	EVALUESERVE.PVT.LTD	DELHI
1836.	EVANGELICAL MISSION HOSPITAL TILDA	RAIPUR
1837.	EVEREADY INDUSTRIES (I) LTD.	UAE
1838.	EVERSENDAL OFFSHORE LLC	UAE
1839.	EOBI AUTOMATION (P) LTD.	BANGALORE
1840.	EVOKE TECHNOLOGIES	HYDERABAD

S.No.	ORGANIZATION	LOCATION
1841.	EVOLVUS SOLUTIONS	BANGALORE
1842.	EVOQUA WATER TECHNOLOGIES PTE LTD.	SINGAPORE
1843.	EVRY INDIA	BANGALORE
1844.	EVRY INDIA	MOHALI
1845.	EXADATUM	PUNE
1846.	EXCEL DESIGN TECHNOLOGIES (P) LTD.	DELHI
1847.	EXCEL INDUSTRIES LTD.	MUMBAI
1848.	EXCELLENCE INFOCOM	PUNE
1849.	EXEDY (I) LTD.	NOIDA
1850.	EXEED GEO TEXTILE LLC	ABUDHABI
1851.	EXIDE INDUSTRIES LTD.	REWARI
1852.	EXIMIUS DESIGN	BANGALORE
1853.	EXIMIUS DESIGN (I) (P) LTD.	BANGALORE
1854.	EXL ANALYTICS	CHENNAI
1855.	EXL ANALYTICS NOIDA	NOIDA
1856.	EXL SERVICE(INDUCTIS)	DELHI
1857.	EXL SERVICE.COM(I) (P) LTD.	DELHI
1858.	EXL SERVICES	GURGAON
1859.	EXL SERVICES	NOIDA
1860.	EXPEDIA	DELHI
1861.	EXPEDIA	GURGAON
1862.	EXPEDIA	VISAKHAPATNAM
1863.	EXPEDIA (I) (P) LTD.	GURGAON
1864.	EXPEDIA (I) TRAVEL (P) LTD.	GURGAON
1865.	EXPEDIA GROUP	DELHI
1866.	EXPEDIA INC	GURGAON
1867.	EXPEDIA INC.	BANGALORE
1868.	EXPEDIA ONLINE TRAVEL SERVICES (I) (P) LIMIT	DELHI
1869.	EXPEDIA ONLINE TRAVEL SERVICES (I) (P) LTD.	BANGALORE
1870.	EXPEDIA ONLINE TRAVEL SERVICES (I) (P) LTD.	DELHI
1871.	EXPEDIA ONLINE TRAVEL SERVICES (I) (P) LTD.	GURGAON
1872.	EXPEDIA ONLINE TRAVEL SERVICES INDIA	DELHI
1873.	EXPERION TECHNOLOGIES	KOCHI
1874.	EXPERION TECHNOLOGIES	TRIVANDRUM
1875.	EXPERIS INIDA (P) LTD.	BANGALORE
1876.	EXPERIS INIDA (P) LTD.	PUNE
1877.	EXPERT GLOBAL SOLUTIONS	AURANGABAD
1878.	EXPERT GLOBAL SOLUTIONS	PUNE
1879.	EXPLORIDE TECHNOLOGIES (P) LTD.	BANGALORE
1880.	EXPONENTIA DATALABS	MUMBAI
1881.	EXPONENTIAL (I) (P) LTD.	NOIDA
1882.	EXPRO NORTH SEA	MUMBAI
1883.	EXTERRAN BELLELI ENERGY FZE	SHARJAH
1884.	EXTRACO INDUSTRIES LLC	UAE
1885.	EXTRAPRENEURSINDIA (P) LTD.	PUNE
1886.	EXTREME NETWORKS (I) (P) LTD.	CHENNAI
1887.	EXUSIA	BANGALORE
1888.	EY GBS (P) LTD.	THIRUVANANTHAPURAM
1889.	EY GBS (P) LTD.	TRIVANDRUM
1890.	EY GDS INDIA	BANGALORE
1891.	EYGBS (I) LLP	BANGALORE
1892.	EZESOFTWARE (I) (P) LTD.	HYDERABAD
1893.	EZYTECH INTERNATIONAL	DELHI
1894.	F5 NETWORKS INNOVATION (P) LTD.	HYDERABAD
1895.	FAB FACTORY	BANGALORE
1896.	FACADE ONE SYSTEMS (P) LTD.	THANE
1897.	FACETS FACE AND SMILE 12KADAVANTHRA KOCHI	ERNAKULAM
1898.	FAFADIA TECH	MUMBAI
1899.	FAIR ISAAC (I) SOFTWARE (P) LIMITE	BANGALORE
1900.	FAIR ISAAC (I) SOFTWARE (P) LTD. (FICO)	BANGALORE
1901.	FAIVELEY RAIL TRASPORT	CHENNAI
1902.	FAIVELEY TRANSPORT	BANGALORE
1903.	FAIVELEY TRANSPORT	HOSUR
1904.	FAIVELEY TRANSPORT RAIL TECHNOLOGIES (I) LTD.	BANGALORE
1905.	FAIVELEY TRANSPORT RAIL TECHNOLOGY (I) LTD.	DELHI
1906.	FAMILY DENTAL WELLNESS CLINIC	MUMBAI
1907.	FARADAY'S TECHNOLOGIES TECHNICAL SERVICES LLC	DUBAI
1908.	FARAH EXPERIENCES LLC	DUBAI
1909.	FASTMAN PTE LTD.	SINGAPORE
1910.	FAURACIA AUTOMOTIVE	PUNE
1911.	FAURECIA (I) (P) LTD.	BANGALORE

S.No.	ORGANIZATION	LOCATION
1912.	FAURECIA AUTOMOTIVE SEATING (I) (P) LTD.	PUNE
1913.	FAURECIA CLEAN MOBILITY	BANGALORE
1914.	FAURECIA EMISSION CONTROL TECHNOLOGIES	BANGALORE
1915.	FAURECIA EMISSIONS CONTROL TECH	CHENNAI
1916.	FAURECIA EMISSIONS CONTROL TECHNOLOGIES (I) PVT	BANGALORE
1917.	FAURECIA INDIA	BANGALORE
1918.	FAVE LABS	HYDERABAD
1919.	FCA ENGINEERING (I) (P) LTD.	CHENNAI
1920.	FCSG (I) (P) LTD.	DELHI
1921.	FDC LTD.	MUMBAI
1922.	FDC LTD.	VERNA
1923.	FEDERAL MOGUL GOETZE INDIA	DELHI
1924.	FELIX INDUSTRIES LTD.	DELHI
1925.	FENCE INTERNATIONAL L.L.C.	ABUDHABI
1926.	FESTO (I) (P) LTD.	BANGALORE
1927.	FEV (I) (P) LTD.	PUNE
1928.	FIABILITE NETWORK SOLUTION (P) LTD.	BANGALORE
1929.	FIAT (I) AUTOMOBILES (P) LTD.	HYDERABAD
1930.	FIAT (I) AUTOMOBILES (P) LTD.	PUNE
1931.	FIAT CHRYSLER AUTOMOBILES	CHENNAI
1932.	FIAT CHRYSLER AUTOMOBILES	PUNE
1933.	FIBCOM (I) LTD.	DELHI
1934.	FIBRE KING CO LTD. - THAILAND	THAILAND
1935.	FIDELITY BUSINESS SERVICES (I) (P) LTD.	BANGALORE
1936.	FIDELITY BUSINESS SERVICES (I) (P) LTD.	CHENNAI
1937.	FIDELITY BUSINESS SERVICES (I) (P) LTD.	GURGAON
1938.	FIDELITY INFORMATION SERVICES	DELHI
1939.	FIDELITY INTERNATIONAL	DELHI
1940.	FIDELITY INVESTMENTS	BANGALORE
1941.	FIDELITY INVESTMENTS	DUBAI
1942.	FIELD CORE SERVICE SOLUTIONS INTERNATIONAL	DUBAI
1943.	FINANCIAL SOFTWARE & SYSTEMS (P) LTD.	CHENNAI
1944.	FINASTRA FORMLEY KNOWN AS D+H	TRIVANDRUM
1945.	FINE FINISH ORGANICS (P) LTD.	MUMBAI
1946.	FINISAR (I) (P) LTD.	HYDERABAD
1947.	FIREEYE CYBERSECURITY (P) LTD.	BANGALORE
1948.	FIRST AMERICAN	BANGALORE
1949.	FIRST AMERICAN FINANCIAL CORPORATION	CHENNAI
1950.	FIRST AMERICAN FINANCIAL CORPORATION	HYDERABAD
1951.	FIRST CONSULTING ENGINEERS & SERVICES (P) LTD.	KOLKATA
1952.	FIRST ENERGY (P) LMT PUNE	PUNE
1953.	FIRST OPINION SERVICES	MOHALI
1954.	FIRST PASS SEMICONDUCTOR (P) LTD.	HYDERABAD
1955.	FIRST PASS SEMICONDUCTORS (P) LTD.	HYDERABAD
1956.	FIS GLOBAL (I) (P) LTD.	BANGALORE
1957.	FIS GLOBAL (I) (P) LTD.	CHENNAI
1958.	FIS GLOBAL (I) (P) LTD.	GURGAON
1959.	FIS GLOBAL (I) (P) LTD.	NOIDA
1960.	FIS GLOBAL (I) (P) LTD.	PUNE
1961.	FIS SOLUTIONS (I) (P) LTD.	DELHI
1962.	FISERV (I) (P) LTD.	DELHI
1963.	FISERV (I) (P) LTD.	GURGAON
1964.	FISERV (I) (P) LTD.	NOIDA
1965.	FISERV (I) (P) LTD.	PUNE
1966.	FISERV INDIA	DELHI
1967.	FISSION COMPUTER LABS (P) LTD.	HYDERABAD
1968.	FISSION LABS	HYDERABAD
1969.	FLAKTGROUP SINGAPORE (P) LTD.	SINGAPORE
1970.	FLASH ELECTRONICS(I)PVT.LTD	PUNE
1971.	FLATIRONS SOLUTIONS (I) LTD.	CHENNAI
1972.	FLEX (I) (P) LTD.	CHENNAI
1973.	FLEX (I) (P) LTD.	PUNE
1974.	FLEXTRONICS TECHNOLOGIES (I) (P) LTD.	CHENNAI
1975.	FLEXTRONICS TECHNOLOGIES (I) (P) LTD.	HYDERABAD
1976.	FLINT ARABIA CONSULTING COMPANY	BANGALORE
1977.	FLIPKART	BANGALORE
1978.	FLIPKART (I) (P) LTD.	BANGALORE
1979.	FLIPKART (I) (P) LTD.	COIMBATORE
1980.	FLIPKART INTERNET (P) LTD.	BANGALORE
1981.	FLOWSERVE (I) CONTROLS (P) LTD.	BANGALORE
1982.	FLOWSERVE (I) CONTROLS (P) LTD.	CHENNAI

S.No.	ORGANIZATION	LOCATION
1983.	FLOWSERVE (I) CONTROLS (P) LTD.	COIMBATORE
1984.	FLOWSERVE GULF FZE	BANGALORE
1985.	FLOWSERVE GULF FZE	DUBAI
1986.	FLOWSERVE PTE LTD.	CHENNAI
1987.	FLSMIDTH (P) LTD.	CHENNAI
1988.	FLUIDLINE HYDRO EQUIPMENTS	SONIPAT
1989.	FLUOR DANIEL (I) (P) LTD.	DELHI
1990.	FLUOR DANIEL (I) (P) LTD.	GURGAON
1991.	FLYJAC LOGISTICS (P) LTD.	CHENNAI
1992.	FLYMATE (P) LTD.	DELHI
1993.	FOI SYSTEMS	BANGALORE
1994.	FOLEYDESIGNS (P) LTD.	BANGALORE
1995.	FORBES MARSHALL ARCA (P) LTD.	PUNE
1996.	FORCE MOTORS LTD.	PUNE
1997.	FORCE MTU POWER SYSTEMS (P) LTD.	PUNE
1998.	FORD (I) (P) LTD.	AHMEDABAD
1999.	FORD (I) (P) LTD.	CHENNAI
2000.	FORD MOTOR (P) LTD.	CHENNAI
2001.	FORD MOTOR (P) LTD. INDIA	CHENNAI
2002.	FORENSIC SCIENCE LABORATORY MUMBAI MAH	MUMBAI
2003.	FORESEE SOLUTIONS DMCC	DUBAI
2004.	FORTE RESEARCH SYSTEMS (I) (P) LTD.	BANGALORE
2005.	FORTHUGHT REALISTIC CODER (P) LTD.	NOIDA
2006.	FORTINET TECHNOLOGY	HYDERABAD
2007.	FORTIS HEALTHCARE	BANGALORE
2008.	FORTIS HEALTHCARE	CHANDIGARH
2009.	FORTIS HEALTHCARE	MUMBAI
2010.	FORTIS HEALTHCARE LTD.	DELHI
2011.	FORTIUS UNIVERSITAS	BANGALORE
2012.	FORTUNE PHARMACAL CO. LTD.	HYDERABAD
2013.	FOWLER WESTRUP	BANGALORE
2014.	FRAMEWORK PE	BANGALORE
2015.	FRAMEWORK PE INVESTMENT DATA MANAGEMENT (P) LTD.	BANGALORE
2016.	FRANCONNECT (I) SOFTWARE (P) LTD.	NOIDA
2017.	FRANKLIN TEMPLETON	HYDERABAD
2018.	FRANKLIN TEMPLETON INTERNATIONAL SERVICES (P) LTD.	HYDERABAD
2019.	FRAUSCHER SENSOR TECHNOLOGY	BANGALORE
2020.	FREIGHTWORKS (DUBAI EXPRESS)	DUBAI
2021.	FRESENIUS KABI ONCOLOGY LTD.	BADDI
2022.	FRESHDESK TECHNOLOGIES (P) LTD.	CHENNAI
2023.	FRESHFISH CONSULTING AND TECHNOLOGIES	BANGALORE
2024.	FRESHFISH CONSULTING AND TECHNOLOGIES	CHENNAI
2025.	FRESHWORKS	CHENNAI
2026.	FRESHWORKS INC	CHENNAI
2027.	FRICK (I) LTD.	DELHI
2028.	FRIENDS CONSULTANCY SERVICES	VERNA
2029.	FRONIUS (I) (P) LTD.	CHENNAI
2030.	FRONTIER KNITTERS	BANGLADESH
2031.	FROST & SULLIVAN (I) (P) LTD.	BANGALORE
2032.	FTD (I) (P) LTD.	HYDERABAD
2033.	FTV PROCLAD (S) PTE LTD.	SINGAPORE
2034.	FU CHUN SHIN MACHINERY MANUFACTURE CO;LTD	TAINAN
2035.	FUGENIC CS (P) LTD.	HYDERABAD
2036.	FUJAIRAH ASIA POWER COMPANY	COCHIN
2037.	FUJAIRAH ASIA POWER COMPANY	UAE
2038.	FUJI ELECTRIC (I) (P) LTD.	MUMBAI
2039.	FUJITSU CONSULTING (I) (P) LTD.	BANGALORE
2040.	FUJITSU CONSULTING INDIA	DELHI
2041.	FUJSENG CONSTRUCTION LLC	DUBAI
2042.	FUJSENG CONSTRUCTION LLC	UAE
2043.	FUNSKOOL (I) LTD.	GOA
2044.	FUSIONSTAK TECHNOLOGIES (P) LTD.	PUNE
2045.	FUTURE CAE TECHNOLOGIES (P) LTD.	CHENNAI
2046.	FUTURE ELECTRONICS (DISTRIBUTION) INC.PTE.LT	BANGALORE
2047.	FUTURE PACK - ENPI DIVISION	SHARJAH
2048.	FUTURE PIPE INDUSTRIES	DUBAI
2049.	FUTURE SUPPLY CHAIN SOLUTIONS LTD.	THANE
2050.	FUTURES FIRST INFO SERVICES	HYDERABAD
2051.	FUTURES FIRST INFO SERVICES (P) LTD.	HYDERABAD
2052.	FUTURISTIC BUDDHA TECH (P) LTD.	DELHI
2053.	G E D L F MARHOWRAH	MARHOWRAH

S.No.	ORGANIZATION	LOCATION
2054.	G4S IT SERVICES (I) (P) LTD.	GURGAON
2055.	GABRIEL (I) LTD.	GURGAON
2056.	GABRIEL (I) LTD.	HOSUR
2057.	GABRIEL (I) LTD.	PUNE
2058.	GABRIEL (I) LTD. HOSUR	BANGALORE
2059.	GABRIEL (I) LTD. PUNE	PUNE
2060.	GAIN CREDIT	CHENNAI
2061.	GAINSIGHT (I) (P) LTD.	HYDERABAD
2062.	GALA PRECISION ENGINEERING (P) LTD.	BHANDARA
2063.	GALA PRECISION ENGINEERING (P) LTD.	VILLAGEVADAVALI
2064.	GALFAR ENGINEERING & CONTG. SAOG	BANGALORE
2065.	GAMESA RENEWABLE (P) LTD.	CHENNAI
2066.	GANESH INDUSTRIES	DUBAI
2067.	GAP IT SERVICES (I) (P) LTD.	HYDERABAD
2068.	GARAM MATKA	PUNE
2069.	GARDNER AEROSPACE PRANITA (P) LTD.	BANGALORE
2070.	GARRETT	PUNE
2071.	GASCO (ABUDHABI GAS INDUSTRIES)	ABUDHABI
2072.	GATELENGTH TECHNOLOGY (P) LTD.	NOIDA
2073.	GATES (I) (P) LTD.	PUNE
2074.	GAURISHANKER ELECTROCASTINGS (P) LTD.	GIRIDIH
2075.	GAVS TECHNOLOGIES	CHENNAI
2076.	GAVS TECHNOLOGIES	DUBAI
2077.	GAYATRI PROJECTS LTD.	HYDERABAD
2078.	GAZPROM	KOLKATA
2079.	GBG SERVICES (I) (P) LTD.	HYDERABAD
2080.	GE (I) EXPORTS (P) LTD.	HYDERABAD
2081.	GE (I) IND (P) LTD.	PUNE
2082.	GE (I) INDUSTRIAL (P) LTD.	BANGALORE
2083.	GE (I) INDUSTRIAL (P) LTD.	HYDERABAD
2084.	GE (I) INDUSTRIAL (P) LTD.	PUNE
2085.	GE (I) INDUSTRIAL (P) LTD.	TELANGANA
2086.	GE (I) PRIVET LTD.	BANGALORE
2087.	GE APPLIANCES	BANGALORE
2088.	GE APPLIANCES	HYDERABAD
2089.	GE AVIATION	BANGALORE
2090.	GE BE (P) LTD.	BANGALORE
2091.	GE CAPITAL	HYDERABAD
2092.	GE DIESEL LOCOMOTIVE (P) LTD.	KOLKATA
2093.	GE DIESEL LOCOMOTIVE (P) LTD.	MARHOWRAH
2094.	GE DIESEL LOCOMOTIVE (P) LTD.	ROZA
2095.	GE DIESEL LOCOMOTIVE FACTORY	MARHOWRAH
2096.	GE DIESEL LOCOMOTIVE PVT.LTD	MARHOWRAH
2097.	GE DIGITAL GE (I) EXPORTS (P) LTD.	BANGALORE
2098.	GE ENERGY MANAGEMENT	HYDERABAD
2099.	GE GLOBAL RESEARCH	BANGALORE
2100.	GE GLOBAL RESEARCH	TIRUNELVELI
2101.	GE GLOBAL RESEARCH	TUTICORIN
2102.	GE HEALTHCARE	BANGALORE
2103.	GE HEALTHCARE	PUNR
2104.	GE OIL AND GAS(BHGE)	BANGALORE
2105.	GE POWER CONVERSION (I) (P) LTD.	CHENNAI
2106.	GE POWER CONVERSION (I) (P) LTD.	HYDERABAD
2107.	GE RENEWABLE ENERGY	BANGALORE
2108.	GE RENEWABLE ENERGY	HYDERABAD
2109.	GE T&D (I) LTD.	CHENNAI
2110.	GE T&D (I) LTD.	HOSUR
2111.	GE TRANSPORTATION	BANGALORE
2112.	GE TRANSPORTATION	KOLKATA
2113.	GE TRANSPORTATION	MARHOWRAH
2114.	GE TRANSPORTATION	ROZA
2115.	GE TRANSPORTATION (A WABTE COMPANY)	BANGALORE
2116.	GE TRANSPORTATION A WEBTEC COMPANY	ROZA
2117.	GE TRASPORTATION	MARHOWRAH
2118.	GE BR PFEIFFER (I) (P) LTD.	NOIDA
2119.	GEC JAGDALPUR	JAGDALPUR
2120.	GEDL (P) LTD.	MARHOWRAH
2121.	GEDL MARHOWRAH	MARHOWRAH
2122.	GEM ENGINEERING INDUSTRIES (I) PRIVA	HYDERABAD
2123.	GEMALTO (ERSTWHILE SAFENET INC)	NOIDA
2124.	GEMALTO SMART CARDS (P) LTD.(THALES)	DELHI

S.No.	ORGANIZATION	LOCATION
2125.	GEMINI SOLUTIONS	GURGAON
2126.	GEMS PARTNERS	DELHI
2127.	GENAU EXTRUSIONS LTD.	HOSUR
2128.	GENERAL ELECTRIC	ABUDHABI
2129.	GENERAL ELECTRIC	BANGALORE
2130.	GENERAL ELECTRIC	DELHI
2131.	GENERAL ELECTRIC	HYDERABAD
2132.	GENERAL ELECTRIC	MUMBAI
2133.	GENERAL ELECTRIC (I) INDUSTRIAL PRIVET LTD.	PUNE
2134.	GENERAL ELECTRIC (I) INDUSTRIAL PVT.LTD.	PUNE
2135.	GENERAL ELECTRIC TRANSPORTATION	BANGALORE
2136.	GENERAL ELECTRICALS	BANGALORE
2137.	GENERAL ELETRIC PUNE	PUNE
2138.	GENERAL MILLS (I) (P) LTD.	MUMBAI
2139.	GENERAL MOTORS	BANGALORE
2140.	GENERAL MOTORS TECHNICAL CENTER (I) (P) LTD.	BANGALORE
2141.	GENERAL MOTORS TECHNICAL CENTER (I) PVT.LTD	BANGALORE
2142.	GENERAL MOTORS TECHNICAL CENTER BENGALURU	BANGALORE
2143.	GENERAL MOTORS TECHNICAL CENTER INDIA	BANGALORE
2144.	GENESYS BIOLOGICS (P) LTD.	HYDERABAD
2145.	GENESYS TELECOM	MUMBAI
2146.	GENIE SOFT SYSTEM	THANE
2147.	GENNEXT PLM (P) LTD.	CHENNAI
2148.	GENPACT	BANGALORE
2149.	GENPACT	GURGAON
2150.	GENPACT	HYDERABAD
2151.	GENPACT	NOIDA
2152.	GENPACT (I) (P) LTD.	BANGALORE
2153.	GENPACT (I) (P) LTD.	DELHI
2154.	GENPACT PHARMALINK CONSULTING	AHMEDABAD
2155.	GEOCONSULT (I) (P) LTD.	GURGAON
2156.	GEOMATIC ENGINEERING	BANGALORE
2157.	GEOMATIC ENGINEERING	PUNE
2158.	GEOMETRIX AUTOMATION AND ROBOTICS (P) LTD.	PUNE
2159.	GERDAU STEEL (I) LTD.	TADIPATRI
2160.	GESTAMP AUTOMOTIVE CHENNAI LTD.	CHENNAI
2161.	GEXCON (I) (P) LTD.	PUNE
2162.	GGG ENGINEERING SERVICES	CHENNAI
2163.	GGG ENGINEERING SERVICES	PUNE
2164.	GHMC	HYDERABAD
2165.	GIA (I) LABORATORY (P) LTD.	MUMBAI
2166.	GIESECKE & DEVRIENT (P) LTD.	PUNE
2167.	GIGAMON (P) LTD.	CHENNAI
2168.	GIGAMON SOLUTIONS (I) (P) LTD.	CHENNAI
2169.	GILBARCO VEEDER ROOT (I) (P) LTD.	COIMBATORE
2170.	GILBARCO VEEDER ROOT (I) (P) LTD.	MUMBAI
2171.	GILBARCO VEEDER-ROOT	KOLKATA
2172.	GILBARCO VEEDER-ROOT	MUMBAI
2173.	GIMPEX(P) LTD.	BANGALORE
2174.	GIRIKON SOLUTIONS (P) LTD.	NOIDA
2175.	GIRISH ENTERPRISES (P) LTD.	MUMBAI
2176.	GIRNAR SOFTWARE (P) LTD.	JAIPUR
2177.	GIRNARSOFT SERVICE (P) LTD.	DELHI
2178.	GIVAUDAN (I) (P) LTD.	MUMBAI
2179.	GKN AEROSPACE ENGINE SYSTEMS (I) (P) LTD.	BANGALORE
2180.	GKN AEROSPACE INDIA	BANGALORE
2181.	GKN SINTER METALS INDIA	PUNE
2182.	GL&V (I) (P) LTD.	PUNE
2183.	GLAXO SMITHKLINE CONSUMER HEALTHCARE LTD.	DELHI
2184.	GLAXO SMITHKLINE R&D HYDERABAD	HYDERABAD
2185.	GLENMARK GOA	GOA
2186.	GLENMARK PHARMACEUTICAL LTD.	GOA
2187.	GLENMARK PHARMACEUTICALS LTD.	DELHI
2188.	GLENMARK PHARMACEUTICALS LTD.	MUMBAI
2189.	GLIDER AVIATION SERVICES	CHENNAI
2190.	GLOBAL ANALYTICS	CHENNAI
2191.	GLOBAL CONVEYOR SYSTEMS	VASCODAGAMA
2192.	GLOBAL DELIGHT	BANGALORE
2193.	GLOBAL EDGE SOFTWARE	BANGALORE
2194.	GLOBAL EDGE SOFTWARE	HYDERABAD
2195.	GLOBAL FOUNDRIES	BANGALORE

S.No.	ORGANIZATION	LOCATION
2196.	GLOBAL HEALTH (P) LTD.	GURGAON
2197.	GLOBAL HOSPITAL	HYDERABAD
2198.	GLOBAL LOGIC	BANGALORE
2199.	GLOBAL PHARMATECH (P) LTD.	BANGALORE
2200.	GLOBAL PHARMATECH (P) LTD.	HOSUR
2201.	GLOBAL PROCESS SYSTEM	ABUDHABI
2202.	GLOBAL PROCESS SYSTEMS LLC	DUBAI
2203.	GLOBAL TELECOMMUNICATION (P) LTD.	DELHI
2204.	GLOBALE CAPO INDIA. (P) LTD.	THANE
2205.	GLOBALFOUNDRIES	BANGALORE
2206.	GLOBALFOUNDRIES (I) (P) LTD.	BANGALORE
2207.	GLOBALFOUNDRIES ENGINEERING (P) LTD.	BANGALORE
2208.	GLOBALFOUNDRIES SINGAPORE PTE LTD.	SINGAPORE
2209.	GLOBALLOGIC	CHENNAI
2210.	GLOBALLOGIC	DELHI
2211.	GLOBALLOGIC (I) (P) LTD.	NAGPUR
2212.	GLOBALLOGIC (I) LTD.	BANGALORE
2213.	GLOBALLOGIC (P) LTD.	NOIDA
2214.	GLOBANT (I) (P) LTD.	PUNE
2215.	GLOCAL HEALTHCARE SYSTEMS	DELHI
2216.	GLOCHEM INDUSTRIES (P) LTD.	HYDERABAD
2217.	GM TECH CENTER	BANGALORE
2218.	GMAX AUTO LTD.	BAWAL
2219.	GMMCO LTD.	CHENNAI
2220.	GMMCO LTD.	GOA
2221.	GMMCO LTD.	HYDERABAD
2222.	GMR AERO TECHNIC LTD.	HYDERABAD
2223.	GOA POLLUTION CONTROL BOARD	GOA
2224.	GOA POLLUTION CONTROL BOARD	PANAJI
2225.	GOA SHIPYARD LTD.	VASCODAGAMA
2226.	GOA STATE INFRASTRUCTURE DEV CORP.LTD	PANAJI
2227.	GOA STATE INFRASTRUCTURE DEVELOPMENT CORPORATION L	GOA
2228.	GOA WASTE MANAGEMENT CORPORATION	GOA
2229.	GODREJ & BOYCE MFG CO LTD.	BANGALORE
2230.	GODREJ & BOYCE MFG CO LTD.	CHENNAI
2231.	GODREJ & BOYCE MFG CO LTD.	HARIDWAR
2232.	GODREJ & BOYCE MFG CO LTD.	KHOPOLI
2233.	GODREJ & BOYCE MFG CO LTD.	KOLKATA
2234.	GODREJ & BOYCE MFG CO LTD.	MAPUSA
2235.	GODREJ & BOYCE MFG CO LTD.	MUMBAI
2236.	GODREJ & BOYCE MFG CO LTD.	PUNE
2237.	GODREJ & BOYCE MFG CO LTD.	VADODARA
2238.	GODREJ AGROVET LTD.	HYDERABAD
2239.	GODREJ INDUSTRIES LTD.	MUMBAI
2240.	GOGO INC	CHENNAI
2241.	GOLDMAN SACHS	BANGALORE
2242.	GOODRICH AEROSPACE SERVICES (P) LTD.	BANGALORE
2243.	GOODRICH AEROSPACE SYSTEMS (P) LTD.	BANGALORE
2244.	GOODS AND SERVICES TAX NETWORK	DELHI
2245.	GOODWORKLABS (P) LTD.	BANGALORE
2246.	GOODYEAR SATL	AURANGABAD
2247.	GOOGLE	BANGALORE
2248.	GOVERNMENT FLYING TRAINING SCHOOL	BANGALORE
2249.	GOVERNMENT INSTITUTE OF MEDICAL SCIENCES	NOIDA
2250.	GOVERNMENT OF HARYANA	CHANDIGARH
2251.	GOVERNMENT OF INDIA	DELHI
2252.	GOVERNMENT OF MAHARASHTRA	MUMBAI
2253.	GOVT COLLEGE ARTS SCIENCE & COMMERCE -	GOA
2254.	GOVT MEDICAL COLLEGE & HOSPITAL	JAMMUANDKASHMIR
2255.	GOVT OF INDIA	DELHI
2256.	GOVT OF INDIA	GURDASPUR
2257.	GOVT OF RAJASTHAN (RAS)	JAIPUR
2258.	GOVT. COLLEGE OF ARTS SC & COMMERCE	MARCELAGO
2259.	GOVT. COLLEGE OF ENGG. KALAHANDI BHAWANI	BHAWANIPATNA
2260.	GOVT. ENGINEERING COLLEGE JAGDALPUR	JAGDALPUR
2261.	GOVT. OF INDIA MEITY NATIONAL INFORMAT	DELHI
2262.	GOWRA ENGINEERING TECHNOLOGIES (P) L	GURGAON
2263.	GP GREEN ENERGY SYSTEMS (P) LTD.	PUNE
2264.	GPS CHEMOIL LLC FZC	DUBAI
2265.	GRAEBERT (I) SOFTWARE (P) LTD.	NOIDA
2266.	GRAMEEN KOTA FINANCIAL SERVICE (P) LTD.	BANGALORE

S.No.	ORGANIZATION	LOCATION
2267.	GRANLAKES ENGINEERING WORKS (P) LTD.	CHENNAI
2268.	GRANDWAY INCORPORATED	DELHI
2269.	GRANULES (I) LTD.	HYDERABAD
2270.	GRANULES OMNICHEM (P) LTD.	VISAKHAPATNAM
2271.	GRAPHENE HEALTH TECH (P) LTD.	BANGALORE
2272.	GRAPHENE SEMICONDUCTOR	BANGALORE
2273.	GRAPHENE SEMICONDUCTORS PVT.LTD	BANGALORE
2274.	GRAPHENE SEMICONDUCTORS SERVICES (P) LTD.	BANGALORE
2275.	GRASIM INDUSTRIES LTD.	MUMBAI
2276.	GRASIMS JANASEVA TRUST HOSPITAL	DAVENGERA
2277.	GREAT INNOVUS SOLUTION (P) LTD.	MADURAI
2278.	GREAT LAKES INSTITUTE OF MANAGEMENT	GURGAON
2279.	GREAT RESOURCES M&E CONTRACTOR PTE LTD.	COIMBATORE
2280.	GREAT SOFTWARE LABORATORY (P) LTD.	PUNE
2281.	GREEN CARRIER CONSULTANCY AND TECH SOLUTIONS	HYDERABAD
2282.	GREENARK ENERSOL (P) LTD.	HYDERABAD
2283.	GREENKO SOLAR ENERGY (P) LTD.	HYDERABAD
2284.	GREENLINE DELMARK (P) LTD.	KHARAGPUR
2285.	GREENSCAPES LANDSCAPES & MAINTENANCE CONTRACTING	DUBAI
2286.	GREENTURN IDEA FACTORY	COCHIN
2287.	GREY ORANGE (I) (P) LTD.	GURGAON
2288.	GRIFFIN PROJECT DEVELOPMENT CONSULTANT	DUBAI
2289.	GRINDWELL NORTON LTD.	CHENNAI
2290.	GRIT INNOVATION SOFTWARE (P) LTD.	HYDERABAD
2291.	GROUND WATER DEPARTMENT	JHUNJHUNU
2292.	GROUP 42	DUBAI
2293.	GROUPON SHARED SERVICE LTD.	BANGALORE
2294.	GROUPON SHARED SERVICES	BANGALORE
2295.	GRUNDFOS	COIMBATORE
2296.	GRUNDFOS PUMPS (I) (P) LTD.	CHENNAI
2297.	GRUPO ANTOLIN (I) (P) LTD.	PUNE
2298.	GRUPO COSMOS (I) (P) LTD.	CHENNAI
2299.	GS ENGINEERING & CONSTRUCTION DELHI (P) LTD.	SURAT
2300.	GSFC LTD.	VADODARA
2301.	GSPANN TECH. INC.	DELHI
2302.	GT NEXUS AN INFOR COMPANY	BANGALORE
2303.	GTN ENGINEERING (I) LTD.	COIMBATORE
2304.	GTTT(MBI) INDIAN NAVY	MUMBAI
2305.	GUARDIAN ZOUJAJ INTERNATIONAL FLOAT GLAS	UAE
2306.	GUAVUS A THALES COMPANY	DELHI
2307.	GUAVUS NETWORK SYSTEMS (P) LTD.	GURGAON
2308.	GUILTFREE INDUSTRIES LTD.	KOLKATA
2309.	GULATI STEEL (P) LTD.	FARIDABAD
2310.	GULBARGA INSTITUTE OF MEDICAL SCIENCES	HYDERABAD
2311.	GULF CONTRACTING CO. WLL	DOHA
2312.	GULF EXTRUSIONS CO. LLC	DUBAI
2313.	GULF GLASS INDUSTRIES	SHARJAH
2314.	GULF MEDICAL UNIVERSITY	COIMBATORE
2315.	GULF MEP SERVICES	UAE
2316.	GULF OIL LUBRICANTS (I) LTD.	MUMBAI
2317.	GULF PIPING CO. W.L.L.	ABUDHABI
2318.	GULF SNIPE ENGINEERING CONSTRUCTIONS LLC	DUBAI
2319.	GULFTAINER CO. LTD.	DUBAI
2320.	GUMBI SOFTWARE (P) LTD.	BANGALORE
2321.	GURUKRUPA ENTERPRISES	PUNE
2322.	GUSTORA FOODS (P) LTD.	DELHI
2323.	GV TOOL CO.	CHENNAI
2324.	GVK EMERGENCY MANAGEMENT & RESEARCH INST	HYDERABAD
2325.	GVK EMERGENCY MANAGEMENT & RESEARCH INST	MEGHALAYA
2326.	GWYNNIEBEE (I) (P) LTD.	BANGALORE
2327.	GXS (I) TECHNOLOGY CENTER (P) LTD.	BANGALORE
2328.	GXS (I) TECHNOLOGY CENTRE (P) LTD.	BANGALORE
2329.	H COM CONTRACTING AND SERVICES	BANGALORE
2330.	H&R BLOCK (I) (P) LTD.	BANGALORE
2331.	H.H SHEIKH MOHAMMED BIN RASHID AL MAKTOU	DUBAI
2332.	HABASIT (I) (P) LTD.	COIMBATORE
2333.	HABBOUSH GROUP GLOBAL LTD.	BAHRAIN
2334.	HADEED SABIC	JUBAIL
2335.	HAL HELICOPTER MRO DIV	BANGALORE
2336.	HALLIBURTON FAR EAST PTE LTD.	SINGAPORE
2337.	HALLIBURTON OFFSHORE SERVICES	MUMBAI

S.No.	ORGANIZATION	LOCATION
2338.	HAMAD MEDICAL CORPORATION	BANGALORE
2339.	HAMILTON HOUSEWARES (P) LTD.	MUMBAI
2340.	HANON AUTOMOTIVE SYSTEM (I) P LTD.	CHENNAI
2341.	HANON AUTOMOTIVE SYSTEMS (I) (P) LTD.	BHOPAL
2342.	HANON CLIMATE SYSTEM (I) LTD.	BHIWADI
2343.	HANSOL LOGISTICS (P) LTD.	GURGAON
2344.	HAPPIEST MINDS TECHNOLOGIES	BANGALORE
2345.	HARISHANKAR SINGHANIA ELASTOMER AND TYRE RESEARCH	MUMBAI
2346.	HARITA FEHRER LTD.	BANGALORE
2347.	HARITA FEHRER LTD.	CHENNAI
2348.	HARITA FEHRER LTD.	DELHI
2349.	HARITA FEHRER LTD.	HOSUR
2350.	HARITA FEHRER LTD.	PUNE
2351.	HARITA SEATING SYSTEMS LTD.	BANGALORE
2352.	HARITA SEATING SYSTEMS LTD.	DHARWAD
2353.	HARITA SEATING SYSTEMS LTD.	HOSUR
2354.	HARITA TECH SERV LTD.	BANGALORE
2355.	HARITA TECH SERV LTD.	INDORE
2356.	HARITA TECH SERV LTD.	PUNE
2357.	HARLEY DAVIDSON MOTOR COMPANY	BAWAL
2358.	HARLEY DAVIDSON MOTOR COMPANY	GURGAON
2359.	HARMAN CONNECTED SERVICE	BANGALORE
2360.	HARMAN CONNECTED SERVICE	GURGAON
2361.	HARMAN CONNECTED SERVICES	BANGALORE
2362.	HARMAN CONNECTED SERVICES	PUNE
2363.	HARMAN CONNECTED SERVICES CORPORATION	CHENNAI
2364.	HARMAN CONNECTED SERVICES CORPORATION INDIA	BANGALORE
2365.	HARMAN INTERNATIONAL	BANGALORE
2366.	HARMAN INTERNATIONAL	PUNE
2367.	HARMAN INTERNATIONAL (I) (P) LTD.	BANGALORE
2368.	HARRISONS MALAYALAM LTD. AN RPG GROU	COIMBATORE
2369.	HARSCO (I) (P) LTD.	HYDERABAD
2370.	HARTFORD STEAM BOILER INTERNATIONAL GMBH	KUWAIT
2371.	HARVEL IRRIGATIONS (P) LTD.	DELHI
2372.	HARYANA INDUSTRIES	GURGAON
2373.	HASHTECH SYSTEMS (P) LTD.	PUNE
2374.	HAUTE COTURE	BANGALORE
2375.	HAVELLS (I) LTD.	DELHI
2376.	HAVELLS (I) LTD.	FARIDABAD
2377.	HAVELLS (I) LTD.	NOIDA
2378.	HAWLE MID EAST FZE	DUBAI
2379.	HB ASSOCIATES	BANGALORE
2380.	HBL POWER SYSTEMS LTD.	HYDERABAD
2381.	HCENTIVE (I) (P) LTD.	NOIDA
2382.	HCL TECHNOLOGIES	AHMEDABAD
2383.	HCL TECHNOLOGIES	BANGALORE
2384.	HCL TECHNOLOGIES	CHENNAI
2385.	HCL TECHNOLOGIES	DELHI
2386.	HCL TECHNOLOGIES	GUWAHATI
2387.	HCL TECHNOLOGIES	KOLKATA
2388.	HCL TECHNOLOGIES	LUCKNOW
2389.	HCL TECHNOLOGIES	NOIDA
2390.	HCL TECHNOLOGIES	PUNE
2391.	HCL TECHNOLOGIES	TOKYO
2392.	HD INFO (P) LTD.	HYDERABAD
2393.	HDFC BANK LTD.	GOA
2394.	HDFC BANK LTD.	TRICHY
2395.	HEALTH POINT HOSPITAL	ABUDHABI
2396.	HEALTH SERVICES	KOLLAM
2397.	HEALTH SERVICES	TRIVANDRUM
2398.	HEALTHASYST	BANGALORE
2399.	HEALTHINDIA INSURANCE TPA SERVICES (P) LTD.	MUMBAI
2400.	HEALTHIUM MEDTECH (P) LTD.	BANGALORE
2401.	HEALTHLINE (P) LTD.	BANGALORE
2402.	HEAVY ENGINEERING INDUSTRIES & SHIPBUILD	KUWAIT
2403.	HEAVY ENGINEERING INDUSTRIES AND SHIPBUILDING CO	CHENNAI
2404.	HEAVY WATER PLANT MANUGURU	MANUGURU
2405.	HEDRICH VACUUM SYSTEMS (I) (P) LTD.	BANGALORE
2406.	HEISCO KUWAIT.	KUWAIT
2407.	HELA SYSTEMS (P) LTD.	HYDERABAD
2408.	HELLA (I) AUTOMOTIVE (P) LTD.	CHENNAI

S.No.	ORGANIZATION	LOCATION
2409.	HELLA (I) AUTOMOTIVE (P) LTD.	COIMBATORE
2410.	HELLA (I) AUTOMOTIVE (P) LTD.	PUNE
2411.	HELLA INIDA AUTOMOTIVE	COIMBATORE
2412.	HELLA NANJING TECHNICAL CENTER	HYDERABAD
2413.	HEMARUS THERAPEUTICS LTD.	HYDERABAD
2414.	HENDERSON INTERNATIONAL	DUBAI
2415.	HENKEL ANAND (I) (P) LTD.	CHENNAI
2416.	HENKEL ANAND (I) (P) LTD.	GURGAON
2417.	HEPATIC A TECHNOLOGIES (P) LTD.	BANGALORE
2418.	HEPTAGON TECHNOLOGIES	CHENNAI
2419.	HERE MAPS	HYDERABAD
2420.	HERE SOLUTIONS (I) (P) LTD.	MUMBAI
2421.	HERE SOLUTIONS (I) (P) LTD.	PUNE
2422.	HERE TECHNOLOGIES	MUMBAI
2423.	HERE TECHNOLOGIES	PUNE
2424.	HERO FUTURE ENERGIES (P) LTD.	DELHI
2425.	HERO MOTO CORP LTD.	DELHI
2426.	HERO MOTO CORP LTD.	GURGAON
2427.	HERO MOTO CORP LTD.	JAIPUR
2428.	HERO MOTO CORP LTD.	NEEMRANA
2429.	HERO MOTOCORP LTD.	DELHI
2430.	HERRENKNECHT (I) (P) LTD.	CHENNAI
2431.	HESTON KUWAIT (MANPOWER SUPPLY TO KNPC)	KUWAIT
2432.	HETA DATAIN	NAGPUR
2433.	HETERO DRUGS	HYDERABAD
2434.	HETERO LABS LTD.	HYDERABAD
2435.	HEURISTECH LABS (P) LTD.	DELHI
2436.	HEWLETT PACKARD	BANGALORE
2437.	HEWLETT PACKARD (I) SOFTWARE OPERATION (P) LTD.	BANGALORE
2438.	HEWLETT PACKARD ENTERPRISE	BANGALORE
2439.	HEWLETT PACKARD ENTERPRISE	CHENNAI
2440.	HEWLETT PACKARD ENTERPRISE	GURGAON
2441.	HEWLETT PACKARD ENTERPRISE	MUMBAI
2442.	HEWLETT PACKARD ENTERPRISE	SINGAPORE
2443.	HEXAWARE TECHNOLOGIES	BANGALORE
2444.	HEXAWARE TECHNOLOGIES	CHENNAI
2445.	HEXAWARE TECHNOLOGIES	MUMBAI
2446.	HEXAWARE TECHNOLOGIES	PUNE
2447.	HFN INC	BANGALORE
2448.	HHA GLOBAL CONSULTANTS LLP WE	PUNE
2449.	HICAL TECHNOLOGIES (P) LTD.	BANGALORE
2450.	HIDADA	HYDERABAD
2451.	HIDI RAE CONSULTING ENGINEERS INC (DUBAI BRA	DUBAI
2452.	HIGH RADIUS	HYDERABAD
2453.	HIGHER COLLEGES OF TECHNOLOGY	DUBAI
2454.	HIGHRADIUS	HYDERABAD
2455.	HIGHWAY INDUSTRIES LTD.	LUDHIANA
2456.	HIL LTD.	HYDERABAD
2457.	HILLSBOROUGH GENERAL TRADING LLC	MADURAI
2458.	HILTI MANUFACTURING (I) (P) LTD.	MUMBAI
2459.	HIMACHAL FUTURISTIC COMMUNICATIONS LTD.	GURGAON
2460.	HIMATSINGKA SEIDE LTD.	BANGALORE
2461.	HINDALCO INDUSTRIES LTD.	ERNAKULAM
2462.	HINDALCO INDUSTRIES LTD.	KOCHI
2463.	HINDALCO INDUSTRIES LTD.	KOLKATA
2464.	HINDALCO INDUSTRIES LTD.	MUMBAI
2465.	HINDUJA FOUNDRIES LTD.	CHENNAI
2466.	HINDUJA GLOBAL SOLUTION	BANGALORE
2467.	HINDUJA GLOBAL SOLUTIONS	BANGALORE
2468.	HINDUJA NATIONAL POWER CORPORATION LTD.	CHENNAI
2469.	HINDUJA TECH LTD.	CHENNAI
2470.	HINDUSTAN AERONAUTICS LTD.	BANGALORE
2471.	HINDUSTAN AERONAUTICS LTD.	HYDERABAD
2472.	HINDUSTAN AERONAUTICS LTD.	PUNE
2473.	HINDUSTAN AERONAUTICS LTD.-MCSRDC	BANGALORE
2474.	HINDUSTAN COCA-COLA BEVERAGE (P) LTD.	MUMBAI
2475.	HINDUSTAN COMPUTERS LTD.	HYDERABAD
2476.	HINDUSTAN HARDY SPICER LTD.	NASHIK
2477.	HINDUSTAN PETROLEUM CORPORATION LTD.	DELHI
2478.	HINDUSTAN PETROLEUM CORPORATION LTD.	KOCHI
2479.	HINDUSTAN SHIPYARD LTD. VISAKHAPATNAM	VISAKHAPATNAM

S.No.	ORGANIZATION	LOCATION
2480.	HINDUSTAN TIMES LEARNING CENTERS LTD.	GURGAON
2481.	HINDUSTAN TIMES MEDIA LTD.	DELHI
2482.	HINDUSTAN ZINC LTD.	CHITTORGARH
2483.	HINDUSTAN ZINC LTD.	DELHI
2484.	HINE HYDRAULICS (I) (P) LTD.	CHENNAI
2485.	HINE HYDRAULICS (I) (P) LTD.	THIRUVALLUR
2486.	HINUSTAN AERONAUTICS LTD.	ODISHA
2487.	HITACHI (I) (P) LTD.	BANGALORE
2488.	HITACHI AUTOMOTIVE SYSTEMS	HOSUR
2489.	HITACHI CONSULTING	CHENNAI
2490.	HITACHI CONSULTING	HYDERABAD
2491.	HITACHI SOLUTIONS LTD.	PUNE
2492.	HITACHI VANTARA PTE LTD.	SINGAPORE
2493.	HLL LIFECARE LTD.	CHENNAI
2494.	HMC MM AUTO LTD.	DELHI
2495.	HMC MM AUTO LTD.	GURGAON
2496.	HNG FLOAT GLASS LTD.	HALOL
2497.	HNI OFFICE (I) LTD.	NAGPUR
2498.	HOLTEC ASIA (P) LTD.	PUNE
2499.	HOLTEC CONSULTING (P) LTD.	DELHI
2500.	HOME2THEATRE	BANGALORE
2501.	HONDA CARS (I) LTD.	ALWAR
2502.	HONDA CARS (I) LTD.	NOIDA
2503.	HONDA MOTORCYCLE & SCOOTER (I) (P) LTD.	BANGALORE
2504.	HONDA MOTORCYCLE & SCOOTER (I) (P) LTD.	BHIWADI
2505.	HONDA MOTORCYCLE & SCOOTER (I) (P) LTD.	GURGAON
2506.	HONDA MOTORCYCLE & SCOOTERS INDIA	DELHI
2507.	HONDA R&D (I) (P) LTD.	DELHI
2508.	HONEYWELL TECHNOLOGY SOLUTION LABS	BANGALORE
2509.	HONEYWELL	BANGALORE
2510.	HONEYWELL	HADAPSAR
2511.	HONEYWELL	HYDERABAD
2512.	HONEYWELL (I) (P) LTD.	BANGALORE
2513.	HONEYWELL AUTOMATION (I) LTD.	PUNE
2514.	HONEYWELL INTERNATIONAL	BANGALORE
2515.	HONEYWELL TECHNOLOGIES	BANGALORE
2516.	HONEYWELL TECHNOLOGIES	CHENNAI
2517.	HONEYWELL TECHNOLOGIES	MADURAI
2518.	HONEYWELL TECHNOLOGIES	PUNE
2519.	HONEYWELL TECHNOLOGY SOLUTION	BANGALORE
2520.	HONEYWELL TECHNOLOGY SOLUTION LAB	BANGALORE
2521.	HONEYWELL TECHNOLOGY SOLUTIONS	BANGALORE
2522.	HONEYWELL TECHNOLOGY SOLUTIONS	CHENNAI
2523.	HONEYWELL TECHNOLOGY SOLUTIONS LAB	BANGALORE
2524.	HONEYWELL TECHNOLOGY SOLUTIONS LAB (P) LTD.	BANGALORE
2525.	HOOQ	GURGAON
2526.	HORIZON ELECTRO SOLUTION (P) LTD.	PUNE
2527.	HORTONWORKS (I) (P) LTD.	BANGALORE
2528.	HOSPICLEAN	BANGALORE
2529.	HOSPINORM LLC	DUBAI
2530.	HOWARD FINLEY AL KHALEEJ	ABUDHABI
2531.	HP (I) SALES (P) LTD.	GURGAON
2532.	HP COMPUTING & PRINTING SYSTEMS (I) (P) LTD.	BANGALORE
2533.	HP ENTERPRISES	BANGALORE
2534.	HP INC	BANGALORE
2535.	HP INC	HOODI
2536.	HP INC	PUNE
2537.	HP INC.	BANGALORE
2538.	HP INC. R&D	BANGALORE
2539.	HP PPS (I) OPERATIONS (P) LTD.	BANGALORE
2540.	HP R&D(CONTIGENT EMPLOYEE FROM TEK SYSTEMS)	BANGALORE
2541.	HPCL MITTAL ENERGY LTD.	DELHI
2542.	HPCL MITTAL ENERGY LTD. (AARVI ENCON	BATHINDA
2543.	HPCL-MITTAL ENERGY LTD.	DELHI
2544.	HRS PROCESS SYSTEMS LTD.	PUNE
2545.	HRUSTA TECHNOLOGIES (P) LTD.	BANGALORE
2546.	HSBC ELECTRONIC DATA PROCESSING (I) (P) LTD.	CHENNAI
2547.	HSBC SOFTWARE & DEVELOPMENT (I) (P) LTD.	PUNE
2548.	HSBC TECHNOLOGY INDIA	PUNE
2549.	HTC GLOBAL SERVICES (P) LTD.	CHENNAI
2550.	HTRUNK SOFTWARE SOLUTIONS (P) LTD.	BANGALORE

S.No.	ORGANIZATION	LOCATION
2551.	HUAWEI TECHNOLOGIES	BANGALORE
2552.	HUAWEI TECHNOLOGIES (I) (P) LTD.	BANGALORE
2553.	HUBNER INTERFACE SYSTEMS (I) (P) LTD.	BANGALORE
2554.	HUGHES SYSTIQUE	GURGAON
2555.	HUGHES SYSTIQUE (P) LTD.	DELHI
2556.	HUGHES SYSTIQUE CORPORATION GURGAON	DELHI
2557.	HUMANETICS INNOVATIVE SOLUTIONS	BANGALORE
2558.	HUMANETICS INNOVATIVE SOLUTIONS (I) PV	BANGALORE
2559.	HUMANITICS DIMENSION SOFTWARE (P) LTD.	NOIDA
2560.	HUMMINGWAVE TECHNOLOGIES	BANGALORE
2561.	HUNTSMAN INTERNATIONAL (I) (P) LTD.	VADODARA
2562.	HURITS CONSULTING PVT. LTD.	BANGALORE
2563.	HUSCO (P) LTD.	PUNE
2564.	HUSCO HYDRAULICS (P) LTD.	PUNE
2565.	HUSKY INJECTION MOLDING SYSTEMS	CHENNAI
2566.	HUSSAM TECHNOLOGY CO. LLC	KOLKATA
2567.	HUSYS CONSULTING LTD.	BANGALORE
2568.	HUTCHINSON SA (I) LIAISON OFFICE	GURGAON
2569.	HYDAC (I) (P) LTD.	PUNE
2570.	HYFLUX ENGINEERING(INDIA) (P) LTD.	PUNE
2571.	HYFLUX PTE LTD.	SINGAPORE
2572.	HYPERGRID	DELHI
2573.	HYPERWORKS IMAGING (P) LTD.	BANGALORE
2574.	HYSTER-YALE LIFT TRUCKS (I) (P) LTD.	PUNE
2575.	HYUNDAI MOBIS	CHENNAI
2576.	HYUNDAI MOBIS	HYDERABAD
2577.	HYUNDAI MOBIS (I) L IMITE D RESEARCH AND DEVELOP	HYDERABAD
2578.	HYUNDAI MOTOR (I) ENGG (P) LTD.	HYDERABAD
2579.	HYUNDAI MOTOR (I) ENGINEERING (P) LTD.	CHENNAI
2580.	HYUNDAI MOTOR (I) ENGINEERING PRIVATE	CHENNAI
2581.	HYUNDAI MOTOR (I) ENGINNERING PRIVATE	CHENNAI
2582.	HYUNDAI MOTOR (I) LTD.	CHENNAI
2583.	HYUNDAI MOTOR (I) LTD.	DELHI
2584.	HYUNDAI MOTOR ENGINEERING LTD.	CHENNAI
2585.	HYUNDAI MOTOR INDIA	CHENNAI
2586.	HYUNDAI MOTORS (I) LTD.	CHENNAI
2587.	HYUNDAI ROTEM	DELHI
2588.	I DESIGN ENGINEERING SOLUTIONS LTD.	PUNE
2589.	I LABS GLOBAL	BANGALORE
2590.	I SHARE BUSINESS (P) LTD.	JAIPUR
2591.	I&B AUTOMATION & CONTROLS (P) LTD.	NOIDA
2592.	IINAUTIX TECHNOLOGIES (I) (P) LIMI	CHENNAI
2593.	I2I TELESOLUTIONS & TELEMEDICINE (P) LTD.	BANGALORE
2594.	IAF	AMBALA
2595.	IAF	DELHI
2596.	IBAHN ILLUMINATION (P) LTD.	DELHI
2597.	IBASET (I) (P) LTD.	AHMEDABAD
2598.	IBASET (I) SOFTWARE (P) LTD.	MUMBAI
2599.	IBM (CLIENT OF EXPERIS IT)	DELHI
2600.	IBM (I) (P) LTD.	BANGALORE
2601.	IBM (I) (P) LTD.	CHENNAI
2602.	IBM (I) (P) LTD.	DELHI
2603.	IBM (I) (P) LTD.	KOLKATA
2604.	IBM (I) (P) LTD.	PUNE
2605.	IBM SINGAPORE	BANGALORE
2606.	IBM SINGAPORE PTE. LTD.	SINGAPORE
2607.	IBS SOFTWARE (P) LTD.	BANGALORE
2608.	IBS SOFTWARE SERVICES	BANGALORE
2609.	IBS SOFTWARE SERVICES	TRIVANDRUM
2610.	IBS SOFTWARE SERVICES LTD.	BANGALORE
2611.	IBUILDING AUTOMATION (P) LTD.	CHENNAI
2612.	ICAM SOLUTION (P) LTD. BANGALORE	BANGALORE
2613.	ICAT MANESAR INDIA	DELHI
2614.	ICE (ASIA) (P) LTD.	MUMBAI
2615.	ICICI BANK	JAIPUR
2616.	ICICI LOMBARD GENERAL INSURANCE CO. (P) LTD.	BANGALORE
2617.	ICMR NICPR	DELHI
2618.	ICONMA PROFESSIONAL SERVICES AND SOLUTIONS	HYDERABAD
2619.	ICRA MANAGEMENT CONSULTANCY SERVICES LTD.	MUMBAI
2620.	ICUBE CONSULTING SERVICES	BANGALORE
2621.	IDBI BANK	HYDERABAD

S.No.	ORGANIZATION	LOCATION
2622.	IDC ENGINEERING (P) LTD.	BANGALORE
2623.	IDCUBE IDENTIFICATION SYSTEM	BANGALORE
2624.	IDEA CELLULAR LTD.	COCHIN
2625.	IDEA CELLULAR LTD.	ERNAKULAM
2626.	IDEA CELLULAR LTD.	KOCHI
2627.	IDEA CELLULAR LTD.	KOLKATA
2628.	IDEA CELLULAR LTD.	LUCKNOW
2629.	IDEA CELLULAR LTD.	TRIVANDRUM
2630.	IDEA ENTITY TECH SOLUTIONS	HYDERABAD
2631.	IDEAL CURES (P) LTD.	MUMBAI
2632.	IDEAL3D	CHENNAI
2633.	IDEAS - A SAS COMPANY	PUNE
2634.	IDEAS REVENUE SOLUTIONS	PUNE
2635.	IDEAZ INFINITE	MUMBAI
2636.	IDEEYA TECH SERVICES	DELHI
2637.	IDRIVE SOFTWARE (I) (P) LTD.	BANGALORE
2638.	IEC AIR TOOLS (P) LTD.	PUNE
2639.	IFB AUTOMOTIVE (P) LTD.	BANGALORE
2640.	IFB AUTOMOTIVE (P) LTD.	CHENNAI
2641.	IFCI LTD.	DELHI
2642.	IFS SOLUTIONS (I) (P) LTD.	NOIDA
2643.	IGATE GLOBAL SOLUTIONS	BANGALORE
2644.	IGENETIC DIAGNOSTICS (P) LTD.	MUMBAI
2645.	IGNITARIUM TECHNOLOGY SOLUTIONS (P) LTD.	BANGALORE
2646.	IGT SOLUTIONS (P) LTD.	DELHI
2647.	IGUS (I) (P) LTD.	BANGALORE
2648.	IHCL (TAJ GROUP OF HOTELS)	MUMBAI
2649.	IHS MARKIT	DELHI
2650.	IHS MARKIT	GURGAON
2651.	IHSMARKIT (I) (P) LTD.	DELHI
2652.	IIFL WEALTH	BANGALORE
2653.	IINTERCHANGE SYSTEMS	CHENNAI
2654.	IIT BHUBANESWAR	BANGALORE
2655.	IITM	CHENNAI
2656.	IKABIT SOFTWARE SYSTEMS (P) LTD.	BANGALORE
2657.	IKAYA HUMAN CAPITAL RESOURCES	DELHI
2658.	IKK GROUP OF COMPANIES SAUDI ARABIA	SAUDIARABIA
2659.	IL&FS ENGINEERING	DEHRADUN
2660.	IL&FS ENGINEERING	HYDERABAD
2661.	IMAGINATION TECHNOLOGIES	HYDERABAD
2662.	IMARSH TECHNOLOGIES	MUMBAI
2663.	IMAX DIAGNOSTICS	BANGALORE
2664.	IMI CCI	BANGALORE
2665.	IMI PRECISION ENGINEERING	NOIDA
2666.	IMINDSNTHOUGHTS TECHNOLOGY SOLUTIONS AND	BANGALORE
2667.	IMPETUS INFOTECH (I) (P) LTD.	BANGALORE
2668.	IMPETUS INFOTECH (P) LTD.	DELHI
2669.	IMPETUS INFOTECH(INDIA) (P) LTD.	BANGALORE
2670.	IMPIGER TECHNOLOGIES	BANGALORE
2671.	IMPLANTAIRE TECHNOLOGIES (I) (P) LTD.	MYSORE
2672.	IMPRESSICO BUSINESS SOLUTION	DELHI
2673.	IMS GHAZIABAD	GHAZIABAD
2674.	IMS LEARNING RESOURCES (P) LTD.	DELHI
2675.	IMS NOIDA	NOIDA
2676.	INA BEARINGS (I) (P) LTD.	PUNE
2677.	INAPP INFORMATION TECHNOLOGIES (I) P	THIRUVANANTHAPURAM
2678.	INAPP INFORMATION TECHNOLOGY	THIRUVANANTHAPURAM
2679.	INATECH (I) (P) LTD.	CHENNAI
2680.	INATECH INFO SOLUTIONS	CHENNAI
2681.	INAUTIX	BNYMELLON
2682.	INAUTIX	CHENNAI
2683.	INAUTIX	HYDERABAD
2684.	INAUTIX	PUNE
2685.	INCAP CMS (P) LTD.	BANGALORE
2686.	INCEDO	CHENNAI
2687.	INCEDO TECHNOLOGIES SOLUTIONS LTD.	DELHI
2688.	INCESSANT TECHNOLOGIES	HYDERABAD
2689.	INCESSANT TECHNOLOGIES (P) LTD.	HYDERABAD
2690.	INCREX	HYDERABAD
2691.	INDECOMM GLOBAL SERVICES	BANGALORE
2692.	INDEPENDENT PROFESSIONAL COSNULTANT	MUMBAI

S.No.	ORGANIZATION	LOCATION
2693.	INDIA AIR FORCE	BANGALORE
2694.	INDIA ARMY	DELHI
2695.	INDIA IMPEX LOGISTICS (P) LTD.	CHENNAI
2696.	INDIA JAPAN LIGHTING (P) LTD.	CHENNAI
2697.	INDIA JAPAN LIGHTING (P) LTD.	THIRUVALLUR
2698.	INDIA MEDTRONIC (P) LTD.	BANGALORE
2699.	INDIA MEDTRONIC (P) LTD.	CHENNAI
2700.	INDIA METEOROLOGICAL DEPARTMENT	DELHI
2701.	INDIA WORLD TECHNOLOGIES (P) LTD.	GURGAON
2702.	INDIA YAMAHA MOTORS (P) LTD.	CHENNAI
2703.	INDIAN AIR FORCE	AGRA
2704.	INDIAN AIR FORCE	ALLAHABAD
2705.	INDIAN AIR FORCE	ASSAM
2706.	INDIAN AIR FORCE	BANGALORE
2707.	INDIAN AIR FORCE	BARRACKPORE
2708.	INDIAN AIR FORCE	BHOPAL
2709.	INDIAN AIR FORCE	BHUJ
2710.	INDIAN AIR FORCE	CARNICOBAR
2711.	INDIAN AIR FORCE	CHABUA
2712.	INDIAN AIR FORCE	CHANDIGARH
2713.	INDIAN AIR FORCE	CHENNAI
2714.	INDIAN AIR FORCE	COIMBATORE
2715.	INDIAN AIR FORCE	DARBHANGA
2716.	INDIAN AIR FORCE	DELHI
2717.	INDIAN AIR FORCE	FEROZEPUR
2718.	INDIAN AIR FORCE	GUWAHATI
2719.	INDIAN AIR FORCE	HINDAN
2720.	INDIAN AIR FORCE	HYDERABAD
2721.	INDIAN AIR FORCE	JAMNAGAR
2722.	INDIAN AIR FORCE	JODHPUR
2723.	INDIAN AIR FORCE	LEH
2724.	INDIAN AIR FORCE	MOUNTABU
2725.	INDIAN AIR FORCE	NAINITAL
2726.	INDIAN AIR FORCE	NASHIK
2727.	INDIAN AIR FORCE	PATHANKOT
2728.	INDIAN AIR FORCE	PUNE
2729.	INDIAN AIR FORCE	SURATGARH
2730.	INDIAN AIR FORCE	THIRUVANANTHAPURAM
2731.	INDIAN AIR FORCE	DELHI
2732.	INDIAN ARMY	ARUNANCHALPRADESH
2733.	INDIAN ARMY	BANGALORE
2734.	INDIAN ARMY	BAREILLY
2735.	INDIAN ARMY	BHOPAL
2736.	INDIAN ARMY	CHANDIGARH
2737.	INDIAN ARMY	CHENNAI
2738.	INDIAN ARMY	DELHI
2739.	INDIAN ARMY	DINJAN
2740.	INDIAN ARMY	GOA
2741.	INDIAN ARMY	HYDERABAD
2742.	INDIAN ARMY	JAISALMER
2743.	INDIAN ARMY	JODHPUR
2744.	INDIAN ARMY	KASAULI
2745.	INDIAN ARMY	KOLKATA
2746.	INDIAN ARMY	MANESAR
2747.	INDIAN ARMY	MANIPUR
2748.	INDIAN ARMY	MEERUT
2749.	INDIAN ARMY	NAINITAL
2750.	INDIAN ARMY	PUNE
2751.	INDIAN ARMY	SECUNDERABAD
2752.	INDIAN ARMY	SHILLONG
2753.	INDIAN ARMY	SHIMLA
2754.	INDIAN ARMY	SRIGANGANAGAR
2755.	INDIAN ARMY	SRINAGAR
2756.	INDIAN ARMY	UDHAMPUR
2757.	INDIAN COAST GUARD	PORBANDAR
2758.	INDIAN COUNCIL OF MEDICAL RESEARCH	DELHI
2759.	INDIAN DENTAL SPECIALITIES	HYDERABAD
2760.	INDIAN HOTELS CO. LTD.	MUMBAI
2761.	INDIAN INSTITUTE OF ASTROPHYSICS	BANGALORE
2762.	INDIAN INSTITUTE OF MANAGEMENT BANGLORE	BANGALORE
2763.	INDIAN INSTITUTE OF MANAGEMENT LUCKNOW	NOIDA

S.No.	ORGANIZATION	LOCATION
2764.	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RE	PUNE
2765.	INDIAN INSTITUTE OF TECHNOLOGY ROORKEE	HYDERABAD
2766.	INDIAN INSTITUTE OF TECHNOLOGY ROPAR	RUPNAGAR
2767.	INDIAN INTITUTE OF TECHNOLOGY BHUBANESWA	BHUBANESWAR
2768.	INDIAN NAVY	BANGALORE
2769.	INDIAN NAVY	DELHI
2770.	INDIAN NAVY	GOA
2771.	INDIAN NAVY	HYDERABAD
2772.	INDIAN NAVY	KOCHI
2773.	INDIAN NAVY	MUMBAI
2774.	INDIAN NAVY	PUNE
2775.	INDIAN NAVY	VISAKHAPATNAM
2776.	INDIAN OIL CORPORATION LTD.	KOLKATA
2777.	INDIAN RAILWAY	KOLKATA
2778.	INDIAN RAILWAYS	DELHI
2779.	INDIAN RAILWAYS	JAIPUR
2780.	INDIAN SOCIETY FOR EDUCATION AND ENVIRONMENT	CHENNAI
2781.	INDIAN SPACE RESEARCH ORGANISATION	BANGALORE
2782.	INDIAN SPACE RESEARCH ORGANISATION (ISRO	BANGALORE
2783.	INDIAN SPACE RESEARCH ORGANISATION (ISRO	MAHENDRAGIRI
2784.	INDIAN SPACE RESEARCH ORGANISATION (ISRO	SRIHARIKOTA
2785.	INDIAN SPACE RESEARCH ORGANIZATION	PUNE
2786.	INDIAN SPINAL INJURIES CENTRE	DELHI
2787.	INDIAN SUCROSE LTD.	DELHI
2788.	INDIAN TECHNOCRAT LTD.	DELHI
2789.	INDIANA CONVEYORS (P) LTD.	KOLKATA
2790.	INDICATION INSTRUMENTS LTD.	DELHI
2791.	INDIRA GANDHI INSTITUTE OF DENTAL SCIENC	PUDUCHERRY
2792.	INDO CHAINS (RAIPUR) (P) LTD.	KOLKATA
2793.	INDO DANISH TOOL ROOM	PUNE
2794.	INDO GERMAN CHAMBER OF COMMERCE	DELHI
2795.	INDO TIBBETAN BORDER POLICE FORCE	KANPUR
2796.	INDOFIL INDUSTRIES LTD.	MUMBAI
2797.	INDORE COMPOSITE (P) LTD.	AMBERNATH
2798.	INDRAPURI HOSPITAL	MUMBAI
2799.	INDUMATI HR FACILITIES (P) LTD.	GURGAON
2800.	INDUS IND BANK	AHMEDABAD
2801.	INDUS INTERNATIONAL FZC	SHARJAH
2802.	INDUS TEQSITE	CHENNAI
2803.	INDUS TOWERS LTD.	GURGAON
2804.	INDUS VALLEY PARTNERS	NOIDA
2805.	INDUSIND BANK	CHENNAI
2806.	INDUSTRIAL BANK OF KUWAIT	DUBAI
2807.	INDUSTRIAL ELECTRIC SPARE CENTRE	CHENNAI
2808.	INEDA SYSTEMS	BANGALORE
2809.	INEDA SYSTEMS (P) LTD.	HYDERABAD
2810.	I-NET SOFTWARE SOLUTIONS	HYDERABAD
2811.	INFANT ENGINEERS (P) LTD.	CHENNAI
2812.	INFILL LIFE SCIENCES	AURANGABAD
2813.	INFINEON TECHNOLOGIES	BANGALORE
2814.	INFINEON TECHNOLOGIES (I) (P) LTD.	BANGALORE
2815.	INFINEON TECHNOLOGIES (I) (P) LTD.	DELHI
2816.	INFINERA	BANGALORE
2817.	INFINERA (I) (P) LTD.	BANGALORE
2818.	INFINERA IND (P) LTD.	BANGALORE
2819.	INFINIDAT	MUMBAI
2820.	INFINITE COMPUTER SOLUTIONS	BANGALORE
2821.	INFINITY AUTOMATED SOLUTIONS (P) LTD.	PUNE
2822.	INFO BASE SYSTEMS (P) LTD.	HYDERABAD
2823.	INFO EDGE (I) LTD.	DELHI
2824.	INFO EDGE (I) LTD.	NOIDA
2825.	INFOCORP SOFTWARE SOLUTIONS	DELHI
2826.	INFOEDGE	DELHI
2827.	INFONAS WLL	BAHRAIN
2828.	INFOOBJECTS	JAIPUR
2829.	INFOPRO LEARNING	NOIDA
2830.	INFOR (I) (P) LTD.	HYDERABAD
2831.	INFOR GLOBAL SOLUTION (P) LTD.	BANGALORE
2832.	INFOR GLOBAL SOLUTION (P) LTD.	HYDERABAD
2833.	INFOR GLOBAL SOLUTION (P) LTD.	PUNE
2834.	INFOR GLOBAL SOLUTIONS	HYDERABAD

S.No.	ORGANIZATION	LOCATION
2835.	INFORMATICA	BANGALORE
2836.	INFORMATICA BUSINESS (P) LTD.	BANGALORE
2837.	INFORMATICA BUSINESS SOLUTION	BANGALORE
2838.	INFORMATICA BUSINESS SOLUTIONS	BANGALORE
2839.	INFORMATICA BUSINESS SOLUTIONS (P) LTD.	BANGALORE
2840.	INFORMATION EVOLUTION (I) (P) LTD.	COIMBATORE
2841.	INFOSREE TECHNOLOGIES (P) LTD.	BANGALORE
2842.	INFOSTRETCH CORPORATION	AHMEDABAD
2843.	INFOSTRETCH CORPORATION (I) (P) LTD.	MUMBAI
2844.	INFOSTRETCH CORPORATION (P) LTD.	MUMBAI
2845.	INFOSTRETCH CORPORATION (P) LTD.	PUNE
2846.	INFOSYS	BANGALORE
2847.	INFOSYS	DELHI
2848.	INFOSYS	HYDERABAD
2849.	INFOSYS BPM LTD.	BANGALORE
2850.	INFOSYS LIMITED	DELHI
2851.	INFOSYS LTD.	BANGALORE
2852.	INFOSYS LTD.	BHUBANESWAR
2853.	INFOSYS LTD.	CHANDIGARH
2854.	INFOSYS LTD.	CHENGALPET
2855.	INFOSYS LTD.	CHENNAI
2856.	INFOSYS LTD.	COIMBATORE
2857.	INFOSYS LTD.	DELHI
2858.	INFOSYS LTD.	GURGAON
2859.	INFOSYS LTD.	JAIPUR
2860.	INFOSYS LTD.	MANGALURU
2861.	INFOSYS LTD.	MUMBAI
2862.	INFOSYS LTD.	MYSORE
2863.	INFOSYS LTD.	NOIDA
2864.	INFOSYS LTD.	PUNE
2865.	INFOSYS LTD.	THIRUVANANTHAPURAM
2866.	INFOSYS LTD.	TRIVANDRUM
2867.	INFOSYS LTD.	BANGALORE
2868.	INFOVENTURES SYSTEMS & SERVICES	QATAR
2869.	INFRAISOFT TECHNOLOGIES	KOLKATA
2870.	INFRATECH FZ LLC	DUBAI
2871.	ING BANK PERSONEEL BV	HYDERABAD
2872.	INGEROLL RAND TECHNOLOGIES AND SERVICES	BANGALORE
2873.	INGEROLL RAND TECHNOLOGIES AND SERVICES	CHENNAI
2874.	INGERSOLL RAND	BANGALORE
2875.	INGERSOLL RAND	CHENNAI
2876.	INGERSOLL RAND TECHNOLOGIES (P) LTD.	BANGALORE
2877.	INGERSOLL RAND TECHNOLOGIES AND SERVICE (P) LTD.	CHENNAI
2878.	INGERSOLL RAND TECHNOLOGIES AND SERVICES	BANGALORE
2879.	INGERSOLL RAND TECHNOLOGIES AND SERVICES	CHENNAI
2880.	INGRAM MICRO	CHENNAI
2881.	INGRAM MICRO (I) (P) LTD.	CHENNAI
2882.	INGRAM MICRO SSC	CHENNAI
2883.	INJAZAT DATA SYSTEMS	ABUDHABI
2884.	INMANTEC INSTITUTIONS	GHAZIABAD
2885.	INNODATA (I) (P) LTD.	DELHI
2886.	INNODATA (I) (P) LTD.	NOIDA
2887.	INNODATATICS	HYDERABAD
2888.	INNOHABIT TECHNOLOGIES (P) LTD.	BANGALORE
2889.	INNOKON LABS	CHENNAI
2890.	INNOLOGIX CONSULTING (P) LTD.	DELHI
2891.	INNOMINDS	HYDERABAD
2892.	INNOMINDS SOFTWARE SEZ (I) (P) LTD.	HYDERABAD
2893.	INNOV8 INTERIORS LLC	DUBAI
2894.	INNOVA RUBBERS (P) LTD.	NASHIK
2895.	INNOVA SOLUTIONS	CHENNAI
2896.	INNOVATION COMMUNICATIONS SYSTEMS LTD.	HYDERABAD
2897.	INNOVATIONS GROUP	SHARJAH
2898.	INNOVATIVE CENTRE FOR AUTOMATION PEOPLE	HYDERABAD
2899.	INNOVENT ENGINEERING SOLUTIONS (P) LTD.	DELHI
2900.	INNOVENT SPACES PVT.LTD.	BANGALORE
2901.	INSOFE EDUCATION (P) LTD.	HYDERABAD
2902.	INSPOP.COM LTD. (INDIA BRANCH OFFICE)	GURGAON
2903.	INSTAVERITAS	DELHI
2904.	INSTITUTE OF LIVER AND BILIARY SCIENCES	DELHI
2905.	INSTITUTE OF TECHNOLOGY & SCIENCE (ITS)	GHAZIABAD

S.No.	ORGANIZATION	LOCATION
2906.	INTEGRAL (I) SOFTWARE DEVELOPMENT CENTER (P) LTD.	BANGALORE
2907.	INTEGRATED GAS CONTROLS TECHNOLOGIES PVT	HYDERABAD
2908.	INTEGRATED SOFTWARE SYSTEMS	FARIDABAD
2909.	INTEGRATED SOFTWARE SYSTEMS	NOIDA
2910.	INTEL	BANGALORE
2911.	INTEL (I) (P) LTD.	BANGALORE
2912.	INTEL (I) (P) LTD.	MARATHALLI
2913.	INTEL (I) (P) LTD.	RAMBUS
2914.	INTEL (I) (P) LTD..	BANGALORE
2915.	INTEL (I) TECHNOLOGY (P) LMT	BANGALORE
2916.	INTEL CORPORATION	BANGALORE
2917.	INTEL INDIA	BANGALORE
2918.	INTEL MICRO ELECTRONICS	HYDERABAD
2919.	INTEL MOBILE COMMUNICATION (I) (P) LTD.	BANGALORE
2920.	INTEL TECHNOLOGIES	BANGALORE
2921.	INTEL TECHNOLOGIES (P) LTD.	BANGALORE
2922.	INTEL TECHNOLOGIES LTD.	BANGALORE
2923.	INTEL TECHNOLOGY (I) (P) LTD.	BANGALORE
2924.	INTEL TECHNOLOGY (I) (P) LTD.	BANGALORE
2925.	INTEL TECHNOLOGY (P) LTD.	BANGALORE
2926.	INTEL TECHNOLOGY INDIA	DELHI
2927.	INTELENET GLOBAL SERVICES	HYDERABAD
2928.	INTELLECT DESIGN	CHENNAI
2929.	INTELLECT DESIGN	PISCATAWAY
2930.	INTELLECT DESIGN ARENA	HYDERABAD
2931.	INTELLECT DESIGN ARENA LTD.	CHENNAI
2932.	INTELLECT DESIGN ARENA LTD.	MUMBAI
2933.	INTELLIFOUR SOFTWARE (P) LTD.	PUNE
2934.	INTENSE TECHNOLOGIES LTD.	HYDERABAD
2935.	INTER UNIVERSITY CENTRE FOR ASTRONOMY AND ASTROPHY	PUNE
2936.	INTERLACE (I) (P) LTD.	CHENNAI
2937.	INTERMACRO ASSOCIATES	BANGALORE
2938.	INTERMASS ENGINEERING & CONTRACTING	DUBAI
2939.	INTERMASS ENGINEERING & CONTRACTING COMPANY	DUBAI
2940.	INTERMEC TECHNOLOGIES (S) PTE LTD.	HYDERABAD
2941.	INTERNATIONAL AEROSPACE MANUFACTURING (P) LTD.	BANGALORE
2942.	INTERNATIONAL AEROSPACE MANUFACTURING (P) LTD.	BANGALORE
2943.	INTERNATIONAL AIRCON (P) LTD.	DELHI
2944.	INTERNATIONAL CENTRE FOR AUTOMOTIVE TECH	GURGAON
2945.	INTERNATIONAL CENTRE FOR AUTOMOTIVE TECH	MANESAR
2946.	INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY	DELHI
2947.	INTERNATIONAL COMBUSTION (I) LTD.	KOLKATA
2948.	INTERNATIONAL DENTAL HOSPITAL	VELLORE
2949.	INTERNATIONAL SCHOOL OF BUSINESS & MEDIA KOLKATA	KOLKATA
2950.	INTERNATIONAL SCHOOL OF ENGINEERING (P) LTD.	HYDERABAD
2951.	INTERNATIONAL TRACTOR LTD.	DELHI
2952.	INTERNATIONAL TRACTORS LTD.	DELHI
2953.	INTERPUMP HYDRAULICS (I) (P) LTD.	HOSUR
2954.	INTERTEK	DUBAI
2955.	INTEVA PRODUCTS	BANGALORE
2956.	INTEVA PRODUCTS (I) AUTOMOTIVE (P) LTD.	PUNE
2957.	INTLTEC - SKYBAND	DUBAI
2958.	INTRAEDGE TECHNOLOGIES (P) LTD.	PUNE
2959.	INTUIT INC	BANGALORE
2960.	INTUIT INC.	BANGALORE
2961.	INTUIT INDIA	BANGALORE
2962.	INTUIT PRODUCT DEVELOPMENT CENTER (P) LT	BANGALORE
2963.	INVECAS	HYDERABAD
2964.	INVENSOFT TECHNOLOGIES (P) LTD.	MYSORE
2965.	INVENT WELD AUTOMATION	CHENNAI
2966.	INVESCO	HYDERABAD
2967.	INVESTCORP BSC	HYDERABAD
2968.	INVISTA SINGAPORE FIBRES PTE LTD.	SINGAPORE
2969.	ION TRADING (I) (P) LTD.	DELHI
2970.	ION TRADING (I) (P) LTD.	NOIDA
2971.	IONTRADING (HTTPS://IONGROUP.COM/)	DELHI
2972.	IP CORE SOLUTIONS (P) LTD.	BANGALORE
2973.	IP INFUSION SOFTWARE (I) (P) LIMIT	BANGALORE
2974.	IP RINGS LTD.	CHENNAI
2975.	IPE GLOBAL LTD.	DELHI
2976.	IPRC MAHENDRAGIRI TAMILNADU	MAHENDRAGIRI

S.No.	ORGANIZATION	LOCATION
2977.	I PROSONIC SYSTEMS (P) LTD.	GURGAON
2978.	IPSOFT GLOBAL SERVICES	BANGALORE
2979.	IQUANTELA TECHNOLOGIES (P) LTD.	HYDERABAD
2980.	IQVIA	BANGALORE
2981.	IQVIA (QUINTILESIMS)	BANGALORE
2982.	IQVIA RDS (I) (P) LTD.	BANGALORE
2983.	IRIS SOFTWARE INC.	DELHI
2984.	IRIS SOFTWARE TECHNOLOGIES (P) LTD.	DELHI
2985.	ISAM KHAIRY KABBANI PLASTIC AND INSULATION FACTORY	DAMMAM
2986.	ISDC GLOBAL (P) LTD.	BANGALORE
2987.	ISGEC HEAVY ENGINEERING LTD.	NOIDA
2988.	ISGEC HEAVY ENGINEERING LTD.	YAMUNANAGAR
2989.	ISHAN NETSOL (P) LTD.	RAJKOT
2990.	ISHWAR METALS	WANI
2991.	ISORIS TECHNOLOGY SOLUTIONS (P) LTD.	BANGALORE
2992.	ISOS CONSULTANCY SERVICES (P) LTD.	BANGALORE
2993.	ISPARTA MENSUCAT SAN VE TIC	SALEM
2994.	ISPAT GROUP	PUNE
2995.	ISRO	BANGALORE
2996.	ISRO	HYDERABAD
2997.	ISRO PROPULSION COMPLEX	MAHENDRAGIRI
2998.	ISRO SATELLITE CENTRE BENGALURU	BANGALORE
2999.	ISUZU MOTORS (I) (P) LTD.	CHENNAI
3000.	ISUZU MOTORS (I) (P) LTD.	KANCHIPURAM
3001.	IT CONVERGENCE PROFESSIONAL SERVICES (P) LTD.	HYDERABAD
3002.	ITC	BANGALORE
3003.	ITC INFOTECH	BANGALORE
3004.	ITC INFOTECH (I) (P) LTD.	BANGALORE
3005.	ITC INFOTECH (I) LTD.	BANGALORE
3006.	ITC INFOTECH (I) LTD.	PUNE
3007.	ITC INFOTECH LTD.	BANGALORE
3008.	ITC LTD.	BANGALORE
3009.	ITC LTD.	COIMBATORE
3010.	ITC LTD.	DELHI
3011.	ITC LTD.	HARIDWAR
3012.	ITC LTD.	HYDERABAD
3013.	ITC LTD.	KOLKATA
3014.	ITC LTD.	PUNE
3015.	ITC PSPD	BHADRACHALAM
3016.	ITC PSPD	CHENNAI
3017.	ITC PSPD LTD.	HYDERABAD
3018.	ITER-INDIA INSTITUTE FOR PLASMA RESEARC	AHMEDABAD
3019.	ITI LTD.	BANGALORE
3020.	ITPEOPLEGULF	DUBAI
3021.	ITRA	DELHI
3022.	ITRUST CENTRE FOR RESEARCH IN CYBER SECURITY SING	PUKHRAYAN
3023.	ITT FLUID TECHNOLOGY INTERNATIONAL (THAILAND) CO.	PUNE
3024.	ITT INC.	VADODARA
3025.	ITTIAM SYSTEMS (P) LTD.	BANGALORE
3026.	ITW (I) (P) LTD.	CHENNAI
3027.	ITW (I) (P) LTD.	PUNE
3028.	ITW INDIA	HYDERABAD
3029.	IVY SOFTWARE	HYDERABAD
3030.	IVY SOFTWARE DEVELOPMENT SERVICES (P) LTD.	HYDERABAD
3031.	IZAPY PTE. LTD. SINGAPORE	CHENNAI
3032.	J D INDUSTRIES	MUMBAI
3033.	J K CEMENT MANGROL WORKS	MANGROL
3034.	J K LAKSHMI CEMENT LTD.	JAYKAYPURAM
3035.	J P MORGAN	BANGALORE
3036.	J P MORGAN CHASE & CO	HYDERABAD
3037.	J. P MORGAN CHASE	MUMBAI
3038.	J.KUMAR INFRA PROJECTS LTD.	MUMBAI
3039.	J.KUMAR INFRAPROJECTS LTD.	MUMBAI
3040.	J.P.MORGAN SERVICES (I) (P) LTD.	BANGALORE
3041.	JABIL CIRCUIT (I) (P) LTD.	CHENNAI
3042.	JABIL CIRCUIT (I) (P) LTD.	RANJANGAON
3043.	JABIL CIRCUIT (I) P LTD.	PUNE
3044.	JABS INTERNATIONAL (P) LTD.	UDHAMSINGHNAGAR
3045.	JACOBS ENGINEERING	MUMBAI
3046.	JACOBS ENGINEERING (I) (P) LTD.	DELHI
3047.	JACOBS ENGINEERING (I) LTS	MUMBAI

S.No.	ORGANIZATION	LOCATION
3048.	JACOBS ENGINEERINGINDIA (P) LTD.	DELHI
3049.	JADE GLOBAL SOFTWARE (P) LTD.	DELHI
3050.	JADE GLOBAL SOFTWARE (P) LTD.	PUNE
3051.	JAI BHARAT MARUTI	DELHI
3052.	JAMNA AUTO INDUSTRIES LTD.	JAMSHEDPUR
3053.	JANSSSEN (JOHNSON AND JOHNSON)	MUMBAI
3054.	JASMIN INFOTECH	CHENNAI
3055.	JASMIN INFOTECH (P) LTD.	CHENNAI
3056.	JAY JAY MILLS (I) (P) LTD.	COIMBATORE
3057.	JAY JAY MILLS(INDIA) (P) LTD.	COIMBATORE
3058.	JAYASWAL NECO INDUSTRIES LTD. SILTARA	RAIPUR
3059.	JAYPEE CEMENT CORPORATION LTD.	GUNTUR
3060.	JAZEERA AL MARJAN ELECTRO MECHANICAL WOR	DUBAI
3061.	JBJ TECHNOLOGY LTD.	NOIDA
3062.	JBM (NEEL METAL PRODUCTS)	GURGAON
3063.	JBM AUTO LTD.	CHENNAI
3064.	JBM AUTO LTD.	PUNE
3065.	JBM AUTO LTD.	RUDRAPUR
3066.	JBM INDUSTRIES LTD.	DELHI
3067.	JBT AERO TECH	MUSCAT
3068.	JCB (I) LTD.	DELHI
3069.	JCB (I) LTD.	JAIPUR
3070.	JCB (I) LTD.	JCB(I)LTD
3071.	JCB (I) LTD.	KOLKATA
3072.	JCB (I) LTD.	MOHALI
3073.	JCB (I) LTD.	PUNE
3074.	JDA	HYDERABAD
3075.	JDA SOFTWARE	BANGALORE
3076.	JDA SOFTWARE (I) (P) LTD.	BANGALORE
3077.	JET AVIATION DUBAI LLC	DUBAI
3078.	JIGYASA ANALYTICS	NEWJERSEY
3079.	JINDAL SAW LTD.	KUTCH
3080.	JINDAL STAINLESS LTD.	DAMMAM
3081.	JINDAL STAINLESS LTD.	HISAR
3082.	JINDAL STAINLESS LTD.	KOLKATA
3083.	JK FENNER IND LTD.	HYDERABAD
3084.	JK RISK MANAGERS & INSURANCE BROKERS LTD.	NOIDA
3085.	JK TECHNOSOFT LTD.	BANGALORE
3086.	JK TECHNOSOFT LTD.	NOIDA
3087.	JK TYRE & INDUSTRIES LTD.	BANGALORE
3088.	JK TYRE & INDUSTRIES LTD.	CHENNAI
3089.	JK TYRE & INDUSTRIES LTD.	MYSORE
3090.	JK TYRES & INDUSTRIES LTD.	BANGALORE
3091.	JMC PROJECTS (I) LTD.	MUMBAI
3092.	JOGESWAR BEVERAGES	ANAKAPALLE
3093.	JOHN CRANE SEALING SYSTEMS (P) LTD. (SMIT	BANGALORE
3094.	JOHN DEERE	HADAPSAR
3095.	JOHN DEERE	JABALPUR
3096.	JOHN DEERE	MAGARPATTA
3097.	JOHN DEERE	RAIPUR
3098.	JOHN DEERE (I) (P) LTD.	PUNE
3099.	JOHNSON & JOHNSON (I) LTD.	AURANGABAD
3100.	JOHNSON & JOHNSON (I) LTD.	MUMBAI
3101.	JOHNSON CONTROLS	AHMEDABAD
3102.	JOHNSON CONTROLS	BANGALORE
3103.	JOHNSON CONTROLS	DUBAI
3104.	JOHNSON CONTROLS	PUNE
3105.	JOHNSON CONTROLS (I) (P) LTD.	PUNE
3106.	JOHNSON CONTROLS MUMBAI	MUMBAI
3107.	JOHNSON ELECTRIC	HYDERABAD
3108.	JOHNSON MATTHEY CHEMICALS (I) (P) LTD.	MUMBAI
3109.	JONES LANG LASALLE	BANGALORE
3110.	JONSON RUBBER INDUSTRIES LTD.	SONIPAT
3111.	JOSEPH DIGITAL SOLUTIONS	DUBAI
3112.	JP MOREGAN CHASE	BANGALORE
3113.	JP MORGAN	BANGALORE
3114.	JP MORGAN & CHASE	HYDERABAD
3115.	JP MORGAN (I) (P) LTD.	BANGALORE
3116.	JP MORGAN CHASE	BANGALORE
3117.	JP MORGAN CHASE & CO	BANGALORE
3118.	JP MORGAN CHASE & CO	MUMBAI

S.No.	ORGANIZATION	LOCATION
3119.	JP MORGAN CHASE LTD.	MUMBAI
3120.	JP MORGAN SERVICES (I) (P) LTD.	BANGALORE
3121.	JP MORGAN SERVICES (I) (P) LTD.	HYDERABAD
3122.	JP MORGAN SERVICES (I) (P) LTD.	MUMBAI
3123.	JP MORGAN SERVICES (P) LTD.	BANGALORE
3124.	JPMC	BANGALORE
3125.	JRAY MCDERMOTT ENGINEERING SERVICES (P) LTD.	CHENNAI
3126.	JSD ELECTRONICS (I) (P) LTD.	DELHI
3127.	JSW ENERGY	BARMER
3128.	JSW ENERGY	BELLARY
3129.	JSW ENERGY	RATNAGIRI
3130.	JSW ENERGY	SHOLTU
3131.	JSW ENERGY	VIJAYANAGAR
3132.	JSW JAIGARH PORT LTD.	GOA
3133.	JSW STEEL	BALLARI
3134.	JSW STEEL	BELLARY
3135.	JSW STEEL	NAGPUR
3136.	JSW STEEL	TORANAGALLU
3137.	JSW STEEL LTD.	BANGALORE
3138.	JSW STEEL LTD.	HYDERABAD
3139.	JTEKT (I) LTD.	DELHI
3140.	JUBILANT BIOSYS LTD.	BANGALORE
3141.	JUBILANT GENERICS LTD.	MYSORE
3142.	JUDGE (I) SOLUTIONS (P) LTD.	DELHI
3143.	JUNIPER NETWORK	BANGALORE
3144.	JUNIPER NETWORKS	BANGALORE
3145.	JUNIPER NETWORKS INC	BANGALORE
3146.	JURONG SHIPYARD PTE LTD.	SINGAPORE
3147.	JUSPAY	BANGALORE
3148.	JUST DIAL LTD.	BANGALORE
3149.	JUST DIAL LTD.	MUMBAI
3150.	K&S PARTNERS	HYDERABAD
3151.	K.I.T RAIGARH(C.G)	RAIGARH
3152.	KAAR TECHNOLOGIES	CHENNAI
3153.	KAHRAMAA QATAR ELECTRICITY & WATER COPERATION	DOHA
3154.	KAKATIYA EYE HOSPITAL	TELANGANA
3155.	KALA HOSPITALS	BANGALORE
3156.	KALSON ENGINEERING SOLUTIONS	PUNE
3157.	KALSON ENGINEERING SOLUTIONS	SHIRWAL
3158.	KALYANI MAXION WHEELS (P) LTD.	PUNE
3159.	KALYANI STEELS LTD.	PUNE
3160.	KANNU IMPEX (I) (P) LTD.	DELHI
3161.	KANSAL INDUSTRIES	DELHI
3162.	KANTAR	HYDERABAD
3163.	KANTAR ANALYTICS (I) (P) LTD.	BANGALORE
3164.	KAPIL HOSPITAL	DELHI
3165.	KAPPIAN	COCHIN
3166.	KAR MOBILES LTD.	TUMKUR
3167.	KARCHER CLEANING SYSTEMS (P) LTD.	KOLKATA
3168.	KARUNA HOSPITAL	MUMBAI
3169.	KARVY	HYDERABAD
3170.	KARVY INNOTECH LTD.	HYDERABAD
3171.	KATALYST SOFTWARE SERVICES LTD.	PUNE
3172.	KATOMARAN	COIMBATORE
3173.	KATOMARAN TECHNOLOGY AND BUSINESS SOLUTIONS	COIMBATORE
3174.	KAUVERY HOSPITAL	CHENNAI
3175.	KAVYA CHEMICALS	MUMBAI
3176.	KBR ABU DHABI	CHENNAI
3177.	KDDL LTD.	DELHI
3178.	KEC INTERNATIONAL LTD.	HYDERABAD
3179.	KEC INTERNATIONAL LTD.	KOLKATA
3180.	KEC INTERNATIONAL LTD.	MUMBAI
3181.	KEEPWORKS TECHNOLOGIES (P) LTD.	BANGALORE
3182.	KEI INDUSTRIES	DELHI
3183.	KEI LTD.	DELHI
3184.	KEIHIN (I) MANUFACTURING (P) LTD.	DELHI
3185.	KELLTON TECH	DELHI
3186.	KELLY SERVICES	BANGALORE
3187.	KELLY SERVICES (I) (P) LTD.	DELHI
3188.	KELLY SERVICES (P) LTD.	GURGAON
3189.	KELLY SERVICES PTE LTD.	PUNE

S.No.	ORGANIZATION	LOCATION
3190.	KEMIN INDUSTRIES SOUTH ASIA (P) LTD.	KOLKATA
3191.	KEMWELL BIOPHARMA (P) LTD.	BANGALORE
3192.	KEMWELL BIOPHARMA PVT.LTD	BANGALORE
3193.	KENNAMETAL (I) LTD.	BANGALORE
3194.	KENNAMETAL SHARED SERVICES (P) LTD.	BANGALORE
3195.	KENT RO SYSTEM PVT.LTD.	NOIDA
3196.	KEOLIS HYDERABAD MASS RAPIDTRANSIT SYSTEMS (P) LTD.	HYDERABAD
3197.	KEPELFELS LTD.	CHENNAI
3198.	KERALA AGRO MACHINERY CORPORATION LTD.	COCHIN
3199.	KERALA INSTITUTE OF MEDICAL SCIENCES	TRIVANDRUM
3200.	KERALA ROAD FUND BOARD	TRIVANDRUM
3201.	KERALA STATE IT MISSION	THIRUVANANTHAPURAM
3202.	KERALA WATER AUTHORITY	TRIVANDRUM
3203.	KESHAVAM SOFTWARE SOLUTIONS LLP	PUNE
3204.	KEYSIGHT TECHNOLOGIES	BANGALORE
3205.	KEYSIGHT TECHNOLOGIES	CHENNAI
3206.	KEYSIGHT TECHNOLOGIES	DELHI
3207.	KEYSIGHT TECHNOLOGIES	PUNE
3208.	KEYSIGHT TECHNOLOGIES (I) (P) LTD.	BANGALORE
3209.	KEYSIGHT TECHNOLOGIES (I) (P) LTD.	KOLKATA
3210.	KEYSIGHT TECHNOLOGIES (P) LTD.	DELHI
3211.	KEYSIGHT TECHNOLOGIES INTERNATIONAL (I) (P) LTD.	GURGAON
3212.	KEYSTONE FOUNDATION	COIMBATORE
3213.	KH EXPORTS (I) (P) LTD.	CHENNAI
3214.	KHD HUMBOLDT WEDAG (I) (P) LTD.	DELHI
3215.	KIA MOTORS INDIA	BANGALORE
3216.	KIKUBARI	BANGALORE
3217.	KIMS HOSPITAL	MUMBAI
3218.	KIMS-SAVEERA HOSPITALS	ANANTAPUR
3219.	KINAPSE (A SYNEOS HEALTH COMPANY	DELHI
3220.	KINAPSE LTD.	GURGAON
3221.	KINDER WOMEN'S HOSPITAL AND FERTILITY CENTRE	CHERTHALA
3222.	KIRLOSKAR BROTHERS LTD.	PUNE
3223.	KIRLOSKAR CHILLER (P) LTD.	PUNE
3224.	KIRLOSKAR EBARA PUMPS LTD.	PUNE
3225.	KIRLOSKAR OIL ENGINES LTD.	PUNE
3226.	KIRLOSKAR PNEUMATIC CO LTD.	PUNE
3227.	KK WIND SOLUTIONS (I) (P) LTD.	BANGALORE
3228.	KL UNIVERSITY	VIJAYWADA-GUNTUR
3229.	KL UNIVERSITY HYDERABAD	HYDERABAD
3230.	KLA SOFTWARE (I) (P) LTD.	CHENNAI
3231.	KLA-TENCOR INDIA	CHENNAI
3232.	KLAUS IT SOLUTIONS (P) LTD.	CHENNAI
3233.	KLAZINA SOFTECH LTD.	GAUTAMBUDDHANAGAR
3234.	KLINGELNBERG (I) (P) LTD.	PUNE
3235.	KLOVERTEL (P) LTD.	DELHI
3236.	KMF AUTOMOTIVE (P) LTD.	CHENNAI
3237.	KNAB FINANCE	BANGALORE
3238.	KNAUF EXEED INSULATION LLC	ABUDHABI
3239.	KNM MANAGEMENT ADVISORY SERVICES (P) LTD.	GURGAON
3240.	KNORR BREMSE (I) (P) LTD.	DELHI
3241.	KNORR-BREMSE TECHNOLOGY CENTRE INDIA	PUNE
3242.	KNOWLEDGEHUT SOLUTIONS (P) LTD.	BANGALORE
3243.	KODIAK MOTOROLA SOLUTIONS	BANGALORE
3244.	KODIAK NETWORKS	BANGALORE
3245.	KODIAK NETWORKS	HYDERABAD
3246.	KOHLER (I) CORP. (P) LTD.	BHARUCH
3247.	KOHLEX (I) DESIGN CENTER (P) LTD.	HYDERABAD
3248.	KOKILABEN DHIRUBHAI AMBANI HOSPITAL	MUMBAI
3249.	KOMATSU (I) (P) LTD.	CHENNAI
3250.	KONARAK INDUSTRIA (P) LTD.	BANGALORE
3251.	KONE ASSARAIN LLC	OMAN
3252.	KONE ELEVATOR (I) (P) LTD.	CHENNAI
3253.	KONE ELEVATOR INDIA	CHENNAI
3254.	KONECRANES	DELHI
3255.	KONECRANES & DEMAG (P) LTD.	PUNE
3256.	KONECRANES (I) (P) LTD.	PUNE
3257.	KONECRANES AND DEMAG (I) (P) LTD.	PUNE
3258.	KONGSBERG MARITIME MIDDLE EAST	DUBAI
3259.	KOOKY INFOMEDIA (P) LTD.	DELHI
3260.	KOLOUD SOFTWARE	BANGALORE

S.No.	ORGANIZATION	LOCATION
3261.	KOREA FUEL TECH (I) (P) LTD.	CHENNAI
3262.	KOSO (I) (P) LTD.	PUNE
3263.	KOTA PROJECTS LTD.	HYDERABAD
3264.	KOTAK MAHINDRA BANK LTD.	MUMBAI
3265.	KOVAION CONSULTING (I) (P) LTD.	CHENNAI
3266.	KP MURTHY & ASSOCIATES	BANGALORE
3267.	KPI PARTNERS	HYDERABAD
3268.	KPIT ENGINEERING LTD.	PUNE
3269.	KPIT TECHNOLOGIES	BANGALORE
3270.	KPIT TECHNOLOGIES	PUNE
3271.	KPIT TECHNOLOGIES LTD.	BANGALORE
3272.	KPIT TECHNOLOGIES LTD.	DELHI
3273.	KPMG GLOBAL DELIVERY CENTER	BANGALORE
3274.	KPMG GLOBAL SERVICES	BANGALORE
3275.	KPMG GLOBAL SERVICES (P) LTD.	BANGALORE
3276.	KPOINT TECHNOLOGIES (P) LTD.	PUNE
3277.	KRAFF SOFTWARE (P) LTD.	AHMEDABAD
3278.	KRITIKAL SOLUTION (P) LTD.	DELHI
3279.	KROMBERG & SCHUBERT GMBH	DUBAI
3280.	KROMBERG & SCHUBERT MEFZ	DUBAI
3281.	KROMBERG AND SCHUBERT	DUBAI
3282.	KSB MIL CONTROLS LTD.	PALAKKAD
3283.	KSB PUMPS LIMATED	PUNE
3284.	KSB TECH (P) LTD.	PUNE
3285.	KSK MAHANADI POWER CO. LTD.	BILASPUR
3286.	KSS ABHISHEK SAFETY SYSTEMS (P) LTD.	DELHI
3287.	KSS ABHISHEK SAFETY SYSTEMS (P) LTD.	MANASAR
3288.	KUANTUM PAPERS LTD.	PUNJAB
3289.	KUWAIT NATIONAL PETROLEUM COMPANY	KUWAIT
3290.	KUWAIT TELECOMMUNICATIONS VIVA	DUBAI
3291.	KVANTUM INC	DELHI
3292.	KVSS CONSULTANCY	MUMBAI
3293.	L & T CONSTRUCTION	COIMBATORE
3294.	L & T CONSTRUCTION	CUTTACK
3295.	L & T CONSTRUCTION	DELHI
3296.	L & T CONSTRUCTION	FIROZABAD
3297.	L & T CONSTRUCTION	JAIPUR
3298.	L & T CONSTRUCTION	MUMBAI
3299.	L & T CONSTRUCTION	NAGAU
3300.	L & T HYDROCARBON ENGINEERING	MUMBAI
3301.	L & T INFOTECH	BANGALORE
3302.	L & T INFOTECH	CHENNAI
3303.	L & T TECHNOLOGY SERVICES	BANGALORE
3304.	L & T TECHNOLOGY SERVICES LTD.	BANGALORE
3305.	L & T TECHNOLOGY SERVICES LTD.	MUMBAI
3306.	L & TIES VADODARA	BANGALORE
3307.	L AND T INFOTECH	BANGALORE
3308.	L AND T TECHNOLOGY SERVICES	BANGALORE
3309.	L G BALAKRISHNAN & BROS LTD.	COIMBATORE
3310.	L&T CHIYODA LTD.	MUMBAI
3311.	L&T CONSTRUCTION	AHMEDABAD
3312.	L&T CONSTRUCTION	BANGALORE
3313.	L&T CONSTRUCTION	BHOPAL
3314.	L&T CONSTRUCTION	BHUBANESWAR
3315.	L&T CONSTRUCTION	CHENNAI
3316.	L&T CONSTRUCTION	CUTTACK
3317.	L&T CONSTRUCTION	DELHI
3318.	L&T CONSTRUCTION	DOHA
3319.	L&T CONSTRUCTION	GULBARGARH
3320.	L&T CONSTRUCTION	HYDERABAD
3321.	L&T CONSTRUCTION	JHUNJHUNU
3322.	L&T CONSTRUCTION	JOSHIMATH
3323.	L&T CONSTRUCTION	KOLKATA
3324.	L&T CONSTRUCTION	PRAYAGRAJ
3325.	L&T CONSTRUCTION	PUNE
3326.	L&T CONSTRUCTION	RAIGARH
3327.	L&T CONSTRUCTION	SURAT
3328.	L&T CONSTRUCTION	THOOTHUKUDI
3329.	L&T CONSTRUCTION	VISAKHAPATNAM
3330.	L&T CONSTRUCTION	VYARA
3331.	L&T CONSTRUCTION HCI	CHENNAI

S.No.	ORGANIZATION	LOCATION
3332.	L&T CONSTRUCTION PT&D IC	MUMBAI
3333.	L&T CONSTRUCTION-HEAVY CIVIL INFRASTRUCTURE	CHENNAI
3334.	L&T ELECTRICAL & AUTOMATION	MUMBAI
3335.	L&T HCI IC	CHENNAI
3336.	L&T HYDROCARBON ENGINEERING	JAMNAGAR
3337.	L&T HYDROCARBON ENGINEERING	VADODARA
3338.	L&T HYDROCARBON ENGINEERING LTD.	PUNE
3339.	L&T HYDROCARBON SAUDI COMPANY	CHENNAI
3340.	L&T HYDROCARBON SAUDI COMPANY	COIMBATORE
3341.	L&T INFOTECH	BANGALORE
3342.	L&T INFOTECH	CHENNAI
3343.	L&T INFOTECH	JAIPUR
3344.	L&T INFOTECH LTD.	PUNE
3345.	L&T INFOTECH PVT	CHENNAI
3346.	L&T INFRASTRUCTURE	CHENNAI
3347.	L&T LTD.	AURANGABAD
3348.	L&T MODULAR FABRICATION YARD LLC OMAN	BANGALORE
3349.	L&T POWER	TIRUCHIRAPALLI
3350.	L&T RUBBER PROCESSING MACHINERY	CHENNAI
3351.	L&T SHIPBUILDING LTD.	CHENNAI
3352.	L&T SPECIAL STEELS AND HEAVY FORGINGS PV	SURAT
3353.	L&T TECHNOLOGIES LTD.	BANGALORE
3354.	L&T TECHNOLOGY SERVICES	BANGALORE
3355.	L&T TECHNOLOGY SERVICES	CHENNAI
3356.	L&T TECHNOLOGY SERVICES	DELHI
3357.	L&T TECHNOLOGY SERVICES	MYSORE
3358.	L&T TECHNOLOGY SERVICES	VADODARA
3359.	L&T TECHNOLOGY SERVICES LTD.	BANGALORE
3360.	L&T TECHNOLOGY SERVICES LTD.	DELHI
3361.	L&T TECHNOLOGY SERVICES LTD.	MUMBAI
3362.	L&T TECHNOLOGY SERVICES LTD.	PUNE
3363.	L&T TS	BANGALORE
3364.	L&T VALDEL ENGINEERING LTD.	BANGALORE
3365.	L&T VALVES	CHENNAI
3366.	L&T VALVES LTD.	CHENNAI
3367.	L&T VALVES LTD.	COIMBATORE
3368.	L&T VALVES LTD.	KANCHEEPURAM
3369.	LADCO GALVANIZERS (P) LTD.	CHENNAI
3370.	LAKSHMI ELECTRICAL CONTROL SYSTEM	TIRUPATI
3371.	LAKSHMI MACHINE WORKS - MACHINE TOOL DIVISION	COIMBATORE
3372.	LAKSHMI MACHINE WORKS LTD.	COIMBATORE
3373.	LAKSHMI MACHINES WORKS	COIMBATORE
3374.	LAM RESEARCH	BANGALORE
3375.	LAM RESEARCH (I) (P) LTD.	BANGALORE
3376.	LAM RESEARCH (I) (P) LTD.	DOMLUR
3377.	LAM RESEARCH CORPORATION	BANGALORE
3378.	LAM RESEARCH INDIA	BANGALORE
3379.	LAMPRELL ENERGY LTD.	DUBAI
3380.	LAMPRELL ENERGY LTD.	UAE
3381.	LANDIS + GYR LTD.	DELHI
3382.	LANDIS GYR	DELHI
3383.	LANDMARK IT SOLUTIONS	HYDERABAD
3384.	LANXESS (I) (P) LTD.	BHARUCH
3385.	LARK LABORATORIES (I) LTD. BHIWADI RAJASTHAN	BHIWADI
3386.	LARSAN AND TOUBRO LTD.	DELHI
3387.	LARSEN & TOUBRO	ABUDHABI
3388.	LARSEN & TOUBRO	BANGALORE
3389.	LARSEN & TOUBRO	BARODA
3390.	LARSEN & TOUBRO	BATHINDA
3391.	LARSEN & TOUBRO	BHUBANESWAR
3392.	LARSEN & TOUBRO	CHENNAI
3393.	LARSEN & TOUBRO	CHHABRA
3394.	LARSEN & TOUBRO	COIMBATORE
3395.	LARSEN & TOUBRO	CUTTACK
3396.	LARSEN & TOUBRO	DAMMAM
3397.	LARSEN & TOUBRO	DELHI
3398.	LARSEN & TOUBRO	DOHA
3399.	LARSEN & TOUBRO	DUBAI
3400.	LARSEN & TOUBRO	FARIDABAD
3401.	LARSEN & TOUBRO	GANDHINAGAR
3402.	LARSEN & TOUBRO	GOA

S.No.	ORGANIZATION	LOCATION
3403.	LARSEN & TOUBRO	GURGAON
3404.	LARSEN & TOUBRO	HYDERABAD
3405.	LARSEN & TOUBRO	INDORE
3406.	LARSEN & TOUBRO	JAIPUR
3407.	LARSEN & TOUBRO	JAMNAGAR
3408.	LARSEN & TOUBRO	JAMSHEDPUR
3409.	LARSEN & TOUBRO	JHUNJHUNU
3410.	LARSEN & TOUBRO	JODHPUR
3411.	LARSEN & TOUBRO	KANCHEEPURAM
3412.	LARSEN & TOUBRO	KANNUR
3413.	LARSEN & TOUBRO	KANPUR
3414.	LARSEN & TOUBRO	LUCKNOW
3415.	LARSEN & TOUBRO	MANPAKKAM
3416.	LARSEN & TOUBRO	MUSCAT,OMAN
3417.	LARSEN & TOUBRO	MYSORE
3418.	LARSEN & TOUBRO	NAGOUR
3419.	LARSEN & TOUBRO	ODISHA
3420.	LARSEN & TOUBRO	OMAN
3421.	LARSEN & TOUBRO	PITHAMPUR
3422.	LARSEN & TOUBRO	PUDUKKOTTAI
3423.	LARSEN & TOUBRO	QATAR
3424.	LARSEN & TOUBRO	RAIGARH
3425.	LARSEN & TOUBRO	RIYADH
3426.	LARSEN & TOUBRO	RUDRAPRAGAY
3427.	LARSEN & TOUBRO	SAUDIARABIA
3428.	LARSEN & TOUBRO	SHAKTINAGAR
3429.	LARSEN & TOUBRO	SHARJAH
3430.	LARSEN & TOUBRO	SIKKIM
3431.	LARSEN & TOUBRO	SILIGURI
3432.	LARSEN & TOUBRO	SURAT
3433.	LARSEN & TOUBRO	TAMILNADU
3434.	LARSEN & TOUBRO	TELANGANA
3435.	LARSEN & TOUBRO	TIRUNELVELI
3436.	LARSEN & TOUBRO	TUTICORIN
3437.	LARSEN & TOUBRO	UAE
3438.	LARSEN & TOUBRO	VADODARA
3439.	LARSEN & TOUBRO	VARANASI
3440.	LARSEN & TOUBRO	VISAKHAPATNAM
3441.	LARSEN & TOUBRO	VYARA
3442.	LARSEN & TOUBRO CONSTRUCTION LTD.	KOLKATA
3443.	LARSEN & TOUBRO ECC DIVISION	DUBAI
3444.	LARSEN & TOUBRO INFOTECH	PUNE
3445.	LARSEN & TOUBRO LTD.	BANGALORE
3446.	LARSEN & TOUBRO LTD.	CHENNAI
3447.	LARSEN & TOUBRO LTD.	DELHI
3448.	LARSEN & TOUBRO LTD.	DUBAI
3449.	LARSEN & TOUBRO LTD.	GOA
3450.	LARSEN & TOUBRO LTD.	KOLKATA
3451.	LARSEN & TOUBRO(OMAN)LLC	DUBAI
3452.	LARSEN AND TOUBRO	CHENNAI
3453.	LARSEN AND TOUBRO	DELHI
3454.	LARSEN AND TOUBRO (P) LTD.	MUMBAI
3455.	LARSEN AND TOUBRO LTD.	CHENNAI
3456.	LARSEN AND TOUBRO LTD.	COIMBATORE
3457.	LARSEN AND TOUBRO LTD.	DELHI
3458.	LARSEN AND TOUBRO LTD.	DUBAI
3459.	LARSEN AND TOUBRO LTD.	GOA
3460.	LARSEN AND TOUBRO LTD.	PUNE
3461.	LARSEN AND TOUBRO LTD. CONSTRUCTION	BANGALORE
3462.	LARSEN&TOUBRO LTD.	CHENNAI
3463.	LARSEAN AND TOUBRO CONSTRUCTION	BANGALORE
3464.	LASTECH (DRDO)	DELHI
3465.	LASTECH DRDO MIN. OF DEFENCE	DELHI
3466.	LATENTVIEW ANALYTICS	CHENNAI
3467.	LAURUS LABS	HYDERABAD
3468.	LAXMANBHAI & CO.	SEYCHELLES
3469.	LEADSOC TECHNOLOGIES (P) LTD.	BANGALORE
3470.	LEAP & SCALE GROWTH PARTNERS (P) LTD.	PUNE
3471.	LEAP INFRAASYS (P) LTD.	NOIDA
3472.	LEAR (I) ENGINEERING LLP	PUNE
3473.	LEAR AUTOMOTIVE (I) (P) LTD.	CHENNAI

S.No.	ORGANIZATION	LOCATION
3474.	LEAR AUTOMOTIVE (I) (P) LTD.	PUNE
3475.	LEAR CORPORATION	PUNE
3476.	LEARNING MATE SOLUTIONS	KOLKATA
3477.	LEARNINGMATE SOLUTIONS (P) LTD.	PUNE
3478.	LEARNIPHI TECHNOLOGY (P) LTD.	AHMEDABAD
3479.	LEARNPEDIA EDUTECH (P) LTD.	HYDERABAD
3480.	LEIGHTON OFFSHORE SDN BHD	KUALALUMPUR
3481.	LEITWIND SHRIRAM MFG. LTD.	CHENNAI
3482.	LEIXIR RESOURCES (P) LTD.	DELHI
3483.	LENNOX (I) TECHNOLOGY CENTER	CHENNAI
3484.	LENOVO (I) (P) LTD.	BANGALORE
3485.	LENOVO GLOBAL TECHNOLOGY (I) PRIVATE	BANGALORE
3486.	LEOFORCE TECHNOLOGIES INDIA(PVT) LTD.	HYDERABAD
3487.	LETO CENTRE FOR WOMEN'S HEALTH	CHENNAI
3488.	LEVADATA SOFTWARE SOLUTIONS (P) LTD.	HYDERABAD
3489.	LEXMARK INTERNATIONAL INDIA(PVT) LTD.	KOLKATA
3490.	LG ELECTRONICS (I) (P) LTD.	DELHI
3491.	LG ELECTRONICS (I) LTD.	PUNE
3492.	LG SOFT (I) (P) LTD.	BANGALORE
3493.	LG SOFT INDIA	BANGALORE
3494.	LGSOFT (I) (P) LTD.	BANGALORE
3495.	LIEBHERR (I) (P) LTD.	MUMBAI
3496.	LIEBHERR CMCTECH (I) (P) LTD.	PUNE
3497.	LIFE LINE HOSPITAL	CHENNAI
3498.	LIGHTING TECHNOLOGIES (I) (P) LTD.	BANGALORE
3499.	LINCOLN ELECTRIC MIDDLE EAST FZE	DUBAI
3500.	LINKEDIN TECHNOLOGY INFORMATION PRIVATE	BANGALORE
3501.	LINKS MIDDLE EAST TECHNICAL SERVICES LLC	ABUDHABI
3502.	LINKS MIDDLEEAST TECHNICAL SERVICES LLC	ABUDHABI
3503.	LINKSTREET LEARNING (P) LTD.	BANGALORE
3504.	LIONBRIDGE TECHNOLOGY (P) LTD.	BANGALORE
3505.	LIPI DATA SYSTEMS LTD.	UDAIPUR
3506.	LIQUID PROPULSION SYSTEMS CENTRE (ISRO)	BANGALORE
3507.	LITTLE (I) DENTIST PTE LTD.	SINGAPORE
3508.	LIVA PHARMACEUTICALS LTD.	VADODARA
3509.	LKS (I) (P) LTD.	GOA
3510.	LKS (I) (P) LTD.	PANAJI
3511.	LLOYD'S REGISTER ASIA	MUMBAI
3512.	LM WIND POWER	BANGALORE
3513.	LM WIND POWER	VADODARA
3514.	LM WIND POWER BLADES (I) (P) LTD.	BANGALORE
3515.	LM WIND POWER BLADES(INDIA) (P) LTD.	BANGALORE
3516.	LNT TECHNOLOGY SERVICES	VADODARA
3517.	LOCUZ ENTERPRISE SOLUTIONS	CHENNAI
3518.	LOCUZ ENTERPRISE SOLUTIONS LTD.	HYDERABAD
3519.	LOESCHE (I) (P) LTD.	NOIDA
3520.	LOGIXHEALTH SOLUTIONS (P) LTD.	BANGALORE
3521.	LOGMEIN INDIA	BANGALORE
3522.	LOGMEIN SYSTEMS (I) (P) LTD.	BANGALORE
3523.	LOGWELL FORGE LTD. GURUGAON HARYANA	GURGAON
3524.	LOMBARDINI (I) (P) LTD.	PUNE
3525.	LONESTAR TECHNICAL AND INDUSTRIAL SERVIC	ABUDHABI
3526.	LONESTAR TECHNICAL SERVICES	DUBAI
3527.	LONGBOW TECHNOLOGIES	HYDERABAD
3528.	LOTUS WIRELESS TECHNOLOGIES (I) (P) LTD.	HYDERABAD
3529.	LOURDES HOSPITAL & PG INSTITUTE OF MEDICINE	BANGALORE
3530.	LOWES SERVICES (I) (P) LTD.	BANGALORE
3531.	LTI(L&T INFOTECH)	BANGALORE
3532.	LTI(L&T INFOTECH)	CHENNAI
3533.	LUCAS-TVS	CHENNAI
3534.	LUCKNOW METRO RAIL CORPORATION LTD.	MUMBAI
3535.	LUCY ELECTRIC	DUBAI
3536.	LUCY ELECTRIC INDIA	VADODARA
3537.	LUCY ELECTRIC MANUFACTURING&TECHNOLOGIES (I) PVT	MUMBAI
3538.	LUCY SWITCHGEAR FZE	DUBAI
3539.	LUMAX INDUSTRIES LTD.	DELHI
3540.	LUMILEDS (I) (P) LTD.	CHENNAI
3541.	LUMINOUS POWER TECHNOLOGIES (P) LTD.	DELHI
3542.	LUPIN LTD.	AURANGABAD
3543.	LUPIN LTD.	BHOPAL
3544.	LUPIN LTD.	GOA

S.No.	ORGANIZATION	LOCATION
3545.	LUPIN LTD.	HYDERABAD
3546.	LUPIN LTD.	INDORE
3547.	LUPIN LTD.	JAMMUANDKASHMIR
3548.	LUPIN LTD.	MUMBAI
3549.	LUPIN LTD.	NAGPUR
3550.	LUPIN LTD.	PITHAMPUR
3551.	LUPIN LTD.	VADODARA
3552.	LUPIN LTD.	VISAKHAPATNAM
3553.	LUXOFT	BANGALORE
3554.	M J CASTING LTD.	BAWAL
3555.	M J ENGINEERING CONSULTANTS	DELHI
3556.	M S RAMAIAH MEDICAL COLLEGE	BANGALORE
3557.	M. H. ALSHAYA (INDIA)	BANGALORE
3558.	M.A.H.Y KHOORY	ABUDHABI
3559.	M.N.DASTUR & CO. (P) LTD.	KOLKATA
3560.	M.S.RAMAIAH MEDICAL COLLEGE AND HOSPITALS	BANGALORE
3561.	M.VENKATA RAO INFRA PROJECTS (P) .LTD	GOA
3562.	M3BI LTD.	HYDERABAD
3563.	MAADEN ALUMINIUM COMPANY	JUBAIL
3564.	MAADEN ALUMINUM CO. SAUDI ARABIYA	UAE
3565.	MAAVILA ENTERPRISES	MUMBAI
3566.	MAC ENERGY SYSTEMS	BANGALORE
3567.	MAC MACHINE TOOLS AND AUTOMATION	BANGALORE
3568.	MACBROUT ENGINEERING (P) LTD.	GOA
3569.	MACER AUTOMOTIVE SYSTEM (P) LTD.	BANGALORE
3570.	MACHINEPULSE TECH (P) LTD.	BANGALORE
3571.	MACQUARIE GLOBAL SERVICES (P) LTD.	GURGAON
3572.	MADINA GROUP W.L.L	CHENNAI
3573.	MADINA GROUP W.L.L	QATAR
3574.	MADISON ORTHO INC.	MUMBAI
3575.	MADRAS ENGINEERING INDUSTRIES (P) LI	SRIPERUMBUDUR
3576.	MADURA COATS (P) LTD.	BANGALORE
3577.	MAERSK DIGITAL	BANGALORE
3578.	MAERSK GLOBAL SERVICE CENTER	PUNE
3579.	MAERSK LINE FLEET MANAGEMENT & TECHNOLOGY (I) P	RANCHI
3580.	MAGGROUP	DUBAI
3581.	MAGNA AUTOMOTIVE (I) (P) LTD.	PUNE
3582.	MAGNA INFOTECH	BANGALORE
3583.	MAGNA INFOTECH DEPLOYED AT SAP LABS PVT.	NOIDA
3584.	MAGNA INFOTECH LTD.	DELHI
3585.	MAGNA INFOTECH(DEPUTED - CATERPILLAR IND	THIRUVALLUR
3586.	MAGNA SEATING ENGINEERING SERVICES INDIA	PUNE
3587.	MAGNA STEYR (I) (P) LTD.	PUNE
3588.	MAGNA STEYR INDIA	PUNE
3589.	MAGNACODE HEALTHCARE AND RESEARCH (P) LTD.	CHENNAI
3590.	MAGNETI MARELLI	DELHI
3591.	MAGNETI MARELLI (I) (P) LTD.	BANGALORE
3592.	MAGNETI MARELLI (I) (P) LTD.	DELHI
3593.	MAGNETI MARELLI (I) (P) LTD.	MANESAR
3594.	MAGNETI MARELLI MOTHERSON AUTOSYSTEMS (P) LTD.	PUNE
3595.	MAGNETI MARELLI POWERTRAIN (I) PVT.LTD	GURGAON
3596.	MAGNITUDE SOFTWARE (P) LTD.	HYDERABAD
3597.	MAGNUSVISTA TECHNOLOGIES	COIMBATORE
3598.	MAHALANOBIS NATIONAL CROP FORECAST CENTRE	DELHI
3599.	MAHAMETRO	PUNE
3600.	MAHARAJA AGRASEN MEDICAL COLLEGE AGROHA	AGROHA
3601.	MAHARASHTRA SEAMLESS LTD.	PUNE
3602.	MAHARSHTRA KNOWLEDGE CORPORATION LTD.	PUNE
3603.	MAHATHI SOFTWARE	HYDERABAD
3604.	MAHAVIR CANCER SANSTHAN	KOLKATA
3605.	MAHINDRA & MAHINDRA	CHENNAI
3606.	MAHINDRA & MAHINDRA LTD.	BANGALORE
3607.	MAHINDRA & MAHINDRA LTD.	CHENNAI
3608.	MAHINDRA & MAHINDRA LTD.	KANCHEEPURAM
3609.	MAHINDRA & MAHINDRA LTD.	MUMBAI
3610.	MAHINDRA & MAHINDRA LTD.	NASHIK
3611.	MAHINDRA & MAHINDRA LTD.	PUNE
3612.	MAHINDRA & MAHINDRA LTD.	RUDRAPUR
3613.	MAHINDRA & MAHINDRA LTD.	TAMILNADU
3614.	MAHINDRA AND MAHINDRA LTD.	CHENNAI
3615.	MAHINDRA AND MAHINDRA LTD. - AFS ; MRV MWC -603204	CHENNAI

S.No.	ORGANIZATION	LOCATION
3616.	MAHINDRA AND MAHINDRA RESEARCH VALLEY	CHENNAI
3617.	MAHINDRA CIE AUTOMOTIVE LTD.	PUNE
3618.	MAHINDRA CIE AUTOMOTIVE LTD.	ZAHEERABAD
3619.	MAHINDRA COMVIVA	BANGALORE
3620.	MAHINDRA COMVIVA	DELHI
3621.	MAHINDRA COMVIVA	GURGAON
3622.	MAHINDRA CONSTRUCTION EQUIPMENT	PUNE
3623.	MAHINDRA CONSULTING ENGINEERS LTD.	CHENNAI
3624.	MAHINDRA ECOLE CENTRALE	HYDERABAD
3625.	MAHINDRA ELECTRIC MOBILITY LTD.	BANGALORE
3626.	MAHINDRA ELECTRIC MOBILITY LTD.	PUNE
3627.	MAHINDRA HEAVY ENGINES LTD.	PUNE
3628.	MAHINDRA LOGISTICS LTD.	PUNE
3629.	MAHINDRA RISE	NAGPUR
3630.	MAHINDRA SUSTEN (P) LTD.	CHENNAI
3631.	MAHINDRA SUSTEN (P) LTD.	HYDERABAD
3632.	MAHINDRA SUSTEN (P) LTD.	MUMBAI
3633.	MAHINDRA SWARAJ	DELHI
3634.	MAHINDRA SWARAJ	MOHALI
3635.	MAHINDRA TRUCKS & BUS DIVISION	PUNE
3636.	MAHINDRA VEHICLE MANUFACTURERS LTD.	MAHINDRACHAKAN
3637.	MAHINDRA VEHICLE MANUFACTURING LTD.	PUNE
3638.	MAHLE BEHR (I) (P) LTD.	PUNE
3639.	MAHLE BEHR (I) (P) LTD. CHAKAN PUNE	NOIDA
3640.	MAHLE ENGINEERING SERVICES (I) (P) LTD.	PUNE
3641.	MAHLE FILTERS (I) (P) LTD.	CHENNAI
3642.	MAHLE FILTERS (I) (P) LTD.	GURGAON
3643.	MAINI PRECISION PRODUCTS	BANGALORE
3644.	MAJ HOSPITAL	KOCHI
3645.	MAJESCO	PUNE
3646.	MAKE MY TRIP	DELHI
3647.	MAKE MY TRIP (I) (P) LTD.	BANGALORE
3648.	MAKE MY TRIP (I) (P) LTD.	GURGAON
3649.	MAKEMYTRIP(REDBUS)	BANGALORE
3650.	MAKEPOSITIVE SOFTWARE SOLUTIONS (P) LTD.	DELHI
3651.	MAKINO (I) (P) LTD.	CHENNAI
3652.	MALABAR MULTI SPECIALITY CENTER	CHENNAI
3653.	MAMMUT BUILDING SYSTEM	SHARJAH
3654.	MAN ENERGY SOLUTIONS	MUMBAI
3655.	MANAV ENERGY (P) LTD.	BANGALORE
3656.	MANAV ENTERPRISE MIDDLE EAST	DUBAI
3657.	MANDO AUTO MOTIVE (I) (P) LTD.	BANGALORE
3658.	MANDO AUTO MOTIVE (I) (P) LTD.	CHENNAI
3659.	MANDO SOFTTECH (I) (P) LTD.	BANGALORE
3660.	MANDO SOFTTECH (I) (P) LTD.	CHENNAI
3661.	MANDO SOFTTECH (I) PVT.LTD.	DELHI
3662.	MANHATTAN ASSOCIATES DEVELOPMENT CENTRE (P) LTD.	BANGALORE
3663.	MANIKGARH BIRLA GOLD CEMENT	CHANDIGARH
3664.	MANIPAL HOSPITALS	BANGALORE
3665.	MANIPAL HOSPITALS	TADEPALLI
3666.	MANIPAL TECHNOLOGIES LTD.	BANGALORE
3667.	MANITOWOC CRANES POTAIN (I) PVT.LTD.	PUNE
3668.	MANN AND HUMMEL FILTERS (P) LTD.	BANGALORE
3669.	MANNAI CORPORATION	QATAR
3670.	MANOJ KUMAR LENKA	AHMEDABAD
3671.	MANPOWERGROUP	PUNE
3672.	MANTENA CONSULTECH (P) LTD.	HYDERABAD
3673.	MANUH GLOBAL TECHNOLOGIES	HYDERABAD
3674.	MAP_IT	BHOPAL
3675.	MAPAL (I) (P) LTD.	COIMBATORE
3676.	MAPCO LLC	ABUDHABI
3677.	MARATHON ELECTRIC (I) (P) LTD.	BANGALORE
3678.	MARATHWADA MITRA MANDAL'S INSTITUTE OF TECHNOLOGY	PUNE
3679.	MARICO LTD.	KOLKATA
3680.	MARINE ELECTRONICS & NAVIGATION SYSTEMS (P) LTD.	MUMBAI
3681.	MARINI (I) FAYAT GROUP	AHMEDABAD
3682.	MARITIME INDUSTRIAL SERVICES ARABIA CO. LTD.	CHENNAI
3683.	MARKEM-IMAJE (I) (P) LTD.	BANGALORE
3684.	MARKET CUBE LLC (CUBEVO INSIGHTS (P) LTD.)	GURGAON
3685.	MARKET SIMPLIFIED (I) LTD.	BANGALORE
3686.	MARLABS INNOVATIONS	MYSORE

S.No.	ORGANIZATION	LOCATION
3687.	MARLABS SOFTWARE PVT.LTD	BANGALORE
3688.	MARQUARDT (I) (P) LTD.	PUNE
3689.	MARQUARDT INDIA	PUNE
3690.	MARUTI SUZUKI (I) LTD.	DELHI
3691.	MARUTI SUZUKI (I) LTD.	GURGAON
3692.	MARUTI SUZUKI (I) LTD.	MANESAR
3693.	MARUTI SUZUKI (I) LTD.	ROHTAK
3694.	MARVELL (I) (P) LTD.	BANGALORE
3695.	MARVELL (I) (P) LTD.	PUNE
3696.	MARVELL SEMICONDUCTOR	BANGALORE
3697.	MASHREQ GLOBAL SERVICE (P) LTD.	BANGALORE
3698.	MASTERCARD	PUNE
3699.	MASTERCARD (I) (P) LTD.	PUNE
3700.	MASTERCARD (P) LTD.	PUNE
3701.	MASTERCARD MOBILE TRANSACTIONS SOLUTIONS	VADODARA
3702.	MASTERCARD TECHNOLOGY (P) LTD.	PUNE
3703.	MASTERPCB TECH (P) LTD.	HYDERABAD
3704.	MATHURA-VRINDAVAN MUNICIPAL CORPORATION	DELHI
3705.	MATHWORKS	BANGALORE
3706.	MATHWORKS	HYDERABAD
3707.	MATHWORKS (I) (P) LTD.	BANGALORE
3708.	MATHWORKS (I) (P) LTD.	HYDERABAD
3709.	MATRIMONY.COM	CHENNAI
3710.	MATRIX CONSTRUCTION	DUBAI
3711.	MATTSENKUMAR	GURGAON
3712.	MAURYA MOTORS LTD.	PATNA
3713.	MAVENIR SYSTEMS (P) LTD.	BANGALORE
3714.	MAVERICKGLOBAL INFO SOFT SERVICES (P) LT	BANGALORE
3715.	MAXIM INTEGRATED	BANGALORE
3716.	MAXLINEAR	BANGALORE
3717.	MAXVY TECHNOLOGIES (P) LTD.	BANGALORE
3718.	MAYAMEDIA	CHENNAI
3719.	MAYFLOWER SOFTWARE (P) LTD.	CHENNAI
3720.	MAYURA AUTOMATION & ROBOTIC SYSTEMS	CHENNAI
3721.	MAZAGON DOCK SHIPBUILDERS LTD.	MUMBAI
3722.	MBRDI	BANGALORE
3723.	MCAFEE (I) (P) LTD.	BANGALORE
3724.	MCAFEE SOFTWARE (I) (P) LTD.	BANGALORE
3725.	MCC PTA (I) CORP.PVT.LTD	HALDIA
3726.	MCDERMOTT INDIA	DELHI
3727.	MCDERMOTT INTERNATIONAL INC.	ABUDHABI
3728.	MCELROY SALES & SERVICE (I) (P) LTD.	BANGALORE
3729.	MCGILL ENGINEERING (I) (P) LTD.	CHENNAI
3730.	MCKINSEY & COMPANY	GURGAON
3731.	MCKINSEY AND COMPANY	GURGAON
3732.	MCNALLY BHARAT ENGG. CO. LTD.	KOLKATA
3733.	MEAN METAL MOTORS	BANGALORE
3734.	MECON	DELHI
3735.	MEDIA IQ DIGITAL	BANGALORE
3736.	MEDIATEK	BANGALORE
3737.	MEDIATEK BANGALORE (P) LTD.	BANGALORE
3738.	MEDICA SUPERSPECIALTY HOSPITAL	KOLKATA
3739.	MEDITRINA ISTITUTE OF MEDICAL SCIENCES	MANKAPUR
3740.	MEDLIFE.COM	BANGALORE
3741.	MEDREICH	BANGALORE
3742.	MEDREICH LTD.	BANGALORE
3743.	MEDTEK (I) (P) LTD.	HYDERABAD
3744.	MEDTRONIC	BANGALORE
3745.	MEDTRONIC (COVIDIEN ENGINEERING SERVICES	HYDERABAD
3746.	MEDTRONIC (COVIDIEN)	HYDERABAD
3747.	MEDTRONIC (I) (P) LTD.	BANGALORE
3748.	MEDTRONIC ENGINEERING AND INNOVATION CENTRE	HYDERABAD
3749.	MEDTRONIC ENGINEERING INNOVATION CENTER PVT.LTD.	HYDERABAD
3750.	MEDWAY HOSPITALS	CHENNAI
3751.	MEEAMI TECHNOLOGIES	HYDERABAD
3752.	MEENAKSHI MISSION HOSPITAL & RESEARCH CE	MADURAI
3753.	MEENAKSHI MISSION HOSPITAL & RESEARCH CENTRE	DUBAI
3754.	MEFAB ENGINEERING INDUSTRY LLC	DUBAI
3755.	MEGA FOOD INDUSTRIES CO. LTD.	COIMBATORE
3756.	MEGAVENT TECHNOLOGIES (P) LTD.	BANGALORE
3757.	MEGGITT (I) (P) LTD.	BANGALORE

S.No.	ORGANIZATION	LOCATION
3758.	MEGHNAD SAHA INSTITUTE OF TECHNOLOGY	KOLKATA
3759.	MEIYAD (I) LLP	NOIDA
3760.	MELINK CORPORATION	BANGALORE
3761.	MELVAULT SOFTWARE SOLUTIONS (P) LTD.	HYDERABAD
3762.	MERCATUS SOLUTIONS (I) (P) LTD.	PUNE
3763.	MERCEDES BENZ (I) (P) LTD.	PUNE
3764.	MERCEDES BENZ R&D (I) (P) LTD.	BANGALORE
3765.	MERCEDES BENZ RESEARCH & DEVELOPMENT (I) (P) LTD.	BANGALORE
3766.	MERCEDES BENZ RESEARCH AND DEVELOPMENT	PUNE
3767.	MERCEDES BENZ RESEARCH AND DEVELOPMENT	STUTTGART
3768.	MERCEDES BENZ RESEARCH AND DEVELOPMENT INDIA	BANGALORE
3769.	MERCER CONSULTING (I) (P) LTD.	GURGAON
3770.	MERCER CONSULTING INDIA	DELHI
3771.	MERCK LIFE SCIENCE	BANGALORE
3772.	MERCURY MANAGEMENT AND TECHNICAL SERVICE	MUMBAI
3773.	MERIT SOFTWARE SERVICES (P) LTD.	CHENNAI
3774.	MERIT TECHNOLOGIES (I) LTD.	CHENNAI
3775.	MERITOR CVS	BANGALORE
3776.	MERKLEBLOCK	HYDERABAD
3777.	MERLINHAWK AEROSPACE (P) LTD.	BANGALORE
3778.	MESHA ENERGY SOLUTION (P) LTD.	BANGALORE
3779.	MESSER CUTTING SYSTEMS (I) (P) LTD.	COIMBATORE
3780.	METAC GENERAL CONTRACTING CO LLC	DUBAI
3781.	METACUBE SOFTWARE (P) LTD.	DELHI
3782.	METACUBE SOFTWARES (P) LTD.	GURGAON
3783.	METACUBE SOFTWARES (P) LTD.	JAIPUR
3784.	METAFIL	GURGAON
3785.	METAFLEX DOORS (I) (P) LTD.	NOIDA
3786.	METAL CRAFT	COIMBATORE
3787.	METAL SCOPE (I) (P) LTD.	CHENNAI
3788.	METALMAN MICRO TURNERS	RUDRAPUR
3789.	METALMAN MICROTURNS	UTTARAKHAND
3790.	METAOPTION SOFTWARE (P) LTD.	DELHI
3791.	METEC DESIGN & CONSTRUCTION ENGINEERING PVT.LTD	CHENNAI
3792.	METHODE ELECTRONICS (I) (P) LTD.	BANGALORE
3793.	METHODE ELECTRONICS INC	BANGALORE
3794.	METI M2M (I) (P) LTD.	BANGALORE
3795.	METICULOUS MARKET RESEARCH (P) LTD.	PUNE
3796.	METITO OVERSEAS LTD.	DUBAI
3797.	METLIFE GOSC INDIA	DELHI
3798.	METRICSTREAM	PUNE
3799.	METRICSTREAM (I) (P) LTD.	BANGALORE
3800.	METRICSTREAM INDIA	BANGALORE
3801.	METRICSTREAM INFOTECH (I) (P) LTD.	BANGALORE
3802.	METROLAB ENGINEERING (P) LTD.	PUNE
3803.	METSO (I) (P) LTD.	DELHI
3804.	METSO (I) (P) LTD.	MUMBAI
3805.	METSYS TECHNOLOGIES (P) LTD.	PUNE
3806.	MEWAR HITECH ENGINEERING LTD.	UDAIPUR
3807.	MFX INFOTECH	BANGALORE
3808.	MFX INFOTECH	SALEM
3809.	MG UNIVERSITY	HYDERABAD
3810.	MGA INDUSTRIES	FARIDABAD
3811.	MICHELIN (I) (P) LTD.	BHUBANESWAR
3812.	MICHELIN (I) (P) LTD.	CHENNAI
3813.	MICHELIN (I) (P) LTD.	GUMMIDIPOONDI
3814.	MICHELIN (I) (P) LTD.	PUNE
3815.	MICHELIN (I) (P) LTD.	THIRUVALLUR
3816.	MICHELIN TYRES	CHENNAI
3817.	MICRO FOCUS INTERNATIONAL PLC	BANGALORE
3818.	MICRO FOCUS SOFTWARE (I) (P) LTD.	BANGALORE
3819.	MICRO LABS LTD.	BANGALORE
3820.	MICRO MACHINING SYSTEMS	CHENNAI
3821.	MICROCHIP (I) (P) LTD.	BANGALORE
3822.	MICROCHIP (I) (P) LTD.	CHENNAI
3823.	MICROCHIP TECHNOLOGY (I) (P) LTD.	BANGALORE
3824.	MICROCHIP TECHNOLOGY (I) (P) LTD.	CHENNAI
3825.	MICROCON I2I (P) LTD.	BANGALORE
3826.	MICROFOCUS	BANGALORE
3827.	MICROLABS LTD.	GOA
3828.	MICROLAND LTD.	BANGALORE

S.No.	ORGANIZATION	LOCATION
3829.	MICRON TECHNOLOGY	HYDERABAD
3830.	MICROSEMI COMMUNICATIONS (I) (P) L	BANGALORE
3831.	MICROSEMI COMMUNICATIONS (I) (P) L	HYDERABAD
3832.	MICROSOFT (I) (P) LTD.	BANGALORE
3833.	MICROSOFT (I) (R&D) (P) LTD.	BANGALORE
3834.	MICROSOFT (I) R & D	BANGALORE
3835.	MICROSOFT (I) R & D (P) LTD.	BANGALORE
3836.	MICROSOFT (I) R& D (P) LTD.	BANGALORE
3837.	MICROSOFT (I) R&D (P) LTD.	BANGALORE
3838.	MICROSOFT (R&D) (P) LTD.	BANGALORE
3839.	MICROSOFT CORPORATION (I) LTD.	CHENNAI
3840.	MICROSOFT GTSC	BANGALORE
3841.	MICROSOFT IDC	DELHI
3842.	MICROSOFT INDIA	BANGALORE
3843.	MICROSOFT R & D (P) LTD.	BANGALORE
3844.	MICROSOFT RESEARCH AND DEVELOPMENT BANGALORE	BANGALORE
3845.	MICROTEK FORGINGS. A UNIT OF BAJAJ MOTORS LTD.	DELHI
3846.	MIDAS SAFETY PRODUCTS (P) LTD.	COIMBATORE
3847.	MIDDLE EAST AND AFRICA GROUP FOR TECHNOLOGY	BANGALORE
3848.	MIDDLEBY (I) ENGINEERING (P) LTD.	BANGALORE
3849.	MIEROBOT.COM	BANGALORE
3850.	MIFY SOLUTIONS (P) LTD.	DELHI
3851.	MIJO AUTOGAS (P) LTD.	DELHI
3852.	MILANN	BANGALORE
3853.	MILLENNIUM TECHNOSOFT LTD.	HYDERABAD
3854.	MINDA CORPORATION LTD.	PUNE
3855.	MINDA CORPORATION LTD. PANTNAGAR UTTARAKHAND	DELHI
3856.	MINDA FURUKAWA ELECTRIC (P) LTD.	BAWAL
3857.	MINDA INDUSTRIES LTD.	GURGAON
3858.	MINDA KYORAKU LTD.	DELHI
3859.	MINDA KYORAKU LTD.	REWARI
3860.	MINDA SAI LTD.	CHENNAI
3861.	MINDA STONERIDGE INSTRUMENT LTD.	PUNE
3862.	MINDCURV TECHINCAL SERVICES (P) LTD.	COCHIN
3863.	MINDCURV TSPL	COCHIN
3864.	MINDFIRE SOLUTION	DELHI
3865.	MINDLANCE TECH	BANGALORE
3866.	MINDSPACE SOFTWARE TECHNOLOGIES (P) LTD.	MUMBAI
3867.	MINDTECK (I) (P) LTD.	CHENNAI
3868.	MINDTECK (I) LTD.	BANGALORE
3869.	MINDTECK (I) LTD.	KOLKATA
3870.	MINDTREE (P) LTD.	BANGALORE
3871.	MINDTREE LTD.	CHENNAI
3872.	MINDTREE LTD.	HYDERABAD
3873.	MINDTREE LTD.	KOCHI
3874.	MINEBEA INTEC	BANGALORE
3875.	MINISTRY OF COMMUNICATION	DELHI
3876.	MINISTRY OF DEFENCE	DELHI
3877.	MINISTRY OF DEFENCE	JAMMUANDKASHMIR
3878.	MINISTRY OF DEFENCE	VADODARA
3879.	MINISTRY OF DEFENCE GOVT OF INDIA	DELHI
3880.	MINISTRY OF DEFENCE ON PAYROLL	DELHI
3881.	MINISTRY OF NATIONAL GUARD-HEALTH AFFAIR	SAUDIARABIA
3882.	MIRABEL TECHNOLOGIES (I) (P) LIMIT	HYDERABAD
3883.	MIRAFRA SOFTWARE TECHNOLOGIES	BANGALORE
3884.	MIRAFRA SOFTWARE TECHNOLOGIES (P) LTD.	BANGALORE
3885.	MIRAFRA TECHNOLOGIES	HYDERABAD
3886.	MIRAFRA TECHNOLOGIES (P) LTD. BANGALORE	BANGALORE
3887.	MIRAFRA TECHNOLOGY	CHENNAI
3888.	MISTRAL SOLUTIONS (P) LTD.	BANGALORE
3889.	MISYS FINANCIAL SOFTWARE	BANGALORE
3890.	MISYS SOFTWARE SOLUTIONS	BANGALORE
3891.	MISYS SOFTWARE SOLUTIONS (I) (P) LTD.	BANGALORE
3892.	MIT ADT UNIVERSITY	PUNE
3893.	MIT WORLD PEACE UNIVERSITY	PUNE
3894.	MITCELL MARTIN INC	CHENNAI
3895.	MITRAZ FINANCIAL SERVICES (P) LTD.	BANGALORE
3896.	MITSUBISHI ELECTRIC	PUNE
3897.	MITTCO	DUBAI
3898.	MITTCO LLC	DUBAI
3899.	MIVIN ENGG. TECHNOLOGIES (P) LTD. BOSCH REXROTH	BANGALORE

S.No.	ORGANIZATION	LOCATION
3900.	MIVIN ENGG. TECHNOLOGIES(P) LTD.	BANGALORE
3901.	MJ ASSOCIATES	BANGALORE
3902.	ML OUTSOURCING SERVICES (P) LTD.	HYDERABAD
3903.	MLL HOSPITAL	MADANAPALLE
3904.	MM E-TECH DESIGNS (P) LTD.	PUNE
3905.	MMC INFRASTRUCTURES (I) (P) LTD.	DELHI
3906.	MMODAL GLOBAL SERVICES (P) LTD.	BANGALORE
3907.	MNADO AUTOMOTIVE INDIAN (P) LTD.	CHENNAI
3908.	MOBILE PROGRAMMING (I) (P) LTD.	DELHI
3909.	MOBILE PROGRAMMING (I) (P) LTD.	GURGAON
3910.	MOBILECODERZ TECHNOLIGES	GURGAON
3911.	MOBILECOMM TECHNOLOGIES (I) (P) LTD.	GURGAON
3912.	MOBILECOMM TECHNOLOGIES INDIA (P) LTD.	DELHI
3913.	MOBILEIRON	BANGALORE
3914.	MOBILEUM (I) (P) LTD.	GURGAON
3915.	MOBILY INFOTECH	BANGALORE
3916.	MOBILY INFOTECH (I) (P) LTD.	BANGALORE
3917.	MOBIS (I) LTD.	HYDERABAD
3918.	MOBISIR TECHNOLOGIES (P) LTD.	BANGALORE
3919.	MOBME WIRELESS SOLUTIONS	KOCHI
3920.	MOD- ARMY	NAGROTAJAMMU
3921.	MODEL N	HYDERABAD
3922.	MODEL N INDIA	HYDERABAD
3923.	MODERN HOMEOPATHY	GOA
3924.	MODULAR MACHINES	DELHI
3925.	MOHAMED ABDUL RAHMAN AL BAHAR	SHARJAH
3926.	MOL INFORMATION TECHNOLOGY (I) (P) LTD.	KOLKATA
3927.	MOLBIO DIAGNOSTICS (P) LTD.	GOA
3928.	MOLEX (I) (P) LTD.	BANGALORE
3929.	MOL-IT (I) (P) LTD.	KOLKATA
3930.	MOMENTS INFO SERVICES (P) LTD.	AHMEDABAD
3931.	MONDELEZ (I) FOODS (P) LTD.	BADDI
3932.	MONOTYPE SOLUTIONS (I) (P) LTD.	DELHI
3933.	MONOTYPE SOLUTIONS (I) (P) LTD.	NOIDA
3934.	MONSANTO HOLDINGS (P) LTD.	HYDERABAD
3935.	MONTBLEU TECHNOLOGIES	COIMBATORE
3936.	MOODYS ANALYTICS	GURGAON
3937.	MOOLCHAND MEDCITY	DELHI
3938.	MORGAN STANLEY	BANGALORE
3939.	MORGAN STANLEY	MUMBAI
3940.	MORGAN STANLEY ADVANTAGE SERVICES	BANGALORE
3941.	MORGAN STANLEY ADVANTAGE SERVICES (P) L	MUMBAI
3942.	MORGAN STANLEY ADVANTAGES SERVICES LTD.	BANGALORE
3943.	MOSCHIP	BANGALORE
3944.	MOTHER HOSPITAL	CHENNAI
3945.	MOTHER SUMI INFOTECH & DESIGN LTD.	DELHI
3946.	MOTHERSON AUTOMOTIVE TECHNOLOGIES & ENGINEERING	BANGALORE
3947.	MOTHERSON SUMI SYSTEMS LTD.	AHMEDABAD
3948.	MOTHERSON SUMI SYSTEMS LTD.	CHENNAI
3949.	MOTHERSONSUMI INFOTECH & DESIGNS LTD.	NOIDA
3950.	MOTOROLA (I) (P) LTD.	HYDERABAD
3951.	MOTOROLA MOBILITY (I) (P) LTD.	BANGALORE
3952.	MOTT MACDONALD & CO. LLC	MUSCAT,OMAN
3953.	MOUNTAIN HAZELNUTS	KOLKATA
3954.	MOURI TECH GLOBAL ENTERPRISE SOLUTION	HYDERABAD
3955.	MPHISIS	BANGALORE
3956.	MPHISIS	CHENNAI
3957.	MPHISIS LTD.	BANGALORE
3958.	MPHISIS LTD.	CHENNAI
3959.	MPHISIS TECHNOLOGIES	BANGALORE
3960.	MRF LTD.	ARRAKONAM
3961.	MRF LTD.	CHENNAI
3962.	MRF LTD.	HYDERABAD
3963.	MRF LTD.	TRICHY
3964.	MRF TYRES	CHENNAI
3965.	MRF TYRES	PERAMBALUR
3966.	MRF TYRES	TRICHY
3967.	MRF TYRES -THIRUVOTTIYUR	CHENNAI
3968.	MRMMBS VISION (P) LTD.	DELHI
3969.	MRV INFOTECH (I) (P) LTD.	CHENNAI
3970.	MS.HONDA MOTORCYCLE & SCOOTER (I) PRIV	BANGALORE

S.No.	ORGANIZATION	LOCATION
3971.	MSCEB	MANAMA
3972.	MSD INTERNATIONAL GMBH	SINGAPORE
3973.	MSL DRIVELINE SYSTEMS LTD.	NASHIK
3974.	MSL DRIVELINE SYSTEMS LTD.	PUNE
3975.	MSN LABORATORIES (P) LTD.	HYDERABAD
3976.	MSYS TECHNOLOGIES	CHENNAI
3977.	MSYS TECHNOLOGIES (P) LTD.	PUNE
3978.	MTR FOODS (P) LTD.	BANGALORE
3979.	MTU (I) (P) LTD.	PIMPRI
3980.	MTU (I) (P) LTD.	PUNE
3981.	MU SIGMA	BANGALORE
3982.	MUBEA AUTOMOTIVE INDIA	PUNE
3983.	MUDREX INC.	BANGALORE
3984.	MUNJAL CASTINGS	LUDHIANA
3985.	MUNJAL SHOWA (P) LTD.	GURGAON
3986.	MUSTAFA SULTAN SCIENCE AND INDUSTRY.CO.LLC	MUSCAT,OMAN
3987.	MVS ACMEI TECHNOLOGIES (P) LTD.	HYDERABAD
3988.	MYCOM OSI SOLUTIONS (I) (P) LTD.	DELHI
3989.	MYHAMMER.AG	PUNE
3990.	MYLAN LABORATORIES	BANGALORE
3991.	MYLAN LABORATORIES LTD.	BANGALORE
3992.	MYLAN LABORATORIES LTD.	HOSUR
3993.	MYLAN LABORATORIES LTD.	HYDERABAD
3994.	MYLAN LABORATORIES LTD.	PUNE
3995.	MYLAN LABORATORIES LTD. UNIT-09	VISAKHAPATNAM
3996.	MYMONEYKARMA INFOMATICS (I) (P) LTD.	HYDERABAD
3997.	MYNTRA DESIGNS (P) LTD.	BANGALORE
3998.	MYSTIFLY	BANGALORE
3999.	MYTEX POLYMERS (I) (P) LTD.	GURGAON
4000.	NAAVNIYA CAD SOFT (DEPUTED FOR FLSDMITH (P) LTD.)	COIMBATORE
4001.	NABIL QADDUMI & PARTNERS	DELHI
4002.	NABORS DRILLING INTERNATIONAL LTD.	SAUDIARABIA
4003.	NAFFCO ELECTROMECHANICAL CO LLC	DUBAI
4004.	NAFFCO FZCO	DUBAI
4005.	NAGALAND UNIVERSITY	DIMAPUR
4006.	NAGARRO	DELHI
4007.	NAGARRO ENTERPRISE SERVICES (P) LTD.	DELHI
4008.	NAGARRO SOFTWARE (P) LTD.	DELHI
4009.	NAGARRO SOFTWARES	DELHI
4010.	NAGARRO SOFTWARES (I) (P) LTD.	GURGAON
4011.	NAGRA (I) VISION (P) LTD.	BANGALORE
4012.	NAGRAVISION (I) (P) LTD.	BANGALORE
4013.	NALASHAA SOLUTIONS (I) (P) LTD.	BANGALORE
4014.	NANO SCIENTIFIC RESEARCH CENTRE PVT.LIMI	HYDERABAD
4015.	NAPINO AUTO & ELECTRONICS LTD.	GURGAON
4016.	NARAYAN HRUDAYALAYA LTD.	BANGALORE
4017.	NARAYANA DENTAL COLLEGE AND HOSPITAL	CHENNAI
4018.	NARAYANA HEALTH	BANGALORE
4019.	NARAYANA HEALTH	JAMMUANDKASHMIR
4020.	NARAYANA HRUDAYALAYA LTD.	BANGALORE
4021.	NARVAR (I) (P) LTD.	BANGALORE
4022.	NASMYTH (I) (P) LTD.	BANGALORE
4023.	NASMYTHINDIA	BANGALORE
4024.	NATCO PHARMA LTD.	HYDERABAD
4025.	NATIOAL ENGINEERING INDUSTRIES	JAIPUR
4026.	NATIONAL AEROSPACE LABORATORIES (CSIR-NAL)	BANGALORE
4027.	NATIONAL ALUMINIUM CO. LTD.	ODISHA
4028.	NATIONAL AUTO PLAST	CHENNAI
4029.	NATIONAL CANCER INSTITUTE	HYDERABAD
4030.	NATIONAL CENTRE FOR BIOLOGICAL SCIENCES	BANGALORE
4031.	NATIONAL CENTRE FOR EARTH SCIENCE STUDIES	COIMBATORE
4032.	NATIONAL CONTRACTING CO. LTD.	ABUDHABI
4033.	NATIONAL CONTRACTING COMPANY	CHENNAI
4034.	NATIONAL DEFENCE ACADEMY	PUNE
4035.	NATIONAL ENGINEERING INDUSTRIES	BHIWADI
4036.	NATIONAL ENGINEERING INDUSTRIES (P) LTD.	JAIPUR
4037.	NATIONAL ENGINEERING INDUSTRIES L.T.D C.K.BIRLA	MUMBAI
4038.	NATIONAL ENGINEERING INDUSTRIES LTD.	DELHI
4039.	NATIONAL ENGINEERING INDUSTRIES LTD.	JAIPUR
4040.	NATIONAL ENGINEERING INDUSTRIES LTD.	MUMBAI
4041.	NATIONAL ENGINEERING INDUSTRIES LTD.	VADODARA

S.No.	ORGANIZATION	LOCATION
4042.	NATIONAL HIGHWAYS AUTHORITY OF INDIA	GUWAHATI
4043.	NATIONAL INFORMATICS CENTER	AGARTALA
4044.	NATIONAL INFORMATICS CENTER	CHENNAI
4045.	NATIONAL INFORMATICS CENTER	DELHI
4046.	NATIONAL INFORMATICS CENTER	DHAMTARI
4047.	NATIONAL INFORMATICS CENTER	GOA
4048.	NATIONAL INFORMATICS CENTER	JAIPUR
4049.	NATIONAL INFORMATICS CENTER	PANCHKULA
4050.	NATIONAL INFORMATICS CENTRE	BANGALORE
4051.	NATIONAL INFORMATICS LTD.	BANGALORE
4052.	NATIONAL INSTITUTE OF FASHION TECHNOLOGY	BANGALORE
4053.	NATIONAL INSTITUTE OF NUTRITION	HYDERABAD
4054.	NATIONAL INSTITUTE OF OCEAN TECHNOLOGY	CHENNAI
4055.	NATIONAL INSTITUTE OF SOLAR ENERGY	DELHI
4056.	NATIONAL INSTRUMENTS	BANGALORE
4057.	NATIONAL OILWELL VARCO	DUBAI
4058.	NATIONAL OILWELL VARCO FIBER GLASS SYSTE	MALAYSIA
4059.	NATIONAL OILWELL VARCO PUNE	PUNE
4060.	NATIONAL REMOTE SENSING CENTER ISRO DOS GOI	HYDERABAD
4061.	NATIONAL REMOTE SENSING CENTRE	HYDERABAD
4062.	NATIONAL SECURITIES DEPOSITORY LTD.	MUMBAI
4063.	NATSTEEL HOLDINGS PTE LTD.	SINGAPORE
4064.	NAVA BHARAT VENTURES LTD.	TELANGANA
4065.	NAVIGATORS SOFTWARE (P) LTD.	MUMBAI
4066.	NAYARA ENERGY LTD.	PUNE
4067.	NBHH	DUBAI
4068.	NCC LTD.	GWALIOR
4069.	NCC LTD.	HYDERABAD
4070.	NCC LTD.	KOLKATA
4071.	NCERT	DELHI
4072.	NCR CORPORATION	DUBAI
4073.	NCR CORPORATION	GURGAON
4074.	NCR CORPORATION (P) LTD.	HYDERABAD
4075.	NEBEL INFOTECH	DELHI
4076.	NEBULARC TECHNOLOGIES	DELHI
4077.	NEC TECHNOLOGIES (I) (P) LTD.	BANGALORE
4078.	NECTAR LIFESCIENCES LTD.	DELHI
4079.	NEEL METAL PRODUCTS LTD.	DELHI
4080.	NEI LTD.	JAIPUR
4081.	NEILSOFT LTD.	PURNA
4082.	NELCO LTD.	MUMBAI
4083.	NEOAIRTECH (I) (P) LTD.	BANGALORE
4084.	NEOPHARMA LLC	DUBAI
4085.	NEOSFT TECHNOLOGIES	PUNE
4086.	NEPA INDIA	MUMBAI
4087.	NEPHROPLUS	HYDERABAD
4088.	NESANS MINING AND AUTOMATION (P) LIM	COIMBATORE
4089.	NESS TECHNOLOGIES	HYDERABAD
4090.	NEST 3 PARTY LOGISTICS (P) LTD.	GURGAON
4091.	NEST INFORMATION TECHNOLOGIES	COCHIN
4092.	NESTLE (I) LTD.	GOA
4093.	NESTLE (I) LTD.	MOGA
4094.	NETAPP	BANGALORE
4095.	NETAPP INDIA	BANGALORE
4096.	NETCORE SOLUTIONS (P) LTD.	BANGALORE
4097.	NETCRACKER TECHNOLOGY	HYDERABAD
4098.	NETCRACKER TECHNOLOGY (I) (P) LTD.	BANGALORE
4099.	NETENRICH	HYDERABAD
4100.	NETENRICH TECHNOLOGIES (P) LTD.	HYDERABAD
4101.	NETHRAM LLC	SULTHANBATHERY
4102.	NETS SINGAPORE	BANGALORE
4103.	NETSUTRA	GHAZIABAD
4104.	NETWORK COMPONENTS (P) LTD. PUNE	PUNE
4105.	NEULAND LABORATORIES LTD.	HYDERABAD
4106.	NEULAND LABS (P) LTD.	HYDERABAD
4107.	NEURIOT TECHNOLOGIES LLP	DELHI
4108.	NEUSTAR INC	BANGALORE
4109.	NEW AGE	DUBAI
4110.	NEW KRISONSAI TOOLCRAFT	HYDERABAD
4111.	NEWGEN SOFTWARE	MUMBAI
4112.	NEWT GLOBAL (P) LTD.	CHENNAI

S.No.	ORGANIZATION	LOCATION
4113.	NEXAMATIC SOFTWARE SOLUTIONS (P) LTD.	BANGALORE
4114.	NEXII IT LABS (P) LTD.	BANGALORE
4115.	NEXTEDUCATION (I) (P) LTD.	HYDERABAD
4116.	NEXTGEN HEALTHCARE	BANGALORE
4117.	NEXTGEN HEALTHCARE	NEXTGENHEALTHCARE
4118.	NEXTGEN HEALTHCARE (P) LTD.	BANGALORE
4119.	NEXVAL INFOTECH (P) LTD.	KOLKATA
4120.	NHK AUTOMOTIVE COMPONENTS (I) (P) LTD.	AHMEDNAGAR
4121.	NI SYSTEMS (I) (P) LTD.	BANGALORE
4122.	NICCO ENGINEERING SREVICES LTD.	MUMBAI
4123.	NICE ACTIMIZE	PUNE
4124.	NICE INTERACTIVE SOLUTIONS (I) (P) LIM	PUNE
4125.	NICE INTERACTIVE SOLUTIONS (P) LTD.	MUMBAI
4126.	NICE LTD.	BANGALORE
4127.	NICE SYSTEMS	PUNE
4128.	NICHINO (I) (P) LTD.	HYDERABAD
4129.	NIC-NATIONAL INFORMATICS CENTRE	DELHI
4130.	NIDUS ENTERPRISES (P) LTD.	AHMEDABAD
4131.	NIELIT	DELHI
4132.	NIELIT DELHI CENTRE	DELHI
4133.	NIELSEN (I) (P) LMT	CHENNAI
4134.	NIELSEN (I) (P) LTD.	CHENNAI
4135.	NIGM LLC	DUBAI
4136.	NIHILENT ANALYTICS LTD.	KOLKATA
4137.	NIHILENT TECHNOLOGIES LIMETED PUNE	PUNE
4138.	NIHON COMMUNICATION SOLUTIONS (P) LTD.	BANGALORE
4139.	NIIT TECHNOLOGIES LTD.	DELHI
4140.	NIIT TECHNOLOGIES LTD.	GURGAON
4141.	NIIT TECHNOLOGIES LTD.	NOIDA
4142.	NIKUNJ STOCK BROKERS LTD.	DELHI
4143.	NILATECH	CHENNAI
4144.	NIMHANS (AN INI) GOVT. OF INDIA	BANGALORE
4145.	NIMR AUTOMOTIVE LLC	ABUDHABI
4146.	NINE DOTS TECHNOLOGIES (P) LTD.	MUMBAI
4147.	NIPMAN FASTENER INDUSTRIES (P) LTD.	CHENNAI
4148.	NIPPON DATA SYSTEMS LTD.	DELHI
4149.	NIPPON KOEI (I) (P) LTD.	HYDERABAD
4150.	NIRMAL FIBER (P) LTD.	GAJUROLA
4151.	NIST ITI	MANTHRIPALEM
4152.	NITS SOLUTIONS	GURGAON
4153.	NITTAN (I) TECH (P) LTD.	CHENNAI
4154.	NITYAM WEBTECH	RAJKOT
4155.	NIVEA (I) (P) LTD.	AHMEDABAD
4156.	NIVIDAPPS TECHNOLOGY SOLUTIONS	BANGALORE
4157.	NIVIDOUS SOFTWARE SOLUTION (P) LTD.	MUMBAI
4158.	NIVIDOUS SOFTWARE SOLUTIONS	MUMBAI
4159.	NIZWA COLLEGE OF TECHNOLOGY .	OMAN
4160.	NJS ENGINEERS (I) (P) LTD.	BANGALORE
4161.	NLC (I) LTD.	NEYVELI
4162.	NMC TRADING LLC	DUBAI
4163.	NMDC IRON & STEEL PLANT JAGDALPUR	HYDERABAD
4164.	NOKIA	BANGALORE
4165.	NOKIA	CHENNAI
4166.	NOKIA	DELHI
4167.	NOKIA	DUBAI
4168.	NOKIA	HYDERABAD
4169.	NOKIA	MUMBAI
4170.	NOKIA NETWORK (P) LTD.	DELHI
4171.	NOKIA NETWORKS	BANGALORE
4172.	NOKIA SOLUTIONS & NETWORKS	BANGALORE
4173.	NOKIA SOLUTIONS & NETWORKS	CHENNAI
4174.	NOKIA SOLUTIONS & NETWORKS	DELHI
4175.	NOKIA SOLUTIONS & NETWORKS	MUMBAI
4176.	NOKIA SOLUTIONS AND NETWORKS (P) LTD.	DELHI
4177.	NOMURA SERVICES (I) (P) LTD.	MUMBAI
4178.	NON SPECIFIC	DELHI
4179.	NORDSON (I) (P) LTD.	PUNE
4180.	NORDSON (I) (P) LTD. - BANGALORE	CHENNAI
4181.	NORTH TELECOM LLC	MUMBAI
4182.	NORTHERN RAILWAY	DELHI
4183.	NORTHLAB PTE LTD.	SINGAPORE

S.No.	ORGANIZATION	LOCATION
4184.	NOUS INFOSYSTEMS	BANGALORE
4185.	NOV- DRECO MIDDLE EAST	DUBAI
4186.	NOV FGS PTE LTD.	SINGAPORE
4187.	NOV FGS SINGAPORE	SINGAPORE
4188.	NOV FGS SINGAPORE PTE LTD.	SINGAPORE
4189.	NOVARTIS	HYDERABAD
4190.	NOVARTIS SINGAPORE PHARMACEUTICAL MANUFACTUR	SINGAPORE
4191.	NOVI DIGITAL ENTERTAINMENT (P) LIMIT	GURGAON
4192.	NOVONORDISK GLOBAL SERVICE CENTRE	BANGALORE
4193.	NOVOZYMES SOUTH ASIA (P) LTD.	BANGALORE
4194.	NOVUS FORGE AND CAST (P) LTD.	DELHI
4195.	NPCI	MUMBAI
4196.	NRI FINTECH (I) PVT.LTD	KOLKATA
4197.	NSIC	DELHI
4198.	NSK PRINTS	CHENNAI
4199.	NTC LOGISTICS (I) (P) LTD.	CHENNAI
4200.	NTPC LTD.	CHENNAI
4201.	NTPC LTD.	FARIDABAD
4202.	NTPC LTD.	HYDERABAD
4203.	NTPC LTD.	KOLKATA
4204.	NTPC LTD.	ODISHA
4205.	NTRO GOI	DELHI
4206.	NTT DATA	BANGALORE
4207.	NTT DATA	CHENNAI
4208.	NTT DATA	NOIDA
4209.	NTT DATA INFORMATION PROCESSING SERVICES	BANGALORE
4210.	NTT DATA SERVICES	DELHI
4211.	NTT DATA SERVICES INC	HYDERABAD
4212.	NTT DATA SINGAPORE PTY LTD.	CHENNAI
4213.	NTT LTD.	MUMBAI
4214.	NTTDATA INFO PRO SER PTE LTD.	DELHI
4215.	NTTF	JAMSHEDPUR
4216.	NUANCE (I) (P) LTD.	LUCKNOW
4217.	NUANCE (I) (P) LTD.	PUNE
4218.	NUANCE COMMUNICATIONS	PUNE
4219.	NUCLEAR FUEL COMPLEX	HYDERABAD
4220.	NUCLEAR POWER CORPORATION OF (I) LIMIT	KAIGA
4221.	NUCLEAR POWER CORPORATION OF (I) LIMIT	MUMBAI
4222.	NUCLEAR POWER CORPORATION OF (I) LTD.	MUMBAI
4223.	NUCLEUS ENERGY (P) LTD.	PUNE
4224.	NUCLEUS SOFTWARE EXPORTS	NOIDA
4225.	NUCON AEROSPACE (P) LTD.	HYDERABAD
4226.	NUCTECH (I) (P) LTD.	GURGAON
4227.	NUSECOND TECHNOLOGIES (P) LTD.	BANGALORE
4228.	NUTANIX	BANGALORE
4229.	NUTANIX (I) (P) LTD.	BANGALORE
4230.	NUTECH CONTRACTS (P) LTD.	DELHI
4231.	NUVOCO VISTAS CORPLTD	BALODA
4232.	NVIDIA	BANGALORE
4233.	NVIDIA GRAPHICS	BANGALORE
4234.	NVIDIA GRAPHICS (I) (P) LTD.	BANGALORE
4235.	NVIDIA GRAPHICS (P) LTD.	BANGALORE
4236.	NVIDIA GRAPHICS (P) LTD.	PUNE
4237.	NXP (I) (P) LTD.	BANGALORE
4238.	NXP (I) (P) LTD.	NOIDA
4239.	NYK AUTO LOGISTICS (I) (P) LTD.	CHENNAI
4240.	NYQUEST INNOVATION LABS (P) LTD.	KOLLAM
4241.	NYSA COMMUNICATIONS (P) LTD.	NOIDA
4242.	OAKNET HEALTHCARE (P) LTD.-ADCOCK INGRAM HEALTHCARE	DELHI
4243.	OASIS EPC SOLUTIONS LTD.	MUMBAI
4244.	OBJECT-FRONTIER SOFTWARE (P) LTD.	CHENNAI
4245.	OBJECTIFY TECHNOLOGIES (P) LTD.	DELHI
4246.	OCWEN FINANCIALS	MUMBAI
4247.	ODC STANDARDS	HYDERABAD
4248.	ODESSA INC	BANGALORE
4249.	OERLIKON GRAZIANO TRASMISSIONI (I) (P) LTD.	NOIDA
4250.	OIL & NATURAL GAS CORPORATION LTD.	PUDUCHERRY
4251.	OILFIELD SUPPLY CENTRE LTD. DUBAI(UAE)	DUBAI
4252.	OLA (ANI TECHNOLOGIES (P) LTD.)	BANGALORE
4253.	OLA CABS	BANGALORE
4254.	OLA FLEET TECHNOLOGIES	BANGALORE

S.No.	ORGANIZATION	LOCATION
4255.	OLECTRA GREENTECH LTD.	HYDERABAD
4256.	OLEO BUFFERS (I) (P) LTD.	BANGALORE
4257.	OLEO INTERNATIONAL	BANGALORE
4258.	OLOVI DESINO GRAFICO	HYDERABAD
4259.	OLX (I) (P) LTD.	DELHI
4260.	OMAN FIBER OPTIC SAOG	OMAN
4261.	OMAN OIL REFINERIES AND PETROLEUM INDUST	OMAN
4262.	OMAN TRADING ESTABLISHMENT	COIMBATORE
4263.	OMEGA HEALTH CARE MANAGEMENT	BANGALORE
4264.	OMNI AUTO LTD.	JAMSHEDPUR
4265.	OMNIX INTERNATIONAL LLC	DUBAI
4266.	OMNIX INTERNATIONAL UAE	DUBAI
4267.	OMRON AUTOMATION (P) LTD.	MUMBAI
4268.	OMT INTERNATIONAL FZE	BANGALORE
4269.	OMT SOFTWARE (P) LTD.	DELHI
4270.	ON SEMICONDUCTOR	BANGALORE
4271.	ON SEMICONDUCTOR (I) (P) LTD.	BANGALORE
4272.	ON SEMICONDUCTOR TECHNOLOGY (I) (P) LTD.	BANGALORE
4273.	ON SEMICONDUCTORS	BANGALORE
4274.	ON SEMICONDUCTORTECHONLOGY (I) (P) LT	BANGALORE
4275.	ONCEHUB	DELHI
4276.	ONE TRUST PRIVACY MANAGEMENT SOFTWARE	BANGALORE
4277.	ONEDIRECT (P) LTD.	BANGALORE
4278.	ONGC LTD. (PSU)	DELHI
4279.	ONMOBILE GLOBAL LTD.	BANGALORE
4280.	ONTIME INDUSTRIAL SERVICE LTD.	CHENNAI
4281.	ONWARD TECHNOLOGIES	PUNE
4282.	ONWARD TECHNOLOGIES LTD.	PUNE
4283.	OOREDOO	MUMBAI
4284.	OOTTRU TECHNOLOGIES	BANGALORE
4285.	OPEN DESTINATION INFOTECH (P) LTD.	PANAJI
4286.	OPENTEXT	BANGALORE
4287.	OPENTEXT (I) (P) LTD.	HYDERABAD
4288.	OPENTEXT CORP.	HYDERABAD
4289.	OPENTEXT TECHNOLOGIES (I) (P) LTD.	HYDERABAD
4290.	OPENTEXT TECHNOLOGIES IND (P) LTD.	HYDERABAD
4291.	OPERATIONAL ENERGY GROUP (I) PVT.LTD	CHENNAI
4292.	OPPO MOBILES (I) (P) LTD.	HYDERABAD
4293.	OPSRAMP (I) (P) LTD.	HYDERABAD
4294.	OPTEL VISION (I) (P) LTD.	GOA
4295.	OPTIEMUS ELECTRONICS LTD.	NOIDA
4296.	OPTIMIZORY TECHNOLOGIES (P) LTD.	NOIDA
4297.	OPTIMUM SOLUTIONS	BANGALORE
4298.	OPTIMUM SOLUTIONS	SINGAPORE
4299.	OPTIV	BANGALORE
4300.	OPTUM GLOBAL SOLUTIONS	DELHI
4301.	OPTUM GLOBAL SOLUTIONS	HYDERABAD
4302.	OPTYM (I) (P) LTD.	BANGALORE
4303.	ORACEL (I) (P) LTD.	AHMEDABAD
4304.	ORACEL (I) (P) LTD.	BANGALORE
4305.	ORACEL (I) (P) LTD.	GURGAON
4306.	ORACEL (I) (P) LTD.	HYDERABAD
4307.	ORACEL (I) (P) LTD.	NOIDA
4308.	ORACEL (I) (P) LTD.	SERVICENOW
4309.	ORACEL (I) (P) LTD.	THIRUVANANTHAPURAM
4310.	ORACEL (I) (P) LTD.	TRIVANDRUM
4311.	ORACLE (I) (P) LTD.	BANGALORE
4312.	ORACLE (I) (P) LTD.	PUNE
4313.	ORACLE (I) DEVELOPMENT CENTER	PUNE
4314.	ORACLE FINANCIAL SERIVES SOFTWARE LTD.	BANGALORE
4315.	ORACLE FINANCIAL SERIVES SOFTWARE LTD.	CHENNAI
4316.	ORACLE FINANCIAL SERIVES SOFTWARE LTD.	MUMBAI
4317.	ORACLE INDIA	BANGALORE
4318.	ORACLE SOLUTION SERVICES (I) (P) LTD.	BANGALORE
4319.	ORACLE SOLUTION SERVICES INDIA	BANGALORE
4320.	ORANA (I) (P) LTD.	DELHI
4321.	ORANGE BUSINESS SERVICES (I) SOLUTIONS	MUMBAI
4322.	ORANGE CITY WATER (P) LTD.	NAGPUR
4323.	ORANGE SORTING MACHINES (I) (P) LTD.	BANGALORE
4324.	ORBIT TECHNOLOGIES	MOHALI
4325.	ORCHID PHARMA LTD.	CHENNAI

S.No.	ORGANIZATION	LOCATION
4326.	ORGANIZEIN GLOBAL INTERNET MARKETING SOLUTION	BANGALORE
4327.	ORIENT ELECTRIC LTD.	DELHI
4328.	ORIENTAL BANK OF COMMERCE	MUMBAI
4329.	ORIENTAL STRUCTURAL ENGINEERS (P) LI	DELHI
4330.	ORION (I) SYSTEMS (P) LTD.	CHENNAI
4331.	ORION (I) SYSTEMS (P) LTD.	MUMBAI
4332.	OSB INDIA	BANGALORE
4333.	OSI SYSTEMS (P) LTD.	HYDERABAD
4334.	OSRAM CONTINENTAL (I) (P) LTD.	BANGALORE
4335.	OTIS ELEVATOR (I) LTD.	BANGALORE
4336.	OTIS ELEVATOR (I) LTD.	CHENNAI
4337.	OTIS ELEVATOR COMPANY	BANGALORE
4338.	OTIS ELEVATORS	BANGALORE
4339.	OVERSEAS AST CO. LLC	DUBAI
4340.	OWLER (I) (P) LTD.	COIMBATORE
4341.	P.E.S INSTITUTE OF MEDICAL SCIENCES	BANGALORE
4342.	P2 POWER SOLUTIONS (P) LTD.	DELHI
4343.	PACIFIC COLLEGE OF ENGINEERING	UDAIPUR
4344.	PACT ENGINEERING	MUMBAI
4345.	PADMINI VNA MECHATRONICS (P) LTD.	DELHI
4346.	PADMINI VNA MECHATRONICS (P) LTD.	GURGAON
4347.	PALFINGER CRANES (I) (P) LTD.	CHENNAI
4348.	PALMMASON (P) LTD.	NOIDA
4349.	PANACEA MEDICAL & WELLNESS CENTER	DUBAI
4350.	PANASONIC (I) (P) LTD.	DELHI
4351.	PANASONIC (I) (P) LTD.	GURGAON
4352.	PANASONIC (I) (P) LTD.	JHAJJAR
4353.	PANASONIC (I) (P) LTD.	NOIDA
4354.	PANASONIC AVIONICS CORPORATION	DUBAI
4355.	PANASONIC LIFE SOLUTIONS (I) (P) LTD.	MUMBAI
4356.	PANDIT DEENDAYAL PETROLEUM UNIVERSITY	MUMBAI
4357.	PANDIT DEENDAYAL PETROLEUM UNIVERSITY GA	GANDHINAGAR
4358.	PANGULF TECHNOLOGIES (P) LTD.	THANE
4359.	PANORAMA TELEVISION (P) LTD.(NETWORK18 GR	HYDERABAD
4360.	PANTONE PRINTING AND ADVERTISING	DELHI
4361.	PARADEEP PHOSPHATES LTD.	KOLKATA
4362.	PARAGON POLYMER PRODUCTS (P) LTD.	BANGALORE
4363.	PARALLEL WIRELESS	DELHI
4364.	PARALLEL WIRELESS (I) (P) LTD.	PUNE
4365.	PARAMETRIC TECHNOLOGY CORPORATION	DELHI
4366.	PARAMETRIC TECHNOLOGY CORPORATION	GURGAON
4367.	PARASON MACHINERY	AURANGABAD
4368.	PARASON MACHINERY (I) (P) LTD.	PUNE
4369.	PARASON MACHINERY I (P) LTD.	PUNE
4370.	PAREXEL INTERNATIONAL	BANGALORE
4371.	PAREXEL INTERNATIONAL	HYDERABAD
4372.	PAREXEL INTERNATIONAL (I) (P) LTD.	HYDERABAD
4373.	PARI WASHINGTON CO. ADVISORS (P) LTD.	CHENNAI
4374.	PARIROBOTICS	PUNE
4375.	PARKER HANNIFIN (I) (P) LTD.	BANGALORE
4376.	PARLE GLOBAL TECHNOLOGIES (P) LTD.	MUMBAI
4377.	PARSONS INTERNATIONAL	DUBAI
4378.	PARVATHY ORTHO HOSPITAL (P) LTD.	CHENNAI
4379.	PASCO CORPORATION JAPAN	TOKYO
4380.	PATEL INFRASTRUCTURE LTD.	DELHI
4381.	PATENT OFFICE	MUMBAI
4382.	PATHCARE (P) LTD.	DELHI
4383.	PATHPARTNER TECHNOLOGY	BANGALORE
4384.	PATRIOT SOFTWARE (I) (P) LTD.	PUNE
4385.	PATSPIN (I) LTD.	KOCHI
4386.	PAYPAL	BANGALORE
4387.	PAYPAL	CHENNAI
4388.	PAYPAL (I) (P) LTD.	BANGALORE
4389.	PAYPAL (I) (P) LTD.	CHENNAI
4390.	PAYSENSE	DELHI
4391.	PAYTM PAYMENTS BANK	DELHI
4392.	PAYU INDIA	DELHI
4393.	PBR TECHNOLOGY SRL	ABUDHABI
4394.	PC LAND	TRIVANDRUM
4395.	PCM INC.	DELHI
4396.	PDSC GENERAL HOSPITAL	HYDERABAD

S.No.	ORGANIZATION	LOCATION
4397.	PEARSON (I) EDUCATION SERVICES (P) LTD.	BANGALORE
4398.	PEGA SYSTEMS	HYDERABAD
4399.	PEGASYSTEMS WORLDWIDE (I) (P) LTD.	HYDERABAD
4400.	PELF INFOTECH (P) LTD.	PUNE
4401.	PEMAC PTE LTD.	SINGAPORE
4402.	PENNAR ENGINEERED BUILDING SYSTEMS LTD.	HYDERABAD
4403.	PENNAR INDUSTRIES LTD.	CHENNAI
4404.	PENNAR INDUSTRIES LTD.	HYDERABAD
4405.	PENNSUMMIT TUBULAR ENGINEERING (P) LTD.	DELHI
4406.	PENTA	DOHA
4407.	PENTA GLOBAL ENGINEERING CO. L.L.C	DUBAI
4408.	PENTAIR VALVES & CONTROLS (P) LTD.	PUNE
4409.	PENTAIR WATER (I) (P) LTD.	NOIDA
4410.	PENTANET INFOSYS	DELHI
4411.	PEOPLE INTERACTIVE	MUMBAI
4412.	PEOPLESTRONG	GURGAON
4413.	PEOPLESTRONG HR SERVICES LTD.	DELHI
4414.	PEOPLETECH	HYDERABAD
4415.	PEOPLETREE HOSPITALS	BANGALORE
4416.	PERFECTPAC LTD.	NOIDA
4417.	PERFETTI VAN MELLE (I) (P) LTD.	GURGAON
4418.	PERFETTI VAN MELLE (I) PVT.LTD.	GURGAON
4419.	PERNOD RICARD (I) (P) LTD.	DELHI
4420.	PERSISTENT SYSTEM LTD.	BANGALORE
4421.	PERSISTENT SYSTEM LTD.	GOA
4422.	PERSISTENT SYSTEM LTD.	VERNA
4423.	PERSISTENT SYSTEMS	BANGALORE
4424.	PERSISTENT SYSTEMS (P) LTD.	HYDERABAD
4425.	PERSISTENT SYSTEMS LTD.	HYDERABAD
4426.	PERSISTENT SYSTEMS LTD.	PUNE
4427.	PETROFAC	DELHI
4428.	PETROFAC	PUNE
4429.	PETROFAC EMIRATES	ABUDHABI
4430.	PETROFAC INT. LTD.	DUBAI
4431.	PETROFAC INT. LTD.	KUWAIT
4432.	PETROFAC INTERNATIONAL LLC	SHARJAH
4433.	PETROFAC INTERNATIONAL LTD. (KUWAIT)	KUWAIT
4434.	PETROLEUM DEVELOPMENT OMAN	MUSCAT,OMAN
4435.	PETRON EMIRATES	DUBAI
4436.	PETRON EMIRATES	OMAN
4437.	PETRONAS LUBRICANT INTERNATIONAL (P) LTD.	MUMBAI
4438.	PETRONASH DUBAI	DUBAI
4439.	PFBR BHAVINI	KANCHEEPURAM
4440.	PFIZER	CHENNAI
4441.	PFIZER HEALTHCARE (I) (P) LTD.	CHENNAI
4442.	PFIZER LTD.	GOA
4443.	PHARMAZELL VIZAG (P) LTD.	HYDERABAD
4444.	PHARMAZELL VIZAG (P) LTD.	VISAKHAPATNAM
4445.	PHENIX CONSTRUCTION TECHNOLOGIES	HARIDWAR
4446.	PHENOM PEOPLE (P) LTD.	HYDERABAD
4447.	PHILADELPHIA MIXING SOLUTIONS ASIA (P) LTD.	PUNE
4448.	PHILIPS	BANGALORE
4449.	PHILIPS (I) LTD.	BANGALORE
4450.	PHILIPS (I) LTD.	CARLZEISS
4451.	PHILIPS (I) LTD.	CHENNAI
4452.	PHILIPS (I) LTD.	GURGAON
4453.	PHILIPS (I) LTD.	NOIDA
4454.	PHILIPS (I) LTD.	PUNE
4455.	PHILIPS GLOBAL BUSINESS SERVICES	CHENNAI
4456.	PHILIPS INNOVATION CAMPUS	BANGALORE
4457.	PHILLIPS MACHINE TOOLS (I) (P) LTD.	PUNE
4458.	PHILTEG	HOSUR
4459.	PHOENIX CONTACT MIDDLE EAST FZ LLC	DUBAI
4460.	PHOENIX MEDICAL SYSTEMS (P) LTD.	CHENNAI
4461.	PHOTON INTERACTIVE	CHENNAI
4462.	PHYTEC EMBEDDED (P) LTD.	BANGALORE
4463.	PIAGGIO VEHICLES (P) LTD.	COCHIN
4464.	PIAGGIO VEHICLES (P) LTD.	DELHI
4465.	PIAGGIO VEHICLES (P) LTD.	PUNE
4466.	PICNFRAMES TECHNOLOGIES	CHANDIGARH
4467.	PILKINGTON AUTOMOTIVE (I) LTD.	VISAKHAPATNAM

S.No.	ORGANIZATION	LOCATION
4468.	PINAK INTERNATIONAL	CHENNAI
4469.	PINNACLE HOSPITALS	HYDERABAD
4470.	PINNACLE HOSPITALS	VISAKHAPATNAM
4471.	PIONEER NF FORGINGS (I) (P) LTD.	CHENNAI
4472.	PIONEER ROAD CONSTRUCTION	DUBAI
4473.	PIRAMAL ENTERPRISES	HYDERABAD
4474.	PIRAMAL HEALTHCARE LTD.	CHENNAI
4475.	PIRAMAL SWASTHYA MANAGEMENT AND RESEARCH INSTITUTE	HYDERABAD
4476.	PITNEY BOWES	DELHI
4477.	PITNEY BOWES	NOIDA
4478.	PLAN INDIA	BHUBANESWAR
4479.	PLANARIND ONLINE SERVICES (I) (P) LTD.	BANGALORE
4480.	PLANET EXPRESS INNOVATIONS (P) LTD.	BANGALORE
4481.	PLANIT TESTING (I) (P) LTD.	HYDERABAD
4482.	PLANSEE INDIA	BANGALORE
4483.	PLASTIC OMNIUM AUTO EXTERIORS (I) (P) LTD.	PUNE
4484.	PNASAONIC (I) (P) LTD.	GURGAON
4485.	PNBMETLIFE LTD.	MUMBAI
4486.	POCKET APP	MUMBAI
4487.	POLAKULATH NARAYANAN RENAI MEDICITY	COCHIN
4488.	POLARIS (I) (P) LTD.	BANGALORE
4489.	POLE TO WIN	BANGALORE
4490.	POLESTAR INDUSTRIES	PUNE
4491.	POLESTAR SOLUTIONS AND SERVICES	DELHI
4492.	POLICY BAZAAR	DELHI
4493.	POLICY BAZAAR	GURGAON
4494.	POLICYBAZAAR INSURANCE WEB AGGRGATOR (P) LTD.	DELHI
4495.	POLICYBAZAAR INSURANCE WEB AGGREGATOR (P) LTD.	DELHI
4496.	POLICYBAZAAR.COM	DELHI
4497.	POLMON VESNFER (P) LTD.	HYDERABAD
4498.	POLUS SOFTWARE (P) LTD.	BANGALORE
4499.	POLYCOM INC	HYDERABAD
4500.	POLYPLASTICS INDUSTRIES (I) (P) LTD.	PUNE
4501.	POLYPLASTICS INDUSTRIES (I) (P) LTD.	YAMUNANAGAR
4502.	PONDICHERRY INSTITUTE OF HEALTH SCIENCES	CHENNAI
4503.	PONDICHERRY UNIVERSITY	CHENNAI
4504.	POONA HOSPITAL AND RESEARCH CENTER	PUNE
4505.	PORTESCAP (I) (P) LTD.	MUMBAI
4506.	PORTESCAP INDIA	MUMBAI
4507.	POSCO	MANGAON
4508.	POSITRONIC INTERCONNECTS (P) LTD.	PUNE
4509.	POSOCO LTD.	DELHI
4510.	POTAIN (I) (P) LTD. MANITOWOC CRANE GROUP	PUNE
4511.	POWER SYSTEMS	BANGALORE
4512.	POWERGRID CORPORATION OF (I) LTD.	GURGAON
4513.	POWERLAND AGRO TRACTOR VEHICLES (P) LTD.	GOA
4514.	POZIBILITY TECHNOLOGIES (P) LTD.	BANGALORE
4515.	PPAP AUTOMOTIVE LTD.	NOIDA
4516.	PPG ASIAN PAINTS (P) LTD.	PUNE
4517.	PRADEEP METALS LTD.	MUMBAI
4518.	PRAGATI AUTOMATION (P) LTD.	BANGALORE
4519.	PRAGITI INC.	BANGALORE
4520.	PRAGITI INTERNET TECHNOLOGIES	BANGALORE
4521.	PRAJ INDUSTRIES LTD.	PUNE
4522.	PRAKASH NETRALAYA & RETINA FOUNDATION	DELHI
4523.	PRAMATI TECHNOLOGIES	CHENNAI
4524.	PRAMATI TECHNOLOGIES	HYDERABAD
4525.	PRAMATI TECHNOLOGIES (P) LTD.	HYDERABAD
4526.	PRAMUKHSWAMI MEDICAL COLLEGE	DELHI
4527.	PRANAVA EET	HYDERABAD
4528.	PRARAS BIOSCIENCES (P) LTD.	BANGALORE
4529.	PRAVIN ELECTRICAL (P) LTD.	MUMBAI
4530.	PRAXAIR (I) (P) LTD.	DURGAPUR
4531.	PRECIMETRIX TECHNOLOGIES (P) LTD.	PUNE
4532.	PREETHI HOSPITALS (P)LTD	MADURAI
4533.	PREM AUTO ENTERPRISES SIKANDRA	DELHI
4534.	PREM INDUSTRIES	MYSORE
4535.	PREM TEXTILES INTERNATIONAL (P) LTD.	PUNE
4536.	PREMIER EXPLOSIVES LTD.	HYDERABAD
4537.	PRENETICS INNOVATION LABS	CHENNAI
4538.	PRESTO INFOSOLUTIONS (P) LTD.	BANGALORE

S.No.	ORGANIZATION	LOCATION
4539.	PRICE WATERHOUSE COOPER	BANGALORE
4540.	PRICWATERHOUSE COOPERS	CHENNAI
4541.	PRICWATERHOUSE COOPERS (P) LTD.	KOLKATA
4542.	PRICWATERHOUSECOOPERS	BANGALORE
4543.	PRICWATERHOUSECOOPERS SDC	BANGALORE
4544.	PRICWATERHOUSECOOPERS SERVICE DELIVERY CENTER	BANGALORE
4545.	PRICOL	GURGAON
4546.	PRICOL CORPORATE SERVICES LTD.	CHENNAI
4547.	PRICOL LTD.	CHENNAI
4548.	PRICOL LTD.	COIMBATORE
4549.	PRIJO SKYCAM TECHNOLOGIES PVT. LTD.	CHENNAI
4550.	PRIME 4 INSPECTION LLC	DUBAI
4551.	PRIME FOCUS TECHNOLOGIES	BANGALORE
4552.	PRIME M2I CONSULTING (P) LTD.	FARIDABAD
4553.	PRIMERA MEDICAL TECHNOLOGIES	HYDERABAD
4554.	PRIMETALS TECHNOLOGIES (I) (P) LTD.	KOLKATA
4555.	PRINCIPAL GLOBAL SERVICES	PUNE
4556.	PRINCIPAL GLOBAL SERVICES (P) LTD.	PUNE
4557.	PRIVATE DENTAL CLINIC	GURGAON
4558.	PRIVATE PRACTITIONER	RANCHI
4559.	PRIYA SOFTWEB SOLUTIONS AHMEDABAD	PUNE
4560.	PRO DYNAMICS TECHNOLOGIES LLC	DUBAI
4561.	PRO MINERALS (P) LTD.	KOLKATA
4562.	PROCENTRIS LTD.	MUMBAI
4563.	PROCESSMAP (I) (P) LTD.	HYDERABAD
4564.	PROCESSOR SYSTEMS (I) (P) LTC	BANGALORE
4565.	PROCESSOR SYSTEMS (I) (P) LTD.	BANGALORE
4566.	PROCUBED TECHNOLOGY SOLUTIONS (P) LTD.	BANGALORE
4567.	PRODAPT SOLUTIONS	CHENNAI
4568.	PRODAPT SOLUTIONS (P) LTD.	BANGALORE
4569.	PROEXCEL TECHNOLOGIES (P) LTD.	DELHI
4570.	PROFISOLUTIONS (P) LTD.	CHENNAI
4571.	PROKARMA SOFTECH	HYDERABAD
4572.	PROMAT FIRE PROTECTION	DUBAI
4573.	PROMAT FIRE PROTECTION LLC	DUBAI
4574.	PROMETIC TESTING (P) LTD.	GURGAON
4575.	PRONTO SOFTWARE SOLUTIONS	BANGALORE
4576.	PROPERTYGURU	SINGAPORE
4577.	PROTECH SYSTEMS (P) LTD.	DELHI
4578.	PROTEGO MIDDLE EAST	DUBAI
4579.	PROTOCOL SYSTEMS SDN BHD	PETALINGJAYA
4580.	PROTON METALCRAFTS (P) LTD.	PUNE
4581.	PROWARENESS	BANGALORE
4582.	PRUTECH SOLUTIONS (I) (P) LTD.	HYDERABAD
4583.	P-SERVE PTE LTD.	SINGAPORE
4584.	PSG HOSPITALS	COIMBATORE
4585.	PSPR 3D PROSTHETICS (P) LTD.	HYDERABAD
4586.	PT.JNMMC RAIPUR	RAIPUR
4587.	PUBLICIS SAPIENT	BANGALORE
4588.	PUBLICIS SAPIENT	DELHI
4589.	PUBMATIC (I) LTD.	PUNE
4590.	PUNJ LLOYD LTD.	BHIND
4591.	PUNJAB STATE POWER CORPORATION	DELHI
4592.	PURE SOFTWARE	DELHI
4593.	PURESFTWARE	NOIDA
4594.	PURESFTWARE (P) LTD.	DELHI
4595.	PURETRAININGS SOFTWARE (P) LTD.	NOIDA
4596.	PURPLETALK (I) (P) LTD.	HYDERABAD
4597.	PURSHOTAM ENGG INDUSTRIES	BANGALORE
4598.	PUZZOLANA MACHINERY FABRICATORS (HYDERAB	HYDERABAD
4599.	PWC (VISION TECHNOLOGIES)	DELHI
4600.	PWC SDC	BANGALORE
4601.	PWD B&R	DELHI
4602.	PYOME INFRA SOLUTIONS	BANGALORE
4603.	PYRAMID ENGINEERING	MUMBAI
4604.	PYRO NETWORKS (P) LTD. .	HYDERABAD
4605.	PYRODYNAMICS	BANGALORE
4606.	Q M COMPUTECH (P) LTD.	NAGPUR
4607.	Q3 INFOTECH (P) LTD.	DELHI
4608.	QA INFOTECH	NOIDA
4609.	QA INFOTECH SOFTWARE SERVICES (P) LTD.	DELHI

S.No.	ORGANIZATION	LOCATION
4610.	QATAR AIRWAYS	QATAR
4611.	QATAR ALUMINIUM	DOHA
4612.	QATAR ALUMINIUM CO LTD.	DOHA
4613.	QATAR ALUMINIUM CO LTD.	QATAR
4614.	QATAR AMIRI FLIGHT	DOHA
4615.	QATAR CHEMICAL CO. LTD.	CHENNAI
4616.	QATAR CHEMICAL CO. LTD.	HYDERABAD
4617.	QATAR CHEMICAL COMPANY	DOHA
4618.	QATAR CHEMICAL COMPANY	MUMBAI
4619.	QATAR CHEMICAL COMPANY	QATAR
4620.	QATAR CHEMICAL COMPANY	STATEOFQATAR
4621.	QATAR COOL DISTRICT COOLING	DOHA
4622.	QATAR ENGINEERING & CONSTRUCTION CO WLL	DOHA
4623.	QATAR ENGINEERING AND CONSTRUCTION CO. W.L.L	QATAR
4624.	QATAR ENGINEERING AND CONSTRUCTION CO. WLL	BANGALORE
4625.	QATAR FERTILIZER COMPANY	QATAR
4626.	QATAR FOUNDATION	QATAR
4627.	QATAR GAS	QATAR
4628.	QATAR GAS CO. LTD.	CHENNAI
4629.	QATAR GENERAL ELECTRICITY & WATER CORPOR	QATAR
4630.	QATAR POWER COMPANY	DOHA
4631.	QATAR SHELL GTL- QATAR	DOHA
4632.	QATARGAS OPERATING CO. LTD.	QATAR
4633.	QBURST TECHNOLOGIES	BANGALORE
4634.	QBURST TECHNOLOGIES (P) LTD.	SINGAPORE
4635.	QD-SBG CONSTRUCTION	CHENNAI
4636.	QD-SBG CONSTRUCTION	QATAR
4637.	QED GROUP LLC	DELHI
4638.	QI SPINE CLINIC	DELHI
4639.	QISH MEDICAL	COIMBATORE
4640.	QISPINE CLINIC KARKARDOOMA	DELHI
4641.	QLIQIT GLOBAL SOLUTIONS (P) LTD.	CHENNAI
4642.	QRUIZE TECHNOLOGIES (P) LTD.	CHENNAI
4643.	Q-TEC SWITCHGEAR W.L.L.	QATAR
4644.	QUADRANT 4 SOFTWARE SOLUTIONS (P) LI	CHENNAI
4645.	QUADRANT EPP SURLON (I) LTD.	GHAZIABAD
4646.	QUADRATYX	HYDERABAD
4647.	QUAKER CHEMICAL (I) (P) LTD.	PUNE
4648.	QUALCOMM	BANGALORE
4649.	QUALCOMM	HYDERABAD
4650.	QUALCOMM	NOIDA
4651.	QUALCOMM	SINGAPORE
4652.	QUALCOMM (I) (P) LTD.	BANGALORE
4653.	QUALCOMM (I) (P) LTD.	CHENNAI
4654.	QUALCOMM (I) PVT.LTD	BANGALORE
4655.	QUALCOMM (P) LTD.	BANGALORE
4656.	QUALCOMM INDIA	BANGALORE
4657.	QUALITEST (I) (P) LTD.	BANGALORE
4658.	QUALITY COUNCIL OF INDIA	DELHI
4659.	QUANT GULF EQUIPMENT & MAINTENANCE LLC	DUBAI
4660.	QUANTAFIC BUSINESS SOLUTION	KOLKATA
4661.	QUANTELA	HYDERABAD
4662.	QUANTELA PTE LTD.	HYDERABAD
4663.	QUATRRO INC	GURGAON
4664.	QUATRRO PROCESSING SERVICES (P) LTD.	CHENNAI
4665.	QUESS CORP/ DEPUTED TO CATERPILLAR	CHENNAI
4666.	QUEST GLOBAL	BANGALORE
4667.	QUEST GLOBAL	BELAGAVI
4668.	QUEST GLOBAL	BELGAUM
4669.	QUEST GLOBAL	SINGAPORE
4670.	QUEST GLOBAL	TRIVANDRUM
4671.	QUEST GLOBAL	YOKOHAMA
4672.	QUEST GLOBAL ENGINEERING SERVICES (P) LTD.	CHENNAI
4673.	QUEST GLOBAL ENGINEERING SERVICES PVT.LTD	BANGALORE
4674.	QUICK RAYS (P) LTD.	DELHI
4675.	QUIKR (I) (P) LTD.	BANGALORE
4676.	QUIKR (I) (P) LTD.	PUNE
4677.	QUINTILES IMS	BANGALORE
4678.	QUINTILESIMS RESEARCH	BANGALORE
4679.	QUINTILESIMS RESEARCH (I) (P) LTD.	BANGALORE
4680.	QUIPP VALUERS AND AUCTIONEERS (P) LTD.	KOLKATA

S.No.	ORGANIZATION	LOCATION
4681.	QUITYPE TECHNOLOGIES	BANGALORE
4682.	QVANTEL SOFTWARE SOLUTION LTD.	HYDERABAD
4683.	QWIKCILVER SOLUTIONS LTD.	BANGALORE
4684.	R SYSTEMS INTERNATIONAL	BANGALORE
4685.	R V SOLUTIONS (P) LTD.	NOIDA
4686.	R.P.TECHSOFT INTERNATIONAL (P) LTD.	TRIVANDRUM
4687.	R.S. ENGINEERING	CHENNAI
4688.	RAAD SYSTEMS (P) LTD.	BANGALORE
4689.	RADHAKRISHNA FOODLAND (P) LTD.	DELHI
4690.	RADHARANI RAIL ENGINEERING SYSTEM (P) LTD.	BANGALORE
4691.	RADISYS (I) (P) LTD.	BANGALORE
4692.	RADISYS INDIA	BANGALORE
4693.	RADIUS DEVELOPERS	MUMBAI
4694.	RADIX MICROSYSTEMS	HYDERABAD
4695.	RAGHAVA LIFE SCIENCES PVT.LTD	HYDERABAD
4696.	RAGHWENDRA WEB SERVICES	KOLKATA
4697.	RAILTEL CORPORATION OF (I) LTD.	KOLKATA
4698.	RAISING STAT MOBILE (I) (P) LTD.	CHENNAI
4699.	RAJA RAMANNA CENTRE FOR ADVANCED TECHNOL	INDORE
4700.	RAJA SOFTWARE LABS	PUNE
4701.	RAJASHREE CEMENT WORKS ULTRATECH CEMENT LTD.	HYDERABAD
4702.	RAJASTHAN STATE MINES AND MINERALS LTD.	UDAIPUR
4703.	RAJIV GANDHI CANCER INSTITUTE & RESEARCH CENTRE	DELHI
4704.	RAJIV GANDHI CANCER INSTITUTE AND RESEARCH CENTRE	DELHI
4705.	RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES	HYDERABAD
4706.	RAJSRIYA AUTOMOTIVE INDUSTRIES (P) LTD.	BANGALORE
4707.	RAJSRIYA AUTOMOTIVE INDUSTRIES P LTD.	BANGALORE
4708.	RAKMHSU	UAE
4709.	RAKON (I) (P) LTD.	BANGALORE
4710.	RAKUTEN	BANGALORE
4711.	RAKUTEN (I) (P) LTD.	BANGALORE
4712.	RAKUTEN INDIA	BANGALORE
4713.	RAMAN RESEARCH INSTITUTE	BANGALORE
4714.	RAMBOLL (I) (P) LTD.	DELHI
4715.	RAMBOLL (I) (P) LTD.	HYDERABAD
4716.	RAMBUS CHIP TECHNOLOGIES (I) PRIVATE	BANGALORE
4717.	RAMBUS CHIP TECHNOLOGIES(INDIA) PRIVATE	BANGALORE
4718.	RAMCO STEELS (P) LTD.	DELHI
4719.	RAMCO SYSTEMS	CHENNAI
4720.	RAMCO SYSTEMS LTD.	CHENNAI
4721.	RAMESH CARDIAC & MULTI SPECIALITY HOSPIT	HYDERABAD
4722.	RAMKRISHNA FORGINGS LTD.	JAMSHEDPUR
4723.	RAMTECH MANUFACTURING INDUSTRIES	HYDERABAD
4724.	RAMYAM INTELLIGENCE LAB (PART OF ARVATO)	BANGALORE
4725.	RANDSTAD (I) (P) LTD.	BANGALORE
4726.	RANE (MADRAS) LTD.	CHENNAI
4727.	RANE (MADRAS) LTD. DIECASTING DIVISION	TELANGANA
4728.	RANE BRAKE LINING LTD.	CHENNAI
4729.	RANE BRAKE LINING LTD.	TRICHIRAPPALI
4730.	RANE BRAKE LINING LTD.	TRICHY
4731.	RANE ENGINE VALVE LTD.	CHENNAI
4732.	RANE ENGINE VALVE LTD. COMPANY	CHENNAI
4733.	RANE MADRAS LTD.	CHENNAI
4734.	RANE MADRAS LTD.	PUDUCHERRY
4735.	RANE NSK STEERING SYSTEM (P) LTD.	BAWAL
4736.	RANE NSK STEERING SYSTEM (P) LTD.	CHENNAI
4737.	RANE NSK STEERING SYSTEM (P) LTD.	DELHI
4738.	RANE NSK STEERING SYSTEM (P) LTD.	GURGAON
4739.	RANE NSK STEERING SYSTEM PVT.LTD.	DELHI
4740.	RANE NSK STEERING SYSTEMS (P) LTD.	DELHI
4741.	RANE TRW STEERING SYSTEM PVT.LTD	CHENNAI
4742.	RANE TRW STEERING SYSTEMS (P) LTD.	CHENNAI
4743.	RANE TRW STEERING SYSTEMS (P) LTD.	TRICHY
4744.	RAQMIYAT INFORMATION TECHNOLOGY PRIVATE	CHENNAI
4745.	RAQMIYAT LLC	DUBAI
4746.	RARE SOLUTIONS (P) LTD.	HYDERABAD
4747.	RAREFIELD ENGINEERS (P) LTD.	CHENNAI
4748.	RASHTRIYA CHEMICALS & FERTILIZERS LTD.	KOLKATA
4749.	RASOFT CONSULTNG SERVICES	HYDERABAD
4750.	RAVE TECHNOLOGIES	MUMBAI
4751.	RAYCHEM RPG P. LTD.	VADODARA

S.No.	ORGANIZATION	LOCATION
4752.	RAYON 3D	HYDERABAD
4753.	RBS SERVICES (I) (P) LTD.	BANGALORE
4754.	RBS SERVICES (I) (P) LTD.	CHENNAI
4755.	RBS SERVICES (I) (P) LTD.	DELHI
4756.	RBS SERVICES (I) (P) LTD.	GURGAON
4757.	RCI DRDO	HYDERABAD
4758.	RCV INNOVATIONS	HYDERABAD
4759.	RDT HOSPITAL	BATHALAPALLI
4760.	REACH EMPLOYMENT SERVICES	DUBAI
4761.	READYMIX CONSTRUCTION MACHINERY (P) LTD.	PUNE
4762.	REALPAGEINDIA	HYDERABAD
4763.	REALTY AUTOMATION & SECURITY SYSTEMS PVT	PUNE
4764.	REC POWER DISTRIBUTION CO. LTD.	GOA
4765.	REC-PDCL NOIDA ON PAYROLL OF T&M (P) LTD. MUMBAI	DELHI
4766.	RED HAT	BANGALORE
4767.	RED HAT	PUNE
4768.	RED PLANET CONSULTING	CHENNAI
4769.	REDGRAPE BUSINESS SERVICES	CHENNAI
4770.	REDMART (I) (P) LTD.	BANGALORE
4771.	REDPINE SIGNALS	HYDERABAD
4772.	REFINITIV	BANGALORE
4773.	REGEN POWERTECH (P) LTD.	CHENNAI
4774.	REGENT RESEARCH WRITING	BANGALORE
4775.	REGULATORY AFFAIRS	MUMBAI
4776.	RELIABLE INDUSTRIES	CHENNAI
4777.	RELIANCE	MUMBAI
4778.	RELIANCE CORPORATE IT PARK LTD.	AHMEDABAD
4779.	RELIANCE DEFENCE LTD.	NAGPUR
4780.	RELIANCE FOUNDATION	MUMBAI
4781.	RELIANCE GENERAL INSURANCE CO LTD.	HYDERABAD
4782.	RELIANCE GLOBAL CORPORATE SECURITY	MUMBAI
4783.	RELIANCE INDUSTRIES LTD.	JAMNAGAR
4784.	RELIANCE INDUSTRIES LTD.	MUMBAI
4785.	RELIANCE INDUSTRIES LTD.	VADODARA
4786.	RELIANCE INFRASTRUCTURE LTD.	DELHI
4787.	RELIANCE INFRASTRUCTURE LTD.	MUMBAI
4788.	RELIANCE JIO (RELIANCE INFOCOMM)	GHANSOLI
4789.	RELIANCE JIO (RELIANCE INFOCOMM)	GOA
4790.	RELIANCE JIO (RELIANCE INFOCOMM)	JAIPUR
4791.	RELIANCE JIO INFOCOM	DELHI
4792.	RELIANCE JIO INFOCOMM LTD.	HYDERABAD
4793.	RELIANCE JIO INFOCOMM LTD.	PUNE
4794.	RELIANCE RETAIL	MUMBAI
4795.	RELIANCE RETAIL LTD.	MUMBAI
4796.	RELISYS MEDICAL DEVICES LTD.	HYDERABAD
4797.	RELX (I) (P) LTD.(ELSEVIER)	GURGAON
4798.	REMITWARE PAYMENTS	MUMBAI
4799.	RENAULT NISSAN	CHENNAI
4800.	RENAULT NISSAN (RNTBCI)	CHENNAI
4801.	RENAULT NISSAN AUTOMATIVE (I) (P) LTD.	CHENNAI
4802.	RENAULT NISSAN AUTOMATIVE (I) (P) LTD.	KANCHEEPURAM
4803.	RENAULT NISSAN BUSINESS CENTRE (I) (P) LTD.	CHENNAI
4804.	RENAULT NISSAN TECH. BUSINESS CENTRE (I) (P) LT	CHENNAI
4805.	RENAULT NISSAN TECHNOLOGY & BUSINESS CENTRE INDIA	CHENGALPET
4806.	RENAULT NISSAN TECHNOLOGY & BUSINESS CENTRE INDIA	CHENNAI
4807.	RENAULT NISSAN TECHNOLOGY & BUSINESS CENTRE INDIA	KANCHEEPURAM
4808.	RENAULT NISSAN TECHNOLOGY & BUSINESS CENTRE INDIA	PUNE
4809.	RENAULT NISSAN TECHNOLOGY AND BUSINESS CENTER	BANGALORE
4810.	RENAULT NISSAN TECHNOLOGY AND BUSINESS CENTER	CHENNAI
4811.	RENAULT NISSAN TECHNOLOGY AND BUSINESS CENTER IND	CHENNAI
4812.	RENAULT NISSAN TECHNOLOGY AND BUSINESS CENTRE	CHENNAI
4813.	RENAULT NISSAN TECHNOLOGY AND BUSSINESS CENTER	CHENNAI
4814.	RENAULT NISSAN TECHNOLOGY BUSINESS CENTRE INDIA	CHENNAI
4815.	RENAULT NISSAN TECHNOLOGY& BUSSINESS CENTRE (P) LT	CHENNAI
4816.	RENAULT NISSAN TECHNOLOGY&BUSINESS CENTRE (I) PV	CHENNAI
4817.	RENAULT-NISSAN	CHENNAI
4818.	RENEW POWER LIMITED	GURGAON
4819.	RENISHAW METROLOGY SYSTEMS	PUNE
4820.	RENOM ENERGY SERVICES LLP	MUMBAI
4821.	RESEARCH CENTER IMARAT	HYDERABAD
4822.	RESEARCH LAKE INNOVATION LABS (P) LTD.	HYDERABAD

S.No.	ORGANIZATION	LOCATION
4823.	RESERVE BANK OF INDIA	MUMBAI
4824.	RESILIENT LAB (P) LTD.	MUMBAI
4825.	REWA STABILIZERS & LUBRICANTS (P) LTD.	MUMBAI
4826.	REXNORD EUROFLEX	HYDERABAD
4827.	RGUKT BASAR	BASAR
4828.	RHYTHM LABS (P) LTD.	BANGALORE
4829.	RICARDO (I) (P) LTD.	DELHI
4830.	RICO AUTO INDUSTRIES	DELHI
4831.	RICOH (I) LTD.	AHMEDABAD
4832.	RIEKE PACKAGING SYSTEMS	NOIDA
4833.	RIETER (I) (P) LTD.	PUNE
4834.	RIIS TRADING (I) (P) LTD.	PUNE
4835.	RIMINI STREET (I) (P) LTD.	HYDERABAD
4836.	RIOT LABZ PVT.LTD.	NOIDA
4837.	RISE HOSPITAL	HYDERABAD
4838.	RISHITH'S DENTAL CARE CENTRE	BANGALORE
4839.	RISING STAR MOBILE (I) (P) LTD.	SRICITY,TADA
4840.	RIVER BUSINESS SOLUTIONS (P) LTD.	BANGALORE
4841.	RIVERBED TECHNOLOGY	BANGALORE
4842.	RIVERBED TECHNOLOGY (I) (P) LTD.	BANGALORE
4843.	RIVIGO SERVICES PVT	CHENNAI
4844.	RLE (I) MANUFACTURING ENGINEERING (P) LTD.	BANGALORE
4845.	RNTBCI	CHENNAI
4846.	ROADS AND TRANSPORT AUTHORITY	DUBAI
4847.	ROBERT BOSCH	BANGALORE
4848.	ROBERT BOSCH	COIMBATORE
4849.	ROBERT BOSCH AUTOMOTIVE ELECTRONICS (I) PV	BANGALORE
4850.	ROBERT BOSCH AUTOMOTIVE ELECTRONICS (I) PV	PUNE
4851.	ROBERT BOSCH BUSINESS AND ENGINEERING SO	BANGALORE
4852.	ROBERT BOSCH ENGG AND BUSINESS SOLUTIONS (P) LTD.	BANGALORE
4853.	ROBERT BOSCH ENGINEEIRNG AND BUSINESS SOLUTIONS	BANGALORE
4854.	ROBERT BOSCH ENGINEEIRNG AND BUSINESS SOLUTIONS	COIMBATORE
4855.	ROBERT BOSCH ENGINEERING & BUSINESS SOLUTIONS	BANGALORE
4856.	ROBERT BOSCH ENGINEERING & BUSINESS SOLUTIONS LTD.	BANGALORE
4857.	ROBERT BOSCH ENGINEERING & BUSINESS SOLUTIONS PVT	BANGALORE
4858.	ROBERT BOSCH ENGINEERING & BUSINESS SOLUTIONS PVT	COIMBATORE
4859.	ROBERT BOSCH ENGINEERING & BUSSINESS SOLUTION LTD.	BANGALORE
4860.	ROBERT BOSCH ENGINEERING AND BUSINESS SOLUTION	BANGALORE
4861.	ROBERT BOSCH ENGINEERING AND BUSINESS SOLUTION LTD.	BANGALORE
4862.	ROBERT BOSCH ENGINEERING AND BUSINESS SOLUTIONS	BANGALORE
4863.	ROBERT BOSCH ENGINEERING AND BUSINESS SOLUTIONS	COIMBATORE
4864.	ROBERT BOSCH ENGINEERING INDIA	COIMBATORE
4865.	ROBERT BOSCH(HCL PAYROLL)	COIMBATORE
4866.	ROBIN SYSTEMS	BANGALORE
4867.	ROBOTECH LABS (P) LTD.	DELHI
4868.	ROBOTIC AUTOMATION AND DESIGN	BANGALORE
4869.	ROCA BATHROOM PRODUCTS (P) LTD.	BHIWADI
4870.	ROCKET SOFTWARE	PUNE
4871.	ROCKETFLYER TECHNOLOGY (P) LTD.	GURGAON
4872.	ROCKMAN INDUSTRIES LTD.	DELHI
4873.	ROCKWELL COLLINS	HYDERABAD
4874.	ROHDE & SCHWARZ (I) (P) LTD.	HYDERABAD
4875.	ROKI R&D (I) (P) LTD.	DELHI
4876.	ROLLS ROYCE	BANGALORE
4877.	ROLLS ROYCE (I) (P) LIMITED	BANGALORE
4878.	ROLLS ROYCE (I) (P) LTD.	BANGALORE
4879.	ROLLS ROYCE POWER SYSTEM AG (MTU) (I) P	PUNE
4880.	ROLLS-ROYCE (I) (P) LTD.	BANGALORE
4881.	ROLTA INDIA	DELHI
4882.	ROMERT BOSCH ENGINEERING AND SOLUTION LI	BANGALORE
4883.	ROOM TO READ	DELHI
4884.	ROOTS INDUSTRIES (I) LTD.(HORN DIVISION)	COIMBATORE
4885.	ROSSELL TECH SYS	BANGALORE
4886.	ROSSELL TECHSYS	BANGALORE
4887.	ROSSELL TECHSYS	BELAGAVI
4888.	ROTORK CONTROL (I) (P) LTD.	CHENNAI
4889.	ROULUND BRAKING INDIA	DELHI
4890.	ROURKELA STEEL PLANT STEEL AUTHORITY OF	ROURKELA
4891.	ROYAL BANK OF SCOTLAND	CHENNAI
4892.	ROYAL BANK OF SCOTLAND	GURGAON
4893.	ROYAL CARE HOSPITAL	COIMBATORE

S.No.	ORGANIZATION	LOCATION
4894.	ROYAL DUYPCH SHELL	BANGALORE
4895.	ROYAL ENFIELD	CHENNAI
4896.	ROYAL ENFIELD	DELHI
4897.	ROYAL ENFIELD MOTORS	CHENNAI
4898.	ROYOTA ENGINEERING SOLUTIONS PVT.LTD	BANGALORE
4899.	ROYOTA ENGINEERING SOLUTUIONS PVT.LTD	BANGALORE
4900.	RPG LIFE SCIENCES LTD.	MUMBAI
4901.	RSAM TECHNOLOGIES INDIA	BANGALORE
4902.	RSB PHARMA (P) LTD.	DELHI
4903.	RSB TRANSMISSIONS (I) LTD.	PUNE
4904.	RT VISION TECHNOLOGIES (P) LTD.	NOIDA
4905.	RTP CONTROLS (I) (P) LTD.	BANGALORE
4906.	RUBY HALL CLINIC	PUNE
4907.	RUD (I) CHAIN (P) LTD.THANE	THANE
4908.	RUHSA DEPARTMENT CMC VELLORE	CHENNAI
4909.	RURAL DEVELOPMENT DEPARTMENT BIHAR	BIHAR
4910.	RV MATRIX SOFTWARE TECHNOLOGIES (P) LTD.	BANGALORE
4911.	RX EXPRESS PHARMACY	BANGALORE
4912.	RYNA TECHNOLOGIES (P) LTD.	HYDERABAD
4913.	RYPE ONLINE SERVICES (P) LTD.	HYDERABAD
4914.	S MOBILE DEVICES LTD.	DELHI
4915.	S N PANDIT AYURVEDIC CO (P) LTD.	BANGALORE
4916.	S S ENTERPRISES	PUNE
4917.	S&P GLOBAL RATINGS	HYDERABAD
4918.	S. NARENDRAKUMAR & CO	MUMBAI
4919.	S.S.CONTROLS	AURANGABAD
4920.	S.VE.J ASSOCIATES	COIMBATORE
4921.	SAAB ENGINEERING	BANGALORE
4922.	SAAMA TECHNOLOGIES	PUNE
4923.	SAAZ IMAGING SYSTEMS (P) LTD.	HYDERABAD
4924.	SABMILLER (I) LTD.	SONIPAT
4925.	SABRE TRAVEL TECHNOLOGIES	BANGALORE
4926.	SABRE TRAVEL TECHNOLOGIES (P) LTD.	BANGALORE
4927.	SACHA ENGINEERING (P) LTD.	CHENNAI
4928.	SADEKAR ENVIRO ENG (P) LTD.	PANAJI
4929.	SAEZAROBOTICS	DELHI
4930.	SAFAL ENT HOSPITAL	SURAT
4931.	SAFE KIDS HOSPITAL	RAJGARH
4932.	SAFENET(A GEMALTO SUBSIDIARY)	GEMALTO
4933.	SAFRAN ENGINEERING SERVICES	BANGALORE
4934.	SAGA LABORATORIES LTD.	MUMBAI
4935.	SAGAR ASIA (P) LTD.	HYDERABAD
4936.	SAHARA ENGINEERING	COIMBATORE
4937.	SAHARA PETROCHEMICAL COMPANY	ABUDHABI
4938.	SAI LIFE SCIENCES	HYDERABAD
4939.	SAI STANDARDS SERVICES	CHENNAI
4940.	SAIL POINT TECHNOLOGIES (I) (P) LTD.	PUNE
4941.	SAIL/DSP	DURGAPUR
4942.	SAINT GOBAIN (I) (P) LTD.	CHENNAI
4943.	SAINT GOBAIN GLASS (I) (P) LTD.	BHIWADI
4944.	SAINT GOBAIN GLASS (I) (P) LTD.	CHENNAI
4945.	SAINT-GOBAIN	CHENNAI
4946.	SAINT-GOBAIN (I) (P) LTD.	BANGALORE
4947.	SAIPEM (I) PROJECTS (P) LTD.	CHENNAI
4948.	SAIPEM SNAMPROGETTI	DAMMAM
4949.	SAKAE RIKEN POLYPLASTICS (I) PVT.LTD.	BAWAL
4950.	SAKRA WORLD HOSPITAL	BANGALORE
4951.	SAKSOFT (P) LTD.	CHENNAI
4952.	SAKSOFT LTD.	PUNE
4953.	SAKTHI AUTOMOBILES	CHENNAI
4954.	SALCOMP MANUFACTURING (I) (P) LIMI	CHENNAI
4955.	SALCOMP MANUFACTURING (I) (P) LTD.	CHENNAI
4956.	SALESFORCE	HYDERABAD
4957.	SALESFORCE (I) (P) LTD.	HYDERABAD
4958.	SALINI IMPREGILO S.P.A.	DOHA
4959.	SAMSUNG (I) (P) LTD.	GURGAON
4960.	SAMSUNG (I) ELECTRONICS	KOLKATA
4961.	SAMSUNG (I) ELECTRONICS (P) LTD.	DELHI
4962.	SAMSUNG (I) ELECTRONICS (P) LTD.	MUMBAI
4963.	SAMSUNG (I) ELECTRONICS (P) LTD.	NOIDA
4964.	SAMSUNG ENGINEERING (I) (P) LTD.	DELHI

S.No.	ORGANIZATION	LOCATION
4965.	SAMSUNG R & D INSTITUTE INDIA	BANGALORE
4966.	SAMSUNG R&D INSTITUTE	BANGALORE
4967.	SAMSUNG R&D INSTITUTE	DELHI
4968.	SAMSUNG R&D INSTITUTE	NOIDA
4969.	SAMSUNG RESEARCH INSTITUTE NOIDA	DELHI
4970.	SAMSUNG RESEARCH INSTITUTE NOIDA	HYDERABAD
4971.	SAMSUNG RIB	BANGALORE
4972.	SAMSUNG SEMICONDUCTOR (I) R & D CENTER	BANGALORE
4973.	SAMVARDHANA MOTHERSON REFLECTEC	DELHI
4974.	SAMYAK ANALYTICS	PUNE
4975.	SAN AND SAN AUTO (P) LTD.	PUNE
4976.	SAN TECHNOLOGIES (P) LTD.	HYDERABAD
4977.	SANAKALP SEMICONDUCTOR (P) LTD.	BANGALORE
4978.	SANATHAN TEXTILE	MUMBAI
4979.	SANDEN VIKAS (I) (P) LTD.	FARIDABAD
4980.	SANDISK (I) DEVICE DESIGN CENTRE (P) LTD.	BANGALORE
4981.	SANDVIK AB	PUNE
4982.	SANDVIK ASIA (P) LTD.	BANGALORE
4983.	SANDVIK ASIA (P) LTD.	CHENNAI
4984.	SANDVIK ASIA (P) LTD.	KOLKATA
4985.	SANDVIK ASIA (P) LTD.	NAGPUR
4986.	SANDVIK ASIA (P) LTD.	PUNE
4987.	SANDVINE TECHNOLOGIES (I) (P) LTD.	BANGALORE
4988.	SANKALP SEMICONDUCTOR	GOA
4989.	SANKALP SEMICONDUCTOR (P) LTD.	BANGALORE
4990.	SANKALP SEMICONDUCTOR (P) LTD.	GOA
4991.	SANKALP SEMICONDUCTORS PVT.LTD	BANGALORE
4992.	SANKALPA AUTOMATION AND CONTROL	PUNE
4993.	SANMAR SPECIALITY CHEMICALS LTD.	HOSUR
4994.	SANMINA-SCI TECHNOLOGY (I) (P) LT	CHENNAI
4995.	SANOFI (I) LTD.	GOA
4996.	SANOFI PASTEUR	MUMBAI
4997.	SANRIA ENGINEERING & CONSULTANTS	MYSORE
4998.	SANSERA ENGINEERING	BANGALORE
4999.	SANT PARMANAND HOSPITAL	DELHI
5000.	SANTECH TECHNOSOFT (P) LTD.	GURGAON
5001.	SANTRES ENGINEERING (P) LTD.	CHENNAI
5002.	SANY HEAVY EQUIPMENT INDUSTRY (I) PVT.	PUNE
5003.	SANY HEAVY INDUSTRY (I) (P) LTD.	PUNE
5004.	SAP (I) (P) LTD.	BANGALORE
5005.	SAP ARIBA	BANGALORE
5006.	SAP LABS (I) (P) LTD.	BANGALORE
5007.	SAP LABS (I) (P) LTD.	DELHI
5008.	SAP LABS (I) (P) LTD.	GURGAON
5009.	SAP LABS (I) (P) LTD.	HYDERABAD
5010.	SAP LABS (I) (P) LTD.	NOIDA
5011.	SAP LABS (I) (P) LTD.	PUNE
5012.	SAP LABS (I) PVT.LTD	BANGALORE
5013.	SAPIENS TECHNOLOGY	CHENNAI
5014.	SAPIENT CONSULTING (P) LTD.	BANGALORE
5015.	SAPIENT CONSULTING (P) LTD.	DELHI
5016.	SAPIENT CONSULTING (P) LTD.	GURGAON
5017.	SAPIENT CONSULTUNG (P) LTD.	DELHI
5018.	SAPPPIO CONSULTANCY SERVICES (P) LTD.	KOCHI
5019.	SARASWATHI HOSPITAL	COIMBATORE
5020.	SARK INDUSTRIES	DELHI
5021.	SAROOJ CONSTRUCTION CO. OMAN	DELHI
5022.	SARVESHWARI TECHNOLOGIES LTD.	HYDERABAD
5023.	SAS INTERNATIONAL MARINE SERVICES LLC	DUBAI
5024.	SAS RESEARCH AND DEVELOPMENT (P) LTD.	PUNE
5025.	SASKEN TECHNOLOGIES LTD.	BANGALORE
5026.	SASKEN TECHNOLOGIES LTD.	CHENNAI
5027.	SASKEN TECHNOLOGIES LTD.	HYDERABAD
5028.	SASKEN TECHNOLOGIES LTD.	PUNE
5029.	SATHSANKALPA SOFT SOLUTIONS (P) LTD.D	HYDERABAD
5030.	SATHYA DENTAL CLINIC	BITSPILANI
5031.	SATISH EYE HOSPITAL	CHENNAI
5032.	SATVEN ENGG SERVICES- FORD TECHNOLOGY SE	CHENNAI
5033.	SATYAM AUTO COMPONENT (P) LTD.	DELHI
5034.	SATYAM COMPUTERS SERVICE LTD.	BANGALORE
5035.	SATYAM VENTURE ENGINEERING SERVICES	BANGALORE

S.No.	ORGANIZATION	LOCATION
5036.	SATYAM VENTURE ENGINEERING SERVICES	CHENNAI
5037.	SATYAM VENTURE ENGINEERING SERVICES	HYDERABAD
5038.	SATYAM VENTURE ENGINEERING SERVICES (P) LTD.	CHENNAI
5039.	SAUDI ARABIA PETROCHEMICAL COMPANY	SAUDIARABIA
5040.	SAUDI ARAMCO BASE OIL CO. - LUBEREF	JEDDAH
5041.	SAUDI ARAMCO/GIS/GTC	DUBAI
5042.	SAUDI INVESTMENT BANK	CHENNAI
5043.	SAUDI NATIONAL CONTRACTING CO. LLC	MUSCAT,OMAN
5044.	SAUDI POWER TRANSFORMER COMPANY	DAMMAM
5045.	SAVEETHA MEDICAL COLLEGE	CHENNAI
5046.	SAVIC TEHNOLOGIES (P) LTD.	CHENNAI
5047.	SAYEE HOSPITALS	CHENNAI
5048.	SCARLET ENTERPRISES	PUNE
5049.	SCHAEFFLER (I) LTD.	BANGALORE
5050.	SCHAEFFLER (I) LTD.	MUMBAI
5051.	SCHAEFFLER (I) LTD.	PUNE
5052.	SCHEMATIC ENGINEERING INDUSTRIES	HYDERABAD
5053.	SCHEMAZEN TECHNOLOGIES (P) LTD.	BANGALORE
5054.	SCHINDLER (I) (P) LTD.	HYDERABAD
5055.	SCHINDLER (I) (P) LTD.	PUNE
5056.	SCHINDLER CR&D (I) (P) LTD.	PUNE
5057.	SCHLUMBERGER	COIMBATORE
5058.	SCHLUMBERGER (I) TECHNOLOGY CENTER (P) LTD.	COIMBATORE
5059.	SCHLUMBERGER (I) TECHNOLOGY CENTER (P) LTD.	PUNE
5060.	SCHNEIDER ELECTRIC	BANGALORE
5061.	SCHNEIDER ELECTRIC	COIMBATORE
5062.	SCHNEIDER ELECTRIC	DUBAI
5063.	SCHNEIDER ELECTRIC (I) (P) LTD.	BANGALORE
5064.	SCHNEIDER ELECTRIC (I) (P) LTD.	CHENNAI
5065.	SCHNEIDER ELECTRIC (I) (P) LTD.	DUBAI
5066.	SCHNEIDER ELECTRIC (I) (P) LTD.	HYDERABAD
5067.	SCHNEIDER ELECTRIC (I) (P) LTD.	VADODARA
5068.	SCHNEIDER ELECTRIC (P) LTD.	BANGALORE
5069.	SCHNEIDER ELECTRIC INFRASTRUCTURE LIMITE	MUMBAI
5070.	SCHNEIDER ELECTRIC SA	ABUDHABI
5071.	SCHNEIDER ELECTRIC SYSTEM (I) (P) LTD.	CHENNAI
5072.	SCHNEIDER ELECTRIC SYSTEMS (I) (P) LTD.	CHENNAI
5073.	SCHNEIDER ELECTRIC SYSTEMS (I) (P) LTD.	HYDERABAD
5074.	SCHUNK METAL AND CARBON (I) (P) LTD.	BANGALORE
5075.	SCHWING STETTER (I) (P) LTD.	CHENNAI
5076.	SCHWING STETTER (I) (P) LTD.	MUMBAI
5077.	SCHWING STETTER INDIA	MUMBAI
5078.	SCI TANZANIA LTD.	DUBAI
5079.	SCIENTECHNIC LLC	DUBAI
5080.	SCIFORMIX TECHNOLOGY (P) LTD.	MUMBAI
5081.	SCMS GROUP OF EDUCATIONAL INSTITUTIONS	CHENNAI
5082.	SCOPE INTERNATIONAL	CHENNAI
5083.	SCOPE T & M (P) LTD.	PUNE
5084.	SCRY ANALYTICS	GURGAON
5085.	SD MIDDLE EAST LLC	DUBAI
5086.	SDMS DEVASTHANAM ENDOWMENTS DEPARTMENT	HYDERABAD
5087.	SEAGATE HDD (I) (P) LTD.	BANGALORE
5088.	SEAGATE TECHNOLOGY HDD (I) (P) LTD.	BANGALORE
5089.	SEAGATE TECHNOLOGY HDD (I) (P) LTD.	PUNE
5090.	SEAGATE TECHNOLOGY INT	SINGAPORE
5091.	SEARS IT & MANAGEMENT SERVICES (I) PVT	BANGALORE
5092.	SECO TOOLS (I) P LTD.	DELHI
5093.	SECO TOOLS (I) P LTD.	PUNE
5094.	SECURE METERS LTD.	UDAIPUR
5095.	SECURE METERS LTD. SANAND	MUMBAI
5096.	SECURE METERS LTD. UDAIPUR	UDAIPUR
5097.	SECURITY SOFTWARE AND SOLUTIONS	MUMBAI
5098.	SEDEMAC MECHATRONICS (P) LTD.	PUNE
5099.	SEEDAC SYSTEMS(P) LTD.	BANGALORE
5100.	SEEKERS EDUCATIONAL SERVICES	TIRUCHIRAPALLI
5101.	SEFA (P) LTD.	DELHI
5102.	SEGULA TECHNOLOGIES	CHENNAI
5103.	SELENO SYSTEMS (P) LTD.	DELHI
5104.	SEMBCORP ENERGY (I) LTD.	CHENNAI
5105.	SEMCON (I) (P) LTD.	BANGALORE
5106.	SEMCON (I) (P) LTD.	COIMBATORE

S.No.	ORGANIZATION	LOCATION
5107.	SENSEI TECHNOLOGIES	BANGALORE
5108.	SEPTTECH MARKETING(I)PVT LTD.	HYDERABAD
5109.	SERVEU (L.L.C)	DUBAI
5110.	SERVICE & COMPUTER INDUSTRIES KENYA LTD.	KENYA
5111.	SERVION GLOBAL SOLUTIONS	CHENNAI
5112.	SERVOSYS SOLUTIONS GURGAON	MUMBAI
5113.	SETCO AUTOMOTIVE LTD.(LAVA CAST (P) LTD.)	MUMBAI
5114.	SEVEN LAKES TECHNOLOGIES	BANGALORE
5115.	SEVERN GLOCON (I) (P) LTD.	KATTUPAKKAM
5116.	SEVITECH SYSTEMS (P) LTD.	BANGALORE
5117.	SEYNSE TECHNOLOGIES (P) LTD.	HYDERABAD
5118.	SFO TECHNOLOGIES	COCHIN
5119.	SFO TECHNOLOGIES	ERNAKULAM
5120.	SFO TECHNOLOGIES (P) LTD.	BANGALORE
5121.	SFO TECHNOLOGIES (P) LTD.	COIMBATORE
5122.	SGS INSPECTION SERVICES SA LTD.	SAUDIARABIA
5123.	SHADAN INSTITUTE OF MEDICAL SCIENCES	HYDERABAD
5124.	SHALIVAHANA GREEN ENERGY LTD.	HYDERABAD
5125.	SHANGHAI SHUJIN ENVIRONMENTAL TECHNOLOGY	AHMEDABAD
5126.	SHANTHA BIOTECHNICS (P) LTD.	HYDERABAD
5127.	SHANTHI GEARS LIMITE	COIMBATORE
5128.	SHAPOORJI PALLONJI CO (P) LTD.	MUMBAI
5129.	SHAPOORJI PALLONJI CO (P) LTD.	PUNE
5130.	SHAPOORJI PALLONJI MIDEAST LLC	DUBAI
5131.	SHARAT LASER EYE HOSPITAL	TELANGANA
5132.	SHARDUL SOLUTIONS (P) LTD.	PUNE
5133.	SHAREKHAN BY BNP PARIBAS	MUMBAI
5134.	SHARP SOFTWARE DEVELOPMENT (I) (P) LTD.	BANGALORE
5135.	SHARQ A SABIC AFFILIATE	SAUDIARABIA
5136.	SHDM J-SYS TECHNOLOGIES (P) LTD.	JODHPUR
5137.	SHELL (I) MARKETS	BANGALORE
5138.	SHELL (I) MARKETS (P) LTD.	BANGALORE
5139.	SHELL (I) MARKETS (P) LTD.	CHENNAI
5140.	SHELL ENERGY (I) (P) LTD.	HYDERABAD
5141.	SHELL INDIA	BANGALORE
5142.	SHELL SERAYA CHEMICALS PTE LTD.	SINGAPORE
5143.	SHIFT (I) (P) LTD.	ATHENAHEALTH
5144.	SHIMI DESIGNS AND CONSULTING ENGINEERS (P) LTD.	CHENNAI
5145.	SHIRDI SAI ELECTRICALS LTD.	HYDERABAD
5146.	SHIV NADAR UNIVERSITY	NOIDA
5147.	SHIVANSH SOLUTIONS LTD.	MUMBAI
5148.	SHOPSENSE RETAIL TECHNOLOGIES (P) LTD.	MUMBAI
5149.	SHOPTIMIZE (I) (P) LTD.	PUNE
5150.	SHOWA (I) (P) LTD.	DELHI
5151.	SHREE AMBA INDUSTRIES(SAI GROUP)	ROORKEE
5152.	SHREE CEMENT LTD.	BEAWAR
5153.	SHREE DENTAL HOSPITAL	KALYAN
5154.	SHREE KRISHNA HOSPITAL	BANGALORE
5155.	SHREE PRATHAMESH HOSPITAL	THANE
5156.	SHREE SAMARTH HOSPITAL	PUNE
5157.	SHRI RAM PISTON AND RINGS LTD.	ALWAR
5158.	SHRI RAM PISTON AND RINGS LTD.	BHIWADI
5159.	SHRI RAM PISTON AND RINGS LTD.	DELHI
5160.	SHRI RAM PISTON AND RINGS LTD.	GHAZIABAD
5161.	SHRIRAM CITY UNION FINANCE LTD.	DELHI
5162.	SHRIRAM PISTONS & RINGS LTD.	DELHI
5163.	SHRIRAM PROPERTIES	BANGALORE
5164.	SHRIRAM PROPERTIES LTD.	BANGALORE
5165.	SHUAIBA OXYGEN COMPANY KUWAIT	KUWAIT
5166.	SHUWEIHAT O & M LTD. PARTNERSHIP	DUBAI
5167.	SHYAM ENTERPRISES	JAMSHEDPUR
5168.	SHYAM METALICS&ENERGY LTD.	HYDERABAD
5169.	SI GLOBAL PVT.LTD.	BANGALORE
5170.	SI2CHIP TECHNOLOGIES (P) LTD.	BANGALORE
5171.	SIAM MAKRO PCL	BANGALORE
5172.	SIAM MAKRO PUBLIC CO. LTD.	BANGKOK
5173.	SIEMENS (I) (P) LTD.	PUNE
5174.	SIEMENS GAMESA RENEWABLE ENERGY	BANGALORE
5175.	SIEMENS GAMESA RENEWABLE ENERGY (P) LTD.	BANGALORE
5176.	SIEMENS GAMESA RENEWABLE ENERGY ECPL	BANGALORE
5177.	SIEMENS GAMESA RENEWABLE ENERGY ENGINEERING C.P.L.	BANGALORE

S.No.	ORGANIZATION	LOCATION
5178.	SIEMENS GAMESA RENEWABLES ENERGY ECPL	BANGALORE
5179.	SIEMENS GAMESA WIND POWER	BANGALORE
5180.	SIEMENS HEALTHCARE (P) LTD.	BANGALORE
5181.	SIEMENS HEALTHCARE (P) LTD.	GOA
5182.	SIEMENS HEALTHINEERS	BANGALORE
5183.	SIEMENS HEALTHINEERS	GOA
5184.	SIEMENS INDUSTRY SOFTWARE (I) (P) LTD.	PUNE
5185.	SIEMENS INDUSTRY SOFTWARE LTD.	CHENNAI
5186.	SIEMENS INDUSTRY SOFTWARE (I) (P) LTD.	DELHI
5187.	SIEMENS LLC	DUBAI
5188.	SIEMENS LTD.	AURANGABAD
5189.	SIEMENS LTD.	CHENNAI
5190.	SIEMENS LTD.	DELHI
5191.	SIEMENS LTD.	GOA
5192.	SIEMENS LTD.	GURGAON
5193.	SIEMENS LTD.	HYDERABAD
5194.	SIEMENS LTD.	JHARSUGUDA
5195.	SIEMENS LTD.	KOLKATA
5196.	SIEMENS LTD.	MUMBAI
5197.	SIEMENS LTD.	QATAR
5198.	SIEMENS LTD.	VADODARA
5199.	SIEMENS PLM SOFTWARE	PUNE
5200.	SIEMENS TECHNOLOGY (P) LTD.	BANGALORE
5201.	SIEMENS TECHNOLOGY AND SERVICES	PUNE
5202.	SIEMENS TECHNOLOGY AND SERVICES (P) LTD.	BANGALORE
5203.	SIEMENS TECHNOLOGY SERVICES (P) LTD.	BANGALORE
5204.	SIEMENS WLL	DOHA
5205.	SIENNA ECAD TECHNOLOGIES	BANGALORE
5206.	SIERRA CEDAR (I) (P) LTD.	HYDERABAD
5207.	SIEVERT EMIRATES INSPECTION LLC	DUBAI
5208.	SIFIVE INC.	PUNE
5209.	SIFT CONSULTANCY	BANGALORE
5210.	SIFY TECHNOLOGIES LTD.	CHENNAI
5211.	SIFY TECHNOLOGIES LTD. NOIDA SECTOR-132	DELHI
5212.	SIGED EMIRATES L.L.C	ABUDHABI
5213.	SIGMA ELECTRIC MANUFACTURING CORP (P) LTD.	PUNE
5214.	SIGMA ELECTRIC MANUFACTURING CORPORATION (P) LTD.	DELHI
5215.	SIGMA ENGINEERING	CHENNAI
5216.	SIGMA ENGINEERING WORKS	DUBAI
5217.	SIGNIFY INNOVATIONS (I) LTD.	BANGALORE
5218.	SIGNODE (I) LTD.	HYDERABAD
5219.	SIGNODE INDIA LTD.	PUNE
5220.	SIGNODE INDIA	CHENNAI
5221.	SII (I) IT AND ENGINEERING SERVICE PVT	BANGALORE
5222.	SIKICH (I) TECHNOLOGIES	PUNE
5223.	SILERGY TECHNOLOGIES	DELHI
5224.	SILVERSKILLS (P) LTD.	GURGAON
5225.	SILVERTECH MIDDLE EAST	DUBAI
5226.	SIM INFOSYSTEMS (P) LTD.	CHENNAI
5227.	SIMHAPURI HOSPITAL	CHENNAI
5228.	SIMILITY SOFTWARE SERVICES (I) (P) LT	BANGALORE
5229.	SIMON (I) LTD.	MUMBAI
5230.	SIMPLEWORKS AI (P) LTD.	HYDERABAD
5231.	SIMPLEWORKS SOLUTIONS (P) LTD.	BANGALORE
5232.	SIMPLEX INFRASTRUCTURES LTD.	KOLKATA
5233.	SIMS HOSPITAL	CHENNAI
5234.	SINENG ELECTRIC (I) (P) LTD.	BANGALORE
5235.	SINGAPORE MANAGEMENT UNIVERSITY	SINGAPORE
5236.	SINMEC ENGINEERING SERVICES (I) (P) LTD.	CHENNAI
5237.	SINTO BHARAT MANUFACTURING (P) LTD.	CHENNAI
5238.	SIPC SERVICES	HYDERABAD
5239.	SIR H N RELIANCE FOUNDATION HOSPITAL	MUMBAI
5240.	SIROYA DENTAL CLINIC	MUMBAI
5241.	SITEL (I) (P) LTD.	HYDERABAD
5242.	SIVANI PHARMA AND SURGICALS DISTRIBUTION	DELHI
5243.	SIVASAKTHI PRECISION TOOLS	COIMBATORE
5244.	SIX CONSTRUCT	DUBAI
5245.	SIXDEE TELECOM SOLUTION (P) LTD.	BANGALORE
5246.	SKAAS TECHNOLOGY SOLUTIONS (P) LTD.	BANGALORE
5247.	SKANDA AEROSPACE TECHNOLOGY (P) LTD.	HYDERABAD
5248.	SKARDIN INDUSTRIAL CORP	TAIWAN

S.No.	ORGANIZATION	LOCATION
5249.	SKAVA SYSTEMS (P) LTD.	COIMBATORE
5250.	SKF (I) LTD.	BANGALORE
5251.	SKF (I) LTD.	PUNE
5252.	SKF TECHNOLOGIES (I) (P) LTD.	BANGALORE
5253.	SKILLNET SOLUTIONS (I) (P) LTD.	MUMBAI
5254.	SKORUZ	BANGALORE
5255.	SKORUZ TECHNOLOGY (P) LTD.	BANGALORE
5256.	SKP BUSINESS CONSULTING LLP	PUNE
5257.	SKYBAND	BANGALORE
5258.	SKYBAND	PUNE
5259.	SKYLINE SEMICONDUCTOR SERVICES	DELHI
5260.	SLK SOFTWARE SERVICES (P) LTD.	BANGALORE
5261.	SM ELECTRONICS (P) LTD.	BANGALORE
5262.	SMAK SOFTWARE	CHENNAI
5263.	SMALL SPARK CONCEPTS	PUNE
5264.	SMART IMS	HYDERABAD
5265.	SMART INFORMATION MANAGEMENT SYSTEMS	HYDERABAD
5266.	SMART IOPS	MUMBAI
5267.	SMARTIOPS	BANGALORE
5268.	SMARTMEGH SOLUTIONS	CHENNAI
5269.	SMARTRON (I) (P) LTD.	BANGALORE
5270.	SMARTRON (I) (P) LTD.	HYDERABAD
5271.	SMARTSOC SOLUTIONS (P) LTD.	HYDERABAD
5272.	SMARTSTREAM TECHNOLOGIES (P) LTD.	BANGALORE
5273.	SMARTSTREAM TECHNOLOGIES (P) LTD.	MUMBAI
5274.	SMCSI MEDICAL COLLEGE KARAKKONAM	CHENNAI
5275.	SMILEASY DENTAL CARE	CHENNAI
5276.	SMILES FOUNDATION	HYDERABAD
5277.	SMM TECH SOLUTIONS	MYSORE
5278.	SMR AUTOMOTIVE SYSTEMS (I) LTD.	CHENNAI
5279.	SN INDUSTRIAL CONSULTANTS	BANGALORE
5280.	SNAM ALLOYS (P) LTD.	HOSUR
5281.	SNAMPROGETTI SAUDI ARABIA CO LTD. (SAIPEM)	CHENNAI
5282.	SNAPDEAL	BANGALORE
5283.	SNAPDEAL	GURGAON
5284.	SNAPDEAL	PUNE
5285.	SNC- LAVALIN INTERNATIONAL- INC	DUBAI
5286.	SNIMS CHALAKKA NORTH KUTHIYATHODE	BANGALORE
5287.	SOCIETE GENERALE GLOBAL SOLUTIONS CENTER	BANGALORE
5288.	SOCIETE GENERALE GLOBAL SOLUTIONS CENTRE	CHENNAI
5289.	SOCIETY OF NUTRITION EDUCATION AND HEAL	MUMBAI
5290.	SOCOMEK INNOVATIVE POWER SOLUTIONS	MUMBAI
5291.	SOCTRONICS (P) LTD.	HYDERABAD
5292.	SOCTRONICS TECHNOLOGIES (P) LTD.	HYDERABAD
5293.	SOFTLABAS	HYDERABAD
5294.	SOFTLINK ASIA (P) LTD.	FARIDABAD
5295.	SOFTTEK (I) (P) LTD.	BANGALORE
5296.	SOFTTEK (I) (P) LTD.	HYDERABAD
5297.	SOFTWARE AG	BANGALORE
5298.	SOFTWARE AG	CHENNAI
5299.	SOFTWARE AG TECHNOLOGIES (P) LTD.	BANGALORE
5300.	SOFTWARE AG TECHNOLOGIES (P) LTD.	CHENNAI
5301.	SOFTWARE DATA (I) LTD.	DELHI
5302.	SOFTWARE TECHNOLOGY PARKS OF INDIA MEIT	SRINAGAR
5303.	SOFTWAREAG	CHENNAI
5304.	SOGEFI MNR	GURGAON
5305.	SOHAMSAA SYSTEM (P) LTD.	BANGALORE
5306.	SOHAR ALUMINIUM COMPANY	CHENNAI
5307.	SOLITON TECHNOLOGIES (P) LTD.	COIMBATORE
5308.	SOLTIUS ME	DUBAI
5309.	SOLUTIONS MIDDLE EAST	DUBAI
5310.	SOLUTIONSMAX TECHNOLOGY SERVICES	VISAKHAPATNAM
5311.	SOLVEDGE	CHENNAI
5312.	SOMA ISOLUX SURAT HAZIRA TOLLWAY (P) LT	SURAT
5313.	SOMI CONVEYOR BELTING LTD.	JODHPUR
5314.	SOMIC ZF COMPONENTS (P) LTD.	GURGAON
5315.	SONA BLW PRECISION FORGINGS LTD.	GURGAON
5316.	SONA COMSTAR	DELHI
5317.	SONATA SOFTWARE LTD.	BANGALORE
5318.	SONDREL IC DESIGN SERVICES	HYDERABAD
5319.	SONIM TECHNOLOGIES	BANGALORE

S.No.	ORGANIZATION	LOCATION
5320.	SONY (I) SOFTWARE CENTRE (P) LTD.	BANGALORE
5321.	SOPHOS TECHNOLOGIES	BANGALORE
5322.	SOPRA STERIA	DELHI
5323.	SOPRA STERIA	NOIDA
5324.	SOURCESOL INTERACTIVE TECHNOLOGIES (P) LTD.	CHENNAI
5325.	SOURIAU (I) (P) LTD.	COCHIN
5326.	SOUTH (I) KRISHNAN OILS AND FATS (P) L	NELLORE
5327.	SOUTH INDIAN BANK	ERNAKULAM
5328.	SOUTH WEST CERTIFICATION SERVICES	DUBAI
5329.	SP ULTRAFLEX SYSTEMS (P) LTD.	THANE
5330.	SPAINET (P) LTD.	GURGAON
5331.	SPARK MINDA	CHENNAI
5332.	SPARK MINDA TECHNICAL CENTRE	PUNE
5333.	SPB CORPORATION LTD.	LONDON
5334.	SPECTRAMEDIX	DELHI
5335.	SPECTRANET NIGERIA LTD.	MUMBAI
5336.	SPECTRUM CONSULTANT (P) LTD.	HYDERABAD
5337.	SPECTRUM DYES & CHEMICALS (P) LTD.	SURAT
5338.	SPHENIX WORLD WIZ LTD.	PUNE
5339.	SPICER (I) (P) LTD.	RUDRAPUR
5340.	SPICER (I) (P) LTD.	UTTARAKHAND
5341.	SPIME (I) TECHNOLOGIES (A TRIMBLE COM	CHENNAI
5342.	SPIRAX SARCO (I) (P) LTD.	CHENNAI
5343.	SPIRENT COMMUNICATIONS (P) LTD.	BANGALORE
5344.	SPLASH GULF	DUBAI
5345.	SPONTEY COMPUTER SYSTEMS (P) . LTD.	BANGALORE
5346.	SPOTFLOCK TECHNOLOGIES (P) LTD.	HYDERABAD
5347.	SPRAYING SYSTEMS (I) (P) LTD.	KOLKATA
5348.	SPRINKLR (I) (P) LTD.	BANGALORE
5349.	SPXFLOW	PUNE
5350.	SQS (I) INFOSYSTEMS (P) LTD.	PUNE
5351.	SQUARE YARDS CONSULTING (P) LTD.	GURGAON
5352.	SRC LABORATORIES (P) LTD.	HYDERABAD
5353.	SREE AMARAVATHI MULTISPECIALITY HOSPITAL	CHENNAI
5354.	SREE ENTERPRISE	CHENNAI
5355.	SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES	COIMBATORE
5356.	SREE SHYAM SAYI CORPORATION (P) LTD.	CHENNAI
5357.	SRF LTD.	INDORE
5358.	SRF LTD.	MANALI
5359.	SRF LTD.	MUMBAI
5360.	SRF LTD.	PUNE
5361.	SRI KRISHNA INDUSTRIES	HOSUR
5362.	SRI MANIDWEEPA TRIPURA MAHASHKTI PEETHAM	KARMANGHAT
5363.	SRI SAI ENTERPRISES	CHENNAI
5364.	SRI SAI RAM TECHNOLOGIES	BANGALORE
5365.	SRIC IIT KHARAGPUR	KOLKATA
5366.	SRI-D	DELHI
5367.	SRIJA SOLUTIONS (P) LTD.	PUNE
5368.	SRIJAN TECHNOLOGIES	CHENNAI
5369.	SRIJAN TECHNOLOGIES (P) LTD.	BANGALORE
5370.	SRL DIAGNOSTICS (P) LTD.	MUMBAI
5371.	SRM TECHNOLOGIES (P) LTD.	CHENNAI
5372.	SRS ENTERPRISES	PUNE
5373.	SS CONSULTANTS	CHENNAI
5374.	SS INFRASTRUCTURE DEVELOPMENT CONSULTANT	HYDERABAD
5375.	SS&C GLOBE OP	MUMBAI
5376.	SSA INFOSYSTEMS (P) LTD.	DELHI
5377.	SSA IT CONSULTING SDN BHD	KUALALUMPUR
5378.	SSIR	BANGALORE
5379.	SSNC GLOBEOP FINANCIAL COMP.	MUMBAI
5380.	SSNC GLOBEOP FINANCIAL SERVICES	MUMBAI
5381.	SSNC GLOBEOP FINANCIAL SERVICES TECHNOLOGIES	MUMBAI
5382.	SSS CREATION	CHENNAI
5383.	ST MARTINS HOSPITAL	WAYANAD
5384.	ST MICROELECTRONICS (P) LTD.	DELHI
5385.	ST MICROELECTRONICS (P) LTD.	NOIDA
5386.	STAMPEDE CAPITAL LTD.	HYDERABAD
5387.	STANDARD CHARTERED BANK	HYDERABAD
5388.	STANDARD CHARTERED GBS (P) LTD.	CHENNAI
5389.	STANDARD CHARTERED GLOBAL BUSINESS SERVI	CHENNAI
5390.	STANDARD CHARTERED GLOBAL BUSINESS SERVICES	BANGALORE

S.No.	ORGANIZATION	LOCATION
5391.	STANDAV	HYDERABAD
5392.	STANDERD CHARTERED GLOBAL SERVICES	BANGALORE
5393.	STANDOUT IT SOLUTIONS	ERNAKULAM
5394.	STAR (I) (P) LTD.	MUMBAI
5395.	STAR CEMENT ADITYA BIRLA GROUP ULTRATECH	UAE
5396.	STAR CEMENT CO. L.L.C	DUBAI
5397.	STAR CEMENT CO. LLC	DUBAI
5398.	STAR CEMENT COMPANY	UAE
5399.	STAR GULF/BOS-SHELF LLC	AZERBAIJAN
5400.	STAR HEALTH AND ALLIED INSURANCE CO LTD.	CHENNAI
5401.	STAR HOSPITAL	HYDERABAD
5402.	STARTAPP GLOBAL	FARIDABAD
5403.	STATE BANK OF INDIA	COIMBATORE
5404.	STATE STREET CORPORATION	HYDERABAD
5405.	STATE STREET GLOBAL ADVISERS	BANGALORE
5406.	STATE TECHNICAL EDUCATION	JAMMUANDKASHMIR
5407.	STEEL AUTHORITY OF (I) LTD.	BHILAI
5408.	STEEL AUTHORITY OF (I) LTD.	BOKARO
5409.	STEEL PLANTECH (I) (P) LTD.	KOLKATA
5410.	STEEL STRIPS WHEELS LTD.	JAMSHEDPUR
5411.	STELIS BIOPHARMA PVT.LTD	BANGALORE
5412.	STEMROBO TECHNOLOGIES (P) LTD.	NOIDA
5413.	STERLING & WILSON (P) LTD.	KOLKATA
5414.	STERLING & WILSON (P) LTD.	MUMBAI
5415.	STERLING AND WILSON	MUMBAI
5416.	STERLING AND WILSON (P) LTD.	KOLKATA
5417.	STERLITE POWER TRANSMISSION LTD.	JHARSUGUDA
5418.	STERLITE TECHNOLOGIES LTD.	AURANGABAD
5419.	STERLITE TECHNOLOGIES LTD.	GURGAON
5420.	STHAPATYA CONSULTANT (I) (P) LTD.	AMRAVATI
5421.	STMICROELECTRONICS (P) LTD.	DELHI
5422.	STMICROELECTRONICS (P) LTD.	NOIDA
5423.	STONCOR MIDDLE EAST LLC	DUBAI
5424.	STOREMOTION FURNITURE INDUSTRY LLC	BANGALORE
5425.	STORK RUBBER PRODUCTS (P) LTD.	NOIDA
5426.	STRATA MANUFACTURING	DUBAI
5427.	STRATA MANUFACTURING PJSC	UAE
5428.	STRATOSPHERE IT SERVICES (P) LTD.	HYDERABAD
5429.	STRIDES SHASUN LTD.	BANGALORE
5430.	STRING BIO (P) LTD.	BANGALORE
5431.	STRUCTURAL SOLUTIONS (P) LTD.	HYDERABAD
5432.	STRYKER	DELHI
5433.	STRYKER GLOBAL TECHNOLOGY CENTRE	GURGAON
5434.	STTELEMEDIA GDC I (P) LTD.	CHENNAI
5435.	SUBEX LTD.	BANGALORE
5436.	SUBROS LTD.	CHENNAI
5437.	SUBROS LTD.	NOIDA
5438.	SUCHI HOSPITAL	MUMBAI
5439.	SUDHA HOSPITAL	CHENNAI
5440.	SUHNER (I) PVT.LTD.	BANGALORE
5441.	SULZER (I) (P) LTD.	PUNE
5442.	SULZER CHEMTECH UK LTD.	MUMBAI
5443.	SUN LIFE (I) SERVICE CENTRE (P) LTD.	DELHI
5444.	SUN MOBILITY (P) LTD.	BANGALORE
5445.	SUN PHARMA ADVANCED RESEARCH CO. LTD.	BARODA
5446.	SUN PHARMA ADVANCED RESEARCH CO. LTD.	GURGAON
5447.	SUN PHARMA ADVANCED RESEARCH CO. LTD.	MUMBAI
5448.	SUN PHARMACEUTICAL INDUSTRIES LTD.	BARODA
5449.	SUN PHARMACEUTICAL INDUSTRIES LTD.	DELHI
5450.	SUN PHARMACEUTICAL INDUSTRIES LTD.	GURGAON
5451.	SUN PHARMACEUTICALS INDUSTRIES LTD.	BARODA
5452.	SUN PHARMACEUTICALS INDUSTRIES LTD.	GURGAON
5453.	SUN PHARMACEUTICALS INDUSTRIES LTD.	MUMBAI
5454.	SUN PHARMACEUTICALS INDUSTRIES LTD.	VADODARA
5455.	SUNBEAM AUTO (P) LTD.	GURGAON
5456.	SUNDARAM AUTO COMPONENTS LTD.	BANGALORE
5457.	SUNDARAM AUTO COMPONENTS LTD.	CHENNAI
5458.	SUNDARAM AUTO COMPONENTS LTD.	HOSUR
5459.	SUNDARAM AUTO COMPONENTS LTD.	MYSORE
5460.	SUNDARAM BRAKE LININGS LTD.	CHENNAI
5461.	SUNDARAM CLAYTON LTD.	CHENNAI

S.No.	ORGANIZATION	LOCATION
5462.	SUNDARAM CLAYTON LTD.	HOSUR
5463.	SUNDARAM FASTENERS LTD.	CHENNAI
5464.	SUNDARAM MEDICAL FOUNDATION	CHENNAI
5465.	SUNDARAM MEDICAL FOUNDATION CHENNAI	CHENNAI
5466.	SUNDRAM FASTENERS LTD.	BANGALORE
5467.	SUNDRAM FASTENERS LTD.	CHENNAI
5468.	SUNDRAM FASTENERS LTD.	PUDUCHERRY
5469.	SUNDYOTA NUMANDIS RESEARCH & FORMULATION	AHMEDABAD
5470.	SUNGARD AVAILABILITY SERVICES (I) (P) LTD.	PUNE
5471.	SUNGARD AVAILABILITY SERVICES	BANGALORE
5472.	SUNGARD IT AVAILABILITY SERVICES	BANGALORE
5473.	SUNMACHX ENGINEERING INDUSTRIES	TRICHY
5474.	SUNPHARMA	HALOL
5475.	SUNPHARMACEUTICAL INDUSTRIES LTD.	GURGAON
5476.	SUNPHARMACEUTICAL INDUSTRIES LTD.	SUNPHARMA
5477.	SUNPHARMACEUTICAL INDUSTRIES LTD.	VADODARA
5478.	SUNPOWER (I) VENTURES (P) LTD.	PUNE
5479.	SUNSMART IP SERVICES	BANGALORE
5480.	SUPER AUTO FORGE (P) LTD.	CHENNAI
5481.	SUPER HIGHWAY LABS (P) LTD.(SHUTTL)	GURGAON
5482.	SUPER SMELTERS LTD.	KOLKATA
5483.	SUPERSIKE GAMES (P) LTD.	DELHI
5484.	SUPRAJA HOSPITALS	HYDERABAD
5485.	SUPREME TELECOMMUNICATIONS LTD.	BANGALORE
5486.	SURELOCK PLASTICS (P) LTD.	MUMBAI
5487.	SURESH COMMUNICATIONS	HYDERABAD
5488.	SURETECH INFRASTRUCTURE (P) LTD.	MUMBAI
5489.	SUREWAVES MEDIATECH (P) LTD.	BANGALORE
5490.	SURIN AUTOMOTIVE (P) LTD.	BANGALORE
5491.	SURIN AUTOMOTIVE (P) LTD. PUNE	PUNE
5492.	SURTEL TECHNOLOGIES (P) LTD.	INDORE
5493.	SURYA AROMATIC & ESSENTIAL OILS	DELHI
5494.	SURYA HOSPITAL	MUMBAI
5495.	SURYAGEN RENEWABLE ENERGY (P) LTD.	BANGALORE
5496.	SUSMITHAM DENTAL CLINIC	CHENNAI
5497.	SUTHERLAND	COIMBATORE
5498.	SUTHERLAND GLOBAL SERVICES	CHENNAI
5499.	SUVEN LIFE SCIENCES LTD.	HYDERABAD
5500.	SUZLON ENERGY LTD.	BANGALORE
5501.	SUZLON ENERGY LTD.	PUNE
5502.	SUZUKI MOTORCYCLE (I) (P) LTD.	GURGAON
5503.	SVIMTECH SOFTWARE PVT.LTD.	DELHI
5504.	SWASTIK INFRA LOGICS (I) (P) LTD.	BANGALORE
5505.	SWAYAM EDUCATIONAL INSTITUTE	MUMBAI
5506.	SWIFTANT IT SOLUTIONS	BANGALORE
5507.	SWIFTANT IT SOLUTIONS	HOSUR
5508.	SWIGGY	BANGALORE
5509.	SWITCHGEAR ELECTROMECHANICAL L.L.C	DUBAI
5510.	SWORD GLOBAL(INDIA) (P) LTD.	CHENNAI
5511.	SYMANTEC	BANGALORE
5512.	SYMANTEC SOFTWARE (I) (P) LTD.	CHENNAI
5513.	SYMANTEC SOFTWARE (I) (P) LTD.	PUNE
5514.	SYMANTEC SOFTWARE AND SERVICES (I) PVT	CHENNAI
5515.	SYMANTEC SOFTWARE AND SERVICES (I) PVT	PUNE
5516.	SYMBIANCE PHARMA SOLUTIONS	CHENNAI
5517.	SYMMETRIC ENGINEERING	BANGALORE
5518.	SYMONY SYSTEMS AND SOLUTIONS (P) LTD.	DELHI
5519.	SYMPHONY FINTECH SOLUTIONS (P) LTD.	MUMBAI
5520.	SYMPHONY RETAIL AI	BANGALORE
5521.	SYNAMEDIA TECHNOLOGIES (I) (P) LTD.	BANGALORE
5522.	SYNAPSE DESIGN	BANGALORE
5523.	SYNAPSE TECHNO DESIGN (P) LTD.	BANGALORE
5524.	SYNAPSE TECHNO DESIGN INNOVATIONS (P) L	BANGALORE
5525.	SYNAPSE TECHNO DESIGN INNOVATIONS (P) LT	BANGALORE
5526.	SYNAPTICS	HYDERABAD
5527.	SYNAXIS SAVETO L.L.C.	ABUDHABI
5528.	SYNCHRONOSS TECHNOLOGIES	BANGALORE
5529.	SYNCHRONY FINANCIAL	HYDERABAD
5530.	SYNECHRON TECHNOLOGIES (P) LTD.	CHENNAI
5531.	SYNECHRON TECHNOLOGIES (P) LTD.	PUNE
5532.	SYNERGIES CASTINGS LTD.	VISAKHAPATNAM

S.No.	ORGANIZATION	LOCATION
5533.	SYNERGY MARITIME (P) LTD.	CHENNAI
5534.	SYNERZIP SOFTECH (I) (P) LTD.	PUNE
5535.	SYNFINITY MANAGEMENT CONSULTANTS (P) LTD.	BANGALORE
5536.	SYNGENE INTERNATIONAL	BANGALORE
5537.	SYNOPSIS (I) (P) LTD.	BANGALORE
5538.	SYNOPSIS (I) (P) LTD.	DELHI
5539.	SYNOPSIS (I) (P) LTD.	HYDERABAD
5540.	SYNOPSIS (I) (P) LTD.	MUMBAI
5541.	SYNOPSIS (I) (P) LTD.	NOIDA
5542.	SYNOPSIS (I) (P) LTD.	SRILANKA
5543.	SYNTEL TELECOM- ARVIND LTD.	CHENNAI
5544.	SYNTEL TELECOM- ARVIND LTD.	GURGAON
5545.	SYNTEL TELECOM- ARVIND LTD.	PUNE
5546.	SYNTHESIS WINDING TECHNOLOGIES (P) LTD.	BANGALORE
5547.	SYSDOC TECHNOLOGIES (P) LTD.	BANGALORE
5548.	SYSNUCLEUS	KOCHI
5549.	SYSTECH SOLUTIONS (P) LTD.	BANGALORE
5550.	SYSTECH SOLUTIONS (P) LTD.	CHENNAI
5551.	SYSTECH SOLUTIONS (P) LTD.	PUNE
5552.	SYSTEM CONSULTANT INFORMATION INDIA	BANGALORE
5553.	SYSTEM SOFT TECHNOLOGIES	HYDERABAD
5554.	SYSTEMATIC STEEL INDUSTRIES LTD.	MUMBAI
5555.	SYSWEAVE TECHNOCRAFT (P) LTD.	PUNE
5556.	T M INPUTS & SERVICES (P) LTD.	HYDERABAD
5557.	T&AS DESIGNTECH SERVICES (P) LTD.	HYDERABAD
5558.	T.V.S SUNDRAM FASTENERS LTD. PADI CHENNAI	CHENNAI
5559.	TAALTECH	BANGALORE
5560.	TACO	JAMSHEDPUR
5561.	TAEGUTEC (I) (P) LTD.	BANGALORE
5562.	TAFE	BANGALORE
5563.	TAFE CHENNAI	CHENNAI
5564.	TAG CORPORATION	CHENNAI
5565.	TAGROS CHEMICALS (I) LTD.	CUDDALORE
5566.	TAIKISHA ENGINEERING (I) (P) LTD.	GURGAON
5567.	TAJ AIR LTD.	MUMBAI
5568.	TAKAHATA PRECISION (I) (P) LTD.	NEEMRANA
5569.	TAKASAGO ENGINEERING (I) (P) LTD.	BANGALORE
5570.	TAKREER REFINERY	ABUDHABI
5571.	TAL MANUFACTURING SOLUTIONS LTD.	BELGAUM
5572.	TAL MANUFACTURING SOLUTIONS LTD.	HYDERABAD
5573.	TAL MANUFACTURING SOLUTIONS LTD.	NAGPUR
5574.	TAL MANUFACTURING SOLUTIONS LTD.	PUNE
5575.	TALENTICA SOFTWARE	PUNE
5576.	TALENTMICRO INNOVATIONS (P) LTD.	BANGALORE
5577.	TALLY SOLUTIONS (P) LTD.	BANGALORE
5578.	TAMIL NADU ROAD DEVELOPMENT CO. LTD.	CHENNAI
5579.	TANGO TELECOM	MUMBAI
5580.	TAPCOENPRO	ENGLAND
5581.	TAPZO	BANGALORE
5582.	TARGET CORPORATION INDIA	BANGALORE
5583.	TARGET CORPORATION LTD.	BANGALORE
5584.	TARGET ENGINEERING CONSTRUCTION COMPANY	ABUDHABI
5585.	TARGET ENGINEERING LLC	DUBAI
5586.	TARGET EXECUTIVE SERVICES (P) LTD.	HYDERABAD
5587.	TARGET INDIA	BANGALORE
5588.	TARGETINGMANTRA	GURGAON
5589.	TASEC LTD.	GURGAON
5590.	TATA ADVANCED MATERIAL LTD.	BANGALORE
5591.	TATA ADVANCED MATERIALS LTD.	BANGALORE
5592.	TATA ADVANCED SYSTEMS	HYDERABAD
5593.	TATA ADVANCED SYSTEMS LTD.	BANGALORE
5594.	TATA ADVANCED SYSTEMS LTD.	DELHI
5595.	TATA ADVANCED SYSTEMS LTD.	HYDERABAD
5596.	TATA ADVANCED SYSTEMS LTD.	TELANGANA
5597.	TATA AUTOCOMP SYSTEMS LTD.	PUNE
5598.	TATA AUTOCOMP SYSTEMS LTD.	UTTARAKHAND
5599.	TATA BOEING AEROSPACE LTD.	HYDERABAD
5600.	TATA COMMUNICATIONS LTD.	BANGALORE
5601.	TATA COMMUNICATIONS LTD.	CHENNAI
5602.	TATA COMMUNICATIONS LTD.	DELHI
5603.	TATA COMMUNICATIONS LTD.	MUMBAI

S.No.	ORGANIZATION	LOCATION
5604.	TATA COMMUNICATIONS LTD.	PUNE
5605.	TATA CONSULTANCY LTD.	CHENNAI
5606.	TATA CONSULTANCY SERVICE	CHENNAI
5607.	TATA CONSULTANCY SERVICES	BANGALORE
5608.	TATA CONSULTANCY SERVICES	CHENNAI
5609.	TATA CONSULTANCY SERVICES	COIMBATORE
5610.	TATA CONSULTANCY SERVICES	DELHI
5611.	TATA CONSULTANCY SERVICES	HYDERABAD
5612.	TATA CONSULTANCY SERVICES (P) LTD.	AHMEDABAD
5613.	TATA CONSULTANCY SERVICES (P) LTD.	AMARESH
5614.	TATA CONSULTANCY SERVICES (P) LTD.	BANGALORE
5615.	TATA CONSULTANCY SERVICES (P) LTD.	BUDAPEST
5616.	TATA CONSULTANCY SERVICES (P) LTD.	CHENNAI
5617.	TATA CONSULTANCY SERVICES (P) LTD.	DELHI
5618.	TATA CONSULTANCY SERVICES (P) LTD.	GURGAON
5619.	TATA CONSULTANCY SERVICES (P) LTD.	KOCHI
5620.	TATA CONSULTANCY SERVICES (P) LTD.	KOLKATA
5621.	TATA CONSULTANCY SERVICES (P) LTD.	KUALALUMPUR
5622.	TATA CONSULTANCY SERVICES (P) LTD.	LUCKNOW
5623.	TATA CONSULTANCY SERVICES (P) LTD.	MUMBAI
5624.	TATA CONSULTANCY SERVICES (P) LTD.	NOIDA
5625.	TATA CONSULTANCY SERVICES (P) LTD.	PUDUPAKKAM
5626.	TATA CONSULTANCY SERVICES (P) LTD.	PUNE
5627.	TATA CONSULTANCY SERVICES (P) LTD.	TELANGANA
5628.	TATA CONSULTANCY SERVICES LTD.	BANGALORE
5629.	TATA CONSULTANCY SERVICES LTD.	CHENNAI
5630.	TATA CONSULTANCY SERVICES LTD.	DELHI
5631.	TATA CONSULTANCY SERVICES	BANGALORE
5632.	TATA CONSULTING ENGINEERS	PUNE
5633.	TATA CONSULTING ENGINEERS LTD.	KOLKATA
5634.	TATA CUMMINS (I) PVT.LTD.	PUNE
5635.	TATA ELXSI	BANGALORE
5636.	TATA ELXSI	COIMBATORE
5637.	TATA ELXSI LTD.	BANGALORE
5638.	TATA ELXSI LTD.	CHENNAI
5639.	TATA ELXSI LTD.	HYDERABAD
5640.	TATA ELXSI LTD.	PUNE
5641.	TATA ELXSI LTD.	THIRUVANANTHAPURAM
5642.	TATA HEALTH	BANGALORE
5643.	TATA HOUSING DEVELOPMENT CO LTD.	MUMBAI
5644.	TATA INSTITUTE OF FUNDAMENTAL RESEARCH	MUMBAI
5645.	TATA MARCOPOLO MOTORS	DHARWAD
5646.	TATA MARCOPOLO MOTORS LTD.	BANGALORE
5647.	TATA MEMORIAL CENTRE	MUMBAI
5648.	TATA MOTORS	KOLKATA
5649.	TATA MOTORS	PUNE
5650.	TATA MOTORS (P) LTD.	AHMEDABAD
5651.	TATA MOTORS (P) LTD.	DHARWAD
5652.	TATA MOTORS (P) LTD.	GURGAON
5653.	TATA MOTORS (P) LTD.	JAIPUR
5654.	TATA MOTORS (P) LTD.	JAMESHPUR
5655.	TATA MOTORS (P) LTD.	JAMSHEDPUR
5656.	TATA MOTORS (P) LTD.	LUCKNOW
5657.	TATA MOTORS (P) LTD.	PUNE
5658.	TATA MOTORS ERC	PUNE
5659.	TATA MOTORS FINANCE SOLUTIONS LTD.	KOLHAPUR
5660.	TATA MOTORS LTD.	DELHI
5661.	TATA MOTORS LTD.	HYDERABAD
5662.	TATA MOTORS LTD.	KOLKATA
5663.	TATA MOTORS PANTNAGAR	DELHI
5664.	TATA POWER	AJMER
5665.	TATA POWER	BANGALORE
5666.	TATA POWER	BHIVPURI
5667.	TATA POWER	HALDIA
5668.	TATA POWER	JAMSHEDPUR
5669.	TATA POWER	JOJOBERA
5670.	TATA POWER	KALINGANAGAR
5671.	TATA POWER	MAITHON
5672.	TATA POWER	MUMBAI
5673.	TATA POWER	RAIGARH
5674.	TATA POWER	TROMBAY

S.No.	ORGANIZATION	LOCATION
5675.	TATA POWER DELHI DISTRIBUTION LTD.	GOA
5676.	TATA POWER SOLAR SYSTEMS LTD.	BANGALORE
5677.	TATA PROJECTS LTD.	CHENNAI
5678.	TATA PROJECTS LTD.	COIMBATORE
5679.	TATA PROJECTS LTD.	DELHI
5680.	TATA PROJECTS LTD.	DUBAI
5681.	TATA PROJECTS LTD.	HYDERABAD
5682.	TATA PROJECTS LTD.	KOLKATA
5683.	TATA PROJECTS LTD.	MUMBAI
5684.	TATA PROJECTS LTD.	PUNE
5685.	TATA REALTY	DELHI
5686.	TATA SIKORSKY AEROSPACE LTD.	HYDERABAD
5687.	TATA SIKORSKY AEROSPACE LTD.	TELANGANA
5688.	TATA STEEL LTD.	JAMSHEDPUR
5689.	TATA STRIVE	PUNE
5690.	TATA TECHNOLOGIES LTD.	BANGALORE
5691.	TATA TECHNOLOGIES LTD.	CHENNAI
5692.	TATA TECHNOLOGIES LTD.	GURGAON
5693.	TATA TECHNOLOGIES LTD.	HYDERABAD
5694.	TATA TECHNOLOGIES LTD.	KOLKATA
5695.	TATA TECHNOLOGIES LTD.	PUNE
5696.	TATA TOYO RADIATORS LTD.	PUNE
5697.	TATAELXSI	BANGALORE
5698.	TATAMOTORS LTD. JAMSHEDPUR	KOLKATA
5699.	TATAPOWER SED	BANGALORE
5700.	TATA-SIKORSKY AEROSPACE LTD.	HYDERABAD
5701.	TATATECHNOLOGIES LTD.	KOLKATA
5702.	TATVASOFT	AHMEDABAD
5703.	TAURUS (P) LTD.	COIMBATORE
5704.	TAURUS GENERAL CONTRACTING LLC UAE	DUBAI
5705.	TAURUS POWERTRONICS (P) LTD.	BANGALORE
5706.	TAV TECHNOLOGIES	ABUDHABI
5707.	TAVANT TECHNOLOGIES	BANGALORE
5708.	TAVANT TECHNOLOGIES (P) LTD.	BANGALORE
5709.	TAXILLA IT SOLUTIONS (P) LTD.	HYDERABAD
5710.	TAYANA SOFTWARE SOLUTIONS	BANGALORE
5711.	TBEA ENERGY (I) (P) LTD.	VADODARA
5712.	TCT HOLIDAYS AND TECHNOLOGIES (P) LTD.	HYDERABAD
5713.	TE CONNECTIVITY (I) (P) LTD.	BANGALORE
5714.	TEACH GLOBAL SOLUTIONS PVT.LTD	HYDERABAD
5715.	TEAMF1 NETWORKS(D-LINK)	HYDERABAD
5716.	TEAMLEADER CONTRACTING COMPANY	DUBAI
5717.	TEAMLEASE /DEPLOYED BY GIESECKE AND DEVRIENT	PUNE
5718.	TEBODIN MIDDLE EAST	ABUDHABI
5719.	TECH MAHINDRA	BANGALORE
5720.	TECH MAHINDRA	CHENNAI
5721.	TECH MAHINDRA	KOLKATA
5722.	TECH MAHINDRA (P) LTD.	BANGALORE
5723.	TECH MAHINDRA LTD.	BANGALORE
5724.	TECH MAHINDRA LTD.	CHENNAI
5725.	TECH MAHINDRA LTD.	HYDERABAD
5726.	TECH MAHINDRA LTD.	PUNE
5727.	TECH VAISHNAV	HYDERABAD
5728.	TECHAVERA SOLUTIONS (P) LTD.	DELHI
5729.	TECHBINS SOLUTION LTD.	BANGALORE
5730.	TECHMAHINDRA LTD.	MUMBAI
5731.	TECHMAHINDRA LTD.	ABUDHABI
5732.	TECHMAHINDRA LTD.	BANGALORE
5733.	TECHMAHINDRA LTD.	CHANDIGARH
5734.	TECHMAHINDRA LTD.	CHENNAI
5735.	TECHMAHINDRA LTD.	DELHI
5736.	TECHMAHINDRA LTD.	DUBAI
5737.	TECHMAHINDRA LTD.	MUMBAI
5738.	TECHMAHINDRA LTD.	NAGPUR
5739.	TECHMAHINDRA LTD.	NASHIK
5740.	TECHMAHINDRA LTD.	NOIDA
5741.	TECHMAHINDRA LTD.	RANCHI
5742.	TECHMATIC SYSTEMS	HYDERABAD
5743.	TECHNICAL CONCEPTS ARABIA	SAUDIARABIA
5744.	TECHNICAL OILFIELD SUPPLIES CENTRE	QATAR
5745.	TECHNICO INDUSTRIES LTD.	GURGAON

S.No.	ORGANIZATION	LOCATION
5746.	TECHNIP (I) LTD.	CHENNAI
5747.	TECHNIP (I) LTD.	MUMBAI
5748.	TECHNIP KUWAIT	HYDERABAD
5749.	TECHNIPFMC	DOHA
5750.	TECHNIPFMC	HYDERABAD
5751.	TECHNIPFMC	NOIDA
5752.	TECHNIPFMC ABU DHABI	ABUDHABI
5753.	TECHNO (I) NJR INSTITUTE AND TECHNOLOGY UDAIPUR	PUNE
5754.	TECHNO (I) NJR INSTITUTE OF TECHNOLOGY	UDAIPUR
5755.	TECHNOLOGY VENTURE MARINE EQPT LLC	DUBAI
5756.	TECHNOMED INDIA	DELHI
5757.	TECHNOSOFT ENGINEERING PROJECTS LTD.	MUMBAI
5758.	TECHNOSOLUTIONS & DESIGNS (P) LTD.	BANGALORE
5759.	TECHOLUTION (I) (P) LTD.	HYDERABAD
5760.	TECHOMAX AUTOMATION	DELHI
5761.	TECHOMEGA	HYDERABAD
5762.	TECHPROLABZ (P) LTD.	DELHI
5763.	TECHTRUNK VENTURES (P) LTD.	DELHI
5764.	TECHWAVE CONSULTING (I) (P) LTD.	HYDERABAD
5765.	TECNICAS REUNIDAS	DUBAI
5766.	TECRA SYSTEMS (P) LTD.	HYDERABAD
5767.	TECSOL SOFTWARE (P) LTD.	BANGALORE
5768.	TECTON ENGINEERING AND CONSTRUCTION CO	QATAR
5769.	TECUMSEH PRODUCTS (I) (P) LTD.	FARIDABAD
5770.	TEFUGEN TECHNOLOGIES (P) LTD.	TRICHY
5771.	TEJAS NETWORKS	BANGALORE
5772.	TEJAS NETWORKS LTD.	BANGALORE
5773.	TEJAS NETWORKS LTD.	DELHI
5774.	TEK SYSTEMS	PUNE
5775.	TEK TRAVELS (P) LTD.	DELHI
5776.	TEKSYSTEMS (ALLEGIS GROUP)	BANGALORE
5777.	TEKSYSTEMS (ALLEGIS GROUP)	HYDERABAD
5778.	TEKTRONIX (I) (P) LTD.	BANGALORE
5779.	TEKTRONIX (R&D) INDIA	BANGALORE
5780.	TELERAD TECH (P) LTD.	BANGALORE
5781.	TELESONIC (P) LTD.	HYDERABAD
5782.	TELIT COMMUNICATIONS (I) (P) LTD.	BANGALORE
5783.	TELSTRA (I) (P) LTD.	HYDERABAD
5784.	TEMENOS	BANGALORE
5785.	TEMENOS (I) (P) LTD.	CHENNAI
5786.	TENNECO AUTOMOTIVE (I) (P) LTD.	BANGALORE
5787.	TENNECO AUTOMOTIVE (I) (P) LTD.	HOSUR
5788.	TENOVA (I) (P) LTD.	CHENNAI
5789.	TENTACLE TECHNOLOGIES SDN BHD	KUALALUMPUR
5790.	TERADATA (I) (P) LTD.	BANGALORE
5791.	TERADATA (I) (P) LTD.	HYDERABAD
5792.	TERADATA (I) (P) LTD.	MUMBAI
5793.	TEREX (I) (P) LTD.	BANGALORE
5794.	TEREX (I) (P) LTD.	PUNE
5795.	TESSOLVE SEMICONDUCTOR (P) .LTD	BANGALORE
5796.	TESSOLVE SEMICONDUCTOR (P) LTD.	BANGALORE
5797.	TESSOLVE SEMICONDUCTORS (P) LTD.	BANGALORE
5798.	TESSOLVE SEMICONDUCTROS (P) LTD.	BANGALORE
5799.	TEST AND VERIFICATION SOLUTIONS (P) LTD.	BANGALORE
5800.	TEST AND VERIFICATION SOULTIONS	BANGALORE
5801.	TESTO ENGINEERING WORKS (P) LTD.	PUNE
5802.	TESTYANTRA (I) (P) LTD.	BANGALORE
5803.	TETRA PAK SOUTH EAST ASIA (P) LTD.	TETRAPAKSOUTH
5804.	TEVA API (I) (P) LTD.	DELHI
5805.	TEXAS INSTRUMENTS	BANGALORE
5806.	TEXAS INSTRUMENTS (I) (P) LTD.	BANGALORE
5807.	TEXAS INSTRUMENTS BANGALORE INDIA	BANGALORE
5808.	TEXAS INSTRUMENTS INDIA	BANGALORE
5809.	TEXTRON (I) (P) LTD.	BANGALORE
5810.	THALES	DELHI
5811.	THALES (I) (P) LTD.	BANGALORE
5812.	THALES ESECURITY	DELHI
5813.	THARMAX GLOBAL	DELHI
5814.	THARMAX GLOBAL	HYDERABAD
5815.	THARMAX GLOBAL	KOLKATA
5816.	THARMAX GLOBAL	PUNE

S.No.	ORGANIZATION	LOCATION
5817.	THDCIL	DELHI
5818.	THE AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA	PUNE
5819.	THE BOEING CO	BANGALORE
5820.	THE BOEING COMPANY	BANGALORE
5821.	THE CATHOLIC SYRIAN BANK LTD.	BANGALORE
5822.	THE DENTAL CLINIC	PUNJAGUTTA
5823.	THE EYE FOUNDATION	BANGALORE
5824.	THE EYE FOUNDATION	COIMBATORE
5825.	THE EYE VIEW DEVELOPERS (P) LTD.	SHARJAH
5826.	THE FEDERAL BANK LTD.	BANGALORE
5827.	THE HI TECH ROBOTIC SYSTEMZ LTD.	DELHI
5828.	THE HI-TECH GEARS LTD.	PUNE
5829.	THE HI-TECH ROBOTIC SYSTEMZ LTD.	DELHI
5830.	THE HI-TECH ROBOTIC SYSTEMZ LTD.	PUNE
5831.	THE INDIAN STEEL & WIRE PRODUCTS LTD.	KOLKATA
5832.	THE KANOO GROUP	ABUDHABI
5833.	THE MADRAS PHARMACEUTICALS	CHENNAI
5834.	THE MISSION HOSPITAL	KOLKATA
5835.	THE MISSION HOSPITAL DURGAPUR WEST BENGAL	DURGAPUR
5836.	THE OMAN CONSTRUCTION COMPANY	CHENNAI
5837.	THE PATENT OFFICE MINISTRY OF COMMERCE A	DELHI
5838.	THE RAMCO CEMENTS LTD.	ARIYALUR
5839.	THE RAMCO CEMENTS LTD.	TAMILNADU
5840.	THE TATA POWER CO. LTD.	MUMBAI
5841.	THE TATA POWER CO. LTD. STATERGIC	BANGALORE
5842.	THE TINPLATE CO. OF (I) LTD.	JAMSHEDPUR
5843.	THE WORLD BANK	CHENNAI
5844.	THE WORLD BANK GROUP	CHENNAI
5845.	THERMAX LTD.	CHENNAI
5846.	THERMAX LTD.	PUNE
5847.	THERMO FISHER SCIENTIFIC	BANGALORE
5848.	THINCI SEMICONDUCTORS	HYDERABAD
5849.	THINK FUTURE TECHNOLOGIES (P) LTD.	GURGAON
5850.	THINKNSOLUTIONS	CHENNAI
5851.	THINVENT TECHNOLOGIES (P) LTD.	MANESAR
5852.	THIRD I TECHNOSOFT (P) LMT.	PUNE
5853.	THOMASSEN SERVICES & CONTRACTING CO.LLC	DUBAI
5854.	THOMSON REUTERS	BANGALORE
5855.	THOMSON REUTERS INTERNATIONAL SERVICES P	BANGALORE
5856.	THOUGHTWORKS TECHNOLOGIES (I) (P) LTD.	GURGAON
5857.	THOUGHTWORKS TECHNOLOGIES (I) (P) LTD.	HYDERABAD
5858.	THOUGHTWORKS TECHNOLOGIES (I) (P) LTD.	PUNE
5859.	THRIVENI EARTHMOVERS (P) LTD.	JAMSHEDPUR
5860.	THUMBAY HOSPITAL	AJMAN
5861.	THUNDERSOFT (I) (P) LTD.	HYDERABAD
5862.	THYSSENKRUPP ELEVATORS QATAR	HYDERABAD
5863.	THYSSENKRUPP INDUSTRIES (I) (P) LTD.	PUNE
5864.	THYSSENKRUPP SYSTEM ENGINEERING (P) LTD.	HYDERABAD
5865.	THYSSENKRUPP SYSTEM ENGINEERING (P) LTD.	MUMBAI
5866.	THYSSENKRUPP SYSTEM ENGINEERING (P) LTD.	PUNE
5867.	THYSSENKRUPP SYSTEM ENGINEERING (P) LTD.	THANE
5868.	TIBCO SOFTWARE (I) (P) LTD.	BANGALORE
5869.	TIBCO SOFTWARE (I) (P) LTD.	HYDERABAD
5870.	TIETO (I) (P) LTD.	PUNE
5871.	TIFR HYDERABAD	HYDERABAD
5872.	TIGER ANALYTICS	BANGALORE
5873.	TIGER ANALYTICS	CHENNAI
5874.	TIL LTD.	KOLKATA
5875.	TIMES INTERNET (P) LTD.	GURGAON
5876.	TIMES INTERNET (P) LTD.	NOIDA
5877.	TIMES INTERNET LTD.	DELHI
5878.	TIMKEN ENGINEERING & RESEARCH (I) (P) LTD.	BANGALORE
5879.	TIPL AJMER	AJMER
5880.	TISMO TECHNOLOGY SOLUTIONS (P) LTD.	BANGALORE
5881.	TITAN CO. LTD.	BANGALORE
5882.	TITAN CO. LTD.	HOSUR
5883.	TITAN ENGINEERING & AUTOMATION LTD.	BANGALORE
5884.	TITAN ENGINEERING AND AUTOMA.	BANGALORE
5885.	TITAN ENGINEERING AND AUTOMATION	BANGALORE
5886.	TITAN ENGINEERING AND AUTOMATION LTD.	CHENNAI
5887.	TMEIC INDUSTRIAL SYSTEMS (I) (P) LTD.	HYDERABAD

S.No.	ORGANIZATION	LOCATION
5888.	TMF GROUP	DELHI
5889.	TMF SERVICES (I) (P) LTD.	DELHI
5890.	TML DRIVELINES LTD.	JAMSHEDPUR
5891.	TML DRIVELINES LTD.	LUCKNOW
5892.	TO THE NEW	DELHI
5893.	TOKAI RIKA MINDA (I) (P) LTD.	BANGALORE
5894.	TOKOPEDIA	NOIDA
5895.	TOLANI MARITIME INSTITUTE	PUNE
5896.	TOLANI PROJECTS (P) LTD.	GOA
5897.	TOLEDO ARABIA RIYASH	TOLEDOARABIA
5898.	TONGLIT AUTOGISTIC (P) LTD.	BANGALORE
5899.	TOOLTECH GLOBAL ENGINEERING PUNE	PUNE
5900.	TOPNET DISTRIBUTION	DUBAI
5901.	TORONTO DOMINION BANK SINGAPORE	HYDERABAD
5902.	TORRENT PHARMACEUTICALS LTD.	CHENNAI
5903.	TOSHIBA	DELHI
5904.	TOSHIBA (I) (P) LTD.	DELHI
5905.	TOSHIBA SOFTWARE (I) (P) LTD.	BANGALORE
5906.	TOSIL SYSTEMS (P) LTD.	BANGALORE
5907.	TOTAL DENTAL CARE	MIRAJ
5908.	TOTAL E&P QATAR	GOA
5909.	TOTAL OIL (I) (P) LTD.	HYDERABAD
5910.	TOTAL SYSTEM SERVICES	NOIDA
5911.	TOWNSCRIPT	PUNE
5912.	TOYOTA INDUSTRIES ENGINE (I) (P) LTD.	BANGALORE
5913.	TP VISION (I) (P) LTD.	BANGALORE
5914.	TPS INFRASTRUCTURE LTD.	BHILAI
5915.	TPSC (I) (P) LTD.	HYDERABAD
5916.	TRACKMYBEAT HEALTHCARE (I) (P) LTD.	DELHI
5917.	TRACTOR AND FARM EQUIPMENTS LTD.	CHENNAI
5918.	TRACTORS AND FARM EQUIPMENT LTD.	BANGALORE
5919.	TRACTORS AND FARM EQUIPMENT LTD.	CHENNAI
5920.	TRAINING AND TECHNICAL EDUCATION UTTARAK	HARIDWAR
5921.	TRANSASIA BIO MEDICALS LTD.	MUMBAI
5922.	TRANSCEND INFOSYSTEMS (P) LTD.	DELHI
5923.	TRANSCEND INFOSYSTEMS (P) LTD.	NOIDA
5924.	TRANTER (I) (P) LTD.	PUNE
5925.	TRAVANCORE ANALYTICS (P) LTD.	BANGALORE
5926.	TREDEENCE ANALYTICS	BANGALORE
5927.	TRENCHANT TRADING SYSTEMS (P) LTD.	CHENNAI
5928.	TRENCHLESS ENGINEERING SERVICES (P) LTD.	DELHI
5929.	TRENDS ELECTROMECHANICAL WORKS LLC	DUBAI
5930.	TRI WORLD DEVELOPERS	ERNAKULAM
5931.	TRIAD SOFTWARE (P) LTD.	CHENNAI
5932.	TRIANGLE MARINE SERVICES	DUBAI
5933.	TRIANGULE	BANGALORE
5934.	TRIANZ HOLDINGS (P) LTD.	CHENNAI
5935.	TRICHY INSTITUTE FOR WELDING	TRICHY
5936.	TRICON INFOTECH LLP	BANGALORE
5937.	TRICORE SOLUTIONS (P) LTD.	NOIDA
5938.	TRIDENT INFOSOL	BANGALORE
5939.	TRIDENT INFOSOL (P) LTD.	BANGALORE
5940.	TRIMAX IT INFRASTRUCTURE	UJJAIN
5941.	TRIMBLE INFORMATION TECHNOLOGIES	CHENNAI
5942.	TRIMBLE INFORMATION TECHNOLOGIES (I) (P) LTD.	CHENNAI
5943.	TRIO ELEVATORS	PUNE
5944.	TRIPOD	HYDERABAD
5945.	TRIQUESTA PTE LTD. SINGAPORE	SINGAPORE
5946.	TRIUMPH MOTORCYCLES (I) (P) LTD.	DELHI
5947.	TRIVENI TURBINES LTD.	BANGALORE
5948.	TRUE INFLUENCE	BANGALORE
5949.	TRUMPF (I) (P) LTD.	PUNE
5950.	TRUSTED AEROSPACE ENGINEERING (P) LTD.	CHENNAI
5951.	TSU- JHARKHAND STATE AIDS CONTROL SOCIETY	DELHI
5952.	TSYS	DELHI
5953.	T-SYSTEMS ICT (I) (P) LTD.	PUNE
5954.	TTS MARINE SERVICES	DUBAI
5955.	TTS MARINE SERVICES L.L.C	DUBAI
5956.	TTS MARINE SERVICES LLC	DUBAI
5957.	TUBACEX	ASANGAON
5958.	TUBE INVESTMENT OF (I) LTD.	CHENNAI

S.No.	ORGANIZATION	LOCATION
5959.	TUBE INVESTMENTS OF (I) LTD.	CHENNAI
5960.	TUBE INVESTMENTS OF (I) LTD.	COIMBATORE
5961.	TUBE PRODUCTS OF INDIA	CHENNAI
5962.	TURBINE SERVICES & SOLUTIONS	ABUDHABI
5963.	TURBOLAB TECHNOLOGIES	KOCHI
5964.	TURNER CONSULTING & MANAGEMENT SERVICES (I) PVT	MUMBAI
5965.	TURNER CONSULTING AND MANAGEMENT SERVICES INDIA	MUMBAI
5966.	TURNER PROJECT MANAGEMENT	MUMBAI
5967.	TURNIN INNOVATION TECHNOLOGIES (P) LTD.	HYDERABAD
5968.	TUV (I) (P) LTD.	PUNE
5969.	TUV RHEINLAND MIDDLE EAST LLC	DUBAI
5970.	TV SUNDRAM IYENGAR & SONS (P) LTD.	CHENNAI
5971.	TVARANA SOFTWARE SOLUTIONS	HYDERABAD
5972.	TVM SIGNALLING AND TRANSPORTATION SYSTEMS (P) LTD.	BANGALORE
5973.	TVM SIGNALLING AND TRANSPORTATION SYSTEMS PV	BANGALORE
5974.	TVS - SUNDRAM FASTENERS LTD.	CHENNAI
5975.	TVS BRAKES (I) (P) LTD.	INDORE
5976.	TVS ELASTOMERIC	MADURAI
5977.	TVS MOTOR CO. (P) LTD.	DELHI
5978.	TVS MOTOR CO. LTD.	BANGALORE
5979.	TVS MOTOR COMPANY LTD.	BANGALORE
5980.	TVS MOTOR COMPANY LTD.	DELHI
5981.	TVS MOTOR COMPANY LTD.	HOSUR
5982.	TVS MOTOR COMPANY LTD.	TAMILNADU
5983.	TVS MOTOR COMPANY	BANGALORE
5984.	TVS MOTOR MANUFACTURING CO. LTD.	BANGALORE
5985.	TVS SUNDRAM FASTENERS	CHENNAI
5986.	TVS SUNDRAM FASTENERS LTD.	CHENGALPET
5987.	TVS SUNDRAM FASTENERS LTD.	CHENNAI
5988.	TVS TRAINING & SERVICES LTD.	CHENNAI
5989.	TVSMOTOR MANUFACTURING COMPANY	BANGALORE
5990.	TWI (I) (P) LTD.	CHENNAI
5991.	TYCO FIRE & SECURITY UAE LLC.	ABUDHABI
5992.	U N MEHTA INSTITUTE OF CARDIOLOGY & RESE	AHMEDABAD
5993.	U R RAO SATELLITE CENTRE (URSC) / ISRO	BANGALORE
5994.	U.P. PROVINCIAL MEDICAL AND HEALTH SERVICES	DELHI
5995.	U.R.RAO SATELLITE CENTRE	BANGALORE
5996.	U.S CONSULATE. DUBAI.	DUBAI
5997.	U.S.P.C. JAIN CHARITABLE HOSPITAL	LUDHIANA
5998.	UBER (I) RESEARCH AND DEVELOPMENT (P) LTD.	CHENNAI
5999.	UBIBOTS TECHNOLOGIES (P) LTD.	CHENNAI
6000.	UBISOFT ENTERTAINMENT (I) (P) LTD.	PUNE
6001.	UBS BUSINESS SOLUTIONS (I) (P) LTD.	HYDERABAD
6002.	UBS BUSINESS SOLUTIONS (I) (P) LTD.	MUMBAI
6003.	UCAL FUEL SYSTEMS	CHENNAI
6004.	UCAL FUEL SYSTEMS LTD.	CHENNAI
6005.	UDAIPUR CEMENT WORKS LTD.	UDAIPUR
6006.	UDGAM HOSPITAL	MUMBAI
6007.	UIPATH INDIA	BANGALORE
6008.	UK MECHANICAL ENGINEERING (P) LTD.	KOLKATA
6009.	UL (I) (P) LTD.	BANGALORE
6010.	ULTRA ARCHITECTURAL CONSULTANCY	DUBAI
6011.	ULTRA ENGINEERS	PUNE
6012.	ULTRATECH CEMENT	DELHI
6013.	ULTRATECH CEMENT LTD.	JAFRABAD
6014.	ULTRATECH CEMENT LTD.	KOTPUTLI
6015.	UMAS (I) (P) LTD. PUNE	PUNE
6016.	UNDERWRITERS LABORATORIES INC	BANGALORE
6017.	UNICEF	DELHI
6018.	UNICHEM LABORATORIES LTD.	DELHI
6019.	UNICOMMERCE ESOLUTIONS (P) LTD.	GURGAON
6020.	UNICORN INDUSTRIES LTD.	HYDERABAD
6021.	UNIKEN (I) (P) LTD.	BANGALORE
6022.	UNIMONI GBS	CHENNAI
6023.	UNION BANK OF INDIA	MUMBAI
6024.	UNIQUE BIOTECH LTD.	HYDERABAD
6025.	UNIQUE IDENTIFICATION AUTHORITY OF INDIA	BANGALORE
6026.	UNISYS (I) (P) LTD.	BANGALORE
6027.	UNISYS GLOBAL SERVICES	BANGALORE
6028.	UNITED AIRLINES	GURGAON
6029.	UNITED HEALTH CARE	BANGALORE

S.No.	ORGANIZATION	LOCATION
6030.	UNITED HEALTH GROUP	HYDERABAD
6031.	UNITED HEALTH GROUP	NOIDA
6032.	UNITED ONLINE SOFTWARE DEVELOPMENT INDIA	HYDERABAD
6033.	UNITED STEEL INDUSTRIAL CO. (K.S.C.C)	CHENNAI
6034.	UNITED STEEL INDUSTRIAL CO. (K.S.C.C)	COIMBATORE
6035.	UNITED TECHNOLOGIES	HYDERABAD
6036.	UNITED TECHNOLOGIES CORPORATION	MUMBAI
6037.	UNITED TECHNOLOGY AEROSPACE SYSTEMS IND	BANGALORE
6038.	UNITEDHEALTH GROUP	BANGALORE
6039.	UNITEDHEALTH GROUP	HYDERABAD
6040.	UNITEDHEALTHCARE	BANGALORE
6041.	UNITEDLEX BPO (P) LTD.	GURGAON
6042.	UNIVERSAL VOLTAS	DUBAI
6043.	UNIVERSITY GRANTS COMMISSION	DELHI
6044.	UNIVLABS	HYDERABAD
6045.	UNLIMIT IOT (P) LTD. (RELIANCE GROUP COMPANY)	BANGALORE
6046.	UPADPRO SOFTWARE	MUMBAI
6047.	UPANAL CNC SOLUTION	KHAMBHAT
6048.	UPDATER SERVICES (P) LTD.	CHENNAI
6049.	UPL LTD.	MUMBAI
6050.	UR RAO SATELLITE CENTRE	BANGALORE
6051.	UR RAO SATELLITE CENTRE (ISRO)	BANGALORE
6052.	URB ENGG. PVT.LTD.	DELHI
6053.	US TECH SOLUTIONS	HYDERABAD
6054.	US TECHNOLOGY INTERN (P) LTD.	BANGALORE
6055.	US TECHNOLOGY INTERNATIONAL (P) LTD.	BANGALORE
6056.	USEREADY TECHNOLOGY (P) LTD.	BANGALORE
6057.	USO PRL	UDAIPUR
6058.	UST GLOBAL	BANGALORE
6059.	UST GLOBAL	CHENNAI
6060.	UST GLOBAL	COIMBATORE
6061.	UST GLOBAL	DELHI
6062.	UST GLOBAL	MALAYSIA
6063.	UST GLOBAL	TRIVANDRUM
6064.	UST GLOBAL SINGAPORE PTE LTD.	CHENNAI
6065.	USTER TECHNOLOGIES (I) (P) LTD.	AHMEDABAD
6066.	UST-GLOBAL	BANGALORE
6067.	USUI SUSIRA INTERNATIONAL (P) LTD.	CHENNAI
6068.	UTC AEROSPACE SYSTEM	BANGALORE
6069.	UTC FIRE & SECURITY (I) LTD.	BANGALORE
6070.	UTC(GOOD RICH) AEROSPACE SYSTEMS	BANGALORE
6071.	UTICO FZC	UAE
6072.	UTILE SOFTWARE SOLUTINOS (P) LTD.	BANGALORE
6073.	UTKAL ALUMINA INTERNATIONAL LTD.	HYDERABAD
6074.	UTKAL ALUMINA INTERNATIONAL LTD.	KOLKATA
6075.	UTKAL ALUMINA INTERNATIONAL LTD.	RAYAGADA
6076.	UTM SHILLONG	DELHI
6077.	UTOPUS INSIGHTS (I) (P) LTD.	CHENNAI
6078.	UTTARAKHAND FOREST RESOURCE MANAGEMENT PROJECT	DELHI
6079.	V GUARD INDUSTRIES LTD.	ERNAKULAM
6080.	V.C.S.G. MEDICAL COLLEGE & RESEARCH INST	SRINAGAR
6081.	V.M.SALGAOCAR HOSPITAL	GOA
6082.	V2SOFT (P) LTD.	BANGALORE
6083.	V5 SEMICONDUCTORS	BANGALORE
6084.	VA TECH WABAG LTD.	CHENNAI
6085.	VAKRANGEE LTD.	MUMBAI
6086.	VALE OMAN PELLETIZING CO. LLC	OMAN
6087.	VALE OMAN PELLETIZING CO. LLC	SOHAROMAN
6088.	VALE OMAN PELLETIZING COMPANY	CHENNAI
6089.	VALEO (I) (P) LTD.	BANGALORE
6090.	VALEO (I) (P) LTD.	CHENNAI
6091.	VALEO (I) (P) LTD.	PUNE
6092.	VALEO (I) (P) LTD. NAVALUR	CHENNAI
6093.	VALEO LIGHTING SYSTEMS	CHENNAI
6094.	VALEOMAN PELLETIZING COMPANY	SOHAROMAN
6095.	VALGEN DECISION TECHNOLOGIES	BANGALORE
6096.	VALMONT STRUCTURES	PUNE
6097.	VALUE MOMENTUM	HYDERABAD
6098.	VALUE POINT SYSTEM (P) LTD.	HYDERABAD
6099.	VALUELABS SOLUTIONS LLP	HYDERABAD
6100.	VALUELABS SOLUTIONS LLP	SINGAPORE

S.No.	ORGANIZATION	LOCATION
6101.	VAM SOLAR POWER LLP	NOIDA
6102.	VAMSHADHARA PAPER MILLS	HYDERABAD
6103.	VANDERLANDE INDUSTRIES B.V.	CHENNAI
6104.	VANNA INFORMATION TECHNOLOGIES (I) PVT	HYDERABAD
6105.	VARA UNITED (P) LTD.	HYDERABAD
6106.	VARANG INFORMATION TECHNOLOGIES (P) LTD.	HYDERABAD
6107.	VARIAN MEDICAL SYSTEMS	PUNE
6108.	VARROC POLYMERS (P) LTD.	PUNE
6109.	VASSAR LABS	HYDERABAD
6110.	VASUDHA PHARMA CHEM LTD.	HYDERABAD
6111.	VASUDHA PHARMA CHEM LTD.	VISAKHAPATNAM
6112.	VATECH WABAG LTD.	CHENNAI
6113.	VATECH WABAG LTD.	DELHI
6114.	VAYAVYA LABS (P) LTD.	DELHI
6115.	VE COMMERCIAL VEHICLE	DELHI
6116.	VE COMMERCIAL VEHICLED LTD.	INDORE
6117.	VE COMMERCIAL VEHICLED LTD.	PITHAMPUR
6118.	VE COMMERCIAL VEHICLED LTD.	SALEM
6119.	VE COMMERCIAL VEHICLES LTD.	MUMBAI
6120.	VEC OIL & GAS CONSULTANTS	MUSCAT,OMAN
6121.	VEDANG CONSULTANCY SERVICES (P) LTD.	CHENNAI
6122.	VEDANTA LTD.	BHATAPARA
6123.	VEDANTA LTD.	CHITRADURGA
6124.	VEDANTA LTD.	CHITTORGARH
6125.	VEDANTA LTD.	CODLIMINE
6126.	VEDANTA LTD.	GAUTAMBUDDHANAGAR
6127.	VEDANTA LTD.	GOA
6128.	VEDANTA LTD.	GULBARGARH
6129.	VEDANTA LTD.	JHARSUGUDA
6130.	VEDANTA LTD.	KHARACH
6131.	VEDANTA LTD.	KOTPUTLI
6132.	VEDANTA LTD.	RAIPUR
6133.	VEDANTA LTD.	RATNAGIRI
6134.	VEDANTA LTD.	SCWSEWAGRAM
6135.	VEDANTA LTD.	SILVASSA
6136.	VEDANTA LTD.	TAMILNADU
6137.	VEDANTA LTD.	THOOTHUKUDI
6138.	VEDANTA LTD.	TUTICORIN
6139.	VEE TECHNOLOGIES	BANGALORE
6140.	VEE TECHNOLOGIES (P) LTD.	BANGALORE
6141.	VEEBRIJ SOFTWARE (P) LTD.	DELHI
6142.	VELMENNI R&D (P) LTD.	DELHI
6143.	VELMENNI RESEARCH & DEVELOPMENT (P) LTD.	DELHI
6144.	VELOCIS SYSTEM (P) LTD. NOIDA	NOIDA
6145.	VELOCIS SYSTEMS (P) LTD.	DELHI
6146.	VELOSI CERTIFICATION LLC	QATAR
6147.	VELVETBUD TECHNOLOGIES (P) LTD.	HYDERABAD
6148.	VEM TECHNOLOGIES (P) LTD.	HYDERABAD
6149.	VENKATESH HR SOLUTIONS	PUNE
6150.	VENKATESHWAR HOSPITAL	DELHI
6151.	VENTURE CENTER (ENTREPRENEURSHIP DEVELOPMENT CEN)	PUNE
6152.	VERIFONE (I) TECHNOLOGY (P) LTD.	BANGALORE
6153.	VERINT SYSTEMS (I) (P) LTD.	BANGALORE
6154.	VERITAS SOFTWARE TECHNOLOGIES (I) (P) LTD.	PUNE
6155.	VERITAS STORAGE (SINGAPORE) PTE LTD.	SINGAPORE
6156.	VERITAZ HEALTHCARE LTD. HYDERABAD	HYDERABAD
6157.	VERNALIS SYSTEMS	CHENNAI
6158.	VERTEX AUTOMATION (P) LTD.	DELHI
6159.	VERTEXONE PROCESS SOLUTION (P) LTD.	GURGAON
6160.	VERTIV ENERGY (PVT) LTD.	HYDERABAD
6161.	VERTIV ENERGY (PVT) LTD.	MUMBAI
6162.	VERTIV ENERGY (PVT) LTD.	PUNE
6163.	VERTIV ENERGY (PVT) LTD.	THANE
6164.	VESTAS TECH R&D (P) LTD.	CHENNAI
6165.	VESUVIUS (I) LTD.	CHENNAI
6166.	VESUVIUS (I) LTD.	PUNE
6167.	VGUARD INDUSTRIES LTD.	COCHIN
6168.	VGUARD INDUSTRIES LTD.	COIMBATORE
6169.	VIASAT (I) (P) LTD.	CHENNAI
6170.	VIBRACOUSTIC NOIDA (P) LTD.	NOIDA
6171.	VICTORA AUTO (P) LTD.	DELHI

S.No.	ORGANIZATION	LOCATION
6172.	VIDAL HEALTH SYSTEMS	CHENNAI
6173.	VIDEOCON INDUSTRIES LTD.	MUMBAI
6174.	VIHAA MULTISPECIALITY HOSPITAL	CHENNAI
6175.	VIHAAN NETWORKS LTD.	GURGAON
6176.	VIHAS HOSPITAL	TRICHY
6177.	VIJAY INDUSTRIES	CHENNAI
6178.	VIJAYA HOSPITALS	SALEM
6179.	VIKAS INDUSTRIES	MUMBAI
6180.	VINAYAKA COMPUTERS	BANGALORE
6181.	VINODRAI ENGINEERS (P) LTD.	PUNE
6182.	VINOVE SOFTWARE & SERVICES	DELHI
6183.	VIPANY MANAGEMENT CONSULTING (P) LTD.	BANGALORE
6184.	VIRINCHI HOSPITAL	HYDERABAD
6185.	VIRINCHI HOSPITALS	HYDERABAD
6186.	VIRTUAL ENGINEERING SERVICES (P) LMD.	DELHI
6187.	VIRTUAL SIMUTECH (P) LTD.	PUNE
6188.	VIRTUOSOS SOLUTIONS (P) LTD.	BANGALORE
6189.	VIRTUOSOS SOLUTIONS (P) LTD.	CHENNAI
6190.	VIRTUOSOS SOLUTIONS (P) LTD.	GURGAON
6191.	VIRTUOSOS SOLUTIONS (P) LTD.	HYDERABAD
6192.	VISA WORLD WIDE PTE LTD.	SINGAPORE
6193.	VISAKA INDUSTRIES LTD.	HYDERABAD
6194.	VISHAL HOSPITAL	JAGADHRI
6195.	VISHAY PRECISION TRANSDUCERS (I) (P) LTD.	CHENNAI
6196.	VISION TECHNOLOGY	DELHI
6197.	VISTA AUTOMATION	DUBAI
6198.	VISTEON CORPORATION	PUNE
6199.	VISTEON ELECTRONICS (I) (P) LIMITE	CHENNAI
6200.	VISTEON ELECTRONICS GERMANY GMBH	BANGALORE
6201.	VISTEON TECHICAL & SERVICES CENTRE	CHENNAI
6202.	VISTEON TECHNICAL & SERVICES CENTRE (P) LTD.	PUNE
6203.	VISUAL IQ TECHNO SERVICES (I) (P) LTD.	COCHIN
6204.	VITALHEALTH SOFTWARE (P) LTD.	MUMBAI
6205.	VITECH SYSTEMS ASIA (P) LTD.	HYDERABAD
6206.	VIVEN INNOVATIVE TECHNOLOGIES	HYDERABAD
6207.	VIVOTEX (I) (P) LTD.	HYDERABAD
6208.	VIZAG STEEL RINL	VISAKHAPATNAM
6209.	VK:E ENVIRONMENTAL	PUNE
6210.	VLOCITY CLOUD APPLICATIONS	BANGALORE
6211.	VMC SYSTEMS LTD.	HYDERABAD
6212.	VMWARE SOFTWARE (I) (P) LTD.	BANGALORE
6213.	VMWARE SOFTWARE (I) (P) LTD.	CHENNAI
6214.	VMWARE SOFTWARE (I) (P) LTD.	HYDERABAD
6215.	VMWARE SOFTWARE (I) (P) LTD.	PUNE
6216.	VODAFONE (I) SERVICES (P) LTD.	PUNE
6217.	VODAFONE IDEA LTD.	BANGALORE
6218.	VODAFONE IDEA LTD.	KOLKATA
6219.	VODAFONE SHARED SERVICE	PUNE
6220.	VOEREIR (I) (P) LTD.	GURGAON
6221.	VOITH PAPER TECHNOLOGY (I) (P) L	KOLKATA
6222.	VOITH TURBO (P) LTD.	HYDERABAD
6223.	VOLANSYS TECHNOLOGIES	AHMEDABAD
6224.	VOLEN SOFTWARE SERVICES (P) LTD.	BANGALORE
6225.	VOLKSWAGEN (I) (P) LTD.	PUNE
6226.	VOLKSWAGEN INDIA	PUNE
6227.	VOLTAS QATAR WLL	DUBAI
6228.	VOLVO (I) (P) LTD.	BANGALORE
6229.	VOLVO (I) (P) LTD.	PUNE
6230.	VORTEX ENGINEERING (P) LTD.	CHENNAI
6231.	VOYAGE GROUP	DUBAI
6232.	VOYAGE MARINE AUTOMATION	DUBAI
6233.	VOYANTS SOLUTION (P) LTD.	CHENNAI
6234.	VTL ELECTRONICS LTD.	KOLKATA
6235.	VURAM TECHNOLOGIES	BANGALORE
6236.	VVDN TECHNOLOGIES	CHENNAI
6237.	VVDN TECHNOLOGIES	DELHI
6238.	VWR LAB PRODUCTS	COIMBATORE
6239.	VWR PART OF AVANTOR	COIMBATORE
6240.	VYOMINI TECH (P) LTD.	NOIDA
6241.	WAAREE ENERGIES LTD.	MUMBAI
6242.	WABCO (I) LTD.	CHENNAI

S.No.	ORGANIZATION	LOCATION
6243.	WABCO (I) LTD.	PUNE
6244.	WABTEC (I) TRANSPORTATION (P) LTD.	BANGALORE
6245.	WABTEC CORPORATION	BANGALORE
6246.	WADHWANI FOUNDATION	BANGALORE
6247.	WALLMAX INDIA	FARIDABAD
6248.	WALMAN	FARIDABAD
6249.	WALMART GLOBAL TECHNOLOGY SERVICES INDIA	BANGALORE
6250.	WALTER TOOLS (I) P LTD.	PUNE
6251.	WANBURY LTD.	MUMBAI
6252.	WANCLOUDS	BANGALORE
6253.	WAPCOS LTD.	HISAR
6254.	WARTSILA LLC	DUBAI
6255.	WATCHDATA TECHNOLOGIES (I) (P) LTD.	BANGALORE
6256.	WAVENET SOLUTION (P) LTD.	DELHI
6257.	WAY2LEAD EOMMERCE (P) LTD.	BANGALORE
6258.	WDTS (I) (P) LTD.	DELHI
6259.	WEALTHENGINE SOFTWARE (P) LTD.	BANGALORE
6260.	WEATHERFORD INTERNATIONAL	IRAQ
6261.	WEB ACCESS (I) (P) LTD.	MUMBAI
6262.	WEB INDIA	HYDERABAD
6263.	WEBSITE SKETCHERS (P) LTD.	DELHI
6264.	WEG INDUSTRIES (I) (P) LTD.	BANGALORE
6265.	WEIR ENSCI	BANGALORE
6266.	WEIR OIL & GAS	DUBAI
6267.	WELL FARGO INDIA	BANGALORE
6268.	WELLS FARGO	HYDERABAD
6269.	WELLS FARGO EGS (I) (P) LTD.	BANGALORE
6270.	WELLS FARGO EGS (I) (P) LTD.	HYDERABAD
6271.	WELMADE LOCKING SYSTEMS (P) LTD.	PUNE
6272.	WELUE STRATEGIC ALLIANCES (P) LTD.	GURGAON
6273.	WENDT (I) LTD.	HOSUR
6274.	WENDT INDIA	BANGALORE
6275.	WENDT INDIA	HOSUR
6276.	WEP SOLUTIONS LTD.	BANGALORE
6277.	WEP SOLUTIONS LTD.	DELHI
6278.	WEST BENGAL ELECTRONICS INDUSTRY DEVELOPMENT CORP	KOLKATA
6279.	WEST UNIFIED COMMUNICATION	BANGALORE
6280.	WESTEC SUPPLIES GENERAL TRADING-WESCO MANAGED	DUBAI
6281.	WESTERN DIGITAL	BANGALORE
6282.	WHEELS (I) LTD.	CHENNAI
6283.	WHIRLPOOL OF (I) LTD.	DELHI
6284.	WHIRLPOOL OF (I) LTD.	GURGAON
6285.	WHIRLPOOL OF (I) LTD.	PONDICHERRY
6286.	WHIRLPOOL OF (I) LTD.	PUNE
6287.	WHISHWORKS	HYDERABAD
6288.	WHITECROSS CLINIC HEALTH INITATIVE (P) LTD.	BANGALORE
6289.	WHIZCHIP DESIGN TECHNOLOGIES	HYDERABAD
6290.	WHIZCHIP DESIGN TECHNOLOGIES (P) LTD.	BANGALORE
6291.	WHIZCHIP DESING TECHNOLOGIES (P) LTD.	BANGALORE
6292.	WIKA INSTRUMENTS (I) (P) LTD.	PUNE
6293.	WILLIAM CONTROL (I) (P) LTD.	PUNE
6294.	WIMMBY TECHNOLOGIES (P) LTD.	DELHI
6295.	WINCOR NIXDORF PTE. LTD.	SINGAPORE
6296.	WINDLASS ENGINEERS & SERVICES	DEHRADUN
6297.	WIPRO GE HEALTHCARE	BANGALORE
6298.	WIPRO HR SOLUTIONS (P) LTD.	DELHI
6299.	WIPRO INFOTECH	BANGALORE
6300.	WIPRO INFOTECH	MUMBAI
6301.	WIPRO INFOTECH	MYSORE
6302.	WIPRO INFOTECH	PUNE
6303.	WIPRO LTD.	BANGALORE
6304.	WIPRO LTD.	CHENNAI
6305.	WIPRO LTD.	COIMBATORE
6306.	WIPRO LTD.	DELHI
6307.	WIPRO LTD.	GURGAON
6308.	WIPRO LTD.	HYDERABAD
6309.	WIPRO LTD.	JAIPUR
6310.	WIPRO LTD.	KOCHI
6311.	WIPRO LTD.	KOLKATA
6312.	WIPRO LTD.	MUMBAI
6313.	WIPRO LTD.	MYSORE

S.No.	ORGANIZATION	LOCATION
6314.	WIPRO LTD.	NOIDA
6315.	WIPRO LTD.	PUNE
6316.	WIPRO LTD.	TAMILNADU
6317.	WIPRO LTD.	UAE
6318.	WIRINTCO TECHNOLOGIES (P) LTD.	BANGALORE
6319.	WIRTGEN (I) (P) LTD.	PUNE
6320.	WISSEN BAUM ENGINEERING SOLUTIONS LLP	PUNE
6321.	WITZENMANN (I) (P) LTD.	KOLKATA
6322.	WJ GROUNDWATER QATAR LTD.	CHENNAI
6323.	WLT CORP	BANGALORE
6324.	WM GLOBAL TECHNOLOGY SERVICES (I) (P) LIMITE	BANGALORE
6325.	WME CONSULTANT	BANGALORE
6326.	WME CONSULTANTS	DUBAI
6327.	WMGTS - WALMARTLABSINDIA	BANGALORE
6328.	WNS GLOBAL SERVICES	DELHI
6329.	WOCKHARDT LTD.	MUMBAI
6330.	WOCKHARDT LTD.	VAPI
6331.	WOOD PLC	GURGAON
6332.	WOODFIELD SYSTEMS INTERNATIONAL PVT.LTD	MUMBAI
6333.	WOODGROUP PSN	DUBAI
6334.	WOODWARD (I) (P) LTD.	PUNE
6335.	WORLD BANK GROUP	CHENNAI
6336.	WORLD HEALTH ORGANIZATION	DELHI
6337.	WORLD METALS & ALLOYS (FZC)	CHENNAI
6338.	WORLD PLANNER S CONSULTING ENGINEERS	ABUDHABI
6339.	WORLDLINE (I) (P) LTD.	PUNE
6340.	WORLDPAY	PUNE
6341.	WORLEY	CHENNAI
6342.	WORLEY QATAR	HYDERABAD
6343.	WORLEYPARSON ENGINEERING (P) LTD.	ABUDHABI
6344.	WORLEYPARSON ENGINEERING (P) LTD.	DOHA
6345.	WORLEYPARSON ENGINEERING (P) LTD.	MUMBAI
6346.	WORLEYPARSON ENGINEERING (P) LTD.	MUSCAT,OMAN
6347.	WORLEYPARSON ENGINEERING (P) LTD.	SAUDIARABIA
6348.	WORLEYPARSONS OMAN	MUMBAI
6349.	WS ATKINS (I) (P) LTD.	BANGALORE
6350.	WS ATKINS (I) (P) LTD.	DELHI
6351.	WS ATKINS AND PARTNERS OVERSEAS	SHARJAH
6352.	WS ATKINS(IND) (P) LTD.	BANGALORE
6353.	WSP CONSULTANTS (I) (P) LTD.	BANGALORE
6354.	WSP CONSULTANTS (I) (P) LTD.	DUBAI
6355.	WSP CONSULTANTS (I) (P) LTD.	NOIDA
6356.	WSP MIDDLE EAST	UAE
6357.	XANADU REALTY	MUMBAI
6358.	XAVIENT DIGITAL (P) LTD.	NOIDA
6359.	XAVIENT INFORMATION SYSTEM	GURGAON
6360.	XAVIENT INFORMATION SYSTEM	NOIDA
6361.	XCHANGING SOLUTIONS LTD.	BANGALORE
6362.	XEBIA IT ARCHITECTS (I) (P) LTD.	GURGAON
6363.	XEEVA (I) (P) LTD.	HYDERABAD
6364.	XEROX TECHNOLOGIES SERVICES	BANGALORE
6365.	XEROX TECHNOLOGIES SERVICES (I) LLP	KOCHI
6366.	XILINX (I) TECHNOLOGIES (P) LTD.	HYDERABAD
6367.	XITADEL CAE TECHNOLOGIES (I) (P) LTD.	BANGALORE
6368.	XITADEL CAE TECHNOLOGIES (I) (P) LTD.	CHENNAI
6369.	XL SOLUTIONS LLC	BANGALORE
6370.	XORIAN SOLUTIONS (P) LTD.	PUNE
6371.	XORIAN TECGNOLOGIES	DELHI
6372.	XPO LOGISTICS	MUMBAI
6373.	XYLEM WATER SOLUTION (P) LTD.	VADODARA
6374.	XYTEL (I) (P) LTD.	PUNE
6375.	YAHOO SDC	BANGALORE
6376.	YAMAZAKI MAZAK INDIA	BANGALORE
6377.	YAMAZAKI MAZAK INDIA	CHENNAI
6378.	YAMAZAKI MAZAK INDIA	PUNE
6379.	YAMUNA MACHINE WORKS LTD.	SURAT
6380.	YANFENG (I) AUTOMOTIVE INTERIOR SYSTEM	PUNE
6381.	YARA ASIA PTE LTD.	BANGALORE
6382.	YARDI SOFTWARE (I) (P) LTD.	PUNE
6383.	YASHASWI DENTAL CLINIC	BANGALORE
6384.	YASHODA HOSPITALS (P) LTD.	HYDERABAD

S.No.	ORGANIZATION	LOCATION
6385.	YATRA.COM	GURGAON
6386.	YAZAKI (I) (P) LTD.	PUNE
6387.	YESTOSYSTEMS	GOA
6388.	YODLEE INFOTECH (P) LTD.	BANGALORE
6389.	YOGRAJ MULTITECH ENGINEERING PVT.LTD	PUNE
6390.	YOKOGAWA (I) LTD.	BANGALORE
6391.	YSCART	BANGALORE
6392.	YUKEN (I) LTD.	BANGALORE
6393.	YULU BIKES	BANGALORE
6394.	ZAID AL HUSSAIN LLC	DUBAI
6395.	ZAMIL PLASTICS LTD.	DAMMAM
6396.	ZAMIL STEEL	DUBAI
6397.	ZARAVYA INFORMATICS (P) LTD.	BANGALORE
6398.	ZAWAWI POWERTECH ENGINEERING LLC	DUBAI
6399.	ZCL CHEMICALS LTD.	MUMBAI
6400.	ZCON SOLUTIONS (P) LTD.	PUNE
6401.	ZEAL ENCORE TECHNOLOGIES	BANGALORE
6402.	ZEBRA TECHNOLOGIES LTD.	BANGALORE
6403.	ZEN TECHNOLOGIES LTD.	HYDERABAD
6404.	ZENCORP PTE LTD.	SINGAPORE
6405.	ZENSAR TECHNOLOGIES	BANGALORE
6406.	ZENSAR TECHNOLOGIES	HYDERABAD
6407.	ZENSAR TECHNOLOGIES	MUMBAI
6408.	ZENSAR TECHNOLOGIES	PUNE
6409.	ZEOMEGA INFOTECH (P) LTD.	BANGALORE
6410.	ZERO GALAXY TECHNOLOGIES (P) LTD.	NOIDA
6411.	ZEUS BIOTECH PRIVATE.LTD MYSORE	MYSORE
6412.	ZF (I) (P) LTD.	PUNE
6413.	ZF ELECTRONICS TVS (I) (P) LTD.	MADURAI
6414.	ZF HERO CHASSIS SYSTEMS (P) LTD.	CHENNAI
6415.	ZF WIND POWER COIMBATORE LTD.	COIMBATORE
6416.	ZH HEALTHCARE INC	KOCHI
6417.	ZIA SEMICONDUCTOR (P) LTD.	DELHI
6418.	ZILOGIC SYSTEMS	CHENNAI
6419.	ZINKA LOGISTICS SOLUTIONS (P) LTD.	BANGALORE
6420.	ZOHO CORPORATION	CHENNAI
6421.	ZOHO CORPORATION (P) LTD.	CHENNAI
6422.	ZOOL TECH SOLUTIONS (P) LTD.	BANGALORE
6423.	ZS ASSOCIATES	DELHI
6424.	ZS ASSOCIATES	GURGAON
6425.	ZS ASSOCIATES	PUNE
6426.	ZUARI INFRAWORLD (I) LTD.	GOA
6427.	ZYCUS INC.	MUMBAI
6428.	ZYDUS HOSPITAL ANAND	MUMBAI
6429.	ZYME SOLUTIONS (P) LTD.	BANGALORE
6430.	ZYNGA GAME NETWORK (P) LTD.	BANGALORE

**LIST OF PROJECT WORK SUBMITTED BY STUDENTS UNDER THE WORK INTEGRATED
LEARNING PROGRAMMES IN THE YEAR 2019**

S.No.	PROJECT WORK TITLE
	B.Tech. Engineering Technology
1.	33KV CABLES LOAD DIVERSION FROM EXISTING SUB STATION TO NEW STATION
2.	40TONNER TRACTOR TRAILOR MARKET SHARE IMPROVEMENT BY FIELD SUPPORT AND PRODUCT IMPROVEMENT IN CONTAINER APPLICATION
3.	4HI SKIN PASS ROLLING MILL INSTALLATION & COMMISSIONING OF ELECTRICAL EQUIPMENT
4.	ADOPTION OF MODULAR CONSTRUCTION METHOD FOR ERECTION OF D20 STRUCTURAL TOWER IN PLACE OF CONVENTIONAL METHOD
5.	ADVANCED COAL DUST EMISSIONS CONTROL TECHNOLOGIES FOR COAL-FIRED POWER PLANTS
6.	ADVANCED POWER DISTRIBUTION SYSTEM
7.	AERIAL INSPECTION OF TRANSMISSION OVERHEAD LINES USING UV, IR & VISUAL CAMERA ON UNMANNED AERIAL VEHICLES
8.	AI SPEAKER AUTOMATION TOOL
9.	AIR BAG CHAMBER WELDING CELL
10.	ALTERNATE TO PLASTIC PARTS IN AUTOMOTIVE INTERIOR PRODUCTS
11.	AN EXPERIMENTAL INVESTIGATION ON STRENGTHS CHARACTERISTICS OF CONCRETE WITH THE PARTIAL REPLACEMENT OF CEMENT BY MARBLE POWDER DUST AND SAND BY STONE DUST
12.	ANALYSIS OF TUBE FAILURE AT STAGE 19 HEAT EXCHANGER OF MULTISTAGE DESALINATION UNIT
13.	ANCHOR BOLT PULL TESTER FOR CONSTRAINT LOCATION
14.	ANIMAL CLASSIFICATION USING FACIAL IMAGES WITH SCORE LEVEL FUSION
15.	APPLICATION AND BENEFITS OF CONSTRUCTION PROJECT MANAGEMENT IN INDIA
16.	APPLICATION OF LEAN MANUFACTURING TO INCREASE PRODUCTIVITY OF DISC PAD
17.	APPLICATION OF MOLD FLOW ANALYSIS FOR SOUND AND DETECT FREE INJECTION MOULDING OF INTERIOR TRIM PARTS
18.	APPLICATION OF PROCESS CONTROL & INSTRUMENTATION IN ENERGY MANAGEMENT
19.	ASSESSMENT OF SUSTAINABLE AND PERFORMANCE OF CONCRETE WITH PARTIAL REPLACEMENT OF CEMENT BY GGBS
20.	ASSISTANT ENGINEER
21.	AUTOMATIC CEILING FAN CONTROL WITH AUTO SENSE
22.	AUTOMATIC SPEED CORNTOL AND ACCIDENT AVOIDANCE OF VEHICLE USING EYE BLINK
23.	AUTOMATIC STAGING OF CHILLER SYSTEM ACCORDING TO THE LOAD
24.	AUTOMATIC TRANSFER SWITCH
25.	AUTOMATION FOR CONVENTIONAL MEASURING INSTRUMENTS
26.	AUTOMATION FOR MANIPULATOR IN ROTATING JIG
27.	AUTOMATION OF SQUARE SHEET VALIDATION FOR SAFETY CRITICAL SOFTWARE
28.	AUTOMOTIVE SEATS ASSESSMENT FOR COMFORT IMPROVEMENT
29.	AUTOMOTOBILE HEADLAMP VIBRATION RATTLE NOISE ELIMINATION
30.	BUILD CHAT BOT USING AZURE BOT SERVICES
31.	BUILDING ENERGY SIMULATION ANALYSIS BY USING EQUEST SOFTWARE TO THE ESTIMATE ANNUAL ENERGY PERFORMANCE COMPARING WITH ASHRAE STANDARD 90.1
32.	CAMERA INTEGRATION IN EMBEDDED SYSTEM
33.	CATALYTIC H2S REMOVAL SHOOTS POLLUTION
34.	CAUSES OF CONSTRUCTION PROJECT DELAY
35.	CLEAN AGENT FIRE SUPPRESSION SYSTEM
36.	COMPOSITE (STUDY OF MICROSTRUCTURE AND HARDNESS TEST)
37.	CONDITIONAL ASSESSMENT REPORT FOR EXISTING PVC AND CI PIPES FOR PROVIDING CONTINUOUS PRESSURIZED WATER SUPPLY TO TUMAKURU CITY
38.	CONSTRUCTION OF INTERNAL COATING MACHINE
39.	CONSTRUCTION SAFETY RISK MITIGATION

S.No.	PROJECT WORK TITLE
40.	CONSTRUCTION USING SLIPFORM TECHNOLOGY
41.	CONTINUOUS PRODUCT IMPROVEMENT - STRUCTURAL FAILURES OF OFF-HIGHWAY TRUCK BODIES
42.	COST OF POOR QUALITY
43.	COST OPTIMIZATION WITH EFFECTIVE MAINTENANCE
44.	COST REDUCTION
45.	COST REDUCTION OF EMERGENCY LIGHT FOR INDOOR APPLICATION
46.	COST SAVING THROUGH USE OF ALTERNATE MANUFACTURING PROCESS
47.	COST SAVINGS BY PACKING & LOGISTICS IMPROVEMENT
48.	CREATE SINGLE PIECE FLOW IN SCOOTER SEAT ASSEMBLY CELL
49.	CUSTOMER SATISFACTION THROUGH IMPROVEMENTS IN DELIVERY PERFORMANCE - "ON TIME IN FULL"
50.	DATA CAPTURE AND ANALYSIS TOOL FOR MULTI CHANNEL CHARGE ACQUISITION DEVICE
51.	DEFECT REDUCTION- REDUCING REWORK AND ENHANCING QUALITY(D SERIES-NPI)
52.	DEFORMATION CONTROL OF WELD JOINTS DURING FABRICATION
53.	DESIGN & FABRICATION OF AIR CONDITIONED ENCLOSURE TO HOUSE CLEAN AGENT GAS EXTINGUISHING SYSTEMS / CYLINDERS FOR OIL & GAS INDUSTRY
54.	DESIGN & INSTALLATION OF FOAM WATER SPRINKLER SYSTEM
55.	DESIGN & MANUFACTURING OF U-BENDING TOOL
56.	DESIGN & STRESS ANALYSIS OF THE PIPING SYSTEM, FOR OPTIMIZATION OF THE PLANT LAYOUT.
57.	DESIGN A QUALITY CONTROL PROCESS BY CONTROLLING THE BOW AT LOADER ARM SLAB WHICH CREATES GAP ISSUE WITH CROSS BOX WHILE ASSEMBLY AT CUSTOMER END.
58.	DESIGN AN ENERGY MANAGEMENT SYSTEM FOR RAK MEDICAL AND HEALTH SCIENCES UNIVERSITY
59.	DESIGN AND ANALYSIS OF OPPOSED CYLINDER IC ENGINE
60.	DESIGN AND COST OPTIMIZATION OF FUEL TANK SYSTEM
61.	DESIGN AND DEVELOPMENT OF SOFA CUM BED
62.	DESIGN AND ENGINEERING OF NEW ADDRESSABLE BUILDING FIRE ALARM SYSTEM (INSIDE AN EXISTING PLANT WITH NEW FEATURES)
63.	DESIGN AND FABRICATION OF FOUR WHEEL HOE
64.	DESIGN AND SIZING OF SEPARATOR
65.	DESIGN AND STIMULATION OF HYBRID ENGINE
66.	DESIGN FOR THROTTLE PALM REST
67.	DESIGN OF AUTOMATIC CONTACT INSERTION MACHINE ON PRO E / CREO PLATFORM
68.	DESIGN OF CUSTOMIZED CARTRIDGE FILTER FOR SEAWATER REVERSE OSMOSIS (SWRO) PLANT
69.	DESIGN OF GAS LIFT VALVE
70.	DESIGN OF LI-ION BATTERY FOR ELECTRIC VEHICLE (7 SEATER AUTO-RIKSHAW)
71.	DESIGN OF NEW HEIGHT ADJUSTMENT SYSTEM FOR COMMERCIAL VEHICLE DRIVER SEAT & VALIDATION FOR WORST LOAD CASE
72.	DESIGN OF PRESSURE VESSEL
73.	DESIGN OPTIMIZATION TO ENHANCE PRODUCTIVITY AND COST REDUCTION
74.	DESIGN QUALITY & RELIABILITY ENGINEERING FOR CLOUD SOLUTIONS PRODUCT
75.	DESIGNING OF ELECTRIC VEHICLE TEST CELL FACILITY (ELECTRICAL & MECHANICAL)
76.	DEVELOP & EXECUTE BSVI EMISSIONS AFTER TREATMENT SYSTEM SOLUTION
77.	DEVELOP A SOFTWARE WITH BASIC SIMULATION CAPABILITIES, FOR THERMAL INSULATION CALCULATIONS, AS PER EN ISO 12241: 2008 (THERMAL INSULATION FOR BUILDING EQUIPMENT AND INDUSTRIAL INSTALLATION CALCULATION RULES)
78.	DEVELOP MATLAB BASED MODEL FOR HARDWARE IN LOOP TESTING OF DIESEL ENGINE IN INDUSTRIAL APPLICATIONS
79.	DEVELOPMENT OF A CONTROL SYSTEM FOR HP HEATER TUBE MANUFACTURING TO IMPROVE QUALITY
80.	DEVELOPMENT OF A METHODOLOGY TO SAVE COST AND TIME OF A PIPE LINE CONSTRUCTION PROJECT
81.	DEVELOPMENT OF BALISE CABLE BY LOCALIZATION
82.	DEVELOPMENT OF INTEGRATED FRONT WHEEL HUB TO REDUCE THE PRODUCT COST
83.	DEVELOPMENT OF INVENTORY MANAGEMENT SOFTWARE FOR ELECTRICAL TRANSMISSION AND DISTRIBUTION PROJECTS

S.No.	PROJECT WORK TITLE
84.	DEVELOPMENT OF NUB TYPE BEARINGS FOR STEEL CASTER
85.	DEVELOPMENT OF PROTOTYPE PERFORMANCE COMPONENT TURBOCHARGER
86.	DEVELOPMENT OF SPECIAL ELEVATOR GUIDE RAIL BRACKETS
87.	DEVIATION/ REJECTION ELIMINATION BY QUALITY MANAGEMENT SYSTEM/ TOTAL PRODUCTIVE MAINTENANCE
88.	DIAGNOSTIC OF MISSING SIDE MILLING OPERATION IN SUPPORT FUEL SUPPLY PUMP
89.	DIGITALISATION IN CONSTRUCTION PLANT AND MACHINERY (CONCRETE PUMP)
90.	DIGITALIZATION OF MACHINES TO IMPROVE OEE
91.	DOCUMENTATION MANAGEMENT
92.	DRIVELINE TORQUE MEASUREMENT IN ROTATING COMPONENTS
93.	DUE TO LESS PRODUCTIVITY AT ASSEMBLY LINE WE ARE UNABLE TO SUPPLY THE SPECIFIED QTY AN TIME TO CUSTOMER
94.	EFFECTS OF P-V IN MECHANICAL SEAL FACES
95.	EFFICIENCY IMPROVEMENT & UPGRADATION OF PAINTING SYSTEM II
96.	EFFICIENT ENERGY MANAGEMENT SYSTEM
97.	ELIMINATE SPINDLE FAILURE IN CNC MACHINE DUE TO WRONG ORIENTATION OF BORING BAR TOOL
98.	ELIMINATION OF COMPRESSOR FAILURE IN FIELD DUE TO JOURNAL BEARING FAILURE
99.	ELIMINATION OF IDENTIFICATION SLEEVE ON CABLE & INTRODUCING PRINTING ON CABLE FOR NEW SOLAR PRODUCT DEVELOPMENT
100.	ELIMINATION OF NON-CONFORMANCE IN PRODUCT TRACEABILITY
101.	EMERGENCY SHUTDOWN PLC UP GRADATION IN QAFCO
102.	ENERGY CONSERVATION FOR AIR BLOWER USING RAIN SENSOR
103.	ENERGY MANAGEMENT: TRANSFORMING INDUSTRIAL OPERATIONAL EQUIPMENT EFFICIENCY
104.	ENERGY OPTIMIZATION IN COMPRESSED AIR SYSTEM
105.	ENERGY SAVING - TEMPERATURE OPTIMIZATION IN AUTOMOTIVE SEALER OVENS
106.	ENERGY STORAGE IN AIR-CONDITIONING SYSTEM
107.	ENVIRONMENTAL MANAGEMENT SYSTEM ON A CONSTRUCTION INDUSTRY
108.	ENVIRONMENTAL POLLUTION CONTROL AND PLANT EFFICIENCY
109.	EVOLUTION OF ELECTRIC VEHICLE IN INDIA
110.	EXCELLENCY IN OPERATION & MAINTENANCE OF COAL HANDLING SYSTEM FOR SUPER THERMAL POWER PLANT
111.	EXPERIMENTAL AND COST ANALYSIS OF CONCRETE USING GGBS AND FIBER REINFORCEMENT AS PARTIAL REPLACEMENT OF CEMENT
112.	EXPERIMENTAL INVESTIGATION ON DIESEL ENGINE USING NEEM BIODIESEL
113.	EXPERIMENTAL STUDY ON INSTALLATION OF NEW DUMMY QUENCH TOWER IN PROCESS OPERATION
114.	FABRICATION AND EXPERIMENTAL INVESTIGATIONS ON E-GLASS FIBRE REINFORCED LAMINATES
115.	FABRICATION AND PROCESS OPTIMIZATION OF MICRO ALLOYED STEEL ROLLER SHAFT OF AN UNDERCARRIAGE
116.	FABRICATION OF MARINE STEEL STRUCTURES FOR NUCLEAR POWER PLANT
117.	FEASIBILITY STUDY FOR CENTRAL DISTRIBUTION CENTRE FOR CONSTRUCTION AND MINING AFTERMARKET BUSINESS
118.	FEASIBILITY STUDY OF PRODUCING STEAM USING CONCENTRATED SOLAR POWER IN PLACE OF OIL FIRED BOILER FOR TYRE CURING
119.	FUEL GAS OPTIMIZATION AND ENERGY CONSERVATION IN CRUDE PROCESSING PLANT
120.	FUEL INJECTOR PRODUCTIVITY IMPROVEMENT
121.	GAS TURBINE INLET AIR COOLING
122.	GE 9FA GAS TURBINE COMPRESSOR ONLINE AND OFFLINE WATER WASH OPTIMISATION
123.	GO GREEN INITIATIVES IN TELECOM SECTOR
124.	GREASE LEVEL REMOTE SENSING ONE-WAY COMMUNICATION BOARD
125.	GREEN BUILDING PROJECT MANAGEMENT
126.	GREEN BUILDING PROJECT MANAGEMENT: CHALLENGES, IMPACT AND SOLUTION
127.	HIGH IN-HOUSE REWORK IN INSTRUCTOR SEAT
128.	HIGH STEP-UP INTERLEAVED BOOST CONVERTOR FOR DISTRIBUTED GENERATION USING RENEWABLE AND ALTERNATIVE POWER SOURCES

S.No.	PROJECT WORK TITLE
129.	HOME AUTOMATION SYSTEM
130.	HOTLINE MLE (MOTOR LEAD EXTENSION) COST REDUCTION
131.	IDENTIFYING AND REDUCING CUSTOMER COMPLAINTS AND IMPROVING QUALITY IN COIR MATTRESSES
132.	IMPLEMENTATION AND UP-GRADATION OF ENERGY MANAGEMENT SYSTEM
133.	IMPLEMENTATION OF KANBAN FOR BETTER CONTROL ON INVENTORY
134.	IMPLEMENTATION OF PREVENTIVE MACHINE MAINTENANCE & HUMAN SAFETY AT WORK
135.	IMPLEMENTATION OF PROCESS FLOW FOR SERVICE PART LOGISTICS
136.	IMPLEMENTATION OF PRODUCTION SCHEDULING AND CONSUMABLE MANAGEMENT SYSTEMS
137.	IMPLEMENTING 7QC TOOLS AND APPLYING POKA-YOKE AGAINST THE IDENTIFIED SYSTEM FLAW.
138.	IMPLEMENTING BUILDING INFORMATION MODELLING TECHNOLOGY IN MEP CONSTRUCTION INDUSTRY FOR AN EFFECTIVE PROJECT DELIVERY
139.	IMPLEMENTING SOLID WASTE MANAGEMENT AT VILLAGE LEVEL
140.	IMPROVE ASSEMBLY LINE PRODUCTIVITY
141.	IMPROVE CUSTOMER SATISFACTION
142.	IMPROVE ENGINEERING EVALUATION EFFICIENCY APPROX. 30% IN CURRENT PRODUCT CHANGE MANAGEMENT PROCESS
143.	IMPROVE LINE EFFICIENCY IN RT FOAMING LINE
144.	IMPROVE PROCESS CAPABILITY OF SHAFT ROCKER ARM FOR A SCOOTER MODEL
145.	IMPROVE PRODUCT QUALITY FOR 3 WHEELER COMMERCIAL VEHICLE EXPORTED TO BANGLADESH MARKET
146.	IMPROVE PRODUCTIVITY IN BMW K08&K09 SEAT ASSEMBLY
147.	IMPROVE PRODUCTIVITY IN STAR CITY CCL U237 ENGINE
148.	IMPROVEMENT IN POST-SALES PROCESS IN CRITICAL CUSTOMIZED ORDERS FOR PROJECT MANAGEMENT
149.	IMPROVEMENT IN PRODUCTIVITY, QUALITY AND OPERATOR SAFETY
150.	IMPROVEMENT OF EXISTING MILLING AND DRILLING PROCESS CYCLE TIMES DONE ON MANUAL MACHINES USING ADVANCED CAM TOOLPATHS ON A CNC VMC
151.	IMPROVEMENT OF JOINT STRENGTH BETWEEN SHAFT AND BALL BEARING
152.	IMPROVEMENT OF QUALITY OF REMOTE NETWORK INTEGRATION
153.	IMPROVING MEASUREMENT ACCURACY AND REDUCING INSPECTION CYCLE TIME USING RELATION GAUGE FOR INSPECTION OF FORGING COMPONENT
154.	IMPROVING ROAD SAFETY IN METRO CONSTRUCTION
155.	INCREASE IN EFFICIENCY OF PHOTO VOLTAIC SYSTEM
156.	INCREASING PRODUCTIVITY BY MANUAL BLASTING MACHINE AUTOMATION
157.	INSTALLATION & TESTING COMMISSIONING OF ELECTRICAL EQUIPMENTS OF COAL HANDLING SYSTEM
158.	INSTALLATION AND COMMISSIONING OF EARTHING TRANSFORMER
159.	INSTALLATION PRODUCTION OF PRE-STRESS GROUT MIXING PLANT IN PLACE OF CONCRETE BATCHING PLANT
160.	INTEGRATED WATER SUPPLY NETWORK SYSTEM
161.	INTEGRITY THREAT DUE TO VERY LOW THICKNESS OF HEAT EXCHANGERS
162.	INTELLIGENT SOLUTION LOG ANALYSER
163.	INTELLIGENT TRAIN AND STATION TRAFFIC CONTROL
164.	INTRODUCE KANBAN SYSTEM : PARTS PULLING FROM SUPPLIER
165.	INTRODUCTION OF SAFETY KITS (BLUE LIGHT AND RED LIGHT) IN SERVICE PORTFOLIO
166.	INVENTORY ANALYSIS AND CONTROL
167.	IOT BASED HOME SECURITY SYSTEM USING RASPERRY PI
168.	IOT BASED POWERLINE FREQUENCY MONITORING FOR INDUSTRIES
169.	IOT IMPLEMENTATION IN PRODUCTION
170.	ISO 9001-2015 QMS IMPLEMENTATION
171.	LABVIEW TEST ENVIRONMENT FOR SPI
172.	LARSEN & TOUBRO (OMAN) LLC SULTANATE OF OMAN
173.	LEAD TIME REDUCTION TO IMPROVE PRODUCTIVITY IN REWORK AREA
174.	LEAF IDENTIFICATION AND RECOGNITION OF PLANTS USING MATLAB

S.No.	PROJECT WORK TITLE
175.	LEAN IMPLEMENTATION AT REPAIR CENTRE TO REDUCE THE REPAIR CYCLE TIME
176.	LEAN MANAGEMENT IN DCAN FABRICATION LINE
177.	LINE BALANCING OF ENGINE SUB ASSEMBLY
178.	LOGISTICS AND SUPPLY CHAIN MANAGEMENT
179.	LOW COST FUEL INJECTION PUMP TEST BENCH
180.	LOW PRODUCTIVITY IN X20 SEAT ASSEMBLY
181.	LOW VOLTAGE POWER DISTRIBUTION DESIGN
182.	MACHINE DOWNTIME REDUCTION THROUGH REAL TIME MONITORING THROUGH ANDON
183.	MAINTENANCE CALL OUT RATE REDUCTION OF NON-KONE ELEVATORS
184.	MANAGEMENT INFORMATION SYSTEM (DEVELOPMENT OF A MOBILE APP FOR INSTALLATION AND SERVICE TEAM FOR REAL-TIME UPDATE)
185.	MANUAL FEEDING TO SEMI-AUTOMATIC OF FEEDING POLYPROPYLENE FIBERS IN PRODUCTION PROCESS OF PRODUCING PREMIXED CEMENT PLASTERS
186.	MANUFACTURING IMPROVEMENT OF OPTICAL FIBER & OPGW WITH HELP OF LEAN TECHNIQUE
187.	MANUFACTURING IMPROVEMENT OF TISSUE PAPER WITH HELP OF LEAN MANUFACTURING TECHNIQUE
188.	MANUFACTURING PROCESS DEVELOPMENT FOR AEROSPACE STRUCTURE
189.	MANUFACTURING PROCESS OPTIMIZATION OF NANO UTM
190.	MANUFACTURING, ERE CATION AND COMMISSIONING OF HYDRAULIC POWER PACK
191.	MATERIAL PRODUCTIVITY
192.	MCB LINE FLEXIBILITY & AGILITY - M9 PRODUCT ON TIMNH LINE & DEQUE BOTTLE NECK STATIONS
193.	MCB MANUFACTURING: FIRST PASS YIELD AND PRODUCTIVITY IMPROVEMENT
194.	MICRO DATA CENTERS: ENABLER OF IOT & EDGE COMPUTING
195.	MICROPROCESSOR BASED FIRE PUMP CONTROLLERS
196.	MODULAR TECHNOLOGY IN REACTOR BUILDING CONSTRUCTION
197.	MONITORING OF TEMPERATURE IN INDUSTRIAL ENVIRONMENT
198.	NETWORK CONSOLIDATION OF VODAFONE IDEA LT.
199.	NEW CABLE MANUFACTURING TECHNOLOGIES FOR SUSTAINABLE FUTURE
200.	NEW PRODUCT DEVELOPMENT
201.	NEW PROJECT DEVELOPMENT ON AUTOMOBILE EMBLEM
202.	NEXT GENERATION LITHIUM-ION BATTERIES FOR UPS INDUSTRY
203.	O&M CHALLENGES AND SAFETY MEASURES IN TRANSMISSION LINES IN SNOW BOUND HILLY TERRAIN
204.	ONLINE E-MARKETING STRATEGY
205.	OPTIMIZATION OF ARCHITECTURAL LARGE AREA GLASS COATER SET UP CHANGEOVER TIME
206.	OPTIMIZATION OF CUTTING PROCESS PARAMETERS FOR IMPROVING SURFACE FINISH
207.	OPTIMIZATION OF GRINDING PROCESS
208.	OPTIMIZATION OF PRODUCTION PLANNING IN MULTIDISCIPLINARY EQUIPMENT MANUFACTURING PLANT
209.	OPTIMIZATION OF SPACE, PROCESS AND AUTOMATION IN STORES
210.	OPTIMIZATION OF SWIN ARM SPACER TO IMPROVE VEHICLE HANDLING
211.	PARTIAL DISCHARGE MEASUREMENT OF ELECTRICAL EQUIPMENT
212.	PASS-BY-NOISE PERFORMANCE IMPROVEMENTS WINDOWING TECHNIQUE AND SOURCE RANKING FOR A PASSENGER CAR
213.	PCM OILER MACHINE
214.	PLANNING & EXECUTION OF SEWAGE TREATMENT SYSTEM FOR CONTROLLING POLLUTION AT CITY AREAS
215.	PLC BASED LOAD MANAGEMENT SYSTEM
216.	PLTCM ENTRY SECTION HANDLING TIME REDUCTION
217.	PNEUMATIC OPERATED TROLLEY WITH IN-BUILT PLATFORM FOR MATERIAL HANDLING
218.	PORTABLE LOAD TESTER FOR CYLINDER RACKS SPECIAL TYPE PADEYES
219.	PORTABLE WATER TREATMENT RO FOR OFFSHORE PLATFORM
220.	POWER FACTOR CAPACITOR PRODUCTS LINE EFFICIENCY IMPROVEMENT

S.No.	PROJECT WORK TITLE
221.	PREVENTING FREQUENT FAILURE IN GRP FIREFIGHTING SYSTEM
222.	PREVENTION OF HONING OIL OVERFLOW ON SHOP FLOOR FROM HONING MACHINE.
223.	PREVENTION OF POSSIBLE ELECTRIC CONDUCTIVITY BETWEEN CONNECTED OIL STORAGE TANKS IN-SERVICE.
224.	PROBLEM SOLVING USING SIX SIGMA
225.	PROCESS CAPABILITY IMPROVEMENT IN EXTRUSION SHOP
226.	PROCESS CONTROL AND INSTRUMENTATION FOR INTEGRATED DRUM FILLING SYSTEM
227.	PROCESS CONTROL AND MEASUREMENT SYSTEM CAPABILITY ANALYSIS
228.	PROCESS IMPROVEMENT TOOLS
229.	PROCESS OPTIMIZATION AND IMPROVE OVERALL EQUIPMENT EFFICIENCY
230.	PROCUREMENT
231.	PROCUREMENT COST CONTROL IN CONSTRUCTION PROJECTS
232.	PRODUCT GAP ANALYSIS & NEW PRODUCT PROPOSAL TO IMPROVE MARKET SHARE
233.	PRODUCT PROFILE/ASPECT IMPROVEMENT IN EXTRUDER MACHINE WITH HELP OF DESIGN & PROCESS PARAMETERS
234.	PRODUCT QUALITY & RELIABILITY IMPROVEMENT FOR TRANSMISSION
235.	PRODUCTION, TRANSPORTATION AND PLACEMENT OF HEAVY CONCRETE
236.	PRODUCTIVITY IMPROVEMENT BY INTRODUCING KITTING CONCEPT IN MULTI MODEL ASSEMBLY LINE
237.	PRODUCTIVITY IMPROVEMENT BY MODIFYING 8 HEAD FILLING LINE
238.	PRODUCTIVITY IMPROVEMENT IN HIGH VOLTAGE CABLE ASSEMBLY LINE
239.	PRODUCTIVITY IMPROVEMENT IN VALVE BODY
240.	PRODUCTIVITY INCREASE IN C CHANNEL IN SINTERING PROCESS
241.	PRODUCTIZATION OF BS-VI VEHICLES: VEHICLE FOR FUTURE EMISSION NORMS
242.	PROJECT MANAGEMENT
243.	PROJECT MANAGEMENT 400/220KV AIR INSULATED SUBSTATION FOR 2000MW ULTRA SOLAR POWER PARK PROJECT AT TUMKUR
244.	PROJECT MANAGEMENT AND CONSTRUCTION OF UNDERGROUND METRO RAIL PROJECT CMRL-UG02 (CHENNAI METRO)
245.	PROJECT MANAGEMENT FOR AUTOMATION IN MAINTENANCE OF ALL EQUIPMENT'S (LUBRICATION SYSTEMS)
246.	PROJECT MANAGEMENT FOR MEDIGADDA BARRAGE PROJECT
247.	PROJECT MANAGEMENT OF HYDRO ELECTRIC POWER PROJECT
248.	PROJECT MANAGEMENT OF HYDRO ELECTRIC PROJECT
249.	PROJECT MANAGEMENT ON ERECTION AND COMMISSIONING OF BLAST FURNACE.
250.	PROJECT MANAGEMENT ON NFS OFC PROJECT PKG.
251.	PROJECT MANAGEMENT ON WATER SUPPLY AND DISTRIBUTION PROJECT
252.	PROJECT PLANNING, SCHEDULING AND CONTROL TECHNIQUES IN WATER SUPPLY PROJECTS
253.	PROPOSAL FOR EFFECTIVE STAKEHOLDER MANAGEMENT IN CURRENT DYNAMIC PROJECT ENVIRONMENT
254.	PURCHASE REQUISITION TO BILL BOOKING INCLUDING SUBCONTRACT JOB
255.	PYTHON BASED TOOL FOR IMAGE SENSOR TESTING
256.	QUALITY ANALYSIS OF TYRE FOR MOLDING DEFECT
257.	QUALITY AND DELIVERY IMPROVEMENT OF SILENT BLOCK
258.	QUALITY ASSURANCE AND QUALITY CONTROL
259.	QUALITY ASSURANCE AND QUALITY CONTROL FOR CONCRETE READY MIX PLANT
260.	QUALITY ASSURANCE OF EARTHING AND SURGE PROTECTION SYSTEM AT MOBILE TOWER STATION
261.	QUALITY CONTROL ASSURANCE AND RELIABILITY IN PRE -TREATMENT PROCESS OF PAINT SHOP
262.	QUALITY CONTROL ASSURANCE ON EXCHANGER TUBE IN- SERVICE INSPECTION
263.	QUALITY IMPROVEMENT AND COST REDUCTION IN KNIFE GATE VALVE BODY CASTINGS BY USING COLD BOX CORE PROCESS
264.	RECOVERY OF THERMAL ENERGY
265.	REDESIGN AND CONSTRUCT WATER RECYCLING SYSTEM FOR CAR WASH OPERATION
266.	REDUCE INVENTORY TO IMPROVE THE CASH FLOW
267.	REDUCE MANUAL INTERRUPTION & INCREASE PRODUCTIVITY ON VMC

S.No.	PROJECT WORK TITLE
268.	REDUCTION IN FLUORESCENT PENETRANT INSPECTION CYCLE TIME BY IMPLEMENTING AUTO WASHING
269.	REDUCTION IN WELD DEFECTS TO IMPROVE PRODUCTIVITY
270.	REDUCTION OF DEFECT IN PCB IN LEGEND PROCESS
271.	REDUCTION OF OFF GRADE GENERATION DUE TO SCREEN PACK CHANGE OVER IN POLYETHYLENE PELLETER.
272.	REDUCTION OF SETUP TIME IN TYRE BUILDING MACHINE THROUGH SMED APPROACH
273.	REFRESHMENT PROJECT WITH HIGH EFFICIENT MODULAR TECHNOLOGY UPS & BATTERIES FOR DELL-DATA CENTER SITE
274.	RELIABILITY IMPROVEMENT ON WATER SEPERATOR
275.	RE-LOCATION OF CARD CAGE IN TESTER EQUIPMENT
276.	REPLACEMENT OF GAS CHLORINATION SYSTEM BY SODIUM HYPOCHLORITE AT TRANSCO MADINAT ZAYED WATER PUMPING STATION.
277.	REPORT ON PROJECT MANAGEMENT OF RENOVATION OF TRANSMISSION LINE
278.	REPORT ON PROSPECTING AND EXPLORING NEW BUSINESS IN RENOVATION OF TRANSMISSION LINE
279.	RESTRORATION WORK OF DAM
280.	REVAMPING OF WATER SUPPLY SYSTEM AND WATER MANAGEMENT OF PUNE CITY
281.	RFID AND POWER BI BASED REAL TIME WORKFORCE MANAGEMENT
282.	ROAD MAINTENANCE AND SAFETY: CHALLENGES, IMPACT AND SOLUTION
283.	ROBOT ARC WELDING STATION FOR HYDRAULIC CYLINDER PARTS
284.	SAFETY MEASURERS WHILE WORKING/DOING MAINTENANCE ACTIVITIES IN HYDROCARBON INDUSTRIES.
285.	SAP MATERIAL REQUIREMENT PLANNING (MRP): STOCK REQUIREMENT LIST DASHBOARD FOR MULTIPLE MATERIALS IN SINGLE PROCESS
286.	SATELLITE BASED TRAIN CONTROL
287.	SATELLITE BASED TRAIN CONTROL
288.	SEALING BUBBLE REDUCTION IN CAR BODY COVER PARTS
289.	SELECTION AND CONSTRUCT PHE TO REDUCING THE TEMPERATURE OF BEARING IN VRM ROLLER LUBRICATION UNIT
290.	SEMICONDUCTOR HOT AND COLD WATER DISPENSER
291.	SERVICEABILITY INDEX
292.	SIMULATION MODEL OF DUAL AXIS TRACKER FOR OPTIMUM SOLAR ENERGY
293.	SIX SIGMA IN DECREASING REJECTION RATE
294.	SOLAR POWERED INDUCTION HEATER SYSTEM
295.	SPECIAL CONCRETE WITH SERPENTAINNE AGGREGATE
296.	SPRAY DRYER AUTOMATION FOR DRYING DISPERSE DYES
297.	SPROCKET PRESSING MACHINE
298.	STANDARDIZATION OF DG ASSEMBLY PROCESS TO IMPROVE PARTICIPATION RATE WITH OPTIMIZED PRODUCT COST
299.	STREAMLINING PRODUCT DEVELOPMENT BY ESTABLISHMENT OF PROJECT TRACKING MATRIX
300.	STRESS ANALYSIS AND WEIGHT REDUCTION OF ROLLER OF ROLLER CONVENER
301.	STRUCTURAL DESIGN OPTIMIZATION OF TRANSFORMER USING ANSYS-FEA
302.	STUDY AND ROOT CAUSE ANALYSIS FOR UPS BATTERY ROOM EXPLOSION IN ELECTRICAL SUBSTATION
303.	STUDY OF MARKET POTENTIAL FOR MART- CART IN INDIA
304.	STUDY ON OPTIMIZATION OF DIE CASTING MOLD DESIGN PROCESS BY ADDITIVE MANUFACTURING TECHNOLOGY
305.	SUPPLIER SELECTION AND EVALUATION PROCESS USING JUST IN TIME MANUFACTURING
306.	TABLET PRESS SCADA SYSTEM UPGRADING
307.	TESTING & COMMISSIONING OF 33KV GAS INSULATED SWITCHGEAR
308.	THE MANAGEMENT OF HIGH-RISE BUILDING CONSTRUCTION SAFETY
309.	THERMAL ANALYSIS OF AVIONIC GRAPHICS MODULE
310.	THERMO-ELECTRIC MINI-REFRIGERATOR
311.	TIME REDUCTION FOR PLAQUETTE CHANGE (ELIMINATION OF NON-CONFORMANCE TIRES& IMPROVEMENT OF PRODUCTIVITY)
312.	TO DESIGN AND DEVELOP NEW MAST WITH REDUCED WEIGHT AND REDUCED FRONT OVERHANG FOR GODREJ 2 TON ELECTRIC FORKLIFT MODEL

S.No.	PROJECT WORK TITLE
313.	TO ENHANCE QUALITY OF HYDRAULIC OIL FILTRATION IN FORKLIFT OF GODREJ AND BOYCE MFG CO. LTD
314.	TO IMPROVE BUSINESS HIT RATE
315.	TO INCREASE THE SPARE PARTS BUSINESS FROM NEW CUSTOMERS BY UTILIZING SIX SIGMA QUALITY TOOLS.
316.	TO MEET THE PRODUCTION REQUIREMENT BY ENHANCING THE CAPACITY THROUGH BUSINESS PARTNERS
317.	TO REDUCE CARTON BOX CONSUMPTION IN SHEET METAL PARTS (FRAME & ENGINE CLUSTER, TO REDUCE CARTON BOX CONSUMPTION IN SHEET METAL PARTS (FRAME & ENGINE CLUSTER, TO REDUCE CARTON BOX CONSUMPTION IN SHEET METAL PARTS
318.	TPM IN CONSTRUCTION HEAVY EQUIPMENT
319.	TREATMENT AND DISPOSAL OF SEWERAGE IN CITIES
320.	TURNDOWN ENERGY OPTIMISATION OF NITROGEN GENERATION PLANT
321.	UNDERSLUG EOT CRANE FOR LIFTING
322.	UPGRADING FTTH NETWORK TO ULTRA-HIGH SPEEDS 10GBPS (XG-GPON)
323.	UPGRADING THE TRAIN TRACKING SYSTEM IN CBTC
324.	USAGE ANALYTICS FOR DIAGNOSTICS AND TECHNICAL CONTENT FOR OFF HIGHWAY VEHICLES
325.	USE OF ALTERNATIVE FUELS AND RAW MATERIAL IN THE CEMENT INDUSTRY AS SUSTAINABLE WASTE MANAGEMENT OPTIONS
326.	USE OF NON-METALLIC MATERIAL IN PRESSURIZED METALLIC PIPING REPAIRS IN PROCESS INDUSTRY
327.	UTILITY DEVELOPMENT AND MANAGEMENT FOR NADAPRABHU KEMPEGOWDA LAYOUT(NPKL) ON DESIGN, BUILT & OPERATE(DBO) BASIS UNDER TWO COVER SYSTEM
328.	VEHICLE MONITORING SYSTEM FOR MATERIAL HANDLING EQUIPMENT
329.	VOLUMETRIC EFFICIENCY ANALYSIS
330.	WEB APPLICATION AUTOMATION FRAMEWORK DEVELOPMENT
331.	WEIGHT REDUCTION IN EXTERIOR PLASTICS OF A CAR_FRONT BUMPER_BY 10%
332.	WEIGHT REDUCTION OF PLANTER ROW UNIT SHANK
333.	WIRELESS DATA TRANSMISSION SYSTEM FOR REPLACEMENT OF CCRD
334.	WORKSHOP PERFORMANCE MONITORING & PROCESS CONTROL BY USING TQM TOOLS & TECHNIQUES
335.	YIELD IMPROVEMENTS IN FLAPS AND MOPS MODULE
336.	ZERO DISCHARGE ELECTROPLATING LINE FOR PLATING OVER PLASTICS
337.	CROWD MANAGEMENT ASSISTANCE IN METRO RAIL STATIONS USING TRAIN CAR WEIGHT CALCULATION
338.	CUSTOMER SATISFACTION INDEX
339.	DESIGN A WORKMANSHIP GUIDELINE FOR ELECTRICAL CONTROL PANEL MANUFACTURING PROCESSES
340.	ELECTRICAL EARTHING CALCULATION
341.	EVALUATION OF SAFETY AND HSSE ENGINEERING SYSTEM IN OIL AND GAS CONSTRUCTION PROJECTS
342.	MPLS VPN CARRIER SUPPORTING CARRIER WITH BGP
343.	PARTIAL DISCHARGE DETECTION IN ELECTRICAL DISTRIBUTION PANELS TO INCREASE SAFETY AND EFFICIENCY
344.	STRATEGY FOR ACHIEVING FIRST OIL PRODUCTION FROM SELECTED OIL WELLS AMONG GROUP OF OIL WELLS
345.	STUDY ABOUT DEVELOPMENT OF NEW MACHINE STEEP USING MODERN TECHNOLOGY
346.	SUPPLIER SELECTION, APPROVAL AND PERFORMANCE MANAGEMENT
347.	WASTE MANAGEMENT (WITH A SPECIAL EMPHASIS ON SINGLE USE PLASTIC) AT A POPULAR TOURIST ISLAND IN ANDAMAN & NICOBAR
348.	YARD METHODS OF CONSTRUCTION OPTIMIZATION
	B.Tech. Information Systems
349.	DEEP LEARNING BASED INTRUSION PREVENTION SYSTEM
350.	GAIT TRAINER FOR KIDS
351.	RAILTEL ENTERPRISE VPN SERVICES: RESTRUCTURING THE CUSTOMER END NETWORK DESIGN USING SDN ARCHITECTURE
	B.S. Information Systems
352.	UNIFIED COMMUNICATION OVER WEBRTC
	M.Sc. Information Systems
353.	CRYPTO JACKING - DETECTION AND PREVENTION

S.No.	PROJECT WORK TITLE
354.	EMPLOYEE PORTAL
355.	IN-MEMORY DATABASE
	M.Sc. Business Analytics
356.	A POC ON DATA VISUALIZATION TECHNOLOGIES IN BANKING CRM ANALYTICS (PRODUCT IMPLEMENTATION DIVISION)
357.	A STUDY ON CUSTOMER SATISFACTION IN AUTOMOBILE SERVICES
358.	ADAPTIVE POWER SAVING THROUGH ANALYSIS OF PRINTER USAGE PATTERN
359.	AIR POLLUTION ANALYSIS
360.	AIR-LINE ON TIME PERFORMANCE
361.	AN ANALYSIS OF CONSUMER BEHAVIOR AND CONSUMER REACTION ON DIGITAL MARKETING AND INTERNET ADVERTISING
362.	ANALYSIS OF AIRLINES TICKET DISTRIBUTION SYSTEM STRATEGY
363.	ANALYTICS DRIVEN SELECTIVE SOFTWARE REGRESSION TESTING
364.	ANALYTICS FRAMEWORK FOR IT DISASTER RECOVERY
365.	ANALYTICS ON AUDIT OF EMPLOYEES ENROLMENT OF DEPENDENT
366.	ANALYZING FINANCIAL PERFORMANCE OF FDI SECTORS IN INDIA
367.	ANALYZING STOCK MARKET, RISK AND PREDICTING FUTURE STOCK PRICES
368.	ANOMALY PREDICTION IN CONNECTED HOME APPLIANCES
369.	APPLICATION FRAUD DETECTION USING PREDICTIVE MODELLING
370.	APPLICATION OF ROUTE OPTIMIZATION PROBLEM
371.	APPLYING ANALYTICS ON INSURANCE DOMAIN
372.	ATTRITION PREDICTION
373.	BETTER PRICING DECISIONS & CUSTOMER SEGMENTATION
374.	BIG DATA ANALYTICS: DERIVE INSIGHTS TO IMPROVE EFFICIENCY
375.	BIT RATE PREDICTION OF 4G NETWORKS
376.	CHAT BOT
377.	CHURN PREDICTION USING BOTH QUANTITATIVE AND QUALITATIVE DATA
378.	COGNITIVE AUTOMATION BASED TEXT ANALYSIS
379.	CONNECTING CELEBRITIES TO THEIR LOYAL FANS WITH PREDICTIVE ANALYTICS
380.	CONTROLLING COMPUTER USING MOBILE
381.	CUSTOMER BEHAVIOUR INSIGHTS BASED ON CREDIT CARD SPEND PATTERN
382.	CUSTOMER CHURN ANALYSIS USING PYTHON
383.	CUSTOMER SEGMENTATION : UTILITIES & DISTRIBUTION BUSINESS
384.	CUSTOMER SEGMENTATION, PRODUCT RECOMMENDATION AND ENABLING PRODUCTS ONLINE FOR INCREASING BANKS DIGITAL TRANSACTIONS
385.	DATA ANALYSIS IN LMS
386.	DATA ANALYTICS IN SOFTWARE/GAMES TESTING
387.	DATA EXPLORATION AND VISUALIZATION OF STORES DATA OF A LEADING COFFEE AND BEVERAGES RETAIL CHAIN
388.	DEEP NEURAL NETWORKS IN TELECOM AND ITS RECENT EVOLUTION WITH FOCUS ON LEARNING AT THE EDGE LEVERAGING FEDERATED NETWORKS
389.	DEEP NEURAL NETWORKS IN TELECOM AND ITS RECENT EVOLUTION WITH FOCUS ON LEARNING AT THE EDGE LEVERAGING FEDERATED NETWORKS
390.	DEFAULTER PREDICTION USING BOTH QUANTITATIVE AND QUALITATIVE DATA
391.	DELIVERY PARTNER OPERATIONAL PERFORMANCE SCORECARD AND ANALYTICS
392.	DEMAND DRIVEN PREDICTION FOR TRAVEL AND LOGISTICS THROUGH PREDICTIVE ANALYTICS
393.	DEMAND LOAD FORECASTING
394.	DESIGN AND DEVELOPMENT OF SECURE ONLINE SURVEY SYSTEM
395.	DESIGN AND IMPLEMENT A VISUALIZATION ANALYTICAL ASSESSMENT TOOL TO MEASURE STAFFS PRODUCTIVITY THAT LEADS TO EFFECTIVE UTILIZATION OF RESOURCES AND IMPROVING OVERALL GROWTH OF THE COMPANY
396.	DETECTION OF SUSPICIOUS FRAUDULENT CUSTOMERS BASED ON THEIR HISTORICAL METERED WATER CONSUMPTION AND PREDICT FUTURE CONSUMPTION

S.No.	PROJECT WORK TITLE
397.	DEVELOPING A SENTIMENT ANALYSIS TOOL
398.	DEVELOPING MIS FOR A RETAIL PAINT STORE
399.	DOES THE NUMBER OF CERTIFIED INTERVIEWS INFLUENCE THE NEW HIRE QUALITY & TEXT ANALYTICS ON SURVEY COMMENTS BY HIRING MANAGER & CANDIDATES
400.	DV (DATA VISUALIZATION) FOR RETAIL
401.	E-COMMERCE ANALYTICS
402.	EFFECTIVE MAINTENANCE & PLANNING
403.	ENHANCING & OPTIMIZING AN AUTOMATED LEAD GENERATION PLATFORM THROUGH ANALYTICS
404.	ENTERPRISE REPORTING TRANSFORMATION AND NEXT GENERATION CONTROLS
405.	ESCAPE DEFECTS ANALYSIS, PREDICTION AND CLASSIFICATION FOR STRENGTHENING THE TEST COVERAGE
406.	E-TAILING: ANALYSIS OF PRODUCT RATINGS AND ITS INFLUENCE ON PRICE DECISION AND SALES
407.	EZCAN - A LEARNING TOOL TO UNDERSTAND THE SENTIMENTS
408.	FORECASTING APPROVAL PROCESS COMPLETION USING PREDICTIVE ANALYTICS IN A CLOUD SUITE APPLICATION
409.	FORECASTING ORDERS IN RETAIL
410.	FORECASTING PRODUCT DEMAND
411.	FORECASTING SALES FOR THE YEAR 2019-2020
412.	HOW COMPANIES SUCH AS AMAZON, FLIPCARD, USE EBUSINESS FOR B2B AND B2C TIES
413.	HR SENTIMENT ANALYTICS
414.	IDENTIFICATION OF AN INDIVIDUALS RISK PROFILE AND PREMIUM IMPACT
415.	IDENTIFYING PROBABILITY OF EMPLOYEE ATTRITION
416.	IMPROVING CUSTOMER EXPERIENCE THROUGH DATA DRIVEN DECISIONS
417.	IMPROVING THE CUSTOMER EXPERIENCE IN TELECOM INDUSTRY BY PREDICTING THE CUSTOMER CHURN
418.	IMPROVING VOLTE CALL EXPERIENCE QUALITY USING ANALYTICS
419.	INFLUENCING FACTORS THAT DETERMINE THE BUSINESS SUSTAINABILITY OF NON-BANKING FINANCE COMPANY MICROFINANCE INSTITUTIONS (NBFC-MFIS) IN INDIA
420.	INGESTION, PROCESSING AND VISUALIZATION OF REAL-TIME GEOSPATIAL DATA
421.	IT OPERATIONS INCIDENT ANALYTICS
422.	MACHINE LEARNING MODEL USING FEDERATED LEARNING APPROACH
423.	MACHINE LEARNING TECHNIQUE TO DETECT SPAM TWEET
424.	MANAGEMENT INFORMATION SYSTEMS FOR PERSONA DRIVEN CONTENT WHEN INFORMATION IS COMING FROM DIFFERENT SOURCE AND IN DIFFERENT FORMATS (PDF, HTML OR VIDEO CONTENT)
425.	MARKETING BUDGET OPTIMIZATION USING MARKET MIX MODELS
426.	MEASUREMENT PROCESS OPTIMISATION TOWARDS DIGITALIZATION
427.	MICROSOFT MALWARE PREDICTION
428.	NATURALLY OCCURRING ASBESTOS (NOA) AIR MONITORING DATABASE SYSTEM
429.	NUMBER PLATE DETECTION USING IMAGE PROCESSING
430.	OPEN BANKING ANALYTICS
431.	ORCHESTRATION FOR FIREWALL MONITORING
432.	PERFORMANCE DASHBOARD: DATA VISUALIZATION
433.	PERSONALIZED CANCER DIAGNOSIS
434.	PORTFOLIO INSIGHTS USING ADVANCED DATA VISUALISATION: STORY TELLING THROUGH DATA
435.	POSTGRESQL EXTENSIONS FOR PROCESSING STREAMING DATA
436.	PREDICTING IDC IN BREAST CANCER HISTOLOGY IMAGES
437.	PREDICTION OF CAR RESALE VALUE IN THE THIRD-PARTY RESALE SPACE
438.	PREDICTION OF GLOMERULAR FILTRATION RATE (EGFR) BASED ON SERUM CREATININE AND DEMOGRAPHY IN HUMANS
439.	PREDICTIVE ANALYTICS FOR SERVICE DESK
440.	PREDICTIVE ANALYTICS IN RETAIL INDUSTRY USING ARTIFICIAL INTELLIGENCE
441.	PREDICTIVE ANALYTICS IN SERVER CAPACITY MANAGEMENT
442.	PREDICTIVE MAINTENANCE- IMPROVE / OPTIMIZE DOWNTIME OF EQUIPMENT'S USING PREDICTIVE ANALYTICS/MACHINE

S.No.	PROJECT WORK TITLE
	LEARNING
443.	PRICING ANALYTICS: MEASUREMENT OF PRICE AND DISCOUNT POST NEW POLICY IMPLEMENTATION
444.	PRINCIPAL COMPONENT ANALYSIS FOR NPS - USING BOOKING ATTRIBUTES AND GPS ATTRIBUTES
445.	PROCESS DIGITALIZATION IN SUPPLY CHAIN
446.	PROCUREMENT-TO-PAY TREND ANALYSIS TRACKER
447.	PROJECT COST RISK ANALYTICS FOR PROJECT MANAGEMENT OFFICE (PMO) - NEW PRODUCT INTRODUCTION
448.	PROVIDE AN INTELLIGENCE PACK FOR MICROSOFT SYSTEM CENTER SERVICE MANAGER USING MICROSOFT AZURE MONITOR
449.	RECEIVABLES ANALYTICS: DSO REDUCTION
450.	RESEARCHING AI TECHNIQUES FOR TIME SERIES FORECASTING AND COMPARING IT WITH TRADITIONAL TECHNIQUES
451.	RETAIL ANALYSIS - SALES PERFORMANCE REPORT
452.	RETENTION & GROWTH ANALYSIS: ENABLING RENEWAL AND GROWTH OF NEW BUSINESS IN GARTNER
453.	ROAD TRAFFIC ACCIDENT ANALYSIS
454.	ROLE OF E-LEARNING IN HIGHER EDUCATION
455.	SALES ANALYTICS
456.	SALES FORECASTING THROUGH PREDICTIVE ANALYTICS
457.	SENTIMENT ANALYSIS AND ROOT CAUSE FOR THE SENTIMENT
458.	SENTIMENT ANALYSIS: SOCIAL AND EMOTIONAL
459.	SERVICE PERFORMANCE IMPROVEMENT IN TELECOMMUNICATIONS USING ANALYTICS
460.	SERVICE QUALITY IMPROVEMENT IN TELECOMMUNICATIONS USING ANALYTICS
461.	SERVICE RELATED DIFFICULTY DATA ANALYTICS AND DASHBOARD CREATION
462.	SLA MONITORING AND BATCH OPTIMIZATION THROUGH PREDICTIVE ANALYTICS
463.	STOCK PREDICTION USING MACHINE LEARNING
464.	T-BAR DASHBOARD FOR HR BUSINESS
465.	TELECOM CUSTOMER CHURN
466.	TEXT ANALYSIS FOR REMEDIATION OF ISSUES
467.	THE IMPACT OF AGILE PROJECT MANAGEMENT ON PRODUCTIVITY IN THE IT INDUSTRY
468.	TO INVESTIGATE THE RISK FACTORS FOR HYPERTENSION AMONG YOUNG (<45 YEARS) IT PROFESSIONAL MEN
469.	USE OF ANALYTICS TO IMPROVE WORKPLACE SAFETY IN AN ALUMINIUM SMELTER ENVIRONMENT
470.	USE OF MULTIPLE REGRESSION ANALYSIS IN AUTOMOBILE COMPONENTS MANUFACTURING INDUSTRY TO SOLVE QUALITY ISSUES
471.	USE PREDICTIVE ANALYTICS TO ESTIMATE CONVERSION
472.	USING TEXT ANALYTICS IN RESUME SCREENING AND CLASSIFICATION
473.	WEALTH MANAGEMENT PRODUCT ANALYSIS AND RECOMMENDATIONS

**LIST OF DISSERTATION WORK SUBMITTED BY STUDENTS UNDER THE WORK INTEGRATED
LEARNING PROGRAMMES IN THE YEAR 2019**

S.No.	DISSERTATION TITLE
	M.B.A. Hospital and Health Systems Management
1.	A STUDY OF STRESS AMONG THE HEALTH CARE PROFESSIONALS AT GEETANJALI MEDICAL COLLEGE & HOSPITAL
2.	A STUDY OF THE ROLE OF PATIENT AWARENESS IN CONTROLLING AND PREVENTING DIABETES IN AN INDUSTRY TOWNSHIP
3.	A STUDY ON COMMUNITY HEALTH INSURANCE WITH SPECIAL REFERENCE TO DR. NTR VAIDYA SEVA TRUST
4.	A STUDY ON DELAY IN DISCHARGE IN A TERTIARY CARE HOSPITAL
5.	A STUDY ON HEALTHCARE SERVICES IN TRIBAL AREA UNDER CSR POLICY OF NMDC LIMITED (KIRANDUL COMPLEX)
6.	A STUDY ON IMPACT OF NABH ACCREDITATION IN AN EYE CARE HOSPITAL OF PUNE, MAHARASHTRA
7.	A STUDY ON MEDICAL RECORDS DEPARTMENT OF A TERTIARY CARE HOSPITAL
8.	A STUDY ON PATIENT SAFETY CULTURE AMONG HEALTH CARE PROFESSIONALS IN A CORPORATE HOSPITAL IN A TIER II CITY IN INDIA
9.	A STUDY ON PATIENT SATISFACTION LEVEL AT A CORPORATE HOSPITAL
10.	A STUDY ON QUALITY MANAGEMENT OF IVF DEPARTMENT/CENTER
11.	A STUDY ON THE KNOWLEDGE, ATTITUDE AND PRACTICE OF WORK SAFETY FOR EMPLOYEES IN RADIOLOGY DEPARTMENT OF A TEACHING HOSPITAL IN SOUTH INDIA
12.	A STUDY TO IDENTIFY THE PREVALENCE OF OBESITY IN ADOLESCENT GIRLS, ASSESS THEIR LIFESTYLE & BEHAVIORAL PATTERNS, AWARENESS AND KNOWLEDGE REGARDING OBESITY AND ITS HEALTH CONSEQUENCES IN A SUBURBAN AREA OF HYDERABAD
13.	AN ANALYSIS ON PATIENT SATISFACTION IN OPD SERVICES OF PEDIATRIC DEPARTMENT IN A PRIVATE HOSPITAL.
14.	ANALYSIS OF FACTORS INFLUENCING THE LENGTH OF STAY OF PATIENTS IN AN EMERGENCY DEPARTMENT OF A PRIVATE HOSPITAL IN UAE.
15.	ANALYSIS OF FACTORS INFLUENCING THE LENGTH OF STAY OF PATIENTS IN AN EMERGENCY DEPARTMENT OF A PRIVATE HOSPITAL IN UAE.
16.	ANALYSIS OF MARKETING STRATEGIES IN RURAL HEALTH CARE
17.	ASSESS THE DIFFERENCE IN PATIENT SATISFACTION AT THE OUTPATIENT DEPARTMENT USING ACTIVE & PASSIVE METHOD
18.	ASSESSMENT OF HEALTH FACILITIES ON AIR BORNE INFECTION CONTROL PRACTICES AND ADHERENCE TO NATIONAL AIR BORNE INFECTION CONTROL GUIDELINES
19.	ASSESSMENT OF HEALTH FACILITIES ON AIR BORNE INFECTION CONTROL PRACTICES AND ADHERENCE TO NATIONAL AIR BORNE INFECTION CONTROL GUIDELINES
20.	BIO-MEDICAL WASTE MANAGEMENT SYSTEM IN EMERGENCY DEPARTMENT-AN EVALUATION
21.	BUSINESS PROCESS DEVELOPMENT THROUGH AUTOMATION IN HEALTH INSURANCE
22.	CAN INTERVENTIONS IMPROVE ANTIBIOTIC GUIDELINES COMPLIANCE IN A HOSPITAL
23.	CAUSES AND IMPACT OF DISCHARGE PROCESS DELAY IN PRIVATE WARDS IN A TERTIARY CARE TEACHING HOSPITAL
24.	CHALLENGES IN IMPLEMENTING HOSPITAL DISASTER MANAGEMENT PLAN
25.	COMPARATIVE STUDY OF AWARENESS AND PRACTICES OF INFECTION CONTROL AMONG NURSES OF CRITICAL AND NON-CRITICAL AREA OF A TERTIARY CARE HOSPITAL IN UDAIPUR, RAJASTHAN
26.	COST CUTTING BY EFFECTIVE STOCK AND SUPPLY MANAGEMENT IN ALL HOSPITAL STORES.
27.	CUSTOMER SATISFACTION TO THE SERVICES DELIVERED AT AASI MULTISPECIALITY HOSPITAL
28.	DECREASING THE AVERAGE LENGTH OF STAY IN A MULTIDISCIPLINARY ICU
29.	DESIGN OF ENVIRONMENT MANAGEMENT SYSTEM FOR MEDICAL COLLEGE HOSPITAL
30.	DETERMINING THE ROLE OF A CLINICAL PHARMACIST IN THE EXISTING HEALTHCARE DELIVERY SYSTEM
31.	DOCTOR SATISFACTION AND ITS IMPACT ON PATIENT CARE
32.	EFFECT OF DIABETIC RETINOPATHY SCREENING WITH NON-MYDRIATIC CAMERAS ON REDUCTION OF PERMANENT BLINDNESS AND THE ECONOMIC BURDEN AT PRIMARY CARE LEVEL
33.	EFFECT OF SUPERVISED VERSUS UNSUPERVISED HOME BASED CARDIAC REHABILITATION AFTER CORONARY ARTERY BY-PASS SURGERY BY MACNEW QUESTIONNAIRE
34.	ENHANCING BS BLSO TRAINING MALAYALAM AND ASSAM
35.	ENHANCING PATIENTS SAFETY AND PROVIDERS ACCOUNTABILITY AND CREDIBILITY THROUGH

S.No.	DISSERTATION TITLE
	CAREFUL CREDENTIALING AND PRIVILEGING
36.	EPIDEMIOLOGY PROFILE AMONG GERIATRIC IN THE EMERGENCY DEPARTMENT
37.	EVALUATION OF HIV STIGMA AND DISCRIMINATION IN HEALTHCARE WORKER AND IDENTIFICATION OF MEASURES FOR ITS REDUCTION IN AN NGO CHARITY HOSPITAL IN RURAL AP
38.	EVOLUTION OF ESTHETIC HEALTHCARE INDUSTRY: A DECADE WIDE STUDY OF EMERGING TRENDS AND THEIR DEPENDENCE ON DISTRIBUTED DEMOGRAPHY ON A GLOBAL SCALE
39.	FORMULATION OF A STRATEGIC BUSINESS PLAN FOR AN OPTOMETRY AIDED ROP(RETINOPATHY OF PREMATURITY) SCREENING IN COMMUNITY WITH NICU AS END CLIENTS
40.	FORMULATION OF BUSINESS PLAN FOR HBOT FACILITY AS SBU OF A TERTIARY CARE HOSPITAL CHAIN
41.	HEALTHCARE AND HOSPITAL DATA ANALYTICS
42.	HEALTHCARE LEADERSHIP CHALLENGES IN A VUCA ENVIRONMENT : HOW TO OVERCOME THEM AND THRIVE
43.	HOW MEDICAL WELLNESS CENTER HELPS HOSPITALS IMPROVE WALK INS
44.	IDENTIFYING NEW OPPORTUNITIES FOR CREATING VALUE FOR PATIENTS AND IMPROVING PATIENT SATISFACTION IN A SMALL EYE CARE ORGANISATION
45.	IMPACT OF AYUSHMAN BHARAT, ESI & ECHS SCHEMES IN A TERTIARY CARE HOSPITAL (MODEL - MEDITRINA HOSPITALS P LTD)
46.	IMPACT OF TELEMEDICINE IN OPTIMIZING THE HEALTHCARE DELIVERY IN SECONDARY LEVEL GOVERNMENT HOSPITALS
47.	IMPLEMENTATION OF AI BASED MOBILE APP TO IMPROVE HOSPITAL BASED ANTIMICROBIAL STEWARDSHIP
48.	IMPLEMENTATION OF LEAN METHODOLOGY TO IMPROVE OPERATING ROOM EFFICIENCY IN THE CARDIAC SURGERY UNIT.
49.	IMPLEMENTING NEW PROCESSES TO IMPROVE TOP 10 LOW SCORING AREAS ACROSS INTERNAL AND EXTERNAL CUSTOMER SATISFACTION SURVEYS IN A HOSPITAL
50.	IMPROVEMENT OF PATIENT SATISFACTION USING VALUE-ADDED SERVICES AS A STRATEGY FOR RURAL MISSION HOSPITALS AMIDST INCREASED PRESENCE OF PRIVATE HOSPITAL
51.	IMPROVING PATIENT FLOW IN OUTPATIENT CLINICS
52.	INTRODUCTION AND IMPLEMENTATION OF STANDARDIZED WORK AND 5 S TO IMPROVE QUALITY AND PATIENT SAFETY
53.	INVENTORY MANAGEMENT IN MEDICAL STORES AT A PERIPHERAL PRIMARY HEALTH CARE ESTABLISHMENT AT PORT BLAIR, A & N
54.	KNOWLEDGE, ATTITUDE, PRACTICE TOWARDS QUALITY HEALTHCARE DELIVERY BY PRIMARY HEALTHCARE PHYSICIANS AND NURSES.
55.	LEAN THINKING IN THE EMERGENCY DEPARTMENT
56.	MEDICAL ERRORS
57.	OCCUPATIONAL NOISE HAZARD IN HOSPITAL WORKERS
58.	OPERATIONAL ASPECTS OF HEALTHCARE CLINIC AND ITS ADVANCEMENT
59.	PATIENT SATISFACTION SURVEY IN TERTIARY CARE MULTI-SPECIALITY SERVICE HOSPITAL IN URBAN INDIA
60.	PRE ANALYTICAL ERRORS IN THE PATHOLOGY LABORATORY,AN ANALYSIS AND PROPOSED INTERVENTION
61.	PRESCRIPTION DRUGS AND GENERIC DRUGS
62.	PRICE OPTIMIZATION FOR AFFORDABLE HEALTHCARE
63.	PRIORITIZING AREAS OF IMPROVEMENT BY IMPLEMENTING CLINICAL PATHWAYS TO MINIMIZE THE OPERATION THEATRE CANCELLATIONS AT A TERTIARY CARE MULTIDISCIPLINARY HOSPITAL AT JAMMU
64.	QUALITY IMPROVEMENT IN CLINICAL LABORATORIES: A SIX SIGMA CONCEPT
65.	QUALITY IMPROVEMENT IN MATERNAL AND NEW BORN HEALTH OUTCOME AT SELECTED HEALTHCARE
66.	QUANTITATIVE STUDY OF PATIENT SATISFACTION POST ACTIVE PHYSIOTHERAPY REHABILITATION MANAGEMENT LOW BACK PAIN IN QISPINE CLINIC
67.	REDUCING WAITING TIME IN OUTPATIENT SERVICES OF MATERNAL AND NEONATAL HEALTHCARE FACILITY A QUALITY TOOL APPROACH
68.	ROLE OF CHANGE MANAGEMENT ON THE SUCCESSFUL IMPLEMENTATION OF NEW SERVICE LINE- MEDICARE COVERAGE ANALYSIS
69.	SERVICE QUALITY EXCELLENCE IN HEALTHCARE
70.	SETTING UP OF ADVANCED MULTIMODALITY DIAGNOSTIC CENTRE WITH CUTTING EDGE TECHNOLOGY
71.	STANDARDISATION AND OPTIMISATION OF CLINICAL HANDOVER (SOCH) BY JUNIOR DOCTORS FOR QUALITY IMPROVEMENT IN HEALTH CARE SERVICES AT A TERTIARY CARE MULTISPECIALITY HOSPITAL.
72.	STRESS MANAGEMENT AND STRATEGIES FOR HEALTHCARE PROFESSIONALS AND THEIR IMPLEMENTATION IN TOTAL DENTAL CARE
73.	STUDY OF THROUGHPUT AND DISCHARGE EFFICIENCY IN PATIENTS SENT HOME FROM EMERGENCY

S.No.	DISSERTATION TITLE
	DEPARTMENT
74.	STUDY ON AUTISM EARLY INTERVENTION SYSTEM, NATURAL WELLNESS METHODS AND SMILES
75.	STUDY ON EFFECT OF HIGH ALTITUDE ON HUMAN BODY AND RELATED FORMULATION OF BUSSINESS PLAN
76.	STUDY TO DEVELOP A VIABLE MODEL OF RURAL DENTAL CLINICS
77.	SUPPLY CHAIN MANAGEMENT PROCUREMENT OF DENTAL
78.	THE STUDY ON THE COMPLIANCE OF KAIZEN APPROACH IN AN HEALTH CARE ORGANIZATION
79.	TO IMPLEMENT NABH STANDARDS FOR SMALL HEALTHCARE ORGANIZATION AND IMPROVING PATIENT CARE SERVICES
80.	TO STUDY THE AWARENESS ON BIOMEDICAL WASTE MANAGEMENT AMONG NURSE PARAMEDICAL STAFF AND WASTE HANDLERS IN TERTIARY CARE HOSPITAL
81.	TO STUDY THE AWARENESS ON INFECTION CONTROL PRACTICES AMONG HEALTHCARE WORKERS IN DENTAL DEPARTMENT OF SIMS HOSPITAL, CHENNAI
82.	TO STUDY THE EFFECTIVE UTILIZATION OF PRIMARY CORONARY INTERVENTION SERVICES, IN A CARDIAC SUPER SPECIALTY HOSPITAL.
83.	USE OF CHECKLIST TO IMPROVE THE SAFETY OF HEALTH CARE PROVISION PICU IN TERTIARY CARE CHILDREN'S HOSPITAL
84.	VARIABLE COST BILLING MODEL: PROPOSAL OF ALTERNATIVE INPATIENT BILLING METHOD
85.	WHY CHANGE MANMAGEMENT IS IMPORTANT?
	M.B.A. Consultancy Management
86.	360 DEGREE APPRAISAL SYSTEM IN IAF CONTEXT
87.	A STUDY ON CUSTOMER EXPERIENCE MANAGEMENT
88.	A STUDY ON THE FACTORS THAT HELP IN IMPROVING QUALITY OF PROJECT DELIVERABLE'S
89.	A STUDY ON THE LEVEL OF WORK STRESS FOR MANAGERS
90.	ADVANCEMENTS IN MANUFACTURING WITH THE HELP OF DIGITAL TWIN
91.	AI AUGMENTED CONSULTANCY PRACTICES
92.	ANALYSIS OF SALES STRATEGIES FOR IMPROVING CONSTRUCTION BUSINESS
93.	APPROACH TO IDENTIFY ANOMALOUS HEALTHCARE PROVIDERS
94.	ARTIFICIAL INTELLIGENCE IN HEALTHCARE: MARKET OVERVIEW AND COMPETITIVE LANDSCAPE
95.	AUTOMATION ON DEMAND: USING TECHNOLOGY FOR TECHNOLOGY
96.	BUSINESS CONTINUITY STUDY FOR CLOUD ECOSYSTEM- A PROJECT MANAGEMENT APPROACH
97.	BUSINESS PROCESS ANALYSIS OF RETAIL BANKING
98.	BUSINESS PROCESS ANALYSIS ON SETTING UP ADDITIONAL OFFSHORE DEVELOPMENT CENTER IN TIER II CITIES IN INDIA
99.	BUSINESS PROCESS RE-ENGINEERING AT GREAT INNOVUS
100.	BUSINESS PROCESS RE-ENGINEERING FOR A START-UP COMPANY
101.	CAPITAL PROCUREMENT OF IAF THROUGH DESIGN AND DEVELOPMENT BY DRDO
102.	CHANGE MANAGEMENT AND ORCHESTRATION OF PROJECT MERGER FROM SEGREGATED TECHNOLOGY SUPPORT INTO A SINGLE NEXTGEN SUPPORT STRUCTURE
103.	CHANGE MANAGEMENT FOR SUCCESSFUL ERP IMPLEMENTATION
104.	CONSULTANCY APPROACHES IN TELECOM MANUFACTURING ORGANIZATION WITH MULTI-VENDOR AND MULTI-SECTOR IN IT SERVICES
105.	EFFECTIVE IMPLEMENTATION OF PROJECT MANAGEMENT PROCESSES AT VARIOUS STAGES IN SPONGE IRON CONSULTANCY
106.	EFFECTIVE LEADERSHIP STYLES IN MANAGING TRANSFORMATION
107.	EFFECTIVE PROJECT MANAGEMENT TECHNIQUES TO OPTIMIZE IMPLEMENTATION OF SOLAR PHOTOVOLTATIC POWER PLANTS
108.	EFFECTIVE REWARDS MANAGEMENT SYSTEM & STRATEGIES
109.	EFFECTIVE USE OF AGILE IN IT & NON IT PROJECTS
110.	EFFORT SAVING OF FEEDBACK ANALYSIS SYSTEM
111.	EMERGING TRENDS AND CHALLENGES IN ERP IMPLEMENTATION
112.	EMPLOYEE KNOWLEDGE MANAGEMENT MODELS IN IT PROJECTS FOR ORGANISATIONAL GROWTH
113.	ERP SAP IMPLEMENTATION IN OIL AND GAS INDUSTRIES
114.	FINANCIAL ANALYSIS OF CFCL AND IFFCO THROUGH RATIO ANALYSIS
115.	IMPLEMENTATION OF AGILE METHODOLOGY FOR SOFTWARE DEVELOPMENT PROJECT
116.	IMPLEMENTATION OF GIC AT THRYVE DIGITAL HEALTH LLP
117.	IMPLEMENTATION OF THE PMO FUNCTIONS TO IMPROVE PROJECT SUCCESS RATES IN AN ORGANIZATION
118.	IMPROVING PROJECT MANAGEMENT IN THE DEPARTMENT OF ENERGY AT CONSTRUCTION PROJECT
119.	INVENTORY PLANNING PROCESS IMPROVEMENT AND ERP IMPLEMENTATION
120.	IT INFRASTRUCTURE DE-MERGER

S.No.	DISSERTATION TITLE
121.	LEADERSHIP CHANGE AND IMPACT ON THE ORGANISATION GROWTH
122.	LEARN AND GROW
123.	MAKE READY PROCESS UPGRADATION TO HAVE HASSLE FREE OPERATIONS, MONETARY & MAN HOUR TIME BENEFITS
124.	MARKET WATCH
125.	MERGING OF TWO ORGANIZATIONS UNDER STEINER GROUP
126.	MIGRATION OF AN ERP APPLICATION FROM ON-PREMISE TO CLOUD SERVICES
127.	MODELING THE NEXT-GEN ERP FOR DISTRIBUTION INDUSTRY
128.	OBSOLESCENCE MANAGEMENT THROUGH INNOVATION IAF SUPPLY CHAIN
129.	OPERATION MANAGEMENT IN IT SUPPORT
130.	OPTIMIZATION OF RESOURCE & PROJECT PLANNING IN O&G ENGINEERING SERVICE ORGANIZATION
131.	OPTIMIZING THE OPERATIONAL EFFICIENCY WITHIN THE SAP SUPPORT ORGANIZATION.
132.	POWER PLANT WATER SYSTEM-CONTROL AND INSTRUMENTATION (C&I)-ENGINEERING AND PROJECT MANAGEMENT FOR GHATAMPUR THERMAL POWER PLANT (3*660MW)
133.	PRECISION MANUFACTURING AND SYSTEMS COMPLEX JECT PLANNING & PROJECT MANAGEMENT GROUP
134.	PROJECT ESTIMATION MODEL
135.	PROJECT MANAGEMENT WORKFLOW GRAVITY
136.	PROJECT RISK MANAGEMENT
137.	REAL VALUE NEGOTIATION
138.	REDUCTION OF FOOD WASTAGE IN THE OFFICE CANTEEN
139.	REPETITIVE TESTING WITH AUTOMATION TIME AND EFFORT REDUCTION
140.	RESEARCH & DEVELOPMENT OF COMPETENCY CENTERED CAREER ARCHITECTURE FOR DIVERSE JOB GRADES
141.	RESTRUCTURE PROJECT BUSINESS PROCESSES & APPLICATION - PERFORMANCE / QUALITY IMPROVEMENT LIFE-CYCLE
142.	REVAMPING THE IAF SUPPLY CHAIN MANAGEMENT
143.	SENIOR PROJECT MANAGER
144.	SETUP CLOUD CONSULTING PRACTICE: LAUNCHPAD FOR DIGITAL TRANSFORMATION BUSINESS
145.	SOLUTION DESIGN AND PROJECT DEPLOYMENT TO PROVIDE VSAT CONNECTIVITY AT OIL COMPANIES RETAIL OUTLETS FOR DATA AUTOMATION
146.	SOURCING NEEDS AND EFFECIENT INVENTORY CONTROL SYSTEMS
147.	STRATEGIC CONSULTING FOR NEXT GENERATION CUSTOMER EXPERIENCE PLATFORMS FOR BANKS
148.	STUDY OF EMPLOYEE ENGAGEMENT PRACTICES
149.	STUDY OF SKILL DEVELOPMENT MODELS
150.	STUDY ON EXISTING PROCESS FOR KNOWLEDGE BASE MANAGEMENT IN DEVOPS TEAM AND ITS IMPROVEMENTS
151.	STUDYING THE RELATIONSHIP BETWEEN AN OFFICERS PERSONAL LEADERSHIP STYLE AND RESILIENCY TO DETERMINE LEADERSHIP EFFECTIVENESS
152.	SURVEY RESPONSE RATE - LEADING CHANGE
153.	VERIZON 2.0-AN APPROACH TOWARDS AUTOMATION
	M.B.A. Finance
154.	A STUDY OF WORKING CAPITAL MANAGEMENT AT INFOSYS
155.	A STUDY ON FINANCIAL ANALYSIS AND FINANCIAL MODELLING FOR ENHANCED FINANCIAL PERFORMANCE
156.	A STUDY ON FUTURES AND OPTIONS
157.	A STUDY ON PERCEPTION OF INVESTORS INVESTING IN IT SECTOR
158.	AI BASED INTELLIGENT PLATFORM FOR BUSINESS VALUATION
159.	AN EMPIRICAL STUDY OF INVESTMENTS IN INDIAN STOCK MARKETS
160.	ANALYSIS OF MERGERS AND ACQUISITIONS
161.	ANALYSIS OF MULTINATIONAL FINANCE IN GLOBAL CAPITAL MARKET
162.	ANALYSIS OF MUTUAL FUND INDUSTRY INDIA
163.	ANALYSIS OF SUPPLIERS PERFORMANCE TRENDS AND OPPORTUNITIES
164.	ANALYSIS ON EMIRATES(COMMERCIAL) AIRLINE WITH FUTURISTIC VISION TO MITIGATE FINANCIAL RISK
165.	APPLICATION OF BUSINESS ANALYSIS AND VALUATION FOR LARGEST INDIAN INFORMATION TECHNOLOGY FIRM TATA CONSULTANCY SERVICES LTD
166.	ASSOCIATE CONSULTANT
167.	AUTOMATION DISRUPTION IN THE IT (INFORMATION TECHNOLOGY) SECTOR AND ITS FINANCIAL OUTCOMES
168.	AUXILLIARY PUMPS GROWTH INITIATIVE

S.No.	DISSERTATION TITLE
169.	BLOCK CHAIN BASED SYNDICATION LOANS
170.	BROADENING OF BOTTOMLINE THROUGH GLOBAL MARKETING OF HELICOPTERS
171.	BUSINESS INTELLIGENCE THROUGH DATA ANALYSIS IN MARINE TOWAGE INDUSTRY
172.	BUSINESS PROCESS MANAGEMENT IMPLEMENTATION THROUGH AGILE METHODOLOGY
173.	BUSINESS VALUATION OF INVENSOFT XBS - CTRM
174.	CHALLENGES IN INFRASTRUCTURE FINANCING IN INDIA
175.	CHALLENGES IN ISSUING INDIA SOVEREIGN BONDS IN FOREIGN CURRENCY AND ALTERNATIVE ROUTES FOR GOVERNMENT BORROWING
176.	COST BENEFIT ANALYSIS OF SECURITY IN RAILWAYS
177.	DERIVATIVES AND RISK MANAGEMENT IN INDIAN MARKET
178.	DIGITRANS BY WAY OF ORACLE CLOUD BANKING
179.	EVALUATION OF ALDERLEY'S FINANCIAL PERFORMANCE FOR LAST 5 YEARS
180.	EXCHANGE RATE VOLATILITY AND HEDGING EFFECTIVENESS OF CURRENCY DERIVATIVES
181.	FEASIBILITY STUDY OF PROVIDING VIDEO SURVEILLANCE AS A SERVICE (VSAAS) BY ETISALAT
182.	FOREIGN EXCHANGE EXPOSURE AND CROSS CURRENCY HEDGING EFFECTIVENESS
183.	FUNDAMENTAL AND TECHNICAL ANALYSIS OF INDIAN BANKING SECTOR
184.	IMPACT OF FISCAL AND MONETARY POLICY ON INDIAN CORPORATE
185.	IMPACT ON ORGANIZATIONAL SURVIVAL, GROWTH AND VALUATION IN LEU OF INSTITUTIONAL & PE INVESTORS IN THE SOFTWARE INDUSTRY AND FINANCIAL ANALYSIS OF SOFTWARE STARTUPS & UNICORNS IN INDIA
186.	IMPROVE FINANCIAL PERFORMANCE OF THE PLANT
187.	INNOVATIVE STRATEGIES AND TREND SIN RETAIL BANKING
188.	MANAGING AND IMPROVING THE MANUFACTURING ORGANIZATION: DEVELOPING THE FINANCIAL REPORTS INTO FINANCIAL IMPACTS UNDERSTANDING FOR NON FINANCIAL EMPLOYEES
189.	OPTION ANALYSIS AND TRADE GENERATION
190.	PERFORMANCE EVALUATION OF SELECTED MUTUAL FUNDS IN INDIA: AN ANALYSIS OF RISK AND RETURN
191.	RATIO ANALYSIS AS A TOOL FOR ANALYZING FINANCIAL STATUS
192.	RETAIL INVESTMENT BEHAVIOUR ANALYSIS FOR LIFE INSURANCE VS MUTUAL FUND
193.	RISK MANAGEMENT IN GLOBAL SUPPLY CHAIN
194.	ROLE OF BANKS IN INDIAN ECONOMY
195.	SOLUTION FOR PROVIDING LOANS TO NON SECTOR BUSINESS
196.	STRATEGIC ANALYSIS OF NTT DATA
197.	STUDY & ANALYSIS OF DIGITAL MARKETING STRATEGIES FOR A SAAS COMPANY
198.	STUDY AND ANALYSIS OF MARKETING STRATEGIES FOR A SAAS COMPANY
199.	STUDY OF MARKET RISK MANAGEMENT IN CONTEXT OF BEL
200.	STUDY OF THE DIFFERENCE BETWEEN SERVICES PERCEPTION AND EXPECTATION OF CUSTOMERS
201.	STUDY ON CREDIT APPRAISAL METHODS AND CORPORATE CREDIT MONITORING IN CANARA BANK
202.	STUDY ON VAT IMPLEMENTATION IN UAE
203.	THERMAL POWER GENERATION: OPERATION CHALLENGES, RISK TODAY AND WAY FORWARD.
204.	VENTURE CAPITAL FUNDING PROCESS THROUGH EARLY STAGE FINANCING AND EXTENSION FINANCING
	M.B.A. Quality Management
205.	100% DEFECT FREE CONTROL PANEL
206.	A CASE STUDY ON CYCLE TIME REDUCTION OF GAS TURBINE AT BHEL
207.	A FEASIBILITY STUDY FOR IMPLEMENTATION OF TQM PRINCIPLES IN NAVAL ARMAMENT INSPECTION (NAI) ORGANIZATION
208.	ANALYSING QUALITY MANAGEMENT
209.	AUDIT NON-CONFORMANCE REDUCTION
210.	BIOSIMILAR GLOBAL REGULATORY STRATEGY
211.	CERTAIN STUDY AND ANALYSIS FOR SETTING UP A NEW STARTUP COMPANY IN INDIA, APPROACH FOR EXECUTION OF FIVE BUSINESS AREAS OF STARTUP IN DIFFERENT STAGES
212.	CONSULTANCY PRACTICES IN GOVERNMENT SECTOR
213.	CYCLE TIME REDUCTION
214.	DEFECT REDUCTION USING PERSONAL QUALITY AND TQM
215.	DEVELOPING A SUSTAINABLE STRATEGY FOR QMS TO ACHIEVE ORGANIZATIONAL EXCELLENCE
216.	EFFECTIVE UTILIZATION OF PROJECT AND QUALITY MANAGEMENT TECHNIQUES FOR COST EFFECTIVENESS AND JIT DELIVERY OF PROJECT IN HAND
217.	ELIMINATE IMPORT AND CREATE KEP AS SELF SUFFICIENT PLANT FOR HHP INJECTOR CUP
218.	EXCELLENCE IN OPERATIONS MANAGEMENT

S.No.	DISSERTATION TITLE
219.	EXPLORING STRATEGIES, MODELS, TECHNOLOGIES AND LEADERSHIP TENETS FOR MANAGING SOFTWARE QUALITY IN 21ST CENTURY
220.	FINANCIAL ANALYSIS OF BHEL & BGR POWER
221.	HR MANAGEMENT- INSPIRED BY QUALITY
222.	IMPACT OF AUTOMATION ON BUSINESS VALUE METRICS
223.	IMPACT OF QUALITY MANAGEMENT SYSTEMS ON OPERATIONS MANAGEMENT AND ITS EFFECT ON SERVICE QUALITY & CUSTOMER SATISFACTION
224.	IMPACT OF TOTAL QUALITY MANAGEMENT IN SERVICE COMPANY
225.	IMPLEMENTATION OF ENHANCED QMS FOR A DESIGN OFFICE.
226.	IMPROVEMENT IN PROCESS QUALITY AND CUSTOMER SATISFACTION BY IMPLEMENTATION OF THE CONCEPT RUN TO TARGET IN DYE PRODUCT BATCHES WITH THE USE OF STATISTICAL METHODS AND TOOLS
227.	IMPROVING SERVICE QUALITY, CUSTOMER SATISFACTION AND BUSINESS PRACTICES THROUGH TOTAL QUALITY MANAGEMENT
228.	IMPROVING THE PRODUCTIVITY/PROFIT OF THE SOFTWARE DEVELOPMENT DIVISION
229.	INTEGRATION OF PRODUCTION PART NUMBERS IN BUILD ENVIRONMENT FOR ONBOARD TELEMATICS GATEWAY
230.	MAINTAINING QUALITY ASSURANCE IN IOT DEVICES AND THEIR SERVICES
231.	MAINTENANCE AND SAFETY IN INDIAN AIR FORCE
232.	MANAGING AND MAINTAINING TEAM WITH TICKET QUALITY
233.	MANAGING QUALITY OF OUTSOURCED ENGINEERING SERVICES
234.	MOBILE APPLICATION TESTING
235.	PROBLEM SOLVING METHODOLOGY
236.	PRODUCT QUALITY DEFECT REDUCTION
237.	PRODUCT QUALITY IMPROVEMENT DASHBOARD
238.	PRODUCTIVITY IMPROVEMENT IN FUEL TANK
239.	PROPOSAL FOR AMENDMENT OF DOCUMENTATION SYSTEM AND PROCEDURE @ HMRP
240.	QUALITY ASSURANCE FRAMEWORK FOR BUSINESS ANALYTICAL SOLUTIONS
241.	QUALITY CONTROL OF CONSTRUCTION WORK IN INDIAN ARMY
242.	QUALITY IMPROVEMENT IN AVIATION SAFETY BY TRAINING RESEARCH & ANALYSIS AND PUBLICITY
243.	QUALITY TESTS AUTOMATION SYSTEM
244.	QUALITY THROUGH MEASUREMENT SYSTEM DEVELOPMENT AND IMPLEMENTATION OF MSA AND SQC TECHNIQUES FOR A NEW PRODUCT PRECISION TUBING ALUMINIUM ALLOY THROUGH QUALITY LABORATORY CRITICAL PROCESS.
245.	QUALITY THROUGH MEASURING SYSTEMS - DEVELOP THE RELIABLE MEASUREMENT SYSTEM TO MONITOR COKE RESISTIVITY TO PRODUCE QUALITY ANODES.
246.	RECOMMENDED METHODS IN SOFTWARE QUALITY MANAGEMENT AND THEIR IMPACT ACROSS ORGANIZATIONS
247.	RECORD KEEPING AUDITS
248.	REDUCTION OF FUEL OIL CONSUMPTION IN CALCINATION THROUGH PROCESS IMPROVEMENTS AT UTKAL ALUMINA INTERNATIONAL LTD, DORAGUDA
249.	REJECTION REDUCTION IN TRIM COVER MANUFACTURING THROUGH SQC
250.	RISK ASSESSMENT AND DE-RISKING OF SUPPLY CHAIN OF ACG
251.	ROLE OF PMC IN STAKE HOLDER MANAGEMENT IN CONSTRUCTION COMPANY
252.	SAP TO LEVEL II AUTOMATION OF INTEGRATION OF NEW PLATE MILL
253.	SIGNIFICANCE OF INVENTORY MANAGEMENT IN AUTOMOBILE INDUSTRY
254.	SOFTWARE TESTING AND QUALITY ASSURANCE
255.	SOFTWARE TESTING IN AGILE DEVELOPMENT TECHNOLOGICAL AND ORGANIZATIONAL CHALLENGES
256.	TACKLING THE 7 MUDAS OF MANUFACTURING IN 73 SERIES CELLS
257.	THE QUALITY OF LIFECYCLE SAFETY
258.	TO CO-ORDINATE AND MONITOR THE ON-TIME DEVELOPMENT OF AIR DISC BRAKE ASSEMBLY (UPTO THE KEY MILESTONE OF MANUAL ASSEMBLY AT WAR ROOM) WITH RIGHT QUALITY PARTS
259.	TO REDUCE INVENTORY COST AND SIMPLIFY INVENTORY MANAGEMENT
260.	TOTAL QUALITY MANAGEMENT (TQM) AND GENERAL DATA PROTECTION REGULATION (GDPR)
261.	TOTAL QUALITY MANAGEMENT IN INFORMATION TECHNOLOGY SECTOR
262.	TQM FOR HEALTHCARE SOFTWARE TESTING
263.	UNDERSTANDING OF LEGO SERIOUS PLAY
264.	WAREHOUSE LAYOUT REDUCING MAN MOVEMENT
265.	ZERO DEFECT THROUGH TOTAL QUALITY MANAGEMENT
	M.B.A. Manufacturing Management
266.	A STUDY ON FACTORS INFLUENCING DELAY IN THE RESIDENTIAL CONSTRUCTION PROJECTION IN

S.No.	DISSERTATION TITLE
	CHENNAI
267.	ANALYSIS OF PRODUCTION PROCESSES AND EFFECTIVE PRODUCTION MANAGEMENT IN SHIPBUILDING
268.	APPLICATION OF PROJECT MANAGEMENT PROCESS IN PROJECT MANAGEMENT
269.	AUTOMATION OF INVOICE PROCESSING / APPROVAL & GENERATION OF MIS REPORT
270.	BUSINESS IMPACT ON ADAPTING NEW TECHNOLOGIES AN IT INDUSTRY OVERVIEW
271.	CHINA TARIFF MITIGATION BY ROTOR HUB EXPORT TO USA FROM INDIA
272.	DATA COLLABORATION & MANHOOR SAVINGS USING MS TEAMS
273.	DEPLOYING OPERATION EXCELLENCE: A BUSINESS OPTIMIZATION & IMPROVEMENT STRATEGY
274.	DESIGN AND DEVELOPMENT OF RUBBER SHEET PRESSING MACHINE
275.	DETAILED ANALYSIS OF TRADITIONAL SHIPBUILDING PRACTICES AND ADAPTATION OF MODERN MANUFACTURING TECHNIQUES FOR IMPROVED SHIPYARD MANAGEMENT
276.	DEVELOP AND VALIDATE STAGE V CONVERSION OF TITAN T4 THROUGH PRODUCT AND PROCESS PLANNING
277.	DEVELOPMENT & IMPLEMENTATION OF NEW MANUFACTURING METHODOLOGIES IN LEAN WAY
278.	DEVELOPMENT OF LONG SHANK NUT
279.	DEVELOPMENT OF RESOURCE PLANNING AND UTILIZATION FRAMEWORK
280.	DEVOPS - A PRACTICE THAT CHANGED THE CULTURE OF IT PROJECT MANAGEMENT
281.	EFFECT OF GST IMPLEMENTATION IN TAMIL NADU ECONOMY
282.	EFFECTIVE PROJECT MANAGEMENT TO DELIVER A PRODUCT TO CUSTOMER
283.	EFFICIENT AND ECONOMICAL POSITIONING OF ARMAMENT STORES USING TRANSPORTATION MODEL
284.	ELECTRONIC PACKAGING OPTIMIZATION IN SURVEILLANCE SYSTEM OF NAVAL SHIP
285.	ELIMINATION OF REJECTION DUE TO GRINDING DIAMETER U/S & O/S IN SPROCKET MODULE
286.	ELIMINATION OF REJECTION DUE TO SPOT FACE BURR IN DRILLING OPERATION IN HUB MODULE
287.	EMB EMERGENCY BULB- THE NEW ERA OF BULBS
288.	ENERGY EVALUATION & MANAGEMENT FOR PHARMACEUTICAL INDUSTRY
289.	ENHANCEMENT OF SUPPLY CHAIN AND SERVICE PARTS OPERATION
290.	ENTERPRISE RESOURCE PLANNING SAP IMPLEMENTATION IN PLANT MAINTENANCE
291.	EXPLORING VIABILITY OF USING ELECTRIC 3W / QUADCYCLES TO DEFINE SMART FIRST MILE/ LAST MILE CONNECTIVITY SOLUTIONS USING SUPPLY CHAIN CONCEPTS
292.	GOODS AND SERVICES TAX FILING PROCESS SOLUTION ARCHITECTURE & APPLICATION WIREFRAMES - SOFTWARE DEVELOPMENT LIFE CYCLE
293.	IMPLEMENTATION OF KANBAN SYSTEM FROM RAW MATERIAL TO FINISHED GOODS
294.	IMPLEMENTATION OF MONITORING AND CONTROL ASPECTS IN SALES & OPERATIONS PLANNING
295.	IMPLEMENTATION ONE PIECE FLOW FOR THE MOBILE PHONE PRODUCTION USING THE LEAN MANUFACTURING TECHNIQUES
296.	IMPLEMENTING ASSET OPTIMISATION - AN OPERATIONAL EXCELLENCE STRATEGY
297.	IMPROVEMENT OF SUPPLIER QUALITY
298.	IMPROVING PROJECT MANAGEMENT GOVERNANCE FOR NEW PRODUCT INTRODUCTION AND INDUSTRIALIZATION SET UP
299.	INCREASE THE PRODUCTIVITY FOR IMPLEMENTATION OF TPM IN MANUFACTURING ORGANISATION.
300.	INCREASING LIQUID NITROGEN PRODUCTION BY ADDING COMPRESSOR TO CATER HIGH NITROGEN DEMAND
301.	INTRODUCTION OF PERFORMANCE BASED LOGISTICS (PBL) AS A PART OF LEAN MAINTENANCE MANAGEMENT OF GROUND CONTROL APPROACH (GCA) RADARS IN IAF
302.	INVESTIGATIVE ANALYSIS OF SUPPLY CHAIN-LOGISTIC LINK AIMING TO REDUCE LEAD TIME
303.	JUST IN TIME SUPPLY OF TERTIARY PACKING MATERIALS
304.	KANBAN IMPLEMENTATION FOR C CLASS MATERIAL
305.	LEAD TIME ANALYSIS OF PROCUREMENT
306.	LEAN AND DIGITALIZATION OF PROCUREMENT
307.	LEAN MANUFACTURING
308.	LEARNING AND IMPROVING THE SUPPLY CHAIN DRIVERS BY IMPLEMENTING STANDARD SYSTEMS
309.	MANAGING PEOPLE FOR TECHNOLOGY AND PROCESS CHANGE IN THE ORGANIZATION
310.	MANUFACTURING PROJECTORS UNDER MAKE IN INDIA (STRATEGIC MANAGEMENT AND BUSINESS POLICY)
311.	OPERATIONS MANAGEMENT IN STARTUPS
312.	OPTIMISE MATERIAL HANDLING MANPOWER IN THE ENTIRE JUPITER LINE BY MINIMISING IDENTIFIED WASTES
313.	ORGANIZATIONAL READINESS FOR FUTURE MOBILITY
314.	PLANT MAINTENANCE EFFECTIVENESS IMPROVEMENT BY APPLYING LEAN TECHNIQUES
315.	PORTFOLIO MANAGEMENT OF PHARMACEUTICAL INDUSTRY IN EMERGING MARKETS.

S.No.	DISSERTATION TITLE
316.	PROACTIVE MAINTENANCE MANAGEMENT -TCM
317.	PROCESS IMPROVEMENT THROUGH SYSTEM DEVELOPMENT FOR NON CONFIRMING PARTS
318.	PROCESS YIELD IMPROVEMENT BY APPLING LEAN MANUFACTURING PRINCIPLES
319.	PRODUCTION PLANNING AND INVENTORY CONTROL TO ACHIEVE 100% OTIF
320.	PRODUCTIVITY & TIME SAVING VIA AUTOMATION MACRO
321.	PRODUCTIVITY IMPROVEMENT AT AUTO-SEAMING -03 LINE FOR OIL FILTERS
322.	PRODUCTIVITY IMPROVEMENT AT MPFI LINE FOR FUEL FILTERS
323.	PRODUCTIVITY IMPROVEMENT IN COMMERCIAL VEHICLE BRAKE LININGS MANUFACTURING PROCESS
324.	PRODUCTIVITY IMPROVEMENT THROUGH OPTIMUM UTILIZATION OF RESOURCES
325.	PROJECT EXECUTION & OPERATION OF CEMENT PLANT
326.	PROJECT MANAGEMENT SKILLS AND METHODOLOGY TO INCREASE PROJECT SUCCESS RATE
327.	REDUCING CYCLE TIME OF SAMPLE DEVELOPMENT EMPLOYING LEAN MANAGEMENT
328.	REDUCING PART MIXING PROBABILITY IN SZCPL ARM ASSEMBLY LINES
329.	REDUCTION OF DISCREPANCIES IN DISPATCHED SHIPEMENTS AND SIMPLIFICATION OF THE WAREHOUSE PROCESSES WITOUT LOSING CONTROL
330.	REDUCTION OF PRODUCT LEAD TIME - ORDER TO DELIVERY
331.	RETENTION STRATEGY FOR HIGHLY ENGAGED WORKFORCE
332.	ROLL-OUT STRATEGIC ASSETS MANAGEMENT PLANNING SYSTEM
333.	SCRUM MANAGEMENT AND CHALLENGES IN CE, RM, AND MINING INDUSTRY
334.	SPECIFIC TECHNIQUE DEVELOPMENTS IN GIS THROUGH CAD
335.	STRATEGIC FRAMEWORK FOR IMPLEMENTATION OF INVENTORY AND ASSET MANAGEMENT AND LIFE CYCLE OPTIMIZATION
336.	STREAMLINING FREIGHT AUDIT & PAYMENT PROCESS
337.	STUDY ON JUST IN TIME MANUFACTURING
338.	SUPPLY CHAIN NETWORK OPTIMIZATION AND PULL INTEGRATION WITH CUSTOMERS
339.	THE EFFECT OF JOINT VENTURE (JV), MERGER OR ACQUISITION ON R&D PERFORMANCE
340.	THE IMPACT OF AGILE PROJECT MANAGEMENT ON PRODUCTIVITY IN IT INDUSTRY
341.	TO DEVELOP HIGH STRENGTH LOW ALLOY (HSLA) 420 GRADE THROUGH COLD ROLLING ROUTE
342.	TRANSFORMING BUSINESS - 5S METHODOLOGY
	M.Tech. Embedded Systems
343.	3D ALPHABET TUTOR USING LABVIEW
344.	802.11AX TEST COMPLIANCE EXTENSION FOR INTEROP
345.	ACCELERATION OF MACHINE LEARNING APPLICATION ON EMBEDDED MICROCONTROLLERS
346.	ACCURATE OBJECT DETECTION USING MM RADAR WAVE
347.	ADVANCED DRIVER ASSISTANCE SYSTEM WITH COLLISION AVOIDANCE AND EMERGENCY BRAKE ASSIST USING TENSOR FLOW ALGORITHM
348.	ALCOHOL SENSING AND ACCIDENT PREVENTING SYSTEM
349.	AN IMAGE ENCRYPTION SCHEME WITH VALUE TRANSFORMATION AND POSITION PERMUTATION
350.	AN IOT BASED SYSTEM TO CONTROL HEATING UP OF PARKED CAR INTERIOR DUE TO DIRECT SUNLIGHT
351.	ANALYSIS OF MILK QUALITY PARAMETERS USING NIR SPECTROSCOPY
352.	ANALYZING THE PERFORMANCE OF BACKGROUND MODELLING USING HARDWARE ACCELERATION
353.	ANDRIOD / SMS BASED AUTOMATIC MOTOR / PUMP STARTER & SCHEDULER
354.	APPLICATION OF DATA STORAGE/TRANSMISSION BY ENCRYPTION IN MICROCONTROLLERS
355.	APPLICATION OF FORMAL METHODS IN LANDING GEAR TRANSITION LOGIC ON AIRCRAFT SYSTEMS USING SLDV AND NUSMV ON MODELS
356.	APPLICATION OF WIRELESS SENSOR NETWORKS FOR POWER PLANTS
357.	APPROACH FOR SECURE SOFTWARE UPDATE OF EMBEDDED SYSTEM PRODUCTS
358.	ARINC-429 WIFI ADAPTER UNIT
359.	ARM CORTEX M7 BASED MEDICAL INSTRUMENTS
360.	ARTIFICIAL INTELLIGENCE BASED NODE LOCALIZATION ALGORITHM FOR WIRELESS SENSOR NETWORKS INVOLVING 2D LOCALIZATION
361.	ASSET TRACKING USING BLE MESH NETWORK
362.	AUTOMATED FAN TESTING SYSTEM USING MICRO CONTROLLER
363.	AUTOMATIC CAR PARKING SYSTEM USING VERILOG SIMULATION
364.	AUTOMATIC STARTING & STOPPING OF MAIN ENGINE IN SHIP IN CAMPUS & INSTALLATION OF VARIOUS ALARMS & TRIPS MONITORING SYSTEM FOR SAFETY OF MAIN ENGINE AND NAVIGATION ON BOARD.
365.	AUTOMATIC VEHICLE CLASSIFIER SYSTEM
366.	AUTOMATION CONTROLLER SOFTWARE DEVELOPMENT
367.	AUTOMATIVE AIR QUALITY MONITORING AND CONTROL SYSTEM

S.No.	DISSERTATION TITLE
368.	AUTOMOTIVE DUAL ZONE INFOTAINMENT BASED ON VOICE ASSISTANT OVER IOT
369.	AUTONOMUS PRODUCT VERIFICATION CARD
370.	BATTERY MANAGEMENT SYSTEM
371.	BLE POWER SAVER USING FAST RECONNECT
372.	CHESS BOT
373.	COMPUTING TELEMETRY STATISTICS FOR VITRUAL NIC
374.	CONNECTED FARM
375.	CONTROL STRATEGY FOR CREEP AND HILL HOLD IN ELECTRIC VEHICLES
376.	CONTROL SYSTEM FOR ELECTRIC COMPRESSOR IN HYBRID VEHICLE
377.	CURRENT TRENDS IN SIMULATORS DEVELOPMENT AND DETAILED STUDY OF HOST PROCESSOR BASED SIMULATOR FOR EMBEDDED SOFTWARE DEVELOPMENT ABD VERIFICATION
378.	CYBER SECURITY ASSESSMENT FRAMEWORK FOR IOT
379.	DDR DUMP PARSER TOOL FOR FASTER AND EFFICIENT WAY TO EXTRACT DDR DATA FROM CRASHDUMPS
380.	DEBUG TOOL DEVELOPMENT FOR CO-SIMULATION VERIFICATION
381.	DEMONSTRATION OF TRUSTZONE IN ARM CORTEX M23 USING SAML11 MICROCONTROLLER
382.	DEPLOYMENT OF ADAPTIVE ENHANCEMENT AND CLASSIFICATION OF OBJECTS IN MAGE PROCESSING USING MACHINE LEARNING APPROACHES
383.	DESIGN & DEVELOPMENT OF MACHINE MONITORING SYSTEM
384.	DESIGN AND DEVELOPMENT OF A HANDHELD CANCER/DIABETES (TYPE 2) DETECTION SYSTEM BASED ON A RATIOMETRIC FLUORESCENT SENSING MECHANISM
385.	DESIGN AND DEVELOPMENT OF AUTOMATIC REAL-TIME RPM CONTROLLER FOR VFD'S USED IN THE FUEL SYSTEM TEST-BED OF AEROENGINE.
386.	DESIGN AND DEVELOPMENT OF HUMAN CENTRIC LIGHTING (HCL) LED DRIVER CONTROLLED BY AN ANDROID APP
387.	DESIGN AND DEVELOPMENT OF SINGLE PASS DIGITAL BEAM POSITION MONITOR FOR PARTICLE ACCELERATORS
388.	DESIGN AND IMPLEMENTATION OF 32KB, 4-WAY SET ASSOCIATIVE VIPT INSTRUCTION CACHE
389.	DESIGN OF ADVANCED QUANTIZATION FOR VARIABLE BIT COMPUTING PORTS
390.	DESIGN OF AN IOT BASED AUTONOMOUS VEHICLE WITH THE AID OF COMPUTER VISION
391.	DESIGN OF CARBON MONOXIDE DETECTOR AS PER EN - 50291-1 FOR USE IN DOMESTIC PREMISES
392.	DESIGN OF POWER DISTRIBUTION BOX FOR SEMICONDUCTOR EQUIPMENTS
393.	DESIGN, SIMULATION AND IMPLEMENTATION OF PULSE COMPRESSION RECEIVER ON FPGA FOR AIRBORNE TRACKING RADAR APPLICATION
394.	DETECTING EMBEDDED SOFTWARE FROM COUNTERFEITING
395.	DETECTION AND PREVENTION OF BLACK HOLE ATTACK IN MOBILE AD HOC NETWORK
396.	DEVELOPMENT OF FRACTIONAL ORDER PID CONTROLLER ON EMBEDDED PLATFORM
397.	DIGITAL RF POWER METER
398.	DNOX HYDRAULIC SYSTEM FOR LARGE ENGINES
399.	DOOR EYE A SMART DOOR KEEPER
400.	DSP CONTROL HARDWARE DESIGN FOR TRACTION MOTOR CONTROLLER FOR ELECTRIC VEHICLE
401.	E GREEN HOUSE
402.	E-BASED MAINTENANCE MANAGEMENT IN THE AVIATION SECTOR
403.	ECU EDITOR TOOL
404.	EFFECTIVE ENERGY MANAGEMENT AT DEVICE EDGE
405.	ELECTRIC BUS ELECTRONIC CONTROL UNIT INTERFACE WITH OPAL RT FOR SIMULATION AND TESTING
406.	ENHANCEMENTS IN REALTIME SIMULTANEOUS DUAL BAND FEATURE BY INTRODUCING THREE CONCURRENT MODES OF OPERATION FOR AUTOMOBILE SYSTEMS
407.	ENHANCEMENTS IN SWITCHING FABRIC SOFTWARE OF JUNIPER PTX10008 ROUTERS
408.	ENHANCING APPLICATION ACCESSIBILITY FEATURES
409.	ENHANCING BLUETOOTH LOW ENERGY RANGE WITHOUT PROPORTIONAL INCREASE IN POWER BUDGET .
410.	EXTRACTION OF IRIS PARAMETERS FROM THE CAPTURED EYE IMAGE FOR BIO METRIC RECOGNITION
411.	FACE DETECTION AUTHENTICATION ON SMARTPHONES: END USERS USABILITY ASSESSMENT EXPERIENCES
412.	FACIAL RECOGNITION BASED AUTOMATIC ATTENDANCE SYSTEM
413.	FARM MONITORING WITH DRONE
414.	FIRMWARE UPGARDE OVER THE AIR (FOTA) FOR EMBEDDED SYSTEMS
415.	FISH CULTURE USING SMART TECHNOLOGY
416.	FLIGHT CALIBRATION OF NAVAIDS USING DRONES: A STUDY

S.No.	DISSERTATION TITLE
417.	FPGA PARTITIONING OF MULTI-MILLION GATE SOC
418.	FRAMEWORK FOR VERIFICATION OF ADAS FEATURE FUNCTIONS USING VEHICLE LOGS
419.	HARMER VISION-IP CAMERA
420.	HEALTH-TECH ENABLING INNOVATION IN LIFESCIENCES
421.	HIGH BANDWIDTH CAMERA IMAGE PROCESSING
422.	HIGH TECH FARMING USING IOT
423.	IGATE: IOT BASED ADVANCED AUTOMOTIVE ACTIVITY GOVERNING AT RESTRICTED ZONES
424.	IMAGE PROCESSING BASED STUDENT DATA MANAGEMENT USING RASPBERRY PI
425.	IMPLEMENTATION OF ASSET MANAGEMENT OVER BLUETOOTH LOW ENERGY
426.	IMPLEMENTATION OF XILINX EMBEDDED RDMA NIC (ERNIC) IP SUBSYSTEM
427.	INDOOR LOCATION TRACKING USING BLE MESH NETWORK
428.	INDOOR POSITIONING SYSTEM
429.	INDUSTRIAL IOT DEVICE SYSTEM
430.	INTEGRATED OUTER REAR VIEW MIRROR (ORVM) CONTROL SOLUTION
431.	INTEGRATION OF PROCESS CONTROL SYSTEM WITH QUALITY CONTROL SYSTEM AND SCADA SYSTEM USING GATEWAYS
432.	INTELLIGENT ELECTRICAL SUBSTATION CONTROL SYSTEM: ADVANCED AUTOMATION PROGRAMMING AND ARCHITECTURE APPROACH USING PROGRAMMABLE LOGIC CONTROLLER AND SUPERVISORY CONTROL AND DATA ACQUISITION
433.	INTELLIGENT SHOPPING CART WITH SMART AND SECURE PAY
434.	INTELLIPICK: INTELLIGENT VISION ASSISTED SORTING ROBOT
435.	INTERPOSER BOARD DESIGN FOR DEVELOPMENT OF 802.11N LOW POWER WLAN
436.	IOT AND AI BASED SMART HOME SOLUTION
437.	IOT BASED AI WEATHER PREDICTION
438.	IOT BASED AUTOMATIC SPROUTS MAKING MACHINE
439.	IOT BASED HEALTH MONITORING SYSTEM FOR EMERGENCY CASES
440.	IOT BASED TRAFFIC AND POLLUTION CONTROL SYSTEM
441.	IOT HEALTH CARE SOLUTION
442.	LANE KEEP ASSIST
443.	LASER BASED INTRUSION DETECTION SYSTEM(LBIDS)
444.	LORA BASED IOT APPLICATION
445.	MBED TLS OPTIMIZATION AND ENHANCEMENT FOR MEMORY DEVICES
446.	MEMORY SIDE EFFECTS - A DOUBLE EDGE SWORD IN SECURITY APPLICATIONS
447.	MONITOR & CONTROL PROJECT PERFORMANCE BY RISK MANAGEMENT
448.	MONITORING AND CONTROL OF WIND FARM FROM REMOTE USING IOT
449.	MULTIPOINT AUTOCALIBRATION OF MOTOR WITH PUMP
450.	NETWORK BASED BIOMETRIC ACCESS AUTHENTICATION FOR VECHICLES
451.	OBJECT CLASSIFICATION AIDED DEEP LEARNING BASED AUTONOMOUS VEHICLE WITH INTERNET OF THINGS
452.	OFFLINE CALIBRATION TUNER FOR CONTROLLER
453.	OPAC OPEN AGRI CHAIN
454.	OPTIMIZATION OF CONTROL PROTECTION OF GIS SUBSTATION USING EMBEDDED SYSTEMS
455.	OVER THE AIR UPDATE THROUGH SECURE CHANNEL FOR SENSOR NETWORK
456.	PARALLEL PROCESSING FOR INTEGRATED MULTICORE AVIONICS SYSTEM
457.	PEDESTRIAN DETECTION AND BLIND SPOT MONITORING SYSTEM FOR AUTONOMOUS DRIVING
458.	PERFORMANCE AND FUNCTIONAL VERIFICATION OF INSTRUCTION CACHE FOR MICROCONTROLLERS
459.	PORTING REMOTE NETWORK DRIVER INTERFACE SPECIFICATION ON TM4C129X USB HOST
460.	POWER OPTIMIZATION IN MOBILE PHONE DEVICES
461.	POWER SAVING IN ANDROID WEAR DEVICE
462.	REDUCTION OF THE VEHICLE DEPENDENCY TESTING SCENARIOS FOR A PARTICULAR ECU BY SIMULATING THE CAN MESSAGES OF THE DIFFERENT DEPENDENT ECUS IN THE TEST BENCH
463.	REMOTE ECU NODE FOR THE DIAGNOSIS AND FIRMWARE UPDATE OF THE AUTOMOTIVE ECUS
464.	REMOTE FUEL DISPENSER DIAGNOSTIC INFRASTRUCTURE
465.	REMOTE RADIATION MEASUREMENT BY ROVER
466.	REST OF THE BUS SIMULATION CONCEPT USED IN INFOTAINMENT VALIDATION
467.	RF OUTDOOR UNIT FOR FIELD WIRELESS SYSTEM (FWS)
468.	RTC PPM ERROR MEASUREMENT SYSTEM FOR RTC CALIBRATION (EMBEDDED SYSTEM DESIGN)
469.	SAFETY CASE FOR BATTERY MANAGEMENT SYSTEM IN HIGH VOLTAGE ELECTRIC VEHICLE
470.	SATELLITE ATTITUDE CONTROL USING REACTION WHEELS

S.No.	DISSERTATION TITLE
471.	SECURED COMMUNICATION USING WIRELESS TECHNOLOGY FOR DEFENCE SYSTEMS
472.	SECURED WIRELESS SOLUTION FOR CONNECTED AVIONICS PRODUCTS
473.	SECURITY ANALYSIS AND IMPLEMENTATION OF ARM BASED IOT NODE
474.	SENSOR DATA ACQUISITION AND FUSION WITH CONTROLLER SYSTEM BY CONFIGURABLE NETWORKS BINDING
475.	SLIDING MODE OBSERVER FOR PMSM CONTROL
476.	SMART DATA ACQUISITION SYSTEM
477.	SMART ENERGY METER MONITORING BASED ON IOT AND ARDUINO UNO
478.	SMART HEALTH MONITORING SYSTEM
479.	SMART HOME HVAC PROFILE USING BLUETOOTH LOW ENERGY (BLE)
480.	SMART LIGHTING IOT APPLICATION USING LORIOT
481.	SMART SECURITY AND HOME AUTOMATION
482.	SMART SECURITY CAMERA WITH FACIAL DETECTION
483.	SMOKE REDUCTION IN VEHICLE THROUGH EGR CONTROL
484.	SOFTWARE DEFINE NETWORK CONTROLLER APPLICATIONS
485.	SOFTWARE FOR PXI SWITCH MATRIX CARD
486.	SOFTWARE POWER ESTIMATOR
487.	SOLAR POWERED EV CHARGER
488.	STREET LIGHT MANAGEMENT SYSTEM WITH SINGLE POLE CONTROL BASED ON 6LOWPAN
489.	STUDY AND IMPLEMENTATION OF CFAR ALGORITHM FOR DETECTION OF TARGET IN HETEROGENEOUS ENVIRONMENT
490.	SURVEY AND PERFORMANCE ASSESSMENT OF DATA SCIENCE AND MACHINE LEARNING PACKAGES ON AN EMBEDDED PLATFORM
491.	SYSTEM VERILOG AUTOMATIC DESIGN CREATION COMPLIANT WITH IEEE STD 1800-2012 LRM
492.	TELEMATICS FOR CAR
493.	TEST FRAMEWORK - COLLISION AVOIDANCE - SELF DRIVING AUTONOMOUS CAR
494.	TRAFFIC SCHEDULING AND ROUTING IN VEHICULAR DELAY TOLERANT NETWORKS
495.	TRAFFIC SIGN RECOGNITION WITH ACCESS TO A CLOUD DATABASE
496.	TRAFFIC SIGN RECOGNITION: CLASSIFIER AND VERIFIER USING CONVOLUTION NEURAL NETWORK
497.	UNINTENDED ACCELERATION AND DECELERATION CONTROL IN ELECTRIC VEHICLES
498.	UPLOADING TEXT DETECTED THROUGH OPTICAL CHARACTER RECOGNITION OVER CLOUD
499.	UPTIME SUPPORT TO MARINE APPLICATIONS USING TELEMATICS
500.	USE OF ROS IN SAFETY CRITICAL AUTONOMOUS MOBILE ROBOT
501.	VALIDATION OF SOUNDWIRE BASED COMMUNICATION USING AUDIO CODEC
502.	VIBRATION ANALYSIS USING WAVELETS AND ARTIFICIAL NEURAL NETWORKS FOR AUTOMOTIVE APPLICATION
503.	VIRTUAL SECURITY ASSISTANT
504.	VOICE COMMUNICATION IN AVIATION SECTOR
505.	VOLATILE SUBSTANCE DETECTION SYSTEM
506.	WASTE SEGREGATION USING SENSORS AND CLOUD NETWORK
507.	WI-FI PERFORMANCE IMPROVEMENT BY IMPLEMENTING DYNAMIC BAND/BANDWIDTH SWITCHING IN RSDB SCENARIOS
508.	WIRE SPEED SECURE PACKET PROCESSOR
509.	WIRELESS ACCESS POINTS
	M.Tech. Software Systems
510.	5G NEW RADIO PLANNING WITH LOCATION ADHER TO EMF COMPLIANCE NORMS OF DOT
511.	5G RADIO RESOURCE MANAGEMENT (RRM) IMPLEMENTATION FOR 4G MOBILE DEVICES CHALLENGES AND PROPOSED SOLUTIONS
512.	5G USER PLAN FUNCTION (UPF) FAST PATH DATA HANDLING WITH QOS ENFORCEMENT, DATA LOG COLLECTION USING CONTAINERIZATION PLATFORM
513.	A DESIGN OF SECURE LIGHT-WEIGHT DATA SHARING SCHEME FOR MOBILE CLOUD
514.	A HIERARCHICAL APPROACH FOR RAIN OR SNOW REMOVING IN A SINGLE COLOR IMAGE
515.	A MACHINE LEARNING APPROACH FOR IDENTIFYING BIAS IN ONLINE NEWS PORTAL AGAINST PERSONALITIES OR POLITICAL PARTIES
516.	A MODERN RECOMMENDER IN ALTAIR365
517.	A NOVEL APPROACH TO TEST AUTOMATION IN SCALED AGILE FRAMEWORK
518.	A PREDICTIVE MODEL FOR ESTIMATING LOAD IN MOBILE NETWORK
519.	A QUALITY INDICATOR WHICH IDENTIFIES AND REPORTS THE GLOBALIZATION HEALTH/RISK IN SOFTWARE
520.	A RECOMMENDATION SYSTEM FOR CLOUD RESOURCE CONFIGURATION BASED ON MACHINE

S.No.	DISSERTATION TITLE
	LEARNING APPROACH.
521.	A RECOMMENDATION SYSTEM FOR SERVER UTILIZATION USING MACHINE LEARNING (SMART LOAD BALANCER)
522.	A SELF-CONFIGURABLE SOFTWARE FRAMEWORK FOR ADAPTIVE SIGNAL ANALYTICS BASED ON AUTONOMIC SERVICE COMPONENTS.
523.	A SOFTWARE DEVELOPMENT KIT FOR BUILDING DOMAIN SPECIFIC LANGUAGE
524.	A SPATIAL AND TEMPORAL ANALYSIS OF API TRAFFIC INFLOW : A COMPARATIVE STUDY OF PREDICTIVE MODELS
525.	A STATISTICAL ANALYSIS OF BATTING PERFORMANCE IN CRICKET
526.	A STUDY ON MOVIE RECOMMENDATION SYSTEM USING MAPREDUCE
527.	A TECHNIQUE FOR HVAC RUNTIME OPTIMIZATION USING ARTIFICIAL INTELLIGENCE IN DATA CENTERS
528.	ABB ROBOTICS CONTROLLER API USAGE ANALYTICS
529.	ABJART(AUTOMATIC BATCH JOB ANALYSYS AND REPORTING TOOL)
530.	ABSTRACTIVE TEXT SUMMARISATION (TEXT IN GRAPH DATASTRUCTURE)
531.	ACCELERATE PROJECT DEVELOPMENT USING ML
532.	ACCELERATING SYSTEM BOOTUP TIME USING GISO
533.	ACCURATE DOCUMENT RETRIEVAL FROM CLOUD
534.	ACHIEVING COST SAVINGS FROM OPERATIONAL EFFICIENCY
535.	ACHIEVING NETWORK SLICING IN 5G USER PLANE DATA USING HIGH-PERFORMANCE DATA GENERATION FRAMEWORK
536.	ADAPTIVE APPROACH FOR BUG PREDICTION USING DYNAMIC CLASSIFIERS SELECTION
537.	ADAPTIVE SYNCHRONISATION FOR VOLUME REPLICATION
538.	ADDITION OF LOYALTY PROGRAM TO EXISTING STAND ALONE POS APPLICATION
539.	ADO BOT - ADMINISTRATIVE OPERATIONS BOT
540.	ADVANCED LANE DETECTION
541.	ADVANCED MACOS DEVICE MANAGEMENT FRAMEWORK
542.	ADVANCED SEARCH USING IMAGE CLASSIFICATION
543.	ADVANCED TREE IMPLEMENTATION IN HEALTHCARE DOMAIN
544.	AGENT PERFORMANCE ANALYSIS OF INSURANCE COMPANY
545.	AI ASSISTED CUSTOMER SERVICE
546.	AI BASED CALL CENTER
547.	AI FOR OPS
548.	AID TO NUTRITION WEB APPLICATION
549.	AI-DRIVEN CONTINUOUS DEPLOYMENT AND INTEGRATION
550.	AIOPS MAKING INTELLIGENT INFRASTRUCTURE PROVISIONING DECISIONS
551.	AI-POWERED KNOWLEDGE RECOMMENDATION
552.	AIRCRAFT FUEL FLOW PREDICTION & KEY DRIVER ANALYSIS
553.	ALGORITHM DESIGNED TO CARRY OUT INVENTORY MANAGEMENT, WORKFLOW ,CONTENT MANAGEMENT , CONTENT ACCESS BASED ON ROLE/DESIGNATION AND DYNAMIC MECHANISM TO MONITOR ACCESS TO THE WEB BASED APPLICATION OF CRITICAL IT ASSETS HELD IN THE ORGANISATION
554.	ALM TEST AUTOMATION
555.	AMAZON ALEXA INTEGRATION WITH SERVICENOW – A PLATFORM
556.	AMAZON WEB SERVICE DEMO ON CYPRESS PLATFORM
557.	AN ANALYTICS BASED APPROACH TOWARDS SOFTWARE QUALITY ASSURANCE
558.	AN APPROACH TO DETECT DOS ATTACKS IN WIRED NETWORK USING MACHINE LEARNING WITH THE HELP OF FLOW STATISTICS
559.	AN EFFECTIVE REAL-TIME DATA PROCESSING PIPELINE TO LIVE STREAM SENSOR DATA IN MOBILE
560.	AN EMPIRICAL APPROACH ON SEARCH BASED SOFTWARE ENGINEERING
561.	AN END TO END TESTING APPROACH FOR AGILE DEVELOPMENT
562.	AN ENTERPRISE APPLICATION TO MONITOR & ANALYZE RESOURCE UTILIZATION IN CLOUD PLATFORM
563.	AN ENTERPRISE INTEGRATION PLATFORM FOR MACHINE LEARNING MODEL INFERENCE TRANSLATION
564.	AN IDE PLUGIN AND CENTRALIZED RESOURCE REPOSITORY
565.	AN IMPLEMENTATION OF NETWORK FIREWALL USING UNSUPERVISED LEARNING
566.	AN INTELLIGENT APPROACH TO ANALYZE ONLINE REVIEWS FOR INDIAN RESTAURANTS
567.	AN INTELLIGENT SELF-LEARNING SUPPORT-BOT
568.	AN OVERVIEW OF DATA PROTECTION ON CLOUD
569.	ANALYSING THE ADVERSE REACTION FOR THE DRUG COMPOUNDS FROM THE RWE
570.	ANALYSIS OF DIFFERENT TCP CONGESTION CONTROL ALGORITHMS UNDER DIFFERENT NETWORK CONDITIONS

S.No.	DISSERTATION TITLE
571.	ANALYSIS OF GRAPHS IN DATA STRUCTURES AND ALGORITHM
572.	ANALYSIS OF MACHINE LEARNING MODEL EXPLANATION AND INTERPRETATION
573.	ANALYSIS OF RESUMES FOR RECRUITMENT & STAFFING USING NEURAL NETWORKS
574.	ANALYSIS OF ROAD-TRAFFIC ACCIDENTS USING DATA MINING TECHNIQUES
575.	ANALYSIS OF SCALABLE WORD FREQUENCY COUNTING APPLICATION ON HADOOP
576.	ANALYSIS OF VARIOUS MACHINE LEARNING ALGORITHM IN OPINION MINING AND SENTIMENTAL ANALYSIS
577.	ANALYSIS OF VEHICLE DIAGNOSTIC DATA
578.	ANALYSIS ON MULTI-CLASS CLASSIFICATION USING PLANT SEEDLINGS DATASET
579.	ANALYSIS TO FACE REAL TIME CHALLENGES IN AIRLINE DOMAIN
580.	ANALYSIS TO MAINTAIN CUSTOMER SATISFACTORY INDEX IN AIRLINE DOMAIN
581.	ANALYTICAL APPROACH TO DETECT SECURITY THREATS ON VIRTUAL MACHINE
582.	ANALYTICS APPLICATION FOR BUSINESS INSIGHTS (GIMEL & ANOTHER INTERNAL PLATFORM)
583.	ANALYTICS ON AIR BRAKING DATA OF LOCOMOTIVES.
584.	ANALYZE EDUCATION SYSTEM IN INDIA WITH MACHINE LEARNING
585.	ANALYZING CUSTOMER DATA FOR INSURANCE CLIENTS
586.	ANALYZING DEVICE DATA TO DETECT POLICY VIOLATION
587.	ANALYZING LOGS TO DETERMINE ANOMALIES TO HELP DEBUG FASTER
588.	ANALYZING NON-FUNCTIONAL ASPECTS OF TRANSACTIONS, SOFT LOCK, HARD LOCK OVER NORMAL READ/WRITE OPERATIONS IN DIFFERENT DATA SOURCES.
589.	ANALYZING THE ACCEPTANCE OF AUTOMOBILE COLLATERAL USING THE CAPABILITIES OF MACHINE LEARNING.
590.	ANDROID APP FOR GOODS SALE INSIDE ORGANIZATION AND OPTIMIZE E2E AUTOMATION USING INTEGRATION TOOLS
591.	ANNOTATION OF ANATOMICAL PARTS (AAP)
592.	ANOMALY DETECTION AND INTELLIGENT ALERT FRAMEWORK USING AI, MACHINE LEARNING, DATA MINING AND BIGDATA
593.	ANOMALY DETECTION IN LOGISTICS INVOICE VERIFICATION
594.	ANOMALY DETECTION IN SEMICONDUCTOR MANUFACTURING
595.	ANOMALY DETECTION IN SERVICE KEY PERFORMANCE INDICATORS (KPIs)
596.	ANOMALY DETECTION IN SUPPORT KPI
597.	ANOMALY DETECTION USING GRAPH TECHNOLOGY AND MACHINE LEARNING TO PREVENT ACCOUNT TAKE OVER
598.	ANTI-MONEY LAUNDERING - MONITORING SYSTEM & ALERT GENERATION
599.	API RECOMMENDATION AND POPULARITY SCORING THROUGH USAGE MINING
600.	APPLICATION AWARE ROUTING SYSTEM FOR SOFTWARE DEFINED NETWORK
601.	APPLICATION OF DATA ANALYTICS IN BANKING
602.	APPLICATION OF MACHINE LEARNING IN MEDICAL IMAGING TECHNIQUES
603.	APPLICATION OF ML IN SENTIMENT ANALYSIS
604.	APPLICATION OF MODEL DRIVEN ARCHITECTURE FOR INSTRUMENTATION DEVICE VERIFICATION SOFTWARE
605.	APPLICATION OF TRANSFER LEARNING IN LEADING FINANCIAL INSTITUTES
606.	APPLICATION PRE-LOAD ENABLER IN INTELLISPACE PORTAL
607.	APPLICATION TRAFFIC MANAGEMENT IN DISTRIBUTED CLOUD SYSTEMS
608.	APPLICATIONS OF INTERNET OF THINGS (IOT) IN INDIAN ARMED FORCES AND ITS ROLE IN FUTURE OF NETWORK CENTRIC WARFARE
609.	APPLICATIONS OF NATURE INSPIRED OPTIMIZATION ALGORITHMS IN OPTIMIZATION OF ENGINEERING SYSTEMS
610.	APPLY HIL METHOD TO CREATE PLANT MODEL FOR BANK NOTE PROCESSING MACHINE
611.	APPLYING AUTOMATION TESTING WITH SELENIUM WEBDRIVER
612.	APPLYING MACHINE LEARNING APPROACH FOR EFFICIENT RECRUITMENT
613.	APPLYING MACHINE LEARNING TECHNIQUES FOR INCIDENT MANAGEMENT
614.	APPSUPP BOT
615.	APTA: USER-FRIENDLY ANDROID APP TO CREATE NOTES, SET REMAINDERS AND SEND MESSAGES
616.	ARCHITECTING AND DEVELOPING ENTERPRISE DATA ANALYTICS PLATFORM FOR DIGITAL MARKETING
617.	ARCHITECTURE AND DEVELOPMENT APPROACH FOR SMART ENERGY SOLUTIONS
618.	ARTIFICIAL INTELLIGENCE (AI) IN AUTOMOTIVE
619.	ARTIFICIAL INTELLIGENCE AND THEIR IMPACT ON THE WORKPLACE
620.	ARTIFICIAL INTELLIGENCE POWERED VIRTUAL AGENT FOR CLOUD INFRASTRUCTURE OPERATIONS
621.	ARTIFICIAL INTELLIGENCE:AN OPPORTUNITY FOR HUMANITY

S.No.	DISSERTATION TITLE
622.	ASIAN ENTERPRISES
623.	ASPECT ANALYSIS AND SENTIMENT ANALYSIS
624.	ASPECT BASED SENTIMENT ANALYSIS
625.	ASSESSMENT AND CONTENTBUILDER
626.	ASSIGNING SIMILAR TASKS TO THE SAME AGENT IN CLOUD WHILE USING EVENTUALLY CONSISTENT DATABASES
627.	ATTRIBUTE-BASED CRYPTOGRAPHIC AND DECENTRALIZED DISTRIBUTED DATA
628.	AUDIENCE CATEGORY IDENTIFICATION AND RECOMMENDATION USING MACHINE LEARNING
629.	AUDITING BIG DATA STORAGE IN CLOUD COMPUTING USING DIVIDE AND CONQUER TABLES
630.	AUGMENTED REALITY BASED AUTHENTICATION FOR ADDITIONAL SECURITY
631.	AUGMENTED REALITY FOR IOT
632.	AUGMENTING STORAGE CLASS MEMORY WITH IN-MEMORY DATA STORES
633.	AUTO BUG TAGGING AND CLASSIFICATION
634.	AUTO LEARNING AND ANALYTICS ON EXPECTED EVENTS
635.	AUTO PROCTOR
636.	AUTO SUMMARIZATION OF JOB DESCRIPTION
637.	AUTO TEST GENERATOR
638.	AUTOCAR INFOTAINMENT SYSTEM
639.	AUTOMATED ALGO TRADING SYSTEM
640.	AUTOMATED ANALYSIS AND MINING OF USER LOGS FOR ISOLATION OF BUGS
641.	AUTOMATED ANALYTICAL INSIGHTS ON TRADING STOCKS
642.	AUTOMATED DATABASE HEALTH CHECK ANYLYSIS AND PROACTIVELY DETECT INCIDENTS AND RESOLVE THEM WITH AUTOMATION
643.	AUTOMATED SCRIP ISSUANCE AND MONITORING SYSTEM.
644.	AUTOMATED SERVICE DISCOVERY
645.	AUTOMATED STOCK AND INDEX OPTION ANALYSIS SYSTEM
646.	AUTOMATED SUBJECTIVE EXAMS GRADING
647.	AUTOMATED SYSTEM TEST OF PRODUCT MAINTENANCE APPLICATION USING SELENIUM (JAVA) : SOFTWARE TESTING AND QUALITY ASSURANCE
648.	AUTOMATED TEST FRAMEWORK FOR IOT (INTERNET OF THINGS) BASED INDUSTRIAL DEVICES
649.	AUTOMATED TOKEN GENERATION FOR WEB SERVICE APPLICATIONS
650.	AUTOMATED VIRTUAL MACHINE (VM) COLD MIGRATION AND BACKUP/SYNC UTILITY ACROSS VARIOUS CLOUDS
651.	AUTOMATED WORK HOURS CAPTURING SYSTEM
652.	AUTOMATIC DETECTION AND GENERATION OF REGULAR EXPRESSION PATTERNS FROM STREAMING LOG DATA
653.	AUTOMATIC FILE SERVER CONTINUOUS TUNING WITH DEEP LEARNING
654.	AUTOMATIC MICROSERVICE CONVERTER
655.	AUTOMATIC MODULATION RECOGNITION
656.	AUTOMATIC TEST CASE GENERATOR
657.	AUTOMATIC TEXT SUMMARIZATION FOR ESAMIKSHA APPLICATION
658.	AUTOMATING CLOUD COST OPTIMIZATION
659.	AUTOMATING DATABASE DEPLOYMENTS USING DEVOPS
660.	AUTOMATING EDI TRANSACTION PROCESSING APPLICATION
661.	AUTOMATING KORDOBA GLOBAL SECURITIES (KGS) APPLICATION USING SELENIUM
662.	AUTOMATING ORDERING AND BILLING IN A RESTAURANT/CAFE/ORGANIZATION
663.	AUTOMATING THE PROJECT MANAGEMENT OPERATIONS
664.	AUTOMATION OF APPS IN EIKON
665.	AUTOMATION OF OPEN MANAGER INTEGRATION OF VMWARE VCENTRE
666.	AUTOMATION OF PEGASUS EDITORIAL SYSTEMS
667.	AUTOMATION OF SYSTEMATIC INVESTMENT PLAN AND BROKERAGE PROCESS DATABASE MANAGEMENT SYSTEM
668.	AUTOMATION ROBOT FRAMEWORK ON CLOUD VIRTUAL ROUTER
669.	AUTOMATION TEST ANALYSIS OF WEB APPLICATION BY USING QA TOOLS
670.	AUTOMATION TEST FRAMEWORK FOR COMPUTATIONAL FLUID DYNAMICS SOFTWARE
671.	AUTOMATION TEST TOOL FOR MOBILE APP AND WEB
672.	AUTOMATION TESTING USING SELENIUM
673.	AUTOMATION TO IDENTIFY LOWEST AIR FARE & CONCERNED WEB PORTAL DETAILS
674.	AUTOMOBILE WEB FEATURE (EXTENDED FEATURE)
675.	AUTONOMOUS STORES USING AI

S.No.	DISSERTATION TITLE
676.	BABY MONITORING DEVICE
677.	BANKING DATA WAREHOUSE FOR CUSTOMER DATA PREDICTION AND CROSS SELL/UP SELL USING DATA MINING TECHNOLOGIES
678.	BASELINE CALCULATIONS USING HOLT WINTERS TRIPLE EXPONENTIAL SMOOTHING
679.	BASIC TOOLS OF QUALITY
680.	BCV ALERT FILTRATION AND ANALYSIS
681.	BEST CUSTOMER SELECTION FOR OUTBOUND DIALING
682.	BETTER AND CHEAPER HEALTHCARE THROUGH PREDICTIVE ANALYTICS
683.	BIG DATA ANALYTICS
684.	BIG DATA ANALYTICS BASED PROJECT MANAGEMENT DASHBOARDS
685.	BIG DATA ANALYTICS: PREDICTING ACADEMIC COURSE PREFERENCE USING HADOOP INSPIRED MAPREDUCE
686.	BILLABILITY TRACKING SYSTEM
687.	BILLING TOOLS FOR MANAGERS
688.	BLOCKCHAIN BASED ASSET TRACKING SYSTEM
689.	BLOCKCHAIN FOR ELECTRONIC HEALTH RECORDS
690.	BLUETOOTH MESH NETWORK ANALYSER
691.	BOOK RENTAL SERVICE/APP
692.	BOOTSTRAPPING AND PARAMETER ESTIMATION FEEDBACK FOR MACHINE LEARNING BASED CACHING SCHEME
693.	BRAIN TUMOR DIAGNOSTICS USING ML
694.	BRAINWAVE ANALYSIS PREDICTION
695.	BREAKFAST RECOMMENDER - FOR A HEALTHY START
696.	BREAKING MONOLITH INTO MICRO-SERVICES
697.	BROWSER PROTECTION RULES ENGINE ON AWS LAMBDA
698.	BUG TRACKING SYSTEM
699.	BUILDING CI/CD PIPELINING SYSTEMS
700.	BUILDING DOMAIN-DRIVEN FUNCTIONAL SERVICES AND ANALYTICS SERVICES [DDFS-AS]
701.	BUILDING RESILIENT KUBERNETES (K8S) BASED SYSTEM USING MACHINE LEARNING
702.	BUSINESSES INTELLIGENCE FOR PERSONALIZED SHOPPING EXPERIENCE.
703.	CALLER INTENT CAPTURE AND CONVERSATIONAL INTERFACE
704.	CAMERA PIPELINE FOR QUADRA SENSORS ON MOBILE PLATFORM
705.	CAMPAIGN ANALYSIS AND IMPACT OF CAMPAIGN IN RETAIL MARKETING
706.	CAMPUS SELECTION SYSTEM
707.	CANCER DETECTION USING ARTIFICIAL INTELLIGENCE
708.	CAR MULTI-MEDIA COMMUNICATION ARCHITECTURE FOR APPLICATIONS ON THE CONNECTED DEVICES
709.	CARDIOVASCULAR DISEASE PREDICTION - MACHINE LEARNING APPROACH
710.	CARMEN RATING - TEST ENVIRONMENTAL AUTOMATION
711.	CASE BOT
712.	CASH MANAGEMENT IN MOBILE POINT OF SALE
713.	CATEGORIZATION OF CUSTOMER COMPLAINTS USING DATA MINING
714.	CERNER HEALTHCARE SYSTEM INTEGRATION WITH SAILPOINT IDENTITY AND ACCESS MANAGEMENT
715.	CHAT SERVICE
716.	CHATBOT AUTOMATION
717.	CHATBOT FOR ORGANIZATION POLICIES AND HR QUERIES
718.	CHATBOT FOR TAXILA FAQ
719.	CHATBOT USING MACHINE LEARNING
720.	CHATBOTS USING SEQUENCE TO SEQUENCE MODEL
721.	CHERRY : THE VOICE INTERACTIVE WEB PLUGIN
722.	CHILE EDL DEVELOPMENT FOR THE BANK OF NOVA SCOTIA
723.	CHOPS BLOCK CHAIN NETWORK ORCHESTRATION
724.	CIRME LIBRARY.
725.	CISCO OLR
726.	CLAIM REIMBURSEMENT AMOUNT ESTIMATOR
727.	CLAIM VALIDATION AND FRAUDULENT DETECTION USING BLOCKCHAIN
728.	CLASSIFICATION OF MERCHANTS SEGMENTATION FOR EFFECTIVE PRICING AND AVOIDING ABUSIVE USAGE OF PAYOUTS
729.	CLASSIFICATION OF QUESTION USING ATTENTION BASED CONVOLUTION AND GRU NEURAL NETWORK

S.No.	DISSERTATION TITLE
730.	CLASSIFICATION OF RESUMES
731.	CLASSIFYING GROUP/TEAM ASSIGNMENT QUEUE FOR NEW SUPPORT TICKETS RAISED, USING ML CLASSIFICATION MODEL
732.	CLOUD AND IOT BASED COLD STORAGE ASSET MANAGEMENT
733.	CLOUD BASED DOCUMENT TRANSLATION SERVICE
734.	CLOUD BASED MULTI TENANT FEEDBACK TOOL
735.	CLOUD BASED SURVEY TOOL
736.	CLOUD BASED VOUCHER DISTRIBUTION AND REPORTING SERVICE
737.	CLOUD BROKER FOR VIRTUAL DESKTOPS INFRASTRUCTURE
738.	CLOUD COMPUTING TECHNIQUE TO IMPLEMENT DATA WAREHOUSING AND REPORTING
739.	CLOUD COMPUTING WITH DATA ANALYTICS IN HEALTHCARE
740.	CLOUD FRAMEWORK FOR GOLANG
741.	CLOUD HCM TO ON PREMISE APPLICATION INTEGRATION HUB
742.	CLOUD INFRASTRUCTURE BASED RECRUITMENT PORTAL FOR SAMSUNG HEAVY INDUSTRIES INDIA.
743.	CLOUD MANAGEMENT PORTAL
744.	CLOUD MIGRATION FRAMEWORK FOR LEGACY APPLICATIONS
745.	CLOUD MIGRATION OF FACTORY SHOPFLOOR APPLICATION USING ENTERPRISE PRIVATE CLOUD
746.	CLOUD MON
747.	CLOUD NATIVE MODEL DEPLOYMENT AND GOVERNANCE
748.	CLOUD POWERED COMPONENT EXPERIMENTATION BASED ON USAGE STATISTICS AND MACHINE LEARNING (FEATURE FLIGHTING)
749.	CLOUD POWERED WEBRTC GROUP VIDEO CONFERENCING APPLICATION (AUDIO AND VIDEO)
750.	CLOUD READY GENERIC VOICE ASSISTANT COMPONENT
751.	CLOUD RESOURCES AND COST MANAGEMENT
752.	CLOUD SECURITY FOR THE ENTERPRISE
753.	CLOUD SERVICE MONITORING
754.	CLOUD TRANSFORMATION ROADMAP:MOVING FROM LEGACY TO CLOUD
755.	CLOUD-NATIVE APPROACH WITH MICROSERVICES ON GOOGLE KUBERNETES ENGINE
756.	COGNITIVE EMPATHY-ML MODEL TO DETECT DEPRESSION AMONG ADOLESCENTS
757.	COLD CALLING ANALYSIS OF INSURANCE DATA
758.	COMBINING THE POWER OF SCRUM, DESIGN THINKING & OPTIMIZED TESTING TO SUCCEED IN PRODUCT DEVELOPMENT
759.	COMMENT ANALYZER - ASSISTING YOUTUBE CONTENT CREATORS
760.	COMMON ABSTRACT DATABASE SERVICE
761.	COMMUNICATION AND PAYMENT ENABLED APP ON CLOUD
762.	COMMUNITY DATA ANALYSIS
763.	COMPARATIVE ANALYSES OF MACHINE LEARNING ALGORITHMS ON FACE RECOGNITION SYSTEMS
764.	COMPARATIVE STUDY OF ACTOR-BASED MESSAGE PASSING CONCURRENCY MODEL AND THREAD BASED SHARED CONCURRENCY MODEL
765.	COMPARE AUDIO AND VIDEO MEDIA OUTPUT QUALITY WITHOUT HUMAN INVOLVEMENT
766.	COMPARING PERFORMANCE OF VARIOUS TYPES OF CLASSIFICATION MODELS ON MEDICAL DIAGNOSTIC DATA
767.	COMPLETE TRAVEL AGENCY SOLUTION.
768.	COMPLIANCE SUPPORT CHAT BOT FOR WEB CONSENT GATEWAY
769.	COMPONENT LEVEL EFFORT BASELINING & PRODUCTIVITY MEASUREMENT
770.	CONFIGURABLE CHATBOT AS A SERVICE
771.	CONGNIZANT TECHNOLOGY SOLUTIONS PVT LTD
772.	CONNECTING RASPBERRY PI WITH SAP - IOT SERVICES
773.	CONSUMER'S SENTIMENT ON BRANDS/PRODUCTS VIA TWEETS
774.	CONSUMPTION OF A UI CONTROL LIBRARY IN A CONSUMER APP ...
775.	CONTENT BASED IMAGE RETRIEVAL USING CONVOLUTION NEURAL NETWORK
776.	CONTENT INGESTION AND SEARCH API.
777.	CONTENT MANAGEMENT SYSTEM
778.	CONTEXT BASED VIDEO ANALYTICS
779.	CONTEXUALIZED SCENARIO BASED MACHINE LEARNING
780.	CONTINUAL LEARNING WITHOUT FORGETTING
781.	CONTINUOUS INTEGRATION AND DELIVERY
782.	CONTINUOUS INTEGRATION AND DEPLOYMENT IN LARGE R&D ORGANIZATIONS
783.	CONTINUOUS INTEGRATION IMPLEMENTATION FOR BROWSER WEB APPLICATION

S.No.	DISSERTATION TITLE
784.	CONTINUOUS TESTING IN DEVOPS
785.	CONVERSATIONAL AI IN BIG DATA INTEGRATION
786.	CORPORATE PROJECT FORECASTING BASED ON "STAFFING" AND "BILLING" FOR SOFTWARE CONSULTING BUSINESS UNITS
787.	CORPORATE WEBSITE DEVELOPMENT
788.	CREATING AN OPTIMAL CONCEPTUAL DATA MODEL FOR SECURITIES SCENARIO IN BANK & EXCHANGE AND IMPLEMENTING THE SAME IN AN OPEN SQL USING SAP HANA XSA INTERFACE
789.	CREATING PAYMENT APPLICATIONS WITH INTEGRATION AND SECURITY READY
790.	CREDENTIAL CODE SCANNER SERVICE
791.	CREDIT RISK MODELLING USING DATA MINING
792.	CREDIT RISK PREDICTION
793.	CREW INTERFACE RECREATION AND REPLAY TOOL
794.	CROP YIELDING FORECAST USING DATA MINING
795.	CROSS PLATFORM DATA INTEGRATION PROJECT.
796.	CROWN-CARE CHATBOT FOR TRACKING CUSTOMER ORDER
797.	CUBE AND DATAWAREHOUSE SOLUTION FOR COMPLEX CHANNEL DATA
798.	CUSTOMER ATTRITION IN FINANCIAL SECTOR
799.	CUSTOMER EMOTION DETECTION IN REAL-TIME USING PIPELINE IN SAP DATA HUB
800.	CUSTOMER ONBOARDING
801.	CUSTOMER RELATIONSHIP MANAGEMENT APPLICATION
802.	CUSTOMER REVIEW ANALYSIS DASHBOARD FOR AIRLINES
803.	CUSTOMER SERVICE APPLICATION FOR CREDIT CARDS
804.	CUSTOMIZABLE NETWORK TRAFFIC FEATURE EXTRACTOR
805.	CUSTOMIZATION OF PLANNING POKER APPLICATION
806.	CUSTOMIZING THE X CENTRE'S FOR INSURANCE COMPANY
807.	CYBER APPROACH TO NETWORK SECURITY OF IP SURVEILLANCE CAMERAS
808.	DAILY TECH SUPPORT DATAWAREHOUSE PROJECT
809.	DARK DATA AND ITS BENEFIT IN DSP
810.	DASHBOARD TO MONITOR BATCH CYCLE PROCESSING AND ANALYTICS
811.	DATA ANALYSIS AND ANONYMIZATION AS A SERVICE (DAAS)
812.	DATA ANALYSIS APPROACH FOR COCKPIT INFORMATION QUERY AND RETRIEVAL SYSTEM
813.	DATA ANALYSIS DASHBOARD USING QLIKVIEW
814.	DATA ANALYSIS OF STOCK PRICE
815.	DATA ANALYTICS ASSISTED PROBLEM ANALYZER AND EFFORT DENSITY MAPPER SYSTEM FOR SOFTWARE APPLICATION SUPPORT AND MAINTENANCE PROJECTS
816.	DATA ANALYTICS FOR EDGE DEVICES
817.	DATA ANALYTICS FOR SMART HOMES
818.	DATA COLLECTION AND REPORTING SYSTEM FOR HOSPITAL INFECTION CONTROL AND ANALYSIS ACTIVITIES
819.	DATA DRIVEN APPLICATIONS ARCHITECTURE USING CLOUD
820.	DATA DRIVEN INTELLIGENT ARCHITECTURE ANALYSIS AND DESIGN
821.	DATA DRIVEN RULES FOR HEALTHCARE CLAIMS PROCESSING
822.	DATA FABRIC
823.	DATA FACSIMILE
824.	DATA FINGERPRINTING USING MACHINE LEARNING
825.	DATA FORM SERVICES
826.	DATA INTEGRATION VERIFICATION IN DATABASE FOR FINANCIAL SYSTEMS
827.	DATA LEAKAGE DETECTION IN CLOUD COMPUTING
828.	DATA MIGRATION FROM WINDCHILL PRODUCT ANALYTICS TO COMPLIANCE MAP & SQL DATABASE ARCHIVING IN TO CLOUD
829.	DATA MIGRATION TOOL
830.	DATA MINING TECHNIQUES TO ANALYZE CUSTOMER CHURN
831.	DATA PIPELINE FOR TEXT DATA MINING
832.	DATA PLATFORM AS A SERVICE
833.	DATA PROTECTION IN CLOUD ENVIRONMENT
834.	DATA SANITY AND RECONCILIATION SCHEDULING VIA SCALABLE AUTOMATED SOLUTION
835.	DATA WAREHOUSE MIGRATION TO BIG DATA FOR ASSET MANAGEMENT
836.	DATA WAREHOUSING AND BUSINESS INTELLIGENCE SOLUTIONS- TABLEAU DASHBOARDS
837.	DATA WAREHOUSING FOR WILHELMSSEN SHIPS SERVICE

S.No.	DISSERTATION TITLE
838.	DATABASELESS MICROSERVICES
839.	DATAMINING TO DETECT, MONITOR AND PREDICT UNDESIROUS AND SUSPICIOUS DISCUSSION AND ACTIVITIES RELATED TO TERRORISM
840.	DATASET GENERATION, CLEANSING FOR STATISTICAL ANALYSIS
841.	DATAWAREHOUSE OPERATIONAL REPORTING THROUGH EMBEDDED ANALYTICS
842.	DAYOFF - AN APP FOR LEAVE FOR AIR WARRIORS
843.	DEADLINE BASED RESOURCE ALLOCATION AND SCHEDULING ALGORITHM IN CLOUD SYSTEMS
844.	DEEP LEARNING BASED MODELING FOR SOLVING CLASSIFICATION PROBLEMS
845.	DEFECT CLASSIFICATION USING DECISION TREE
846.	DEMAND FORECASTING OF SKILL SET IN MARKET
847.	DEPLOYING A PYTHON APPLICATION USING JENKINS AND KUBERNETES
848.	DEPLOYING IBM MQ ON CLOUD USING AWS
849.	DEPLOYMENT OF GENERAL PARALLEL FILE SYSTEM (GPFS) ON A MULTI-NODE CLUSTER USING THE EASYINSTALL TOOL
850.	DEPLOYMENT OF VMWARE VSPHERE HYPERVISOR (ESXI) ON HPE IMAGE STREAMER
851.	DESIGN & IMPLEMENT MESH NETWORKING (802.11S) FOR MARVELL WLAN SOC LINUX PROJECT
852.	DESIGN & IMPLEMENTATION OF TEMPERATURE AND HUMIDITY MONITORING SYSTEM FOR SERVER ROOMS
853.	DESIGN AND DEVELOP GERBER FILE IMPORTER
854.	DESIGN AND DEVELOPMENT OF SIMULATION BASED OPS TACTICAL TRAINER
855.	DESIGN AND DEVELOPMENT OF SOFTWARE FRAMEWORK FOR FUNCTIONAL TESTING OF FUEL DISPENSING UNIT FIRMWARE
856.	DESIGN AND DEVELOPMENT OF SOLAR PANEL CLEANING ROBOT
857.	DESIGN AND IMPLEMENTATION OF A CHATBOT IN THE CONTEXT OF BUSINESS INTELLIGENCE
858.	DESIGN AND IMPLEMENTATION OF BLOCK CHAIN BASED BOM EXCHANGE SYSTEM FOR MANUFACTURING SUPPLY CHAIN
859.	DESIGN DESKTOP APPLICATION FOR USER WORKFLOW BASED IMAGE ANALYSIS
860.	DESIGN OF CLICKSTREAM DATA MINING PLATFORM
861.	DESIGN OF SMART CITY WITH LEGALIZED APPROVAL
862.	DESIGN OF WEB APPLICATION FOR CLIENT ONBOARDING AND PAYMENT SEARCH
863.	DESIGNING A SCALABLE WEB APP ARCHITECTURE FOR AN ENTERPRISE ACCESS PROVISIONING SYSTEM WITH A MACHINE LEARNING DRIVEN RECOMMENDATION ENGINE, LEVERAGING THE AWS ECOSYSTEM
864.	DESIGNING DATA MART AS MANAGEMENT INFORMATION SYSTEM TO SUPPORT CRIMINAL INVESTIGATION
865.	DESIGNING MHEALTH (MOBILE HEALTH) SOLUTION TO IMPROVE EFFECTIVENESS OF HEALTH WORKERS FOR A LARGE SCALE PUBLIC HEALTH PROGRAM
866.	DETAILED COMPARISON OF DIFFERENT DATA PROCESSING TECHNIQUES AND MACHINE LEARNING TECHNIQUES FOR DISEASE DETECTION
867.	DETECT IF THE NEW BUG REPORTED IS DUPLICATE OF A KNOWN BUG USING MACHINE LEARNING ALGORITHM
868.	DETECT TOXIC CONTENT TO IMPROVE ONLINE CONVERSATION AT QUORA.COM
869.	DETECTING VIDEO THROUGH NETWORK TRAFFIC ANALYSIS
870.	DETECTION AND CLASSIFICATION OF DEPRESSION USING MACHINE LEARNING
871.	DETECTION AND SEGREGATION FOR DIFFERENT TYPES OF HEART FIBRILLATION.
872.	DETERMINATION OF MEDIUM EARTH ORBIT SATELLITE AVAILABILITY FOR MULTIPLE GROUND STATIONS ACROSS MULTIPLE GEOGRAPHIES
873.	DETERMINING ALL SERIES OF FREQUENTLY OCCURING DOMAINS FROM DNS ACTIVITY
874.	DEV OPS FOR CLOUD
875.	DEVELOP AN INTELLIGENT TROUBLESHOOTING TOOL FOR CEPH
876.	DEVELOPING FASTER NEURAL NETWORKS WITH HARDWARE AWARE ARCHITECTURE LEARNING
877.	DEVELOPING PREDICTION MODEL OF PERSONAL LOANS IN BANKS USING SUPERVISED LEARNING / ARTIFICIAL INTELLIGENCE
878.	DEVELOPING UAT FRAMEWORK FOR RPA
879.	DEVELOPMENT OF 802.11AC PROTOCOL IN A NETWORK SIMULATION SOFTWARE
880.	DEVELOPMENT OF ANDROID BASED HMI TO EXECUTE PRE-DEFINED TEST PROTOCOL ON A SERVO-CONTROLLED MATERIAL TEST SYSTEM
881.	DEVELOPMENT OF CUSTOMIZED SOFTWARE PACKAGE FOR GENERATION OF CNC CODE FOR MULTI HOLE DRILLING PROCESS
882.	DEVELOPMENT OF LOGIC AND CONTROL SIMULATION TOOL
883.	DEVELOPMENT OF MULTI-ENTERPRISE HETEROGENEOUS PLATFORM MULTIAPPLICATION AUTHENTICATION

S.No.	DISSERTATION TITLE
884.	DEVELOPMENT OF WEB APPLICATION FOR STUDENT PAYMENT SYSTEM
885.	DEVELOPMENT OF WEB-BASED APPLICATION USING ASP.NET AND SQL SERVER
886.	DEVOPS FOR SAFETY MANAGER
887.	DEV-OPS IMPLEMENTATION USING AZURE CLOUD
888.	DEVOPS IN CLOUD COMPUTING
889.	DEVOPS TRANSFORMATION TO ENABLE ROTATE TO NEW
890.	DIABETES READMISSION PREDICTION
891.	DIAGNOSING CANCER USING DATA MINING
892.	DIGITAL IDENTITY: FUTURE OF E-COMMERCE AND PAYMENTS
893.	DIGITAL INSURANCE PLATFORM
894.	DIGITAL MARKETING AND ANALYTICS: TWO LADDERS TO SUCCESS
895.	DIGITAL PAYMENT PLATFORM AGGREGATE
896.	DIGITAL SIGNATURE APPLICATION
897.	DIGITAL TRANSLATION
898.	DIGITIZATION OF DOCUMENTS
899.	DINE AND DRINK - RECOMMENDER SYSTEM FOR BEVERAGES
900.	DISASTER RECOVERY MANAGEMENT IN VERITAS ACCESS USING VERITAS VOLUME REPLICATOR (VVR)
901.	DISEASE MODELLING AND SURVEILLANCE THROUGH TWITTER DATA FOR UNDERSTANDING REAL-TIME LOCATION SPECIFIC TRENDS, CLIMATE VARIABILITY AND CORRELATION
902.	DISEASE PREDICTION
903.	DISTINCT FEATURES OF SERVICENOW: ARTIFICIAL INTELLIGENCE
904.	DISTRIBUTED IMAGE CATEGORIZATION
905.	DMAPS (DOWNTIME MANAGEMENT AND AUTOMATIC PRIORITIZATION OF SERVICE MONITORS) IN SAP ENTERPRISE CLOUD PLATFORM
906.	DOCTORS PATIENT PORTAL - EYECARE
907.	DOCUMENT TRACKING SYSTEM DTS APPLICATION
908.	DRESS CODE APPAREL STORE
909.	DRIVE IO PERFORMANCE TOOL
910.	DRIVING VISUAL ANALYSIS WITH AUTOMOBILE DATA
911.	DROPS - DIVISION AND REPLICATION OF DATA IN THE CLOUD FOR OPTIMAL PERFORMANCE AND SECURITY
912.	DROPS: DIVISION AND REPLICATION OF DATA IN OPTIMAL PERFORMANCE AND SECURITY
913.	DRUG EVALUATION AND OPTIMIZATION USING CLINICAL DATA ANALYSIS
914.	DRX MODELING FOR UE POWER SAVING IN 5G WIRELESS NETWORK
915.	DTH WEBSITE HOSTING ON AWS CLOUD
916.	DYNAMIC CODE FLOW ANALYSIS IN LINUX
917.	DYNAMIC CONFIGURATION OF IP FILTER USING CLOUD
918.	DYNAMIC CUBE GENERATION WITH ML ALGORITHMS
919.	DYNAMIC IMAGE RESCALING BASED ON PIXEL GRADIENT ENERGIES
920.	E COMMERCE RECOMMENDATION OVER BIG DATA RATING
921.	EA DATABASE REFERENCE ARCHITECTURE IMPLEMENTATION
922.	EASE OF ACCESS - ACCESSIBILITY AND USABILITY
923.	EAUTOPARK - AUTOMATED PARKING SOLUTION
924.	ECG SIGNAL PROCESSING & ANALYSIS - USING MACHINE LEARNING TECHNIQUES
925.	ECIL TOUR BILL MANAGEMENT SYSTEM
926.	EDA TOOL INTERFACE AND BEHAVIORAL STUDY
927.	EDUCATION ANALYTICS BASED ON MACHINE LEARNING
928.	EFFECTIVE AGGREGATION OF APPLICATION ERROR LOGS
929.	EFFECTIVE BID THROTTLE AND QPS MANAGEMENT
930.	EFFECTIVE FEATURE SELECTION USING FUZZY ROUGH AND SOFT SET TECHNIQUES FOR SUPERVISED LEARNING
931.	EFFECTIVE REDUCTION OF SHOP-FLOOR WASTAGE USING MOBILE APPLICATIONS
932.	EFFECTIVE WAY OF MOBILE DEVICE MANAGEMENT FOR SMALL ENTERPRISES
933.	EFFICIENT AUTHENTICATION FOR PERVASIVE COMPUTING USING E-MAC
934.	EFFICIENT COMPUTATION OF DELTA BETWEEN TWO FIRMWARES AND TRANSMITTING IT OVER AIR
935.	EFFICIENT IN-MEMORY KEY VALUE STORE WITH ERASURE CODING
936.	EFFICIENT INVENTORY MANAGEMENT IN SHOPPING MART
937.	EINSTEIN (TECH-HR-CHATBOT)
938.	EKYC DISTRIBUTED LEDGER TECHNOLOGY (DLT) BASED CUSTOMER VERIFICATION SYSTEM

S.No.	DISSERTATION TITLE
939.	ELASTIC STREAMING DATA PIPELINE ON CLOUD
940.	E-LEARNING PLATFORM USING MS-AZURE CLOUD
941.	ELECTRICAL ENERGY MONITORING AND ANALYZING USING IOT
942.	ELEGANS: HIGH PERFORMANCE, HIGH RELIABILITY CHECKLIST MANAGEMENT SYSTEM
943.	ELIMINATION OF REDUNDANT DATA IN CLOUD USING SECURED ACCESS CONTROL
944.	EMBEDDED INTELLIGENCE IN SENTRY GUN
945.	EMBEDDED SXM HMI APPLICATION
946.	EMERGENCY CALL WITH ZERO BATTERY
947.	EMOTION DETECTION OF CALL CENTER SPEECH DATA
948.	EMPLOYEE APP
949.	EMPLOYEE ATTRITION PREDICTION MODEL
950.	EMPLOYEE DATA MANAGEMENT SYSTEM
951.	EMPLOYEE TURNOVER PREDICTION USING MACHINE LEARNING
952.	EMPLOYEE VIRTUAL ASSISTANT
953.	ENABLING EFFICIENT AND GEOMETRIC RANGE QUERY WITH ACCESS CONTROL OVER ENCRYPTED SPATIAL DATA
954.	END TO END SECURE COMMUNICATION LINK IN TACTICAL BATTLEFIELD AREA (TBA) USING SIP SERVERS AND IPSEC
955.	ENHANCE APPLICATION PERFORMANCE THROUGH DB MAINTENANCE STRATEGY
956.	ENHANCED DATA SECURITY THROUGH TOKENIZED PAYMENTS
957.	ENHANCED MEDICAL DATA QUERY PROCESSING SYSTEM
958.	ENHANCEMENT OF THE CODE REVIEW AGENT EXPERIENCE FROM HISTORICAL COMMENTS
959.	ENHANCING BIDIRECTIONAL FORWARDING DETECTION ACROSS MULTIPLE VIRTUAL ROUTING AND FORWARDING INSTANCES & DEVELOPING AUTHENTICATION FOR BFD'S ECHO MODE
960.	ENHANCING THE AUTOMATION TEST SCRIPT WRITING USING MACHINE LEARNING FOR AUTOMATED SOFTWARE TESTING
961.	ENHANCING USER EXPERIENCE IN SAP COMMERCE.
962.	ENTERPRISE ARCHITECTURE DEPENDENCIES TRACKING WITH LIVE MONITORING, ANOMALY DETECTION AND TEST SUITES INFORMATION
963.	ENTERPRISE CONTENT MANAGEMENT CONTENT SECURITY AND EMAIL FUNCTIONALITY
964.	ENTERPRISE DATA HUB
965.	ENTERPRISE DATA PROCESSING VALIDATION AND VERIFICATION THROUGH AUTOMATION
966.	ENTERPRISE'S QUOTE TOOL ON SALES CLOUD
967.	E-POS LOYALTY SYSTEM
968.	ERP PORTAL (ADMIN AND HR MODULES) (FULL STACK WEB DEVELOPMENT)
969.	ESTIMATION AND FUTURE PREDICTION OF LAND CONVERSION FROM AGRICULTURE TO URBANIZATION
970.	ESTIMATION OF MOVIE STAR'S RATING, ANALYSIS OF STORY THEMES AND COLLECTIVE INFLUENCE ON BOX OFFICE COLLECTION
971.	ETL FRAMEWORK IMPLEMENTATION USING PYTHON
972.	EVALUATING AND FORMULATING A ROAD MAP FOR APPLICATION OF ARTIFICIAL INTELLIGENCE IN INDIAN AIR FORCE
973.	EVALUATING NEWS USING MACHINE LANGUAGE
974.	EVALUATION AND DEVELOPMENT OF INDOOR TEMPERATURE PREDICTION MODEL FOR RESIDENTIAL HVAC SYSTEMS
975.	EVALUATION OF MACHINE-LEARNING ALGORITHMS FOR PREDICTING OPIOID OVERDOSE RISK AMONG MEDICARE BENEFICIARIES WITH OPIOID PRESCRIPTIONS.
976.	EVENT PUBLISHER
977.	EVENT TREND ANALYTICS
978.	E-WALLET MOBILE APPLICATION FOR RETAILERS (ROYAL CLUB MOBILE APP)
979.	EXPENSE FORECASTING SYSTEM
980.	EXPLORATORY ANALYSIS OF SNORING PATTERN AND PREDICTION RESPIRATORY DISEASE
981.	EXPLORING MACHINE LEARNING BASED TECHNIQUES FOR PREDICTION OF STOCK MARKET PRICES
982.	EXPRESS DELIVERY DATABASE SERVICES
983.	EXTENDING E-COMMERCE MEHINDRA PLATFORM
984.	EXTENSIBLE SOFTWARE ARCHITECTURE FRAMEWORK FOR AUTOMOTIVE HMI
985.	FABRIC EXTENSION WITH UNIFIED CONTROL
986.	FACE RECOGNITION METHOD AND APPLICATIONS
987.	FACE RECOGNITION ON FEED OF IP CAMERA
988.	FACE RECOGNITION WITH DEEP NEURAL NETWORKS IN A HPC FACILITY

S.No.	DISSERTATION TITLE
989.	FACIAL FEATURE EXTRACTION USING AI
990.	FACIAL RECOGNITION DOOR ACCESS USING RASPBERRY PI
991.	FACIAL RECOGNITION MODEL IN TENSORFLOW WITH SOCIAL CONNECT
992.	FAKE NEWS DETECTOR
993.	FAKE NEWS: STUDY & APPLICATION OF TEXT ANALYTICS
994.	FAST BSS TRANSITION USING BROADCOM RADIO
995.	FAT AND SNF LOSS DATA ANALYSIS REPORT
996.	FAULT MONITORING SYSTEM FOR AIRCRAFT
997.	FAULT RECORDER ANALYSIS PARADIGM USING MACHINE LEARNING
998.	FEATURE VISUALIZATION IN NEURAL NETWORKS
999.	FEDERATED INVENTORY USING GRAPH DATABASE & BIG DATA
1000.	FILE LEVEL TIERING USING CLOUD PROVIDER AS STORAGE MEDIA IN TIERED STORAGE
1001.	FILE SYSTEM PERFORMANCE ANALYSIS TOOL FOR VERITAS INFOSCALE
1002.	FILECLOUD GOVERNANCE SYSTEM
1003.	FINANCIAL SERVICES
1004.	FIND BLOOD: ONLINE
1005.	FINDING CO-CLUSTERS FROM WEB LOG FILES
1006.	FINGER DETECTION USING MACHINE LEARNING
1007.	FIRMWARE DRIVER FOR ISDN DEVICE
1008.	FLEET TRACKER SYSTEM.
1009.	FLOW BASED INTRUSION DETECTION SYSTEM
1010.	FOOLPROOF SOLUTION TO PREVENT PAPER LEAKS
1011.	FORECASTING RESIDENTIAL ELECTRIC BILL USING LOGISTIC REGRESSION AND NAIVE BAYES
1012.	FORMULA TRANSFORMATIONS FOR HCM DATA LOADER
1013.	FRAMEWORK FOR CYBER SECURITY OPERATIONS
1014.	FRAUD CREDIT CARD DETECTION
1015.	FRAUD DETECTION RULE ENGINE ENHANCEMENT USING FEATURE ENGINEERING AND MACHINE LEARNING
1016.	FRAUD DETECTION SOLUTIONS FOR BANKING PORTFOLIOS
1017.	FUEL CONSUMPTION MODEL FOR FLEETS USING POLYNOMIAL REGRESSION
1018.	FUEL PUMP CONTROLLER
1019.	FULL TEXT SEARCH WITH SPEECH RECOGNITION
1020.	FUNCTIONAL SAFETY REQUIREMENTS FOR AUTOMOTIVE DIGITAL INSTRUMENT CLUSTERS
1021.	FUZZY LOGIC AUTHENTICATION TO CLOUD SERVERS
1022.	GAMIFICATION IN SERVICEDESK PLUS
1023.	GAMIFICATION OF INSURANCE POLICIES
1024.	GAMIFIED QUESTIONS AND ANSWERS PLATFORM FOR PRIVATE SOFTWARE DEVELOPMENT TEAMS
1025.	GENERATE HTML CODE USING WIREFRAME
1026.	GENERATING DEEP LEARNING BASED NETWORKS OF ANY SIMULINK HYBRID SYSTEM MODEL
1027.	GENERIC DATA LOAD PROCESS
1028.	GENERIC VOIP TEST AUTOMATION SOLUTION
1029.	GEO SPATIAL INVENTORY REPRESENTATION
1030.	GESTURE AND VISION BASED SMART SYSTEM FOR IOT APPLICATIONS
1031.	GIS-BASED APPLICATION FOR MONITORING AND FORECASTING OF CLIMATE CHANGES
1032.	GLOBAL DATA EXPLORER
1033.	GOING SMART WITH MOBILE READY WEBAPP
1034.	GSM FREQUENCY OPTIMIZATION USING GRAPH COLORING ALGORITHM AND ITS COMPARISON WITH SIMULATED ANNEALING APPROACH
1035.	GUI AUTOMATION FOR IP & SCIENCE WEB APPLICATION
1036.	GUI BASED COMPARATIVE ANALYSIS OF HEALTH CARE DISEASE PREDICTION
1037.	GUI BASED PREDICTION OF BREAST CANCER STAGES BY FINDING THE ACCURACY USING MACHINE LEARNING ALGORITHM
1038.	GUIDED SOLUTIONS TO EMAIL QUERIES
1039.	GUIDEWIRE-POLICY CENTER IMPLEMENTATION
1040.	HADOOP BASED SHORT TERM TRAFFIC FLOW ...
1041.	HADOOP ENGINE TO RANK RADIO STATIONS BY ANALYZING RADIO LISTENERSHIP DATA
1042.	HARMAN INTERNATIONAL INDIA PVT LTD, BANGALORE
1043.	HATEOAS (HYPERMEDIA AS THE ENGINE OF APPLICATION STATE) LINK GENERATOR LIBRARY FOR JAVA(EE 7) WS-RS

S.No.	DISSERTATION TITLE
1044.	HEALTH CARE MASTER
1045.	HEALTH MONITORING AND PREVENTIVE CARE OF EQUIPMENTS IN POWER PLANT
1046.	HEALTH MONITORING OF REMOTE LABS USING ANDROID APPLICATION
1047.	HEALTH MONITORING OF VMS USING ANALYTICS
1048.	HEALTH REPORT ANALYZER
1049.	HEALTHCARE RESEARCH USING BASIC DEMOGRAPHICS AND RESOURCE UTILIZATION ANALYSIS
1050.	HELPING HAND BLOOD BANK APPLICATION
1051.	HETEROGENEOUS DATABASE SYSTEM USING NOSQL
1052.	HIGH PERFORMANCE DPDK BASED PACKET PROCESSING PIPELINE FOR 5G NETWORK
1053.	HIGH QUALITY INFORMATION EXTRACTION FROM TEXT
1054.	HOME AUTOMATION IOT DEVICES POWERED BY ALEXA
1055.	HOTELS SALES FORECASTING: FORECASTING WITH DEMAND, INVENTORY, COMPETITION PRICING EFFECT
1056.	HR ANALYTICS
1057.	HR PREDICTIVE MODELING
1058.	HR RECRUITMENT MANAGEMENT TOOL
1059.	HUMAN ACTIVITY RECOGNITION USING LONG SHORT TERM MEMORY
1060.	HUMAN RESOURCE POOL MANAGER
1061.	HUNGRYAPARTMENT PLATFORM (APP/WEB)
1062.	HYBRID CLOUDFORMATION
1063.	HYBRID TECHNIQUE FOR IMAGE CLASSIFICATION TO DETECT GENDER AND AGE
1064.	HYDERABAD LAND CLASSIFIER
1065.	HYPERCONVERGED INFRASTRUCTURE DEPLOYMENT
1066.	HYPERION FINANCIAL MANAGEMENT
1067.	I4.0 STREAM DATA ANALYSIS
1068.	IBM CLOUD AUTOMATED LOG ANALYZER
1069.	IC ENABLER APPLICATIONS FOR CAR INFOTAINMENT
1070.	IDENTIFICATION OF CANCER TREATMENT PATH AND MORTALITY PATTERN OF THE CANCER PATIENTS
1071.	IDENTIFICATION OF MACHINE PRINTED AND HANDWRITTEN TEXT IN DOCUMENT IMAGES
1072.	IDENTIFICATION OF REVENUE LOSS IN FLEET OPERATIONS OF PORTS & MINING COMPANY USING MACHINE LEARNING TECHNIQUES
1073.	IDENTIFY GOLDEN BATCH IN BATCH PROCESS USING MACHINE LEARNING
1074.	IDENTIFYING CROSS SELL DATA OPPORTUNITIES IN INSURANCE
1075.	IMAGE ANALYSIS,CLASSIFICATION AND RECOGNITION
1076.	IMAGE BASED PRODUCT LOOKUP
1077.	IMAGE BASED UNIFIED SSO USING MACHINE LEARNING
1078.	IMAGE RESOLUTION ENHANCEMENT USING MACHINE LEARNING
1079.	IMAGE TO HTML FORM CONVERTER
1080.	IMARS
1081.	IMMUTABLE DATA PROOF SYSTEM
1082.	IMPLEMENT BACKEND FOR MULTI-TENANT CMS AND APIS FOR AN OVER THE TOP (OTT) VIDEO STREAMING APPLICATION
1083.	IMPLEMENT EDI SOLUTIONS TO MONRO INC
1084.	IMPLEMENTATION AND EXPERIMENTATION FOR EVALUATION OF STUDENTS PROGRAMMING ASSIGNMENTS
1085.	IMPLEMENTATION AND IMPORTANCE OF QOS IN IPROUTING
1086.	IMPLEMENTATION OF 2G AND 3G/4G GSM IN EPABX SYSTEM
1087.	IMPLEMENTATION OF AGILE METHODOLOGY IN SELENIUM AUTOMATION
1088.	IMPLEMENTATION OF AGILE TESTING PROCESS IN CATALENT PHARMA
1089.	IMPLEMENTATION OF CENTRAL USER ADMINISTRATION
1090.	IMPLEMENTATION OF CONTENT-BASED RECOMMENDER SYSTEMS FOR BLOG POST
1091.	IMPLEMENTATION OF HR SERVICE DELIVERY USING SERVICE NOW HR MODULE AND AGENT INTELLIGENCE
1092.	IMPLEMENTATION OF PHARMACEUTICAL COMPLIANT ECOSYSTEM TO ENSURE PATIENT SAFETY
1093.	IMPLEMENTATION OF ROBOTICS PROCESS AUTOMATION USING UIPATH
1094.	IMPLEMENTATION OF SCRUM PRACTICES & DEFINING KPI IN GAIA
1095.	IMPLEMENTATION OF SEMI SUPERVISED CLUSTERING ALGORITHM
1096.	IMPLEMENTING DATA WAREHOUSING ON FUTURES AND OPTIONS MARKET DATA
1097.	IMPLEMENTING DATA WAREHOUSING ON STOCK MARKET DATA

S.No.	DISSERTATION TITLE
1098.	IMPLEMENTING IOT USING BLOCKCHAIN WITH AUTHENTICATION AND DATA PROTECTION
1099.	IMPLEMENTING MARKETING/MEDIA PROJECT MANAGEMENT SYSTEM
1100.	IMPLEMENTING OCR MODEL TO PARSE IMAGE RESUMES IN RESUME PARSER APPLICATION
1101.	IMPLICATION OF BIG DATA IN HEALTHCARE
1102.	IMPROVE MONETIZATION USING COOKIE SYNC UP BY PREDICTION OF IDEAL DSP
1103.	IMPROVE THE ACCURACY OF REAL TIME AIR QUALITY INDEX FROM VARIOUS LOCATION
1104.	IMPROVEMENT OF CORRELATION EFFICIENCY USING HEURISTIC ANALYSIS AND CLASSIFICATION ALGORITHM
1105.	IMPROVING CUSTOMER'S SHOPPING EXPERIENCE FOR SPECIALIZED EVENTS IN E-COMMERCE WEBSITE.
1106.	IMPROVING DELIVERY EFFICIENCY OF FIXED PRICE PROJECTS USING SOFTWARE ENGINEERING METHODS
1107.	IMPROVING EFFICIENCY OF ENTERPRISE WAN LINKS USING SD-WAN SOLUTION
1108.	IMPROVING PERFORMANCE OF DATA AVAILABILITY THROUGH CLOUD, DATA REPLICATION
1109.	IMPROVING SECURITY IN SOFTWARE DEFINED NETWORK
1110.	IMPROVING SNAG DATA ANALYSIS USING MACHINE LEARNING
1111.	IMPROVING USER EXPERIENCE USING SPELL-CHECKER IN ECOMMERCE SEARCH
1112.	INCIDENT TICKET CLASSIFICATION FOR EFFECTIVE INFRASTRUCTURE ISSUE AND RESOURCE MANAGEMENT
1113.	INCLUSION OF MACHINE LEARNING IN EDUCATIONAL TECHNOLOGY
1114.	INDIA DIGITAL PAYMENT SPACE - BEFORE AND AFTER DEMONETIZATION
1115.	INDIAN LANGUAGE MACHINE TRANSLATION ENGINE USING RECURRENT NEURAL NETWORK AND ATTENTION MODELLING
1116.	INDIJUKEBOX - A CLOUD APPLICATION FOR AUTOMATED TRANSLATIONS OF SONGS
1117.	INDOOR POSITIONING USING BLUETOOTH LOW ENERGY'S ANGLE OF ARRIVAL / ANGLE OF DEPARTURE FEATURE.
1118.	INFER JOIN CONDITION USING MACHINE LEARNING
1119.	INFORMATION EXTRACTION FROM A MACHINE READABLE ID CARD
1120.	INFORMATION EXTRACTION FROM CARRIER MAINTENACE EMAILS
1121.	INFORMATION EXTRACTION FROM NATURAL LANGUAGE DOCUMENTS USING ENTITY RECOGNITION SYSTEMS
1122.	INFORMATION RETRIEVAL CHAT BOT: A NEW ERA OF INFORMATION EXTRACTION
1123.	INFORMATION RETRIEVAL FOR NETWORK MANAGEMENT SYSTEMS
1124.	INFORMATION TECHNOLOGY INFRASTRUCTURE SUPPORT DURING NATURAL DISASTER
1125.	INFORMATIONAL CHATBOT: INFOCITI
1126.	INFOSYS NEXT LEVEL INSURANCE PREDICTOR (INLIP)
1127.	INFRASTRUCTURE SECURITY ANALYSIS TOOL- A MORE SECURE WORK ENVIRONMENT
1128.	INHERENT AND RESIDUAL RISK ASSESSMENT AND REPORTING
1129.	INNOVATIVE IDEAS IN SOFTWARE TESTING (BUT THE STUDENT PRESENTED AS UNIFIED AUTOMATION FRAMEWORK)
1130.	INSTA ZAP
1131.	INSURANCE AGENT'S COMPENSATION CALCULATION DASHBOARD AND ANALYSIS
1132.	INSURANCE PORTFOLIO MANAGEMENT
1133.	INTADAY TRADING WITH PREDICTIVE ANALYSIS POWERED BY AWS & ZERODHA
1134.	INTEGRATE ELECTRONIC SIGNATURE
1135.	INTEGRATED COMMAND AND CONTROL CENTRE FOR SMART CITY IMPLEMENTATION
1136.	INTEGRATED DAYLIGHT WITH ARTIFICIAL LIGHTING USING HIGH-END ANDROID APPLICATION
1137.	INTEGRATING OF ANTLR4 C++ PARSER FOR POSTGERSSQL DATABASE IN DATAMODELING TOOL
1138.	INTEGRATING VERITAS FILE SYSTEM WITH RHEL8 OPERATING SYSTEM
1139.	INTEGRATING WIFI SOLUTION TO EXISTING CLOUD PLATFORM
1140.	INTEGRATION OF OPEN SOURCE ANN AND MACHINE LEARNING LIBRARY INTO A UNIFIED DOT NET ASSEMBLY TOWARDS POWER PLANT APPLICATION
1141.	INTEGRATION OF PAYMENT GATEWAY TO POS
1142.	INTEGRATIVE APPROACH FOR DOCUMENT VERIFICATION WITH TAXATION AND CREDIT SCORE ANALYSIS IN LOAN APPROVAL SYSTEM
1143.	INTELLIGENT BUSINESS RULES EXTRACTOR (IBRE)
1144.	INTELLIGENT CONFIGURABLE APPLICATION LAUNCHER
1145.	INTELLIGENT DOCUMENT PROCESSING USING MACHINE/DEEP LEARNING TECHNIQUES
1146.	INTELLIGENT INFLIGHT FRESH FOOD (MEALS) DISTRIBUTION OPTIMIZER
1147.	INTELLIGENT INVENTORY ACTIONS

S.No.	DISSERTATION TITLE
1148.	INTELLIGENT INVOICE PROCESSING WITH AI
1149.	INTELLIGENT NAVIGATION USING BEACONS
1150.	INTELLIGENT NETWORK PROBING
1151.	INTELLIGENT PERSONAL MEDICAL ASSISTANT USING NLP
1152.	INTELLIGENT SAFETY SYSTEM FOR SENIOR CITIZEN USING MOBILE GPS
1153.	INTELLIGENT TELEMETRY SERVICE FOR NETWORK DEVICES
1154.	INTELLIGENT TEST AUTOMATION LED BY BEHAVIOR DRIVEN DEVELOPMENT
1155.	INTELLI-M ADVANCED ANALYTICS SYSTEM FOR TARGETING CUSTOMERS AND MARKET USING CUSTOMER SEGMENTATION
1156.	INTENT ANALYSIS – APPLICATION OF NLP, WORD EMBEDDING AND DEEP LEARNING ALGORITHMS
1157.	INTER MSS MOBILITY ENHANCEMENT PROJECT IN VODAFONE IDEA LTD
1158.	INTERACTION DESIGN-PRINCIPLES AND PROCESSES
1159.	INTERPRETING RESULTS OF MACHINE LEARNING MODELS
1160.	INTERVIEW MANAGEMENT
1161.	INTRASITE AND INTERSITE UPLINK COMP IN LTE-A
1162.	INTRODUCTION, ANALYSIS & USAGE OF DOCKER FOR DEPLOYMENT OF APPLICATION
1163.	INVENTORY AND ORDER MANAGEMENT WITHIN DISTRIBUTION CENTRES.
1164.	INVENTORY MANAGEMENT USING SERVERLESS COMPUTING
1165.	INVENTORY PLANNING BY SALE FORECAST
1166.	INVESTMENT ANALYSIS & PORTFOLIO MANAGEMENT USING STATISTICAL, FORECASTING AND MACHINE LEARNING TECHNIQUES
1167.	INVESTMENT ANALYTICS DASHBOARD
1168.	IOT BASED BASE TRANSCEIVER STATION HEALTH MONITORING SYSTEM
1169.	IOT BASED ENERGY SOLUTION
1170.	IOT ENABLED VEHICLE MONITORING ON CLOUD
1171.	IOT FRAMEWORK DESIGN WITH BLOCKCHAIN FOR SUPPLY CHAIN MANAGEMENT
1172.	IOT REMOTE DEVICE MANAGEMENT THROUGH UNIVERSAL INGESTION LAYER
1173.	IS IT A CLICKBAIT? LET'S PREDICT USING MACHINE LEARNING
1174.	ISSUE MINING
1175.	IT PROJECT IMPLEMENTATION
1176.	ITEM ANALYSIS USING DENDROGRAMS
1177.	IV&V FOR A REAL TIME SIGNAL PROCESSING SUB-SYSTEM
1178.	JOB RECOMMENDATION ENGINE
1179.	JOURNEY OF ELECTRONIC PAYMENT INSTRUMENTS IN INDIA.
1180.	KEY WORD DETECTION IN REAL TIME CALL USING MRF
1181.	KEYWORDS AND PHRASES MINING FROM CONTENT
1182.	KNITR BASED REPORTING IN WINDCHILL USING R LANGUAGE
1183.	KNOWBOT - ASSISTIVE CHATBOT FOR SEMANTIC SEARCH
1184.	KNOWLEDGE EXTRACTION FROM BUG DATA SETS
1185.	KNOWLEDGE MINING GST DATA : A PREDICTIVE APPROACH FOR GST RETURNS ESTIMATION
1186.	KNOWLEDGE REPOSITORY.
1187.	K-STATE TIME VARYING MODEL USING DEEP LEARNING FOR STORAGE SERVERS
1188.	LAAS FOR GEO NAVIGATION OF CONSIGNMENT
1189.	LACP (LINK AGGREGATION CONTROL PROTOCOL) FORCE GROUPING (FALLBACK MODE) TO SUPPORT PXE BOOTING OF SERVERS
1190.	LARGE SCALE USER LOG ANALYSIS FOR DETECTING SUSPICIOUS ACTIVITY USING A NOVEL BIG DATA-BASED SECURITY ANALYTICS
1191.	LEAD WORKFLOW
1192.	LEARN AND SCORE
1193.	LEASED CIRCUIT INTEGRATION ORDER MANAGEMENT
1194.	LEVERAGING ICT FOR ELECTION IN INDIA THE LARGEST DEMOCRACY OF THE WORLD
1195.	LEVERAGING KNOWLEDGE BASES TO VALIDATE CONFIGURATION AND RESOLVE PRODUCT ISSUES
1196.	LINES OF BUSINESS ANALYSIS IN INSURANCE INDUSTRY USING SAS ON Z SYSTEMS
1197.	LIVE AGENT MONITORING - SMART MANAGEMENT
1198.	LIVE COMPONENTS - A FRAMEWORK FOR AUGMENTING TRADITIONAL APPLICATIONS WITH REAL TIME CAPABILITIES
1199.	LOAD BALANCING BETWEEN FOG & CLOUD FOR INTERNET OF THINGS
1200.	LOAN APPLICATION APPROVAL SYSTEM
1201.	LOAN APPLICATION AUTOMATION USING COMPUTER VISION

S.No.	DISSERTATION TITLE
1202.	LOCATION BASED SMART SHOPPING SYSTEM USING IOT TECHNOLOGY
1203.	LOG AGGREGATION AT SCALE
1204.	LOGISTICS & OPERATIONS OPTIMIZATION
1205.	LOGISTICS OPERATIONAL DATA ANALYTICS
1206.	LOW SPEED AUTOMATED DRIVING
1207.	LVDS SIGNAL GENERATION
1208.	M2M COMMUNICATION USING DYNAMIC ENCRYPTION
1209.	MACHINE LEARNING BASED MODEL
1210.	MACHINE LEARNING FOR SMART MANUFACTURING
1211.	MACHINE LEARNING FRAMEWORK: AN ALGORITHMIC TRADING SYSTEM
1212.	MACHINE LEARNING IN S/4HANA ENTERPRISE ASSET MANAGEMENT USING HANA PAL LIBRARIES, HEMI AND PAI
1213.	MACHINE LEARNING MODEL: IDENTIFICATION OF RISK AND IMPACTS OF NEW RULES/REGULATIONS ON BANK
1214.	MACHINE LEARNING MODELS FOR FRAUD DETECTION
1215.	MACHINE LEARNING SERVICES IN CLOUD COMPUTING
1216.	MACHINE LEARNINGH MODEL USING LOGISTIC REGRESSION
1217.	MAKING INFOSCALE NUTANIX READY
1218.	MAKING MULTI-FUNCTIONAL CONTROLLER SIMULATOR FOR COCKPIT DISPLAY APPLICATION.
1219.	MAKING OF A DIGITAL SALES REPRESENTATIVE
1220.	MALWARE THREAT ANALYSIS
1221.	MANAGING LARGE DIAGNOSTIC IMAGES OF ENTERPRISE HOSPITAL IN CLOUD ENVIRONMENT OF PHILIPS
1222.	MANUFACTURING EXCELLENCE (MANEX)- A DATA WAREHOUSING DESIGN FOR PHARMACEUTICAL COMPANY.
1223.	MAP REDUCE PROGRAMMING MODEL FOR PARALLEL K-MEDOIDS ALGORITHM ON HADOOP
1224.	MAPPING AND TRACKING OF CATTLE (MITHUNS BOVINE SPECIES)
1225.	MARKET DEMAND FORECASTING AND CUSTOMER GROUPING
1226.	MARKET PLACE - TRADE WITHIN THE GROUP
1227.	MARKETING ANALYSIS USING CLOUD ANALYTICS SERVICES WITH VOICE CAPABILITIES
1228.	MASRAF LIVE: CHATBOT FOR AI MASRAF
1229.	MEASURING TV VIEWING BEHAVIOR OF CUSTOMERS
1230.	MEDIA STREAMING IN MOBILE APPLICATION (USING IOS FRAMEWORK)
1231.	MEDICAL IMAGE ANALYSIS
1232.	MEDICAL X-RAY CLASSIFICATION
1233.	MEMKV : AN IN-MEMORY KEY-VALUE STORAGE
1234.	METADATA DRIVEN FRAMEWORK TO AUTOMATE AZURE DATA FACTORY DEPLOYMENTS
1235.	METADATA MANAGEMENT SYSTEM
1236.	METHOD TO SAVE COMPUTATIONAL RESOURCES AND IMPROVE PERFORMANCE BY DETECTING ENCRYPTED PAYLOAD TRAVERSING THROUGH AN ENCRYPTED TUNNEL
1237.	MICROSERVICES REFERENCE ARCHITECTURE, ANALYSIS
1238.	MIGRATION FROM RDMS ORACLE DATABASE TO NOSQL APACHE CASSANDRA DATABASE
1239.	MIGRATION OF AD-HOC AND PERIODIC REPORTS FROM MAINFRAMES TO COGNOS
1240.	MIGRATION OF ALTAIR PRODUCT (SIMULATION) TO AUGMENTED REALITY
1241.	MIMO & RESOURCE ALLOCATION IN FUTURE TECHNOLOGIES
1242.	MIMO APPLICATIONS & ITS BENEFITS IN WI-FI
1243.	MINE, LEARN, AND HEAL
1244.	MINING A BANK'S DATABASE FOR SOCIO-ECONOMIC PATTERNS IN MIZORAM
1245.	MINING DATA TO LEARN NEW SERVER CONFIGS AND READY NODES
1246.	ML APPROACH FOR STORY POINT ESTIMATION IN AGILE PROJECT
1247.	ML BASED NETWORK TRAFFIC ANALYSIS
1248.	MOBILE APPLICATION FOR TEEN BRAINS TRAINING
1249.	MOBILE APPLICATION TO MINIMIZE DISTRACTION AND INCREASE PRODUCTIVITY
1250.	MOBILE HANDSET INFORMATION THROUGH CHAT BOT USING NATURAL LANGUAGE PROCESSING
1251.	MODEL FOR SITE SUITABILITY OF RENEWABLE ENERGY USING GEOSPATIAL DATA MINING TECHNIQUES
1252.	MODEL TO ESTIMATE THE CONDITION OF THE ROAD SURFACE USING DATA FROM EXISTING VEHICLE SENSORS
1253.	MODEL(SYSML) BASED SYSTEM DEVELOPMENT FOR THE AUTOMOTIVE PRODUCT
1254.	MODELING FOR SENTIMENT ANALYSIS IN PAYMENT CARDS INDUSTRY

S.No.	DISSERTATION TITLE
1255.	MODERN IT OPERATIONS MANAGEMENT
1256.	MODIFICATION VERITAS FILESYSTEM TO SUPPORT LINUX KERNEL 5.0
1257.	MONOLITHIC VS MICROSERVICE ARCHITECTURE WITH SERVER-LESS TECHNIQUES
1258.	MOTION DETECTION AND TRACKING USING OPENCV
1259.	MSQL CRASH RECOVERY TESTING
1260.	MSTORE TEST AUTOMATION USING ROBOT FRAMEWORK
1261.	MULTIBOOKING ANDROID APPLICATION
1262.	MULTI-CLOUD MULTI-PLATFORM MANAGEMENT WORKFLOWS FOR VDI
1263.	MULTI-DOCUMENT SUMMARIZER FOR ENGLISH LANGUAGE
1264.	MULTI-LOG ANALYZER AND FAULT PREDICTOR
1265.	MULTIPLE FILE OPTICAL CHARACTER IDENTIFICATION AND RECOGNISATION
1266.	MULTI-TRAFFIC SCENE PERCEPTION BASED ON SUPERVISED LEARNING
1267.	MUSIC RECOMMENDATION
1268.	MUSIC RECOMMENDATION SYSTEM
1269.	MYRACK - THE PERSONAL CLOUD
1270.	N2N VC MIGRATOR
1271.	NAMED ENTITY RECOGNITION FOR PUNJABI LANGUAGE
1272.	NAMED ENTITY RECOGNITION IN A BILINGUAL CORPUS
1273.	NATURAL LANGUAGE INTERFACE FOR DATA WAREHOUSE.
1274.	NATURAL LANGUAGE PROCESSING FOR ORACLE EBS APPLICATIONS
1275.	NATURAL LANGUAGE QUERY ENABLED BUSINESS ANALYTICS
1276.	NATURAL LANGUAGES PROCESSING TECHNIQUES FOR SUMMARIZATION OF AVIONICS LIFE CYCLE ARTIFACTS
1277.	NEAR VEHICLE SMART SERVICES (NVSS) USING BLUETOOTH LOW ENERGY
1278.	NEED FOR SOFTWARE TESTING AND QUALITY ASSURANCE IN TODAY'S EVOLVING WORLD
1279.	NEED OF AUTOMATION TESTING TO INCREASE THE QUALITY OF SOFTWARE PRODUCTS
1280.	NEEDAMAID- FIND A MAID QUICKLY HERE
1281.	NETSALES ANALYSIS AND REPORTING IN HEALTHCARE
1282.	NETWORK MANAGEMENT SYSTEM CLOUD READY
1283.	NETWORK SECURITY CONCEPTS AND THEIR IMPLEMENTATION IN AEROSPACE
1284.	NETWORK SECURITY RESORTING TO OBTRUSION APPREHENSION AND PROHIBITION SYSTEM FOR AN ORGANIZATION.
1285.	NETWORK SURVEILLANCE & AUTOMATION
1286.	NEUROLOGICAL IMAGE COMPRESSION USING FEATURE EXTRACTION
1287.	NEW AGE SMART HOME
1288.	NEWSFEED TAGGING & RECOMMENDER FOR EMPLOYEES
1289.	NEXT BASKET PREDICTION FOR GROCERY BASED PRODUCTS
1290.	NEXTGEN TRANSFORMATION
1291.	NGO DONOR - CHURN ANALYSIS
1292.	NLP BASED CONVERSATIONAL ENGINE
1293.	NO SQL DATABASES FOR BIGDATA
1294.	NORMALIZATION OF DUPLICATE RECORDS FROM MULTIPLE SOURCES
1295.	NUMBER PLATE READING USING NEURAL NETWORKS
1296.	NVME DRIVE TELEMETRY FOR CLOUD INFRASTRUCTURE
1297.	OBJECT DETECTION IN IMAGE USING TENSORFLOW
1298.	OBJECT DETECTION IN IMAGE USING WINML FRAMEWORK AND PERFORMANCE ANALYSIS
1299.	OBJECT DETECTION, CONVERT OBJECT NAME TO TEXT AND TEXT TO SPEECH
1300.	OBJECT ORIENTED FRAMEWORK FOR APPLICATION SOFTWARE
1301.	OBSTETRICS ULTRASOUND ON PORTABLE DEVICES
1302.	OIL WELL OPERATION ADVISORY SYSTEM USING DATA ANALYTICS TECHNIQUES
1303.	OMNI CHANNEL POINT OF SCALE
1304.	OMT REPORTING
1305.	ON BOARD VEHICLE DIAGNOSTICS DATA SENT WIRELESSLY FROM CAN
1306.	ONBOARD APP FOR TICKET COLLECTOR
1307.	ON-DEMAND HEALTH CHECK PROVISIONING VIA INTERACTIVE CHATBOT
1308.	ONLINE AIRLINE TICKET RESERVATION SYSTEM
1309.	ONLINE EXAMINATION MONITORING PLATFORM
1310.	ONLINE FRAUD DETECTION BY ML
1311.	ONLINE HIRING TEST SYSTEM.

S.No.	DISSERTATION TITLE
1312.	ONLINE RESERVATION SYSTEM IN RESORTS
1313.	ONLINE UPDATE SYSTEM
1314.	ONLINE VIRTUAL LEARNING ENVIRONMENT FOR ACADEMIC CENTERS
1315.	OPEN BOM IN SAP CLOUD PLATFORM
1316.	OPERATIONAL INTELLIGENCE
1317.	OPINION MINING ON POLITICAL DATA USING CLOUD COMPUTING
1318.	OPSBOT - INTELLIGENT AUTOMATION OF PROCESS OPERATIONS
1319.	OPTICAL CHARACTER RECOGNITION
1320.	OPTIMIZING AND SIMULATION USING GPU THROUGH CUDA AND TENSOR FLOW FOR DIFFERENT CLASSIFICATIONS
1321.	ORACLE DATABASE AND QUERY PERFORMANCE TUNING
1322.	ORACLE INDIA PVT. LTD.
1323.	ORGANIZATION ATTENDANCE MANAGEMENT.
1324.	ORGANIZATIONAL DATA WAREHOUSE
1325.	OUTBREAK INDICATOR AND NOTIFIER
1326.	P5EE FRAMEWORK ARCHITECTURE AND ITS SERVICES
1327.	PANDA-HASH: AUDITING AND TRACEABILITY IN SHARED PUBLIC CLOUD
1328.	PARALLEL ARCHITECTURE FOR INTERACTIVE UI DEVELOPMENT
1329.	PARTIAL OTP AUTHENTICATION FOR ADDITIONAL SECURITY
1330.	PARTS RECOMMENDATION IN GE SERVICE SHOP TO IMPROVE CUSTOMER ENGAGEMENT
1331.	PASSENGER LIGHT SIGNS SYSTEM
1332.	PATIENT LIFE CYCLE AND MEDICAL INSURANCE TRANSACTION MANAGEMENT IN BLOCK CHAIN
1333.	PATIENT TRACKER APPLICATION
1334.	PATTERN RECOGNITION OF MERCHANTS USING PREDICTIVE ANALYSIS
1335.	PAY BILL AND LEAVE PROCESSING SYSTEM
1336.	PEHCHAAN WEB ERP
1337.	PENETRATION TESTING OR ETHICAL HACKING FOR SECURING ORGANIZATION NETWORK
1338.	PERFORMANCE ENGINEERING OF SAP CLOUD APPLICATIONS
1339.	PERFORMANCE OPTIMIZATION OF MEDIA STREAMING USING GPU
1340.	PERFORMANCE OPTIMIZATION TECHNIQUES IN SQL
1341.	PERFORMANCE TESTING
1342.	PERFORMANCE TESTING OF AN IOT SYSTEM
1343.	PERFORMANCE TESTING OF ASSET MANAGEMENT SYSTEM USING APACHE JMETER
1344.	PERFORMANCE TESTING OF WEB APPLICATION USING LOADRUNNER
1345.	PERSISTENCE OF AUTOMATION RESULTS AND ANALYSIS
1346.	PERSONALIZED PLANS- MADE FOR YOU
1347.	PHARMA DATA AUTOMATION AND ANALYTICS USING MACHINE LEARNING TECHNIQUE
1348.	PHARMACEUTICAL DRUGS INFORMATION RETRIEVAL USING NATURAL LANGUAGE PROCESSING
1349.	PHENOMED2-AN INTEGRATED FRAMEWORK FOR PHENOMIC DATA ANALYSIS
1350.	PHYGITAL
1351.	PLANNING BETTER QUALITY CABIN CREW ROSTERS USING SINGLE INPUT OPTIMIZATION RUNS
1352.	PLAYER RANKING MODEL FOR FANTASY GAMES PLATFORM
1353.	POLICY TEXT SUMMARIZATION USING TEXT MINING PRINCIPLES
1354.	PORTFOLIO MANAGEMENT USING REINFORCEMENT LEARNING
1355.	PORTING ZEPHYR RTOS TO MIPS ARCHITECTURE
1356.	PRECAST BUILDERS - AN E-COMMERCE WEBSITE
1357.	PREDICATION OF PAYMENT DATE USING PAYMENT HISTORY
1358.	PREDICT CUSTOMER CHURN
1359.	PREDICT CUSTOMER CHURN IN SAAS APPLICATION USING MACHINE LEARNING MODEL
1360.	PREDICT FACTORS INFLUENCING CUSTOMER ACTIVATION
1361.	PREDICT SUMMER SALE OF RETAIL STORE
1362.	PREDICTING AN ITEM FEATURES BY CUSTOMER REVIEWS DATA ANALYSIS
1363.	PREDICTING REPAYMENT OF LOAN USING MACHINE LEARNING
1364.	PREDICTING SALES OF PHARMA MANUFACTURER USING MACHINE LEARNING ALGORITHMS
1365.	PREDICTING SOFTWARE VULNERABILITY
1366.	PREDICTING STARTUP'S PROFIT/SUCCESS RATE
1367.	PREDICTING THE DISPUTES IN THE INVOICES CREATED BY CARRIERS AGAINST THE FREIGHT ORDERS CREATED BY THE SHIPPERS IN THE DIGITAL SUPPLY CHAIN MANAGEMENT SYSTEM
1368.	PREDICTION IN MEDICAL SCIENCE: CORONARY HEART DISEASE

S.No.	DISSERTATION TITLE
1369.	PREDICTION OF DISEASE OF PATIENTS USING DATA MINING TECHNIQUES
1370.	PREDICTION OF OXIDATION STRESS MARKERS, INFLAMMATORY MARKERS AND ADIPOSE DYSFUNCTION FROM THE ASTROMETRY AND BIOCHEMICAL DATA
1371.	PREDICTION OF THE NETWORK ATTACKS BY FINDING THE BEST ACCURACY USING SUPERVISED MACHINE LEARNING ALGORITHM
1372.	PREDICTIVE ANALYSIS IN DEALER MANAGEMENT SERVICES
1373.	PREDICTIVE ANALYSIS OF PRODUCT FAILURE BASED ON APPLICATION LOGS
1374.	PREDICTIVE ANALYSIS OF WORKFORCE MANAGEMENT
1375.	PREDICTIVE ANALYSIS ON HEALTH ISSUES BASED ON HISTORICAL MEDICAL REPORTS
1376.	PREDICTIVE ANALYTICS FOR MAINTAINING MEDICINE STOCK IN MEDICAL STORES USING MACHINE LEARNING AND DATA MINING TECHNIQUES
1377.	PREDICTIVE ANALYTICS OF EQUITIES USING MACHINE LEARNING BASIS INTRADAY MOVEMENT
1378.	PREDICTIVE ANALYTICS OF USER SSO APPLICATION FOR SHARED WORKSTATION
1379.	PREDICTIVE ANALYTICS: A MAJOR GAME CHANGE IN THE RETAIL INDUSTRY
1380.	PREDICTIVE ERROR CODE ANALYSIS & MONITORING
1381.	PREDICTIVE INFRA ANALYTICS FOR INCIDENT REDUCTION
1382.	PREDICTIVE INTELLIGENCE IN ECOMMERCE
1383.	PREDICTIVE RECOMMENDER SYSTEM FOR CHATBOT USING MACHINE LEARNING
1384.	PREDICTIVE SEARCH ANALYSIS
1385.	PREEMPTIVE SENTIMENT ANALYZER
1386.	PREVENTING SESSION FIXATION KNOWN WEAKNESS IN WEB-BASED APPLICATIONS
1387.	PREVENTIVE ANALYSIS FOR APPLICATION OR SYSTEM FAILURE USING SERVER METRICS
1388.	PRIME TIME AUDIENCE ANALYSIS
1389.	PRINTED TEXT DETECTION FOR LEDGER BOOK-KEEPING
1390.	PRIVATE CLOUD PLATFORM FOR MSME
1391.	PRIVATE SEARCH ENGINE FOR ORGANIZATIONS
1392.	PROACTIVE VULNERABILITY SCANNER FOR CLOUD APPLICATIONS
1393.	PROBABILISTIC GRAPHICAL MODEL TO IDENTIFY DISEASE NETWORKS AND PREDICT ASSOCIATED COSTS
1394.	PROCESS AUTOMATION BILL OF ENTRY USING RPA
1395.	PRODUCT BASED SENTIMENT ANALYSIS OF SOCIAL PLATFORM USERS BY DATA MINING
1396.	PRODUCT CATALOGUE BUILDER FOR E-COMMERCE BASED CLIENTS
1397.	PRODUCTIVITY IMPROVEMENT THROUGH API TESTING AND END TO END INTEGRATION
1398.	PROFILING OF USER ACTIVITY FOR RESOURCE OPTIMIZATION IN A PRIVATE CLOUD
1399.	PROGRAMMABLE SWITCHES
1400.	PROGRESSIVE WEB APP WITH SERVERLESS BACKEND USING ANGULAR, JAMSTACK AND AMAZON LAMBDA
1401.	PROJECT MANAGEMENT IN ERP
1402.	PROJECT MANAGEMENT SOFTWARE
1403.	PROPOSING RIGHT UPDATES FOR THE ORGANIZATION BASED ON SIMILARITY NEEDS
1404.	PROTECTING WEB APPLICATIONS USING BEHAVIORAL ANALYTICS, PROACTIVE BOT DEFENSE AND APPLICATION LAYER ENCRYPTION
1405.	PROTOCOL BUFFERS BASED NETWORKING ADAPTER
1406.	PROTOTYPE ARTIFICIAL INTELLIGENCE BASED PREDICTIVE ANALYSIS OF INDUSTRIAL MACHINE
1407.	PROTOTYPE FOR CONTAINER ORCHESTRATION USING KUBERNETES
1408.	PROVISIONING APP. OUTBOUND TRAFFIC MODERNIZATION
1409.	PROXY API TO ACCESS PEOPLE MANAGEMENT DATA STORE
1410.	QUALIFICATION OF VERITAS FILE SYSTEM IN SLES 12SP4 OPERATING SYSTEM
1411.	QUALITY ASSURANCE FOR CREDIT RISK APPLICATIONS
1412.	QUERY OPTIMISATION FOR PERFORMANCE IMPROVEMENT
1413.	R CONNECTOR FOR RMSIS
1414.	RBT (REQUIREMENT BASED TEST) CASE AUTO-GENERATION
1415.	REAL TIME ANALYTICS WITH MULTIPLE DATA SOURCES
1416.	REAL TIME DATA ANALYTICS AND DISTRIBUTED COMPONENTS MONITORING
1417.	REAL TIME HAND GESTURES RECOGNITION SYSTEM
1418.	REAL TIME INSIGHT OF THINGS
1419.	REAL TIME METRICS ANALYZER USING DATA MINING
1420.	REAL TIME OBJECT DETECTION USING AWS
1421.	REAL TIME PROCESSING IN DISTRIBUTED ENVIRONMENT
1422.	REAL TIME STOCK ANALYSIS USING BIG DATA ANALYSIS

S.No.	DISSERTATION TITLE
1423.	REAL TIME STOCK MARKET DATA PROCESSING
1424.	REAL TIME STREAM MINING USING MACHINE LEARNING TECHNIQUE
1425.	REAL TIME TOLL DATA MANAGEMENT SYSTEM
1426.	REALTIME AI DRIVEN BASELINING ON COMPUTER NETWORKS
1427.	REAL-TIME DEEP ACTION RECOGNITION ON THE VIDEO REPRESENTATIONS
1428.	REAL-TIME FRAUD DETECTION USING ADVANCED ANALYTICS
1429.	REAL-TIME HEALTH MONITORING USING IOT
1430.	REAPPOINTMENT WORKFLOW BY PEOPLESOFTE.
1431.	RECOMMENDATION BASED WORKFLOW SHAPING
1432.	RECOMMENDATION ENGINE FOR E-COMMERCE APPLICATION
1433.	RECOMMENDATION FOR NEW RESTAURANT OPENERS BASED ON THE OPINION MINING ON CUSTOMERS REVIEWS
1434.	RECOMMENDATION OF FEEDBACK MECHANISM TO RESOLVE DISCREPANCIES FOR RECONCILIATIONS WITH MACHINE LEARNING TECHNIQUES
1435.	RECOMMENDATION OF HOTELS BASED ON USER CHOICE USING EFFECTIVE MACHINE LEARNING TECHNIQUES
1436.	RECOMMENDATION SYSTEMS
1437.	RECOMMENDED SYSTEMS FOR MOVIES
1438.	RECOMMENDED SYSTEMS FOR SUGGESTING THE FINANCIAL REPORTS TO USERS BASED ON THE USAGE PATTERN FOR FINANCE DATA LAKE PRODUCTS
1439.	RECOMMENDER SYSTEM
1440.	RECOMMENDER SYSTEM FOR ENTERPRISE DIGITAL ASSET EXCHANGE
1441.	RECRUITER BOT USING NATURAL LANGUAGE PROCESSING
1442.	REDEEM AWARDS ANYWHERE ANYTIME
1443.	REDUCING FALSE POSITIVES IN CREDIT CARD FRAUD DETECTION
1444.	REDUCING REMOTE DATA ACCESS TIME USING CLOUD
1445.	REGRESSION AUTOMATION TOOL
1446.	REGRESSION DATA ANALYTICS
1447.	REGRESSION SUITE FOR MAINFRAME USING SELENIUM.
1448.	REGRESSION TEST CASE PRIORITIZATION USING SUPERVISED LEARNING
1449.	REGULATED ARTIFICIAL INTELLIGENCE
1450.	REGULATORY REPORTING USING ETL (LAVASTORM)
1451.	REMOTE FIRMWARE UPDATER WITH AUTHORIZATION & BATCH PROCESSING
1452.	RENDER A BLENDER USING AZURE BATCH
1453.	REPORT ON DIGITAL MARKETIN PERFORMANCE
1454.	REPORTING DASHBOARD FOR EMPLOYEE RETENTION
1455.	REQUEST LIFE CYCLE IN SERVICEDESK PLUS.
1456.	REQUIREMENTS ENGINEERING FOR TESTERS
1457.	RESOLVE: RECOVERY BOOSTER FOR PROPERTY MANAGERS
1458.	RESOURCE HIRING PREDICTION USING DATA MINING TECHNIQUES
1459.	REST API AUTOMATION FRAMEWORK FOR VMWARE ON PREMISE AND CLOUD-BASED VDI SOLUTIONS
1460.	REST API BASED DIGITAL COLLECTION IN MANAGEENGINE OPMANAGER
1461.	RESTAURANT FINDER CHATBOT
1462.	RESUME AND JOB MATCHING SOLUTION USING ELASTICSEARCH
1463.	REVELIO: MINING HIDDEN TOPICS FROM USER REVIEWS USING DATA MINING
1464.	REVIEW ANALYSER FRAMEWORK
1465.	RFID BASED ATTENDANCE MONITORING SYSTEM
1466.	RISK ANALYTICS IN BFSI
1467.	ROBOTIC PROCESS AUTOMATION
1468.	ROLE OF MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE IN DATA-DRIVEN INDUSTRY
1469.	ROUTE OPTIMIZATION
1470.	ROUTER BASED INTRUSION PREVENTION SYSTEM
1471.	RPA - A POWER TOOL IN TESTING
1472.	RULE BASED FRAMEWORK FOR IDENTIFYING SECURITY VULNERABILITIES
1473.	RULE PERFORMANCE PREDICTION USING ANALYTICS
1474.	RUNWAY CONFIGURATION IDENTIFICATION AND PREDICTION
1475.	S1-19_BITSZG628T
1476.	SAFEGUARD DB FROM UNAUTHORIZED ACCESS AND IMPROVE THE PERFORMANCE
1477.	SALES AND PURCHASE ANALYSIS DASHBOARD USING SAP ANALYTICS CLOUD (SAC)

S.No.	DISSERTATION TITLE
1478.	SALES CLOUD
1479.	SAN ALERT - ACTIONABLE ALERT FILTERING
1480.	SAND BOXING WITH FIREWALL
1481.	SAP S/4HANA OUTPUT MANAGEMENT IN CLOUD
1482.	SATELLITE RECEIVER DESIGN BASED ON CCSDS STANDARD
1483.	SCALABLE AND RELIABLE EDISCOVERY PROCESSING SOLUTION
1484.	SCALABLE APPLICATION USING AZURE SERVICE FABRIC AND STORAGES - A CONCEPT THAT CAN BE ADOPTED FOR INTERNAL PROJECT
1485.	SCALABLE DEPLOYMENT OF VARIETY OF MACHINE LEARNING MODELS
1486.	SCALING IN-MEMORY METRIC COMPUTATION ENGINE USING CONTAINERS
1487.	SCORING MECHANISM ON BIG DATA POWERED BY SPARK ON AWS
1488.	SCRIPTING TECHNIQUES IN AUTOMATED SOFTWARE TESTING
1489.	SCRIPTS HEALTH MONITORING USING ANALYTICS
1490.	SEAMLESS CONNECTIVITY TO IOT DEVICES ON CELLULAR NETWORK
1491.	SEAMLESS INTEGRATION OF XYZ APP WITH PORTALS AND CALL CENTER APPLICATIONS
1492.	SEARCH SERVICE
1493.	SEARCHABLE ENCRYPTION ON TEXT-BASED FILES
1494.	SECURE BOOTLOADER
1495.	SECURE COMMUNICATION OF PROTECTED INFORMATION IN CLOUD COMPUTING (SCOPICC)
1496.	SECURE DATA SHARING AND SEARCHING AT THE EDGE OF CLOUD-ASSISTED INTERNET OF THINGS
1497.	SECURE DATA SHARING IN PUBLIC CLOUD
1498.	SECURE DOCUMENTS USING BLOCK CHAIN
1499.	SECURE FILE TRANSFER OVER MOBILE NETWORK
1500.	SECURE PHR AND SHARING SYSTEM
1501.	SECURING INTRANET FROM INTERNET ACCESS AT END POINT SYSTEMS
1502.	SECURING IOT DEVICES USING MACHINE LEARNING
1503.	SECURITY ASSERTION MARKUP LANGUAGE SINGLE SIGN-ON SUPPORT FOR DOCUMENTUM
1504.	SECURITY CLASSIFICATION OF IOT DEVICES
1505.	SECURITY COMPLIANCE MONITORING IN HYBRID CLOUD
1506.	SECURITY FOR ORDER MANAGEMENT SYSTEM
1507.	SELENIUM- TEST AUTOMATION
1508.	SELF EVALUATION APP
1509.	SELF SERVICE BASED CUSTOMER ONBOARDING ON CLOUD FOR DAAS OFFERING
1510.	SELF SERVICE PATIENT INFORMATION
1511.	SELF-LEARNING CYBER SECURITY DETECTION ANALYTICS
1512.	SELF-LEARNING MMWAVE SENSOR
1513.	SEMI-SUPERVISED SPEECH RECOGNITION USING PARTIAL DATASET
1514.	SENTIMENT ANALYSIS AND REVIEW MINING
1515.	SENTIMENT ANALYSIS FOR STOCK MARKET PREDICTION USING NATURAL LANGUAGE PROCESSING
1516.	SENTIMENT ANALYSIS OF A PRODUCT
1517.	SENTIMENT ANALYSIS OF CUSTOMER REVIEW, RATING
1518.	SENTIMENT ANALYSIS OF CUSTOMER REVIEWS
1519.	SENTIMENT ANALYSIS ON PUBLIC VIEWS ON POLITICS
1520.	SENTIMENT ANALYSIS ON UNSTRUCTURED DATA
1521.	SENTIMENT ANALYSIS USING DEEP LEARNING
1522.	SENTIMENT ANALYSIS USING TWITTER DATA
1523.	SENTIMENT ANALYSIS WITH RECURRENT NEURAL NETWORKS IN TENSORFLOW
1524.	SENTIMENT ANALYSIS WITH TWITTER DATA
1525.	SENTIMENT ANALYZER
1526.	SENTIMENT CLASSIFICATION OF HINGLISH TEXT
1527.	SENTIMENTAL ANALYSIS AND PREDICTION
1528.	SENTIMENT ANALYSIS OF TWEETS USING MACHINE LEARNING
1529.	SERENDIPITOUS RECOMMENDATION IN E-COMMERCE PROVING INNOVATOR-BASED COLLABORATIVE FILTERING
1530.	SERVICES/API AUTOMATION FOR IP AND SCIENCE WEB APPLICATION
1531.	SETTING UP OF IT PROCESS AUTOMATION IN IT OPERATIONS
1532.	SHOPPING CART EXPERIENCE WITH MIDDLEWARE TECHNOLOGIES
1533.	SHUTTLE YOU HOME
1534.	SIGN LANGUAGE TRANSLATOR

S.No.	DISSERTATION TITLE
1535.	SIMPLIFIED ANALYTICS-VISUALISATION FOR EFFICIENCY (SAVE)
1536.	SINGLE SIGN ON
1537.	SINKHOLE MALICIOUS WEBSITE DETECTION
1538.	SKILLS AND COMPETENCIES ASSESSMENT APPLICATION
1539.	SMART AGENT FOR ALL HOST BASED UTILITIES IN C-SERIES RACK SERVERS
1540.	SMART AIR CONDITIONING OF VEHICLE INTERIOR
1541.	SMART ALARM MONITOR FOR FACTORY AUTOMATION
1542.	SMART ASSISTANTS FOR CALL CENTER AGENT
1543.	SMART ATTENDANCE
1544.	SMART AUDIENCE SEGMENTATION
1545.	SMART BUY CHAT APP
1546.	SMART CABS - CONVERSATIONAL AI BASED TAXI BOOKING
1547.	SMART CARD AUTHENTICATION
1548.	SMART CHAT BOT
1549.	SMART COGNITIVE SOLUTIONS
1550.	SMART COMPARATIVE SENTIMENT ANALYZER
1551.	SMART COMPARE
1552.	SMART DOC MANAGEMENT IN TRADE FINANCE USING BLOCKCHAIN
1553.	SMART DOORMAN USING IOT
1554.	SMART EVENT ORGANIZER
1555.	SMART EYE ON HOUSE HOLD FOR STRANGER ALERT
1556.	SMART GROCERY SHOPPER
1557.	SMART HEALTH MONITORING SYSTEM
1558.	SMART HEALTH MONITORING SYSTEM
1559.	SMART HELPDESK - GETIT
1560.	SMART HOME AUTOMATION
1561.	SMART HOME CARE - A SMART SOLUTION
1562.	SMART HOME USING BLUETOOTH CONTROLLED APPLIANCES
1563.	SMART IMAGE RETRIEVAL SYTEM
1564.	SMART INVENTORY MANAGEMENT SYSTEM
1565.	SMART LOG ANALYTICS USING ELK TOOLS
1566.	SMART LOGGER DESIGN FOR TELECOM TOWER
1567.	SMART LPG
1568.	SMART MEDI CARE
1569.	SMART MESS/HOTEL ANDROID APPLICATION
1570.	SMART NETWORK ANALYSER
1571.	SMART PMI AUTHORIZING
1572.	SMART PROFILE SEARCH
1573.	SMART PROJECT PLANNING AND ESTIMATION
1574.	SMART RECOMMENDATION ENGINE
1575.	SMART RETRIEVAL THROUGH INFORMATION LINKING
1576.	SMART SOCIAL NETWORK
1577.	SMART SUPPORT SOLUTION (USING SAP CONVERSATIONAL AI)
1578.	SMART TRACKER - SYSTEM FOR TRACKING SHARED COMPONENTS IN COMPANIES
1579.	SMART VEHICLE NUMBER PLATE
1580.	SMART WATER MANAGEMENT AND BILLING SYSTEM
1581.	SMART WATER MONITORING AND DISTRIBUTION SYSTEM
1582.	SMARTER CAPITAL PROJECTS
1583.	SMARTER MODELLING TECHNIQUES TOWARDS MBSE
1584.	SMARTPHONE BASED PERSONAL ACTIVITY SENSING AND MODELLING FOR CONTEXT-AWARE APPLICATION
1585.	SMARTTEST AUTOMATION
1586.	SOCIAL CORPORATE BUSINESS PLAN
1587.	SOCIAL E-COMMERCE WEB PORTAL
1588.	SOCIAL MEDIA APP FOR REGIONAL MANAGERS
1589.	SOCIAL MEDIA EXCHANGE DATA RESEARCH PLATFORM
1590.	SOCIAL MEDIA MESSAGING CHAT BOT: A NEW ERA OF INFORMATION EXTRACTION & DISSEMINATION
1591.	SOCIAL MEDIA MONITORING AND SENTIMENT ANALYSIS IN DISTURBED AREAS
1592.	SOCIAL MEDIA SENTIMENT ANALYSIS

S.No.	DISSERTATION TITLE
1593.	SOFTWARE ARCHITECTURE AND IMPLEMENTATION TO BUILD LIGHT WEIGHT MICROSERVICES
1594.	SOFTWARE ARCHITECTURE OF REAL-TIME STREAMING APPLICATION USING MICROSERVICES
1595.	SOFTWARE CODEC FOR FAX COMPRESSION ENCODE/DECODE
1596.	SOFTWARE COMPONENT TEST ANALYZER
1597.	SOFTWARE DEFINED ACCESS DESIGN FOR ENTERPRISE NETWORK
1598.	SOFTWARE DEFINED AUTOMATED FRAMEWORK
1599.	SOFTWARE DEFINED RADIO TO CARRYOUT DEMODULATION AND DECODING
1600.	SOFTWARE DRIVEN DATA MODELING
1601.	SOFTWARE ERROR CODE
1602.	SOFTWARE FAILURE PREDICTION USING MACHINE LEARNING ALGORITHM
1603.	SOFTWARE QUALITY ASSURANCE
1604.	SOFTWARE QUALITY IMPROVEMENT BY MODEL AND CODE CHECKS
1605.	SOFTWARE TESTING AND QUALITY ASSURANCE
1606.	SOFTWARE TESTING IN AGILE METHODOLOGY
1607.	SOFTWARE TESTING PROCESS FROM ROADMAP OF THE PRODUCT TO THE CUSTOMER DELIVERIES
1608.	SOLAR ENERGY PRODUCTION FORECAST USING ADVANCED MACHINE LEARNING TECHNIQUES
1609.	SPACECRAFT CONTROL DYNAMICS USING SOFTWARE SIMULATOR FOR ISRO SPACE PROGRAM
1610.	SPAM MAIL DETECTION USING MACHINE LEARNING
1611.	SPATIAL INTELLIGENCE FOR ARCHITECTS
1612.	SPEAKER IDENTIFICATION USING MACHINE LEARNING
1613.	SPECTRUM MONITORING RECEIVER CONTROL
1614.	SPEECH EVALUATOR
1615.	SPELL CHECKER AND AUTO SPELL SUGGESTION FOR NAMED ENTITY IN ENGLISH LANGUAGE
1616.	SPOKEN DIGITS DATA COLLECTION AND CLASSIFICATION
1617.	STABILITY TESTS FOR INFOTAINMENT SYSTEMS
1618.	STATE ELECTRICITY BOARD TARIFF FRAUD DETECTION
1619.	STATIC APPLICATION SECURITY ASSESSMENT AND AUTOMATIC VULNERABILITY FIX
1620.	STATIC FRAMEWORK TO CHECK HMI GUIDELINES ARE FOLLOWED BY MULTIPLE SUB-SYSTEMS TRYING TO DESIGN HMI
1621.	STATISTICAL ANALYSIS OF HEALTHCARE DATA
1622.	STOCK MARKET MACHINE
1623.	STOCK PRICE DIRECTION PREDICTION SYSTEM
1624.	STOCK PRICE PREDICTION USING LSTM AND CNN
1625.	STOCK VALUE PREDICTION
1626.	STORAGE ARRAY RECOMMENDATIONS
1627.	STOREON
1628.	STORING FILES SECURELY IN CLOUD WITH HYBRID CRYPTOGRAPHY
1629.	STRATEGIES FOR EFFECTIVE IMPLEMENTATION OF AUTOMATION IN AN ORGANIZATION
1630.	STREAMING DATA PIPELINE ON CLOUD
1631.	STREAMING TELEMETRY
1632.	STUDENTS CAREER DECISION SUPPORT SYSTEM
1633.	SUBSCRIPTION MANAGEMENT OPT-OUT
1634.	SUGGESTIVE CONFIGURATIONS FOR STORAGE ARRAYS
1635.	SUITABLE PRODUCT SUGGESTIONS
1636.	SUMI- THE SOFTWARE USABILITY MEASUREMENT LIBRARY
1637.	SUNRISE REPORTING
1638.	SUPPLY CHAIN INTEGRATED DATA FOR SOURCING AND PROCUREMENT WITH REAL TIME ANALYTICS LEVERAGING IN-MEMORY DATA PLATFORM
1639.	SUPPORT OF TR-069 IN VOIP SIP PHONES
1640.	SUSPENSE RATE REDUCTION-CORRESPONDENT LENDING
1641.	SUSTAINABLE ENTERPRISE ARCHITECTURE FOR DIGITAL TRANSFORMATIONS
1642.	SYSTEM HEALTH MONITORING AND REPORTING WITH SAP
1643.	SYSTEM MONITORING AND ANALYSIS THROUGH STREAM PROCESSING
1644.	TAMIL SIGN LANGUAGE RECOGNITION USING MACHINE LEARNING TO AID DEAF-DUMB PEOPLE
1645.	TCS HYDERABAD
1646.	TECH SUPPORT SCAM HTML CLASSIFIER
1647.	TEST ARTIFACT REPOSITORY
1648.	TEST AUTOMATION FRAMEWORK
1649.	TEST AUTOMATION FRAMEWORK FOR MEDICAL DEVICES

S.No.	DISSERTATION TITLE
1650.	TEST COVERAGE ANALYSIS USING AI BASED ENTITY EXTRACTION
1651.	TEST DATA MANAGER
1652.	TEST DATA MANAGER FOR DATA REPLICATION PRODUCTS
1653.	TEST DIAGNOSIS SERVICES
1654.	TEST SUITE REDUCTION IN SOFTWARE TESTING OF MATURE PRODUCTS ...
1655.	TESTING PARADIGM FOR SOFTWARE USABILITY
1656.	TETRA PAK PLANT SECURE
1657.	TEXT ANALYTICS OVER ENTERPRISE CONTENT MANAGEMENT APPLICATION
1658.	TEXT EXTRACTION FROM SCANNED INVOICE
1659.	TEXT RECOGNITION USING K-MEANS CLUSTERING AND SUPPORT VECTOR MACHINE
1660.	TEXT SUMMARIZER
1661.	THANOS- TICKETING PLATFORM AS A SERVICE
1662.	THE CLASSIFICATION TECHNIQUE FOR THE FACE SPOOF DETECTION IN ARTIFICIAL NEURAL NETWORKS
1663.	THESIS ON DRIVER ASSISTANCE SYSTEM FOR PEDESTRIAN SAFETY ON INDIAN ROADS
1664.	THOMSON REUTERS DATA WAREHOUSING
1665.	TLS BASED VPN
1666.	TO APPLY REINFORCEMENT LEARNING TO GENERATE A PARAMETRIC CAD MODEL
1667.	TOOL FOR PREPARATION FOR ROUTE CONTROL CHART.
1668.	TOOL TO MONITOR AND ANALYZE FILE SYSTEM DRIVER I/O REQUEST PACKETS
1669.	TOOL TO QUERY VIRTUAL MACHINES STATUS IN VMWARE VCENTER AND REMEDIATE
1670.	TOOL WEAR PREDICTION IN DIAMOND TOOL TURNING MACHINES
1671.	TOPIC MODELING & SUMMARIZATION OF STUDENT ANSWER
1672.	TOWARDS CONTEXT AWARE CHAT PLATFORM FOR CUSTOMER SERVICE THROUGH KEYWORD EXTRACTION AND ASSISTIVE AUTOCOMLETE
1673.	TRACK AND TRACE USING BLOCKCHAIN
1674.	TRACK CLIENT SIDE USER INTERACTIONS AND ANALYZE THEM TO FIND MOST USED FEATURES OF AN APPLICATION
1675.	TRAFFIC SIGNAL CLASSIFICATION
1676.	TRAFFICNET: LEARNING VARYING SIGNAL TIME SLOTS FROM TRAFFIC IMAGES AT ROAD JUNCTIONS
1677.	TRANSACTION FRAUD DETECTION BASED ON TOTAL ORDER RELATION AND BEHAVIOUR DIVERSITY
1678.	TRENDING IN SOFTWARE ENGINEERING IN AEROSPACE INDUSTRY
1679.	TV REMOTE CONTROL BASED ON BLUETOOTH LOW ENERGY
1680.	TWITTER SENTIMENT ANALYSIS USING MACHINE LEARNING
1681.	UNDERSTANDING USER SENTIMENTS BY OBSERVING THEIR SOFTWARE USAGE PATTERN
1682.	UNDERVALUED STOCK IDENTIFICATION BY MACHINE LEARNING
1683.	UOP ENGINEERING DATA ANALYTICS
1684.	UPLINK UPDATION LTE FOR CAT M1 USERS
1685.	USER ACCESS MANAGEMENT AND CLASSIC ORDER CANCELLATION AUTOMATION
1686.	USER AND ENTITY BEHAVIOR ANOMALY DETECTION
1687.	USING NEURAL NETWORKS FOR SENSOR VALIDATION
1688.	VACATION RENTAL NIGHTLY RATE ESTIMATION USING MACHINE LEARNING
1689.	VAISHNAVI MATHAVAN
1690.	VALIDATION OPTIMIZATION USING ML/NLP TECHNIQUES
1691.	VALUE STREAM MAPPING ANALYTICS SYSTEM FOR BUSINESS PROCESSES
1692.	VCENTER DIAGNOSTIC SUITE
1693.	VEHICLE SPEED LIMITER WITH COLLISION DETECTION BY GPS EMBEDDED SYSTEM
1694.	VEHICLE STATE ESTIMATION AND PATH PLANNING FOR AUTONOMOUS PERPENDICULAR PARKING
1695.	VHDL IMPLEMENTATION OF FREQUENCY HOPPING SPREAD SPECTRUM (FHSS) HAVING CONFIGURABLE FREQUENCY INPUTS
1696.	VIBRATION DIAGNOSIS OF ROTATING MACHINERY USING DEEP LEARNING TECHNIQUE
1697.	VIDEO SUMMARIZATION USING CNNs
1698.	VIRTUAL RETAIL STORE:SHOPINONECLICK
1699.	VIRTUAL WIRELESS NETWORK ADMIN
1700.	VIRTUAL YOGA AI ASSISTANT
1701.	VISUAL SEARCH ENGINE FOR ORACLE COMMERCE
1702.	VISUAL VOICE MAIL SERVICE ACROSS USER'S MULTIPLE DEVICES
1703.	VISUALIZATION OF PREDICTIVE ANALYSIS FOR FINANCIAL DATA
1704.	VOICE ACTIVATED POWER WINDOW OPERATING MECHANISM FOR AUTOMOBILE APPLICATION

S.No.	DISSERTATION TITLE
1705.	VOICE CONTROLLED ROBOTICS POWERED BY ALEXA
1706.	VOICE TONE ANALYSIS ON EARNING CALLS
1707.	VOPS AUTOMATION TOOL
1708.	WAREHOUSE STOCK VERIFIER
1709.	WATER DISTRIBUTION OPTIMIZATION
1710.	WCDMA TECHNOLOGY IMPLEMENTATION USING MATLAB
1711.	WEALTH REPORT BATCH PROCESSING
1712.	WEATHER AND POLLUTION TREND ANALYSIS USING PYTHON AND VISUALIZATION USING MICROSOFT POWER BI
1713.	WEATHER FORECASTING USING DATA MINING AND MACHINE LEARNING
1714.	WEB APPLICATION TO COLLECT DISPOSABLE PLASTIC AND FOOD
1715.	WEB AUTOMATION RESEARCH
1716.	WEB BASED AUTOMATION TESTING USING SELENIUM
1717.	WEB GUI FOR DEEP PACKET INSPECTION SOFTWARE
1718.	WEB LOG ANALYSIS FOR PRODUCTION SUPPORT
1719.	WEBSITE AUDIT: SEARCH ENGINE OPTIMIZATION
1720.	WIFI SNIFFER
1721.	WILDFLY (JBOSS) MIGRATION FACTORY
1722.	WIRELESS COMMUNICATION OF VEHICLE DATA
1723.	WIRELESS SENSOR NETWORKS OVER WIFI FOR USE IN HOME AND OUTDOORS
1724.	WORKLOG BOT - A SMART ASSISTANT
1725.	WORM SUPPORT
1726.	XGEN KIDS MONITORING SYSTEM
1727.	ZERO TOUCH COMMISSIONING OF TERMINAL GATEWAYS
1728.	ZIGBEE TECHNOLOGY AND ITS APPLICATION IN WIRELESS HOME AUTOMATION
1729.	ZORRIT-A ONLINE VIRTUAL REALITY SHOW/EVENT SHOPPING
	M.Tech. Design Engineering
1730.	3 AXIS WELDING MANIPULATOR OPTIMIZATION
1731.	A PERSONA BASED DESIGN EXPLORATION OF COSTOMIZABLE PROSTHETIC FOR HUMAN
1732.	A PRACTICAL APPROACH TO PROJECT SCHEDULING: CONSIDERING MULTIPLE CRITICAL PATH SCENARIOS IN PROJECT NETWORK
1733.	A REPORT ON OPTIMIZATION OF BIOGAS GENERATION FROM HOUSEHOLD WASTE
1734.	ALTERNATIVE MATERIAL FOR BLOWING AGENT IN RESIDENTIAL WATER HEATERS
1735.	ANALYSIS AND DESIGN ENHANCEMENT OF ELECTRONIC KIOSK'S PLASTIC COLUMN
1736.	ANALYSIS AND SIMULATION OF A 40000 TR DISTRICT COOLING PLANT
1737.	ANALYSIS AND STUDY OF SWIVEL SEAT FUNCTIONS IN AUTONOMOUS CARS
1738.	ANALYSIS OF BOILER TUBE RUPTURE AND SOLUTION
1739.	ANALYSIS OF THE SPRING FAILURES OF THE KELLY BARS OF PILING RIGS
1740.	ANALYZING AND SOLVING STRUCTURAL ISSUES OF EXPLORATION DRILL RIG
1741.	APPLICATION OF DESIGN FOR ADDITIVE MANUFACTURING (DFAM) IN THE GLOW PLUG PRODUCTION LINE
1742.	APPLICATION OF ROBOTICS FOR STACKED MATERIAL LOADING
1743.	AUTOMOBILE EXHAUST EMISSIONS AND CATALYTIC CONVERTER LIFE CYCLE ANALYSIS.
1744.	AUTOMOTIVE BLOWER MOTOR NOISE REDUCTION
1745.	AUTOMOTIVE LOAD FLOOR METAMODELING AND PARAMETRIZATION
1746.	BRACKET DESIGN TOPOLOGY EVOLUTION FOR ADDITIVE MANUFACTURING
1747.	BURST ESTIMATION OF AN AUTOMOTIVE AIR INTAKE MANIFOLD
1748.	CFD ANALYSIS OF HYBRID HEATING ELEMENT INSIDE A WATER HEATER
1749.	CFD ANALYSIS OF SOLAR AIR HEATER BASED ON POROUS MATERIAL
1750.	CFD ANALYSIS OF SOLAR DRIVE FOR IMPROVEMENT OF THERMAL PERFORMANCE
1751.	CHARGE BALANCE MODEL USING MATLAB
1752.	COMBINED ADBLUE AND DIESEL TANK IN PLASTIC
1753.	COMPARITIVE STUDY OF METAL ROLLER AND COMPOSITE ROLLERS PERFORMANCE IN WEB HANDLING MACHINES.
1754.	CONCEPTUALIZATION, DESIGN AND ANALYSIS OF GASEOUS HELIUM STORAGE VESSEL AT ITER-INDIA CRYOGENICS LABORATORY, IPR
1755.	CO-SIMULATION TO IDENTIFY STRUCTURAL STABILITY & GLASS FIBER MAPPING
1756.	CUSTOMIZED ELECTRO MECHANICAL ACTUATOR FOR MILITARY VEHICLE PLATFORM STABILIZATION APPLICATION
1757.	DESIGN & ANALYSIS OF BACK SPOT FACING TOOL

S.No.	DISSERTATION TITLE
1758.	DESIGN & ANALYSIS OF POWER REQUIREMENT, INVESTMENT & OPERATION COST FOR PIPE CONVEYOR IN COMPARISON TO CONVENTIONAL TROUGH BELT CONVEYORS
1759.	DESIGN & DEVELOPMENT OF FAST STEERING MIRROR (FSM) FOR LASER BEAM JITTER AND WANDER CORRECTION
1760.	DESIGN A COST EFFECTIVE SERVICE CART FOR CARRYING FAB'S HOIST BOOM, E-MOTOR AND VTM ROBOT
1761.	DESIGN ADVANCEMENT IN SHAFTS
1762.	DESIGN AND ANALYSIS OF ALUMINIUM WINCH DRUM
1763.	DESIGN AND ANALYSIS OF COMPATIBLE ENCLOSURES
1764.	DESIGN AND ANALYSIS OF COMPOSITE PLATE WITH REPAIR AND SOLUTIONS
1765.	DESIGN AND ANALYSIS OF FERRULES FOR FIRE TUBE TYPE WASTE HEAT BOILERS
1766.	DESIGN AND ANALYSIS OF FRP PASSENGER SEAT FOR RAIL
1767.	DESIGN AND ANALYSIS OF H2 PURGE SHOWER
1768.	DESIGN AND ANALYSIS OF JACKETED REACTOR VESSEL USING FEA TECHNIQUES
1769.	DESIGN AND ANALYSIS OF LEAF SPRING FOR A CAR CARRIER SUSPENSION SYSTEM
1770.	DESIGN AND ANALYSIS OF LIGHTWEIGHT MATERIALS FOR ELEVATOR APPLICATION
1771.	DESIGN AND ANALYSIS OF OFFSHORE PIPING SYSTEMS HAVING SLUG LOADS
1772.	DESIGN AND ANALYSIS OF OPTIMIZED VERTICAL TRANSPORT SYSTEM
1773.	DESIGN AND ANALYSIS OF PRESSURE VESSEL USING FINITE ELEMENT METHOD
1774.	DESIGN AND DEVELOPMENT OF CROSS BRACE FOR LAUNDRY WASHER
1775.	DESIGN AND DEVELOPMENT OF ELECTRICALLY OPERATED REVERSE TRIKE
1776.	DESIGN AND DEVELOPMENT OF MULTI FUNCTIONING WHEEL CHAIR
1777.	DESIGN AND DEVELOPMENT OF NEW WIFI BRACKET FOR HA WASHER
1778.	DESIGN AND DEVELOPMENT OF STALKING MACHINE FOR F-TYPE LAMINATION FOR ELECTRICAL TRANSFORMER
1779.	DESIGN AND DEVELOPMENT OF SURFACE TRIM WINDER
1780.	DESIGN AND DEVELOPMENT OF WELDING FIXTURE USING A COMPUTER AIDED SOFTWARE.
1781.	DESIGN AND IMPACT ANALYSIS OF FRONT BUMPER AND FRAME TO IMPROVE CRASH WORTHINESS
1782.	DESIGN AND OPTIMIZATION ENGINEERED VALVE ADAPTION BRACKET
1783.	DESIGN AND OPTIMIZATION OF AN ENCLOSURE FOR ELECTRONIC PACKAGING OF A SYSTEM
1784.	DESIGN AND OPTIMIZATION OF PIPE IN EXHAUST SYSTEM
1785.	DESIGN AND OPTIMIZATION OF WHEEL RIMS FOR NARROW TRACK AGRICULTURAL TRACTOR
1786.	DESIGN AND PACKAGING ANALYSIS WITH OPTIMIZATION OF A STABILIZER BAR FOR FRONT DRIVE VEHICLE
1787.	DESIGN AND TOPOLOGY OPTIMIZATION OF FRONT SUSPENSION SYSTEM OF THREE WHEELER VEHICLE
1788.	DESIGN IMPROVEMENT FOR STOPPING OIL LEAKAGE IN SHOCK ABSORBERS FOR PASSENGER CARS
1789.	DESIGN IMPROVEMENT OF STRONG ROOM DOOR FROM SUSTAINABILITY PERSPECTIVE.
1790.	DESIGN OF 3 AXIS CNC BROACH TEETH
1791.	DESIGN OF A FIXTURE TO CHARACTERIZE DRILL BIT USED IN CRANIAL SURGICAL PROCEDURES.
1792.	DESIGN OF DIGITAL FARMING TECHNIQUES FOR COCONUT FARM
1793.	DESIGN OF ELECTROMECHANICAL HORN
1794.	DESIGN OF ERGONOMIC CHAIR TO REDUCE FATIGUE OF A SURGEON.
1795.	DESIGN OF GLITTER PAPER COATING MACHINE
1796.	DESIGN OF LIGHTWEIGHT GOODS CARRIER CONTAINER FOR SMALL COMMERCIAL VEHICLE
1797.	DESIGN OF MONITORING SYSTEM FOR PRE-TREATMENT TANKS IN PAINT SHOP
1798.	DESIGN OF MOUNTING PLATE
1799.	DESIGN OF MUCK REMOVAL PLATFORM WITH A ROBOTIC MANIPULATOR FOR THE CONSTRUCTION OF PRESSURE SHAFT IN A DAM PROJECT
1800.	DESIGN OF ROBOTIC ARM FOR NOZZLE CLOSURE BONDING IN ROCKET ENGINE
1801.	DESIGN OF SEATING SYSTEM AND PACKAGE FEASIBILITY OF DRIVER "H" POINT. OF DRIVER
1802.	DESIGN OF SHAFT LOCKING DEVICE FOR INDUCTION MOTOR
1803.	DESIGN OF TRUCK RADIAL TYRE FOR MINING APPLICATION
1804.	DESIGN OPTIMISATION AND LTC ANALYSIS OF MULTISPEED GEARBOX FOR LOW NOISE BEHAVIOUR
1805.	DESIGN OPTIMIZATION OF GEAR SWING SUPPORT BRACKET
1806.	DESIGN OPTIMIZATION OF POWER DISTRIBUTION BOX BY CONDUCTING THERMAL ANALYSIS
1807.	DESIGN SOLUTION FOR VEHICLE BODY TRIM PARTS FAILURE DUE TO FATIGUE
1808.	DESIGN SOLUTION TO MINIMIZE THE BRAKE PULLING IN 5T TRUCK
1809.	DESIGN/ANALYSIS OF STAGE LIFTING FIXTURE WITH CG MEASUREMENT
1810.	DESIGNING SPARE WHEEL WELL IN CARBON FIBER REINFORCED PLASTIC MATERIAL

S.No.	DISSERTATION TITLE
1811.	DEVELOPMENT OF LOW TORQUE BALL BEARING USING POLYMER BASED LUBRICANT
1812.	DEVELOPMENT OF MOUNT BUSH FOR STEERING RACK
1813.	DEVELOPMENT OF WIND TURBINE GEAR BOX HOUSING FREE FROM TONALITY
1814.	DISPLAY INDICATOR ON BSG FUNCTIONALITY IN HYBRID VEHICLE SYSTEM
1815.	EFFECT OF CLIMATE ADAPTIVE FACADE DESIGN IN BUILT ENVIRONMENT
1816.	EFFECT OF CROSS HOLES GEOMETRY ON FLOW FORCES AND VALVE PERFORMANCE
1817.	EFFECT OF WIND TOWER FLANGE IMPERFECTION ON BOLT PRE LOADING AND SHELL BUCKLING.
1818.	EFFECTIVE MECHANICAL FASTENING FOR PLASTIC
1819.	EFFECTS OF ADDING CARBON FIBER TO UNPLASTICISED POLYVINYL CHLORIDE (UPVC) ON ITS MECHANICAL AND CHEMICAL PROPERTIES
1820.	EFFECTS OF THE STIFFNESS OF THE PLANET CARRIER IN A WIND TURBINE GEAR BOX
1821.	EFFICIENCY IMPROVED IN HEAT/DEFROST CYCLE IN TRANSPORT REFRIGERATION SYSTEM
1822.	ELASTIC MODULUS CORRECTION FOR CONNECTOR LATCHES
1823.	ELIMINATION(REPLACING) OF LANDING GEAR IN AIR VEHICLE WITH PRINCIPLE OF MAGNETIC ATTRACTION AND REPULSION
1824.	ENHANCING HIL WITH BRAKE SYSTEM FOR ADVANCED CHASSIS VALIDATION
1825.	ENSURING THE SAFE BOARDING AND DEBOARDING OF PASSENGERS FROM THE DOORS OF METRO TRAIN COACHES
1826.	EVALUATION OF THERMAL CAPACITY AND ADEQUACY OF CLUTCH ASSEMBLY DESIGN FOR AN AUTOMOTIVE VEHICLE APPLICATION USING ROAD LOAD DATA (RLD) FOR CITY APPLICATION
1827.	FAILURE ANALYSIS OF SEIZED V8 ENGINE OF DG SET
1828.	FEA OF KNUCKLE
1829.	FEA OF PITMAN ARM
1830.	FEA OF RADIAL TYRE
1831.	FITNESS FOR SERVICE ASSESSMENT OF PRESSURE VESSELS , PIPING , STORAGE TANKS IN OIL AND GAS .
1832.	FRACTURE MECHANICS APPROACH TO PRESSURE VESSEL DESIGN
1833.	GENERATION OF SUPER ELEMENT(INTERNAL PROCEDURE) USING ANSYS CUSTOMIZABLE TOOL IN ANSYS WORKBENCH AND GENERATION OF ADDITIONAL TOOLBARS
1834.	GREEN STRATEGY - DESIGNING OF DESALINATION PLANT WITH LOW ENERGY CONSUMPTION/REDUCTION OF CARBON FOOT PRINT
1835.	HANDHELD DISHWASHER
1836.	HEAT TRANSFER AND FLUID CHARECTAERISTICS OF ARC SHAPED PROTRUDED SOLAR AIR HEATER
1837.	IMPROVING BACK FRAME STRENGTH TO PASS ECE R17 REGULATION
1838.	IMPROVING THE SERVICE CALL MANAGEMENT
1839.	IMPROVISATION OF DESIGN & COOLING EFFICIENCY OF EXISTING LRU ENCLOSURE FOR A MULTIROLE FIGHTER AIRCRAFT
1840.	INDIA LOCALIZATION OF EXCAVATOR BUCKET WITH DESIGN CHANGE FOR MODULARISATION, ROBUSTNESS & ENHANCE SERVICEABILITY
1841.	INSTALL FROM BELOW CEILING APPLICATION LED DOWNLIGHT
1842.	INTERPRETATION AND APPLICATION OF "DESIGN BY ANALYSIS METHOD" AND 3D STRESS CRITERIA FOR PRESSURE VESSELS TO QUALIFY ITS COMPLIANCE TO ASME USING FINITE ELEMENT ANALYSIS THAN THE CONVENTIONAL DESTRUCTIVE PRESSURE TESTING
1843.	INVESTIGATION AND CLOSURE OF BEND AND BOW PROBLEM OF CHASSIS FRAME
1844.	LIFE CYCLE ASSESMENT OF ELEVATOR CABIN
1845.	LIFE CYCLE ENRICHMENT AND NEXT GENERATION OF PAPER MACHINE
1846.	LIFT AXLE CONTROL VALVE GEN ELECTRONIC VERSION
1847.	MANAGER R&D
1848.	MECHANICAL DESIGN OF PRESSURE VESSEL USING ASME CODES AND OPTIMIZATION OF BODY FLANGE
1849.	MEP COORDINATION IN BUILDING ENGINEERING
1850.	MODEL ANALYSIS OF CAR CHASSIS USING ANSYS
1851.	MODELING ANALYSIS OF WIND TURBINE BLADE
1852.	MODELING AND SIMULATING HIGH MACHINING OPERATION USING ALE AND SPH METHOD
1853.	MODELLING OF FINITE ELEMENT AND THERMAL EXPANSION ANALYSIS IN COMPOSITE CIRCULAR BARS
1854.	MODULAR SWIVEL MECHANISM
1855.	MONITORING AND CONTROL OF A VARIABLE FREQUENCY DRIVE USING PLC AND SCADA
1856.	NEW CONCEPT DESIGN FOR PRIMARY SAMPLER
1857.	NEW PRODUCT INTRODUCTION- DESIGN & DEVELOPMENT OF 32L MICROWAVE
1858.	NUMERICAL PREDICTION OF TWO PHASE FLOW FIELD IN SUMP AND AIR ENTRAINMENT IN THE PUMP INTAKE

S.No.	DISSERTATION TITLE
1859.	NUMERICAL SIMULATION OF SOLIDIFICATION AND MELTING PROBLEMS USING ANSYSFLUENT
1860.	NVH IMPROVEMENT OF BUSES BY COMPUTER AIDED ANALYSIS
1861.	OPTIMAL ANALYSIS OF POWER SYSTEM FOR GAS PLANT USING COMPUTATIONAL TOOLS
1862.	OPTIMISATION OF PLATE THICKNESS, LOAD DISTRIBUTION AND ANCHOR BOLT OPTIMISATION IN LONG VERTICAL PRESSURE VESSEL
1863.	OPTIMIZATION OF AIR ENTRAINMENT IN RACK HOUSING COMPONENT THROUGH FLOW ANALYSIS
1864.	OPTIMIZATION OF COMPRESSOR FOR PASSENGER CAR AIR CONDITIONING SYSTEM
1865.	OPTIMIZATION OF FRICTION MATERIALS USED IN SINGLE PLATE AXIAL CLUTCHES
1866.	OPTIMIZATION OF LAMINATION JOINTS ON FIBER GLASS PIPING SYSTEMS
1867.	OPTIMIZATION OF PERFORMANCE IN PLANETARY GEARBOX BASED ON DIFFERENT LUBRICANTS USING CFD (COMPUTATIONAL FLUID DYNAMICS) IN ANSYS AND EXPERIMENTAL TESTS
1868.	OPTIMIZATION OF PROJECT CONSTRUCTION TIME AND COST USING BUILDING INFORMATION MODELLING
1869.	OPTIMIZED DESIGN SOLUTION FOR ROAD NOISE PERFORMANCE IMPROVEMENT
1870.	OPTIMIZED EARTHGRID DESIGN FOR WIND FARMS USING FEM IN ETAP
1871.	OPTIMIZING STEAM ECONOMY OF MEE BY CHANGING HEATING SURFACE DESIGN FROM TUBE TO LAMELLA AND USING THERMAL DESIGN CONCEPT.
1872.	PARTS INTEGRATION & LIGHT WEIGHTING USING ADDITIVE MANUFACTURING
1873.	PASSENGER BUS BODY, DESIGN OPTIMIZATION THROUGH FINITE ELEMENT METHODS, CONSIDERING OCCUPANTS SAFETY, VEHICLE CRASHWORTHINESS AND COST
1874.	PERFORMANCE ANALYSIS OF EXISTING PRESSURE SAFETY VALVE ON INLET SEPARATOR IN PLATFORM USING CFD
1875.	PLASTICIZATION OF COOLANT HOSES
1876.	PLC BASED AUTOMATED IRRIGATION SYSTEM
1877.	PLM FOR PROCESS INDUSTRY
1878.	PREDICTION OF AERODYNAMIC DRAG OF TYPICAL AHMED BODY EXTERIOR USING MACHINE LEARNING TECHNIQUES
1879.	PROCESS AUTOMATION TO REDUCE THE LEAD TIME IN CYLINDER REQUALIFICATION PROCESS
1880.	PROCESS IMPROVEMENT-CREATION AND EVALUATION OF PROCESS ALTERNATIVES
1881.	PRODUCT DESIGN FOR INCUBATED GEL CARDS AND TEST TUBE FOR MEDICAL PURPOSES
1882.	PRODUCT DEVELOPMENT OF WATER FILTERS FOR RESIDENTIAL WATER PURIFIERS
1883.	PRODUCTIVITY IMPROVEMENT THROUGH THE IMPLEMENTATION OF OLE FOR HCEAL
1884.	PRODUCTIVITY IMPROVEMENT TO ACHIEVE THE PRODUCTION TARGET OF SIXTEEN HYDRAULIC CRAWLER EXCAVATORS PER DAY USING VSM
1885.	PROJECT MANAGEMENT IN VALUE ENGINEERING FOR DIESEL ENGINES
1886.	PROJECT ON BURSTING DISC ANALYSIS
1887.	PROXIMITY SENSOR FAILURE ANALYSIS AND SOLUTION FOR THE FAILURE
1888.	REPAIR EVALUATION OF CESSNA AIRCRAFT
1889.	RESEARCH ON PLANTER FASCIITIS AND SOLUTION TO IMPROVE PATIENT OUTCOMES
1890.	RESULTS OF THERMAL ANALYSIS ON FIBRE REINFORCED PLASTIC MATRIX COMPOSITE MATERIALS
1891.	SEALING EFFICIENCY PREDICTION IN PNEUMATIC SEALS IN WIDE OPERATING CONDITIONS
1892.	SEISMIC BASE ISOLATION OF BUILDINGS
1893.	SELECTION, ANALYSIS AND INTEGRATION OF AUTOMOTIVE EXHAUST SYSTEM DECOUPLING ELEMENT
1894.	SHIPPING CARGO RETENTION HOOK DESIGN IMPROVEMENT METHODOLOGY DEVELOPMENT AND VALIDATION USING TOSCA
1895.	SIMULATION OF HOT GAS BEHAVIOUR DURING INTERNAL ARC IN MEDIUM VOLTAGE SWITCHGEAR
1896.	SIMULATION OF THE DYNAMIC BEHAVIOR OF VISIBLE EMISSION LINE CORONA GRAPH ON BOARD ADITYA L1
1897.	SIMULATION OF THE DYNAMIC BEHAVIOUR OF NEAR UV TRANSIENT SURVEYOR
1898.	SIMULATION TO OPTIMIZE CAR BONNET
1899.	SOFTWARE TOOL FOR THE DESIGN OF BELT CONVEYOR
1900.	STEERING PERFORMANCE EVALUATION BY OPTIMIZATION OF STEERING GEOMETRY PARAMETERS AND REDUCTION IN STEERING EFFORT
1901.	STRESS ANALYSIS OF PIPING SYSTEM
1902.	STRESS CATEGORIZATION OF STIFFENERS FOR RECTANGULAR TANKS
1903.	STRUCTURAL ANALYSIS OF MAIN GEAR BOX TEST RIG FOR HELICOPTER
1904.	STRUCTURAL OPTIMIZATION OF BATTERY BOX
1905.	STRUCTURE DESIGN AND OPTIMIZATION OF POWER TRANSFORMER TANK
1906.	STRUT VALVE DESIGN AND PERFORMANCE IMPROVEMENT BY REPLACEMENT OF HYDRAULIC REBOUND STOPPER WITH TUNED RUBBER STOPPER IN A SEDAN CAR
1907.	STUDY & EXPERIMENTAL DEVELOPMENT OF MINERAL CASTING SEEK FOR MECHANICAL, THERMAL

S.No.	DISSERTATION TITLE
	PROPERTIES.
1908.	STUDY OF BIO-MIMICRY IN AVIATION AND PROPOSE WORKABLE SOLUTIONS FOR MILITARY AVIATION
1909.	STUDY OF HIGH RISE BUILDINGS FOR VARYING WIND PRESSURE
1910.	STUDY OF STRENGTH AND FRACTURE OF FUSED DEPOSITION MODELING (FDM) PARTS UNDER FLEXURAL LOADING USING STIFFENERS
1911.	STUDY ON E-MOBILITY AND CHARGING INFRASTRUCTURE IN INDIA
1912.	STUDY ON TRIBOLOGY OF WIND TURBINES
1913.	STUDY THE EFFECT OF AXIAL SLITTING ON PULLOUT STRENGTH OF INCOLOY TUBE ROLLED OUT.
1914.	SUSPENSION BUSHING WITH DUAL DYNAMIC TO STATIC RATIO
1915.	THERMAL ANALYSIS ON ELECTRONICS CABINET TRAY OF HEMODIALYSIS RECHARGING SUBSYSTEM USING ANSYS ICEPAK
1916.	THERMAL BASED FINITE ELEMENT ANALYSIS OF EXHAUST MANIFOLD IN GASOLINE ENGINE
1917.	TO STUDY AND EVALUATE THE EFFECT OF METALLURGICAL PROPERTIES THROUGH DIRECT QUENCHING PROCESS IN CLOSED DIE FORGING
1918.	TOPOLOGY AND GAUGE OPTIMIZATION OF B-PILLER
1919.	TOPOLOGY AND SHAPE OPTIMIZATION OF IC ENGINE MAIN BEARING CAP
1920.	TORSIONAL VIBRATION ANALYSIS OF THE VERTICAL MILL GEAR UNIT
1921.	TRAJECTORY MAPPING OF LAUNCH VEHICLE
1922.	TRANSIENT THERMAL ANALYSIS OF HP TURBINE OF R&M PROJECT.
1923.	TROUBLE SHOOTING, DEVELOPMENT, & PRODUCTLIFE ENHASEMENT OF PULPER
1924.	TROUBLESHOOTING AND OPTIMIZATION OF HEAT EXCHANGER
1925.	VACUUM SUPPORTED JIB CRANE
1926.	VAVE (VALUE ADDED VALUE ENGINEERING) DESIGN OF AUTOMOBILE AIR INTAKE HOSE USING CAD & CAE TOOLS
1927.	VENTRICLE ASSIST DEVICE
1928.	WEIGHT OPTIMIZATION OF AN AUTOMOBILE BUMPER SYSTEM
1929.	WEIGHT OPTIMIZED WHEEL HUB DESIGN FOR OFF HIGHWAY VEHICLE (OHV) WHEELS
	M.Tech. Computing Systems and Infrastructure
1930.	1G REAL TIME ETHERNET PACKET SNIFFER BASED ON SITARA (AM6XX) PRU-ICSS
1931.	A NOVEL APPROACH FOR MULTIMEDIA HIGHLIGHTS SUMMARIZATION OF PERSONALIZED CRICKETEER
1932.	A NOVEL APPROACH OF ENERGY EFFICIENT AND SECURE ROUTING IN WIRELESS SENSOR NETWORKS
1933.	A NOVEL METHOD OF CODE CHANGE BASED INTELLIGENT TEST RECOMMENDATION
1934.	A SECURE NETWORK ARCHITECTURE FOR THE INTERNET OF THINGS BASED ON LOCAL SERVER
1935.	A STUDY INTO THE DEVIATION IN ACTUAL PRINTER USAGE FROM THE EXPECTED AND DERIVING THE IDEAL COVERAGE FOR A DEVICE
1936.	ADVERTISER FEED INTEGRATION FOR DYNAMIC ADS
1937.	AIRPORT PERFORMANCE ANALYZER IN CLOUD
1938.	AN AUTOMATED FRAMEWORK FOR READING DATE FROM INDIAN CHEQUES USING AI (ICR/OCR)
1939.	ANALYSIS OF PERF DATA TO ACHIEVE BRANCH PREDICTION OPTIMIZATION
1940.	ANOMALY DETECTION IN TIME-SERIES DATA
1941.	APP STORE FOR HEALTH CARE PLATFORM AND AUTOMATING THE HOSPITAL WORK FLOW
1942.	APPLICABILITY OF IOT IN NCW
1943.	AREA SURVEILLANCE USING DRONES
1944.	AUTOMATED MANAGED POWER SYSTEM
1945.	AUTOMATING ISOLATION OF INFECTED HOSTS FROM NETWORK ENVIRONMENT AND IDENTIFYING NETWORK DEVICES RUNNING VULNERABLE VERSIONS
1946.	AUTOMATION OF ENDPOINT APPLICATION DEPLOYMENT IN VARIED CONFIGURATIONS FOR ENDTOEND TESTING
1947.	AUTOMATION OF KUBERNETES USING NSX-T FOR NETWORKING
1948.	AUTOMATION OF MPLS ENTERPRISE SERVICE DELIVERY SOLUTIONS
1949.	AUTOMATION ON ENTERPRISE FILE TRANSFER TOOLS (MIDDLEWARE TECHNOLOGIES)
1950.	AUTOMATION TO HELP IT HELPDESK
1951.	AUTOMATION USING SHAREPOINT WORKFLOW
1952.	BATCH COMPUTING AUTOMATED RESOURCE POOL CREATION
1953.	BLOCKCHAIN WITH IOT AND MACHINE LEARNING IN AGRICULTURE FIELD
1954.	BUILDING OTT PLATFORM FOR CONTENT STREAMING
1955.	CAMPUS NETWORK DESIGN AND IMPLEMENTATION
1956.	CLOUD AND INTERNET OF THINGS INFRASTRUCTURE, AN EDGE IN MODERN BATTLE FIELD
1957.	CLOUD BASED INFRASTRUCTURE MONITORING TOOL SELECTION, EVALUATION & IMPLEMENTATION

S.No.	DISSERTATION TITLE
1958.	CLOUD BASED INTEGRATED SURVEILLANCE AND COMMUNICATION ARCHITECTURE FOR BATTLEFIELD
1959.	CLOUD COMPUTING SECURITY AND PRIVACY
1960.	CLOUD DEPLOYMENT ENGINE
1961.	CLOUD EVALUATION AND WORKLOAD MIGRATION
1962.	CLOUD MIGRATION APPROACH & CLOUD OPERATIONS
1963.	CLOUD-BASED DEVELOPS PIPELINE WITH AI POWERED INCIDENT MANAGEMENT
1964.	CONTENT SCANNING WITH CLOUD
1965.	CREATING A CI/CD AND AGILE INFRASTRUCTURE
1966.	CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING TECHNIQUES
1967.	CROSS CLOUD ARCHITECTURE USING MICROSERVICES
1968.	CUSTOMER SERVICES PORTAL DESIGN & IMPLEMENTATION ON AZURE CLOUD
1969.	DATA CENTRE MANAGEMENT UNIT
1970.	DATA SECURITY IN CLOUD
1971.	DATABASE PLATFORM AS A SERVICE (DB PAAS) ON PRIVATE CLOUD
1972.	DATAMEER TO GREENPLUM MIGRATION USING POSTGRESQL
1973.	DEPLOYMENT OF DEVOPS PRACTICES FOR CORPORATE BUSINESS APPLICATION DEVELOPMENT
1974.	DESIGN AND ARCHITECTURE OF STORAGE SYSTEMS (FILE /BLOCK).
1975.	DESIGN AND ARCHITECTURE SD-WAN
1976.	DESIGN AND IMPLEMENTATION OF AN END-TO-END STRATEGY FOR THE REDUCTION OF RTO (RECOVERY TIME OBJECTIVE) AS PART OF BCP / DR PLAN FOR A COMPLEX 3 TIER APPLICATION
1977.	DESIGN AND OPERATION OF MODULAR UNDERWATER DATACENTER
1978.	DESIGN OF DATA CENTER AND COMMAND CONTROL CENTER FOR INTEGRATED SECURITY SOLUTION
1979.	DESIGNING AND IMPLEMENTING AWS SECURITY
1980.	DESIGNING BUILDING AND EXECUTION OF CONVERGED ARCHITECTURE SOLUTION FROM SILOS COMPUTE WORKLOAD
1981.	DESIGNING DATA CENTER, HIGH PERFORMANCE COMPUTING CLUSTER AND STORAGE SOLUTION FOR HPC APPLICATIONS AND AUTOMATING HPC INSTALLATION AND LUSTRE INSTALLATION WITH ZFS
1982.	DESIGNING, SETTING UP AND FINE TUNING A SECURITY OPERATIONS CENTER (SOC)
1983.	DEVELOPMENT OF GENOMIC REPOSITORY OF NATIVE CATTLE
1984.	DEVELOPMENT OF MICROCONTROLLER BASED UNIVERSAL CABLE TESTER FOR MAJOR CABLES OF MODERN GUNS
1985.	DEVOPS LIFECYCLE AUTOMATION FOR SAAS APPLICATION
1986.	DEVOPS TECHNIQUES FOR EFFECTIVE UTILIZATION OF HARDWARE FOR COMPILER PERFORMANCE TESTING
1987.	DISK SPACE OPTIMIZATION BY LEVERAGING DE-DUPLICATION OF BACKUP DATA
1988.	DOCKER SWARM ORCHESTRATION
1989.	DRIVER DROWSINESS DETECTION USING IOT
1990.	DYNAMIC NETWORK TOPOLOGY AND MANAGER
1991.	DYNAMIC VISUAL HOLISTIC METHOD OF RECOVERY: COGNITIVE INTELLIGENCE
1992.	ELK IMPLEMENTATION WITH TCP/IP TRAFFIC DATA
1993.	END TO END IOT APPLICATION WITH AWS
1994.	ENERGY MONITORING& CONTROLLING SYSTEM USING IOT
1995.	ENERGY THEFT DETECTION IN ADVANCED METERING INFRA USING IOT
1996.	ENGAGEMENT PULSE
1997.	EXPLORING CONTAINER NETWORKING AND ANALYSING HOW IT'S CHANGING TRADITIONAL NETWORKING
1998.	FACE ANTI-SPOOFING VIA SIAMESE NETWORK FOR THE EXPRESSIONS SWITCH DEMAND BY AN APPLICATION
1999.	FOORPRINT REDUCTION (H/W REFRESH) WITH TECHNOLOGY UPGRADE
2000.	GATEPASS SYSTEM
2001.	GENERAL DATA PROTECTION REGULATION AUDIT AND CONSULTING
2002.	GOOGLE PREEMPTIBEL VMS VS AMAZON SPOT INSTANCES A COMPARATIVE STUDY
2003.	HARDWARE SIZING SOLUTION FOR ENTERPRISE MICROSOFT SQL SERVER CONFIGURATIONS
2004.	HOME/OFFICE AUTOMATION USING IOT AND CHATBOT
2005.	IMPLEMENTATION & COMPARATIVE ANALYSIS OF META-HEURISTIC TECHNIQUES FOR OPTIMIZATION OF RESOURCE SCHEDULING IN CLOUD COMPUTING
2006.	IMPLEMENTATION OF NETWORK SECURITY
2007.	IMPLEMENTATION OF STATIC APPLICATION SECURITY AND DYNAMIC APPLICATION SECURITY SCANS IN CI/CD PIPELINE
2008.	IMPLEMENTING CI/CD PROCESS FOR DESKTOP APPLICATION PROJECTS

S.No.	DISSERTATION TITLE
2009.	IMPROVEMENT IN PACKET DELIVERY RATIO USING GENETIC ALGORITHM AND FUZZY LOGIC IN CLUSTERING ALGORITHM OF WIRELESS SENSOR NETWORKS.
2010.	INCREASING CLOUD RELIABILITY WITH EFFECTIVE REPLICATION AND VIRTUAL MACHINE ALLOCATION POLICY
2011.	INDIAN INSTITUTE OF MANAGEMENT LUCKNOW
2012.	INDUSTRY STANDARD CLOUD-NATIVE ENTERPRISE APPLICATION DEPLOYMENT
2013.	INFRASTRUCTURE AS CODE
2014.	INFRASTRUCTURE AS CODE - TERRAFORM WITH AWS
2015.	INTEGRATING SATELLITE BASED NETWORKS TO IMPROVE RELIABILITY AND PERFORMANCE OF ISPS
2016.	IOT BASED BIOMETRIC CREDENTIAL MANAGEMENT
2017.	IOT BASED SMART AGRICULTURE MONITORING SYSTEM
2018.	IOT FOR EFFICIENT IRRIGATION SYSTEM IN ARID AND SEMI-ARID REGIONS
2019.	IT INFRA AUTOMATION WITH ANSIBLE AND DEVOPS TOOLS
2020.	IT INFRASTRUCTURE MANAGEMENT
2021.	ITSM SERVICE OPERATIONAL READINESS AND TRANSITION PROCESS
2022.	KUBERNETES CONTAINER ORCHESTRATION
2023.	LIGHTWEIGHT DOCKER CONTAINERIZATION IN A STATE-OF-THE-ART PCI-DSS ECOMMERCE PLATFORM
2024.	LOCALIZED FOLDER SYNCHRONIZATION LIBRARY FOR ANDROID DEVICES
2025.	LOCATION BASED ADVERTISEMENT AND CONSUMER BEHAVIOR PATTERN ANALYSIS
2026.	LOGS SECURING SYSTEM FOR CLOUD FORENSICS
2027.	MAINTENANCE MANAGER FOR AIRFIELD NAVIGATIONAL AIDS
2028.	MANAGING INFRASTRUCTURE USING DEVOPS
2029.	MEDIUM RANGE GESTURE RECOGNITION USING MMWAVE RADAR AND DEEP LEARNING.
2030.	MESSENGER PLATFORM USING MACHINE LEARNING
2031.	METADATA DRIVEN ARTIFICIAL INTELLIGENCE BASED KEY AGREEMENT ALGORITHM FOR SECURE COMMUNICATION
2032.	MIGRATING ON PREM SQL SERVER DATABASE INSTANCE TO AZURE CLOUD
2033.	MIGRATION OF CLOUD FROM PRIVATE TO PUBLIC
2034.	MODERNIZE LEGACY APPLICATION TO CLOUD WITH CI-CD PIPELINE
2035.	MODERNIZING CLOUD DATACENTERS WITH HYPERSCALE, SOFTWARE-DEFINED AND DYNAMIC INFRASTRUCTURES
2036.	MPLS TRANSIT CORE NETWORK
2037.	NETWORK AUTOMATION
2038.	NEW TECHNIQUES FOR INVESTIGATION OF CYBER CRIME
2039.	NEXTGEN OPERATION CENTER
2040.	OMNICHANNEL VIRTUAL RECEPTIONIST FOR ENHANCED CX USING AI
2041.	OPEN SOURCE INTELLIGENCE: EXTRACTION AND ANALYSIS
2042.	OPTIMIZE CLOUD COMPUTATIONS USING EDGE COMPUTING
2043.	OPTIMIZING AND SCALING: SOFTWARE DEFINED VIRTUALIZED WAN AND DATA CENTRE
2044.	OS WATCHER PROACTIVE ANALYZER
2045.	P2V VIRTUALISATION IMPLEMENTATION
2046.	POST QUANTUM CRYPTOGRAPHIC (PQC) ALGORITHMS, VIABILITY AND PERFORMANCE COMPARISON IN CONSTRAINED DEVICES.
2047.	POTENTIAL OF IOT TECHNOLOGY IN DEFENCE FORCES AND SUGGESTED FRAME WORK TO IMPLEMENT
2048.	PREDICT FORECLOSURE OF LOAN
2049.	PREDICTION OF CUSTOMER CHURN USING MACHINE LEARNING
2050.	PREDICTIVE ANALYSIS OF MAINFRAME DISK RESPONSE TIME
2051.	PRE-PRODUCTION CANARY BASED AUTOMATED TESTING OF CLOUD ARTIFACTS (APPROACH TO CONTINUOUS DEPLOYMENT)
2052.	PROACTIVE DEFENSE SYSTEM - INSIGHTS
2053.	PROTOTYPING HYBRID SOFTWARE DEFINED NETWORK FOR NEXT GENERATION DATA CENTERS
2054.	PROVIDING SECURITY AND OPTIMAL PERFORMANCE BY DIVISION OF DATA IN CLOUD COMPUTING
2055.	REALISTIC TRAFFIC GENERATOR FOR PERFORMANCE MANAGEMENT IN OPENSTACK NFV DEPLOYMENTS.
2056.	REALIZATION OF NARROWBAND IOT THROUGH SCEF IN CELLULAR NETWORKS
2057.	REINFORCEMENT LEARNING BASED ON IOT WITH CLOUD FOR SMART HOME AUTOMATION
2058.	REMOTE NETWORK ADMINISTRATION
2059.	ROOT CAUSE ANALYSIS USING ARTIFICIAL INTELLIGENCE
2060.	SALES AUTOMATION

S.No.	DISSERTATION TITLE
2061.	SANKARA NARAYANAN HARINARAN
2062.	SCHEME MANAGEMENT SYSTEM (SOFTWARE ARCHITECTURE DESIGN) Å€ SOCIAL JUSTICE & EMPOWERMENT DEPARTMENT, GOVT OF RAJASTHAN
2063.	SD-WAN & MANAGED SWITCHES
2064.	SECURING FIRMWARE UPDATES FOR IOT DEVICES USING PERMISSIONED BLOCKCHAIN
2065.	SECURITY CHALLENGES IN AZURE AND THEIR POSSIBLE SOLUTIONS
2066.	SECURITY IN HETEROGENEOUS CLOUD
2067.	SECURITY INFORMATION AND EVENT MANAGEMENT
2068.	SERVERLESS COMPUTING- VIDEO SHARING WEBSITE
2069.	SERVICE FUNCTION CHAINING OF CONTAINER BASED VNF
2070.	SETTING UP INFRA MONITORING USING PROMETHEUS AND GRAFANA DASHBOARD
2071.	SETUP A DEVOPS PIPELINE FOR APPLICATIONS, DATABASE AND INFRASTRUCTURE CHANGES/PATHING USING DEVOPS TOOLS IN AMAZON WEB SERVICES CLOUD ENVIRONMENT.
2072.	SLACK CHAT BOT TO POST CLOUD WATCH ALARMS: EXPLORING AWS LAMBDA SERVER LESS COMPUTING.
2073.	SMART DEPLOYMENT AND CONFIGURATION MANAGER
2074.	SMART IRRIGATION SYSTEM USING IOT
2075.	SOCIAL MEDIA MONITORING AND ANALYSIS IN INSURGENCY/DISTURBED AREAS FOR INDIAN ARMY
2076.	SOFTWARE CONFIGURATION MANAGEMENT SERVICES ON CLOUD USING AWS AND DEVOPS
2077.	SPAM MAIL CLASSIFICATION USING MACHINE LEARNING
2078.	STUDY OF MULTI-CLOUD SOLUTIONS FROM INFRASTRUCTURE TO APPLICATIONS ACROSS PUBLIC, PRIVATE AND HYBRID CLOUDS
2079.	SYNTHETIC FINANCIAL DATA FOR FRAUD DETECTION
2080.	TACTICAL NETWORK EMULATION PLATFORM USING VIRTUALIZATION
2081.	TESTING AND EFFICIENCY ANALYSIS OF MULTIPLE DECEPTION TECHNIQUES IN COMPUTER SECURITY
2082.	TITLE DESIGN, MIGRATION AND OPERATIONS OF DATA CENTER
2083.	TO FIX VULNERABILITIES IDENTIFIED IN PENETRATION TESTING ON VARIOUS WINDOWS PLATFORM FOR SECURITY AND COMPLIANCE
2084.	TRAFFIC ANALYSIS AND DEEP PACKET INSPECTION
2085.	TRAINING SELF DRIVING CARS USING MACHINE LEARNING
2086.	TRANSFORMATION AND REFRESH OF THE END-OF-LIFE NETWORK DEVICES.
2087.	TWITTER DATA ANALYSIS TO VALIDATE AND DETERMINE IMPORTANT TWEETS
2088.	UNDERSTAND PUBLICS INCLINATION USING NLP
2089.	UNIFIED SYSTEM MANAGEMENT TOOL
2090.	USAGE-PATTERN BASED OPTIMIZATION OF CLOUD RESOURCES
2091.	VIRTUALIZATION OF DATACENTRE-PRIVATE CLOUD (IAAS)
2092.	VM MIGRATION - VMWARE TO OPENSTACK
2093.	VOICE RECOGNITION FOR TELECOM NETWORKS
2094.	VPN AS A SERVICE
2095.	WINDCHILL ARCHIVING
2096.	WORKLOAD CROSS-DATACENTER MIGRATION
2097.	WRITE BLOCKER FOR CYBERFORENSIC WORK
	M.Tech. Quality Management
2098.	A FRAMEWORK OF ELECTRONIC MAINTENANCE MANAGEMENT SYSTEMS FOR AIRCRAFT
2099.	ACTIVE QUALITY CONTROL OF AIRCRAFT CONTINUING AIRWORTHINESS DATABASE
2100.	ALTERNATIVE ALIGNMENT OPTION STUDY AND DECISION ANALYSIS FOR FINALIZATION OF ROAD CONNECTIVITY THROUGH GREEN FIELD STRETCH FROM BILE TO MIGGING IN THE STATE OF AURANCHAL PRADESH
2101.	ANALYSING THE COST OF QUALITY IN MANUFACTURING UNITS THROUGH TQM
2102.	ANALYSIS AND PERMANENT RESOLUTION OF CONTINUITY ISSUE IN ROTA CONNECTORS AT ELEVATED REFLOW TEMPERATURE
2103.	ANALYSIS OF BEARING FAILURE IN ARTOUSTE IIB AERO-ENGINE
2104.	ANALYSIS OF FAILURE OF SET OF M-SERIES HELICOPTERS VIS-A-VIS LIFE EXTENSION
2105.	ANALYSIS OF FURIOUS ACTIVATION OF FIREFIGING SYSTEM MI SERIES HELICOPTERS
2106.	ANALYSIS OF HIGH FAILURE RATE OF PNEUMATIC COMPONENT IN MI SERIES HELICOPTER
2107.	ARTIFICIAL INTELLIGENCE IN VIDEO SURVEILLANCE SYSTEM
2108.	AUTOMATED CALIBRATION MANAGEMENT SYSTEM
2109.	AVERAGE RESOURCE COST REDUCTION PROCESS
2110.	BLENDED LEARNING MODEL: LEARNING AND DEVELOPMENT FRAMEWORK FOR EMERGING COMPETENCIES AND TECHNOLOGIES

S.No.	DISSERTATION TITLE
2111.	CONTRACTORS PERFORMANCE MEASUREMENT USING PROJECT MANAGEMENT PRINCIPLES AND QUALITY KPIS FOR ROAD PROJECTS
2112.	CORROSION & COATING PROCESS IN STEEL STRUCTURE SURFACE AND FINISH STANDARDS
2113.	COST OPTIMIZATION & MONITORING OF PACKAGING MATERIAL IN PAPER INDUSTRY
2114.	CUSTOMER COMPLAINT REDUCTION THROUGH STRATEGIC MANAGEMENT FRAMEWORK, ISSUE TREE METHODOLOGY & RISK BASED THINKING
2115.	DASHBOARD FOR CENTRALIZED DATA FOR MANAGEMENT
2116.	DATABASE SYSTEM
2117.	DEFECT DEDUCTION IN 3 ROLL CALENDER PROCESS(TYRE MANUFACTURING PROCESS)
2118.	DERIVE A METHODOLOGY TO STUDY CUSTOMER COMPLAINT FOR AUTOMOBILES
2119.	DESIGN A QUALITY MANAGEMENT SYSTEM AND QUALITY CULTURE FOR HAR GHAR BIJALI YOJNA "SAUBHAGAYA RAIBAREILLY-PROJECT (UP)
2120.	DESIGN A QUALITY MANAGEMENT SYSTEM FOR A GREEN FIELD PHARMACEUTICAL MANUFACTURING PROJECT
2121.	DESIGN AND DEVELOPMENT OF A PROCESS FOR QUALITY MANAGEMENT SYSTEM TO EVALUATE OF AN ORGANIZATION'S PERFORMANCE
2122.	DESIGN AND MANUFACTURING OF CONVEYOR BELT USING QUALITY MANAGEMENT SYSTEM
2123.	DESIGN OF BOILER HEADER JOINTS/WELDS IN ONCE THROUGH SUPERCRITICAL PRODUCTS
2124.	DESIGNING A MACHINE TO SIMULATE ROAD TRANSPORTATION CONDITIONS
2125.	DEVELOP A SYSTEMATIC METHODOLOGY FOR INSPECTION LEVEL RATIFICATION OF AIRCRAFT TECHNICIAN AND DEVELOP WORK FLOW MECHANISMS FOR SCHEDULED I LEVEL INSPECTION OF A CERTAIN TYPE OF WIDE BODIED TRANSPORT AIRCRAFT
2126.	DEVELOPING ONE PAGE INTEGRATED SCORE CARD FOR NEW PROGRAMS BASED ON BALANCES SCORE CARD METHODOLOGY
2127.	DEVELOPMENT OF ISO14001 BASED ENVIRONMENTAL MANAGEMENT SYSTEM FOR A CONSTRUCTION COMPANY FOR BETTER ENVIRONMENTAL COMPLIANCES
2128.	DEVELOPMENT OF OPERATIONS STANDARD, TRAINING MODULE FOR PRODUCT KNOWLEDGE TRANSFER PROCESS
2129.	DEVISE STRATEGY TO REDUCE CUSTOMER REPORTED DEFECTS AND STABILIZE THE SOFTWARE
2130.	DIGITAL DISRUPTION -CRITICAL ANALYSIS OF ITS IMPACT ON TELECOMMUNICATIONS INDUSTRY
2131.	DMIAC TO REDUCE REJECTION REDUCTION AT SUPPLIER MEL BY 50%
2132.	EFFECTIVENESS OF TOTAL QUALITY MANAGEMENT SYSTEM IN THE OILFIELD EQUIPMENT COMPANY
2133.	ENERGY SOLUTIONS IN STREET LIGHTING
2134.	ENHANCING CORE COMPETENCIES
2135.	ESTABLISHING DIFF. CASE ASSEMBLY LINE FOR EXPORT CUSTOMER
2136.	ESTABLISHING THE DESIGN SPACE FOR CELL CULTURE UP STREAM PROCESS USING DOE APPROACH
2137.	FAILURE MODE AND EFFECT ANALYSIS FOR COLD FORGING PROCESS
2138.	FEASIBILITY OF EXTRACTION OF COAL THRU HIGH WALL MINING TECHNOLOGY IN OPEN CAST PROJECT
2139.	FEEDBACK ANALYSIS AND IMPROVEMENT
2140.	FLEET MANAGEMENT IN HIGH ALTITUDE AREAS
2141.	FORMULATE BUSINESS STRATEGY AND GROWTH PLANS
2142.	GAP ANALYSIS OF QUALITY SYSTEMS IN NON-SCHEDULED AIR TRANSPORTATION OPERATOR AND ISO-9000:2015 QUALITY MANAGEMENT SYSTEMS
2143.	GLOBAL STRATEGIC SOURCING MODEL FOR BEST IN CLASS PRODUCT QUALITY
2144.	GLOBALIZATION OF HOUSE OF MOUSE: A WALT DISNEY'S STRATEGIC APPROACH
2145.	GREEN VENDOR DEVELOPMENT AND PERFORMANCE ANALYSIS IN TATA PROJECTS- CONSTRUCTION INDUSTRIES
2146.	HOW STRONG CORRELATION IS THERE BETWEEN RISK BASED THINKING AND OVERALL EFFECTIVENESS OF QUALITY MANAGEMENT SYSTEMS
2147.	IMPACT OF IMPLEMENTATION OF TQM ON AUDITING IN THE ORGANIZATION
2148.	IMPACT OF QUALITY MANAGEMENT SYSTEM ON MARINE GAS TURBINE APPLICATION AND MANUFACTURING VIA TUBOPOWER
2149.	IMPLEMENTATION OF AUTOMATED PROCESS ADJUSTMENT TO IMPROVE PROCESS CAPABILITY IN HARD MACHINING PROCESS
2150.	IMPLEMENTATION OF QUALITY CIRCLE IN MANUFACTURING ORGANIZATION
2151.	IMPLEMENTATION OF QUALITY CONTROL CIRCLES IN MANUFACTURING INDUSTRIES
2152.	IMPLEMENTATION OF QUALITY MANAGEMENT SYSTEM IN A MANUFACTURING PLANT
2153.	IMPLEMENTATION OF QUALITY TOOLS AND APPLICATIONS IN INFRASTRUCTURE PROJECTS TO IMPROVE CONSTRUCTION QUALITY
2154.	IMPLEMENTATION OF RFID ENABLED TOOL TRACKING SYSTEM
2155.	IMPLEMENTATION OF SQC IN STERILE INJECTABLE FACILITY

S.No.	DISSERTATION TITLE
2156.	IMPLEMENTATION OF STATISTICAL PROCESS CONTROL (SPC) FOR MANUFACTURING PERFORMANCE IMPROVEMENT OF CERAMIC TILES
2157.	IMPLEMENTATION OF TEST AUTOMATION FRAME WORK FOR %G SYSTEM
2158.	IMPLEMENTATION OF TOTAL QUALITY MANAGEMENT IN INDIAN AIR FORCE
2159.	IMPLEMENTATION OF TQM IN INDIAN AIR FORCE
2160.	IMPROVE EFFICIENCY OF STOP CAPABILITY PROCESS FOR SUPPLIER
2161.	IMPROVE FIRST TIME QUALITY YIELD (FTQ) IN SOLAR FUSE MANUFACTURING CELLS BY USING SYSTEMATIC PROBLEM-SOLVING TECHNIQUES
2162.	IMPROVEMENT IN INVENTORY CONTROL OF NON MOVING STOCKS- WITH REDUCED GENERATION AND STOCK ADJUSTMENTS
2163.	IMPROVEMENT IN QUALITY THROUGH FMEA PRINCIPLE
2164.	IMPROVEMENT IN THE RFT(RIGHT FIRST TIME) FAILURE RATE DURING VALVE ASSEMBLY
2165.	IMPROVEMENTS IN SOLDERING PROCESS IN ELECTRONICS ASSEMBLY USING THE STATISTICAL QUALITY TOOLS
2166.	IMPROVING CPK OF PLATE HOLE PITCH IN CAM CHAIN USING DOE
2167.	IMPROVING CUSTOMER SATISFACTION BY REDUCING TEST DESIGN REVIEW DEFECT DENSITY IN TESTING PROJECTS
2168.	IMPROVING DEPARTMENTAL EFFECTIVENESS THROUGH SUSTAINABLE TOTAL QUALITY MANAGEMENT PRACTICES
2169.	IMPROVING RTY IN TRAVEL ADOPTER MANUFACTURING OPERATING BY USING TQM TOOLS
2170.	IMPROVING TESTING EFFICACY THROUGH AUTOMATION
2171.	IMPROVING THE PROCESS CAPABILITY OF RUBBER PARTS IN TVS ARGOMM PRIVATE LTD AND GAP ANALYSIS
2172.	IMPROVING THE SELENIUM PURITY IN COPPER REFINERY SELENIUM PLANT FINISHED GOODS (PRECIOUS METALS BUSINESS)
2173.	IMPROVISATION OF MAINTENANCE SAFETY IN AEROSPACE ENVIRONMENT
2174.	IMPROVISATION OF PRODUCTION CAPABILITIES AND REDUCTION IN PROJECT DURATION SCHEDULING AND EXECUTION PLAN
2175.	INCORPORATION OF RICE HUSK IN AERATED AUTO CLAVE CONCRETE BLOCKS
2176.	INCREASE IN FIRST PASS YIELD OF QUALITY PLANNING
2177.	INCREASE OF PRODUCTIVITY IN QUALITY CONTROL LABORATORY BY REDUCING REPEATED LABORATORY FAILURES, ERRORS AND IMPROVING THE DATA GOVERNANCE
2178.	INFLUENCE OF RECENCY BIAS ON DEVELOPMENTAL OPPORTUNITIES INDEX IN EMPLOYEE SATISFACTION FEEDBACK
2179.	INFORMATION SECURITY MANAGEMENT SYSTEM FOR A BANKING SOLUTION
2180.	INTEGRATION OF TECHNOLOGY AND SKILLED HUMAN RESOURCE FOR RAPID RURAL DEVELOPMENT AND QUALITATIVE GROWTH
2181.	INVESTIGATING TIME, COST AND QUALITY TRADE OFF ANALYSIS IN HIGHWAY CONSTRUCTION PROJECTS
2182.	IPTV AND EPV REDUCTION OF RADIATORS
2183.	LAMINATE DEFECT REDUCTION IN BLADE MANUFACTURING PROCESS
2184.	LAP/CRACK ELIMINATION IN RING ROLLING FORGING
2185.	LEAN IMPLEMENTATION IN OPERATION MANAGEMENT
2186.	LOW-PRESSURE VACUUM CARBURIZING PROCESS FOR DRIVETRAIN PARTS USED IN OFF-HIGHWAY AND/OR AGRICULTURAL MACHINERY
2187.	MACHINE LEARNING TECHNIQUE USING SUPPORT VECTOR MACHINE FOR QUALITY LOSS FUNCTION WITH PREDICTIVE MODELLING
2188.	MAKE IN INDIA OF LONGRANGE SURVEILLANCE PLATFORM FOR NATIONAL SECURITY
2189.	MANAGING CHANGE TO IMPLEMENT GPS TECHNOLOGY IN 4 LINE MODERNISATION (4 LM) PROJECT
2190.	MANAGING OF TRIPLE CONSTRAINTS, COMMUNICATION AND EMOTIONAL INTELLIGENCE FOR PROJECT SUCCESS
2191.	MATERIAL TESTING VIDE TECHNOLOGICAL ADVANCEMENTS TO ENSURE BETTER SAFETY.
2192.	MATERIALS USED IN H2S ENVIRONMENT
2193.	MDM BASED APPROACH FOR SUPPLIER SELECTION FOR AUDIT A CASE STUDY
2194.	MILL AVAILABILITY INCREMENT PROGRAM
2195.	MODULAR CURING SOLUTIONS - A MODERN SUSTAINABLE AND HASSLE FREE WAY OF CURING CONCRETE STRUCTURES
2196.	MOTOR CYCLE FRAME BODY QUALITY UPGRADATION
2197.	OPERATION EXCELLENCE IN FLEX BODY CAE MODELS LEAD TIME REDUCTION
2198.	OPERATIONS MANAGEMENT AT ANGUL TO JHARSUGUDA 765KV D/C HEXA-ZEBRA TRANSMISSION LINE PROJECT FOR PGCIL IN ODISHA
2199.	OPTIMISATION OF BULK MEDIA FOR QUALITY IN PROVISION OF OPERATIONAL COMMUNICATION BY

S.No.	DISSERTATION TITLE
	ARMY AIR SUPPORT COMMUNICATION UNIT USING QI TOOLS AND VALUE STREAM MAPPING
2200.	OPTIMIZATION OF FUNGAL INOCULUM
2201.	OPTIMIZATION OF THE WELDING PROCESS BY ANALYTICAL APPROACH IN PURCHASE, STORAGE AND ISSUE OF WELDING CONSUMABLES.
2202.	OPTIMUM USE OF RESOURCES I.E. CEMENT, SAND, COARSE AGGREGATE, WATER AND ADMIXTURE IN CONCRETE PRODUCTION
2203.	PERFORMANCE ANALYSIS AND ENABLING THE ERP FOR THE JOINT VENTURE PROJECTS
2204.	PERFORMANCE ANALYSIS OF MULTIDISCIPLINARY INFRASTRUCTURE AUGMENTATION PROJECT AT HPCL IRUMPANAM TERMINAL
2205.	PLANNING AND IMPLEMENTATION OF CLOUD COMPUTING WITH PROCESS AUTOMATION: A KEY RESULT AREA
2206.	POWER PLANT RELIABILITY ANALYSIS AND IMPROVEMENT
2207.	PROACTIVE ERGONOMICS
2208.	PROCESS CAPABILITY ANALYSIS IN SINGLE AND MULTIPLE BATCH MANUFACTURING SYSTEM TO REDUCE VARIATION IN GATE VALVE PART MACHINING
2209.	PROCESS CONTROL IN SHOE MANUFACTURING COMPANY
2210.	PROCESS IMPROVEMENT (GSIDC) USING SIX SIGMA METHODOLOGY (DMAIC PHASE USING QUALITY MANAGEMENT TOOLS)
2211.	PROCESS OPTIMISATION AND REDUCTION IN THE INCLUSION LEVEL OF IRON AND IRON ALLOY POWDERS
2212.	PROCESS PERFORMANCE MODELS FOR TESTING PRODUCT DEVELOPMENT LIFE CYCLE PROJECT
2213.	PROCESS RE-ENGINEERING TO REDUCE WORK IN PROGRESS-A CASE STUDY
2214.	PRODUCT AND PROCESS DESIGN OF 65C400 NON ORIENTED ELECTRICAL STEEL WITH SUPERIOR MAGNET PROPERTIES
2215.	PRODUCT DEVELOPMENT
2216.	PRODUCT QUALITY MANAGEMENT FOR MISSION CRITICAL COMMUNICATION SYSTEMS IN ORGANIZATION BASED ON AGILE METHODOLOGY
2217.	PRODUCTIVITY AND QUALITY IMPROVEMENT
2218.	PROJECT FOR QUALITY RETAIL STORES OPENING
2219.	PROJECT MANAGEMENT OF METRO RAIL PROJECT-INTERNATIONAL AND NATIONAL
2220.	PROJECT MANAGEMENT REPORTING TOOL FOR MONITORING OF RURAL ELECTRIFICATION WORKS
2221.	PROJECT MANAGEMENT: CONSTRUCTION OF AUXILIARY SUBSTATION FOR LUCKNOW METRO RAIL PROJECT
2222.	PROJECT PERFORMANCE ANALYSIS OF MELAMINE PROJECT EXECUTED BY LTHE AT VADODARA, GUJARAT
2223.	PROVIDING TOTAL QUALITY MANAGEMENT ON GREEN BUILDING SOLUTION TO RESIDENTIAL TOWER
2224.	QPPM IMPROVEMENT FOR SUPPLIER ABC USING SIX SIGMA METHODOLOGY
2225.	QUALITY MANAGEMENT IN E-COMMERCE
2226.	QUALITY MANAGEMENT IN ERP SUPPORTING HIGHER EDUCATION SYSTEMS THROUGH AGILE PRINCIPLES AND METHODOLOGIES
2227.	QUALITY MANAGEMENT IN LIFTING EQUIPMENT INSPECTION SERVICES
2228.	QUALITY MANAGEMENT IN THE CONSTRUCTION OF CENTRAL GAS PIPING SYSTEMS.
2229.	QUALITY MANAGEMENT SYSTEM IMPROVEMENT FOR CONSTRUCTION PROGRAMME
2230.	QUALITY PROCESS FOR FXPLANNER
2231.	RADIO NETWORK AVAILABILITY IMPROVEMENT
2232.	REDUCING PROJECT EXECUTION TIME WITH INCREASED PERFORMANCE IN ASSEMBLY
2233.	REDUCTION IN CURED TYRE REJECTION LEVEL AT UNIT-X
2234.	REDUCTION IN CYCLE TIME OF AIRCRAFT SCHEDULED SERVICING THROUGH STATISTICAL ANALYSIS AND CONTROL
2235.	REDUCTION OF DEFECTS AND DEFECT LEAKAGE IN ETL TESTING
2236.	REDUCTION OF MACHINING REJECTION IN HB6 CYLINDER HEADLINE
2237.	REDUCTION OF VARIATION IN CRITICAL QUALITY ATTRIBUTE OF ACTIVE PHARMACEUTICAL INGREDIENT
2238.	REJECTION REDUCTION ON DOUBLE ROW ANGULAR CONTACT (DRAC) BALL BEARINGS
2239.	RELIABILITY GROWTH MODEL
2240.	RESOLUTION OF QUALITY ISSUE THROUGH 6-SIGMA PROBLEM SOLVING METHODOLOGY
2241.	SELECTION OF OPTIMUM PROCESS PARAMETERS TO MAXIMISE THE FLUIDITY OF ALUMINIUM ALLOY LM-6 IN GDC CASTING PROCESS
2242.	SIX SIGMA APPROACH (DMAIC) TO REDUCE DEFECTS IN REQUEST FOR PROPOSAL(RFP) FORMULATION IN PROCUREMENT
2243.	SOFTWARE TEST DEVELOPMENT TOOLKIT FOR HEALTHCARE PLATFORM
2244.	SOFTWARE TESTING OF MICRO-SERVICES AND DISTRIBUTED APPLICATION SYSTEM

S.No.	DISSERTATION TITLE
2245.	STATISTICAL QUALITY CONTROL IN PREDICTING CEMENT STRENGTH OF MULTICOMPONENT COMPOSITE CEMENT
2246.	STERLING MANAGEMENT SYSTEM AN ORGANIZATIONAL MODEL FOR PERFORMANCE EXCELLENCE
2247.	STRATEGIC ADVANTAGE THROUGH DIGITISATION IN REAL ESTATE
2248.	STRATEGIC PLANNING FOR A CONSTRUCTION COMPANY IN OMAN
2249.	STUDY AND IMPLEMENTATION OF 'CONCURRENT ENGINEERING' IN NEW PRODUCT DEVELOPMENT
2250.	STUDY AND SYNTHESIZATIONS OF ICT TOOLS, CLOUD COMPUTING AND SOCIAL COMPUTING STRATEGIES FOR TOTAL QUALITY MANAGEMENT
2251.	STUDY OF ACTIVATION(OR)PRE-DIP IN ZINC PHOSPHATING PROCESS TO CONSERVE ENERGY RESOURCE BY STATISTICAL QUALITY CONTROL TOOL
2252.	STUDY OF HIGH STELLITE WEAR OF HP TURBINE BLADES OF M-53 P2 AERO ENGINE AND SUGGEST MEASURES TO INCREASE ITS INSPECTION PERIODICITY
2253.	STUDY OF THE FAILURES IN DART AERO ENGINES INSTALLED ON AVRO HS 748 AIRCRAFT
2254.	SYSTEM ENGINEERING FRAMEWORK FOR MODELLING AND SIMULATION OF ELECTRONIC WARFARE (EW) SYSTEM
2255.	TEST AUTOMATION FRAMEWORK FOR LTE-IMS PROTOCOL "DIAMETER" BY USING PYTHON LANGUAGE
2256.	THE REDUCTION OF OPEX COST AND CARBON EMISSION OF A TELECOM SITE
2257.	TIME TO MARKET AND CONCURRENT ENGINEERING IN PRODUCT DEVELOPMENT PROCESS
2258.	TO ELIMINATE THE IDLE VIBRATION & NOISE IN SUV VEHICLE BY USING SYSTEMATIC PROBLEM SOLVING TECHNIQUES
2259.	TO REDUCE COST OF POOR QUALITY OF THE ORGANISATION BY 20%
2260.	UTILISATION OF LOW GRADE LIMESTONE IN LIMESTONE CALCINED CLAY CEMENT
2261.	VALUE STREAM MAPPING IN MANUFACTURING OF BOILER MIXING VESSEL
2262.	WARRANTY DEFECTS REDUCTION: A PROACTIVE WAY TO ENSURE QUALITY
2263.	WASTER WATER MANAGEMENT
2264.	WHAT IS SIX SIGMA AND HOW EFFICACIOUS IS IT
	M.Tech. Manufacturing Management
2265.	200% INCREASE IN PRODUCTIVITY USING LEAN PRINCIPLES AND KAIZEN TOOLS IN HITCH PRODUCTION CELL
2266.	A STUDY OF INVENTORY MANAGEMENT IN ARJAS STEEL PRIVATE LIMITED, FORMERLY GERDAU STEEL INDIA PRIVATE LIMITED
2267.	A STUDY ON PREDICTIVE MAINTENANCE AND OVERHAULING OF EQUIPMENT'S IN ARJAS STEEL
2268.	ADAPTING LEAN PHILOSOPHY IN NEW PRODUCT DEVELOPMENT OF HI- TECH PRODUCT
2269.	AGGREGATES FRACTIONAL PRODUCTION OPTIMIZATION IN STONE CRUSHING PLANTS REDUCING WASTAGE
2270.	ALTERNATIVE APPROACH FOR NEW PRODUCT DEVELOPMENT OF ELECTRONIC HARDWARE (AEROSPACE)
2271.	AMPACITY CALCULATION FOR HV CABLE DIVERSION WORKS AT DUBAI CANAL
2272.	AN APPROACH TOOLS
2273.	AN INVESTIGATION TO ALTERNATIVE SEALING METHODS IN HEADLAMPS
2274.	ANALYSIS OF SYSTEMATIC APPROACH TO RELIABILITY CENTERED MAINTENANCE IN AIRPORT LOGISTICS
2275.	ANALYZE THE LEAN MANUFACTURING TECHNIQUES USED IN STEEL FABRICATION PROCESS. REVIEW THE IMPACT OF DIFFERENT LEAN MANUFACTURING TECHNIQUES AND TO RECOMMEND WHICH OF THE TECHNIQUES CAN BE BEST USED IN THE ORGANIZATION TO ENHANCE PRODUCTIVITY AND PERFORMANCE.
2276.	APPLICATION OF FINITE ELEMENT ANALYSIS IN PRODUCT DESIGN
2277.	APPLICATION OF LEAN MANUFACTURING CONCEPT ON ESTABLISHING STANDARD GAUGE METRO BOGIE MANUFACTURING PROCESS
2278.	APPLICATION OF LEAN PROCESSES
2279.	APPLICATION OF MANAGEMENT METHODOLOGY FOR BETTER PERFORMANCE OF PROJECT
2280.	APPLICATION OF VALUE STREAM MAPPING TO REDUCE PITCH UNLOADING TIME
2281.	ASSEMBLY CYCLE TIME REDUCTION USING LEAN TOOLS
2282.	ASSEMBLY LINE BALANCING FOR OPTIMUM CAPACITY UTILIZATION
2283.	AUTOMATION OF DATA EXCHANGE TO OPTIMIZE PRODUCT DESIGN BETWEEN OEMS AND SUPPLIERS
2284.	AUTOMATION OF PRODUCT DATA IMPORT AND DESIGNING REPORTING FRAMEWORK
2285.	BILL OF MATERIAL WHERE USED & REPLACEMENT WITH DRAFT CAPABILITY
2286.	BUS SEATING SYSTEM DESIGN, DEVELOPMENT, PRODUCTION AND GLOBALISATION
2287.	CAPACITY AUGMENTATION AND FLEXIBILITY BUILDING FOR ENGINE CELLS OF TVS MOTOR.
2288.	CAPACITY ENHANCEMENT AT MHCV BIW, MVML FROM 74 JOBS/SHIFT TO 94 JOBS/SHIFT
2289.	CAPACITY IMPROVEMENT IN 50 TON POWER PRESS BY IMPROVING AVAILABILITY AND PERFORMANCE RATE

S.No.	DISSERTATION TITLE
2290.	CAPACITY IMPROVEMENT ON ASSEMBLY LINE
2291.	CAPACITY UTILIZATION TOWARDS CUSTOMER DEMAND
2292.	CHALLENGES & ANALYSIS OF RESIDUAL STRESS AND PART DISTORTION IN (ALUMINIUM ALLOY 7175) FOR AIRCRAFT STRUCTURAL COMPONENTS
2293.	CHALLENGES IN MACHINING OF AEROSPACE GRADE EXOTIC MATERIALS
2294.	CHANGE OVER TIME REDUCTION AT MIG WELDING MACHINE
2295.	CNC MACHINE ISSUES DURING IN MANUFACTURING PRODUCTION.
2296.	COMPARISON OF GMAW VS FCAW FOR PEB (PRE ENGINEERED STEEL BUILDING) FABRICATION
2297.	CONTROL OF FUNCTIONAL TEST PARAMETERS IN THE DESIGN AND DEVELOPMENT OF ELECTROSTATIC CHUCK
2298.	CONVERSION OF ESP (ELECTROSTATIC PRECIPITATOR) TO HYBRID ESP
2299.	COST EFFECTIVE MODEL FOR REUSE OF WASTE WATER TO OVERCOME THE WATER DEFICIENCY IN A MILITARY CANTONMENT
2300.	COST OPTIMIZATION OF MACHINING OPERATIONS A TOTAL OPERATIONAL PERFORMANCE (TOP) METHODOLOGY
2301.	COST OPTIMIZATION WITH QUALITY ASSURED
2302.	COST REDUCTION STRATEGIES IN SUPPLY CHAIN OF A MANUFACTURING ORGANIZATION - A CASE STUDY OF JK CEMENT
2303.	COST REDUCTION STRATEGIES IN SUPPLY CHAIN OF MANUFACTURING ORGANIZATION
2304.	CRANK SHAFT - MACHINING PROCESS REJECTION ELIMINATION
2305.	CYCLE TIME REDUCTION IN OPERATIONS BY USING LEAN TOOLS
2306.	CYCLE TIME REDUCTION IN THE ASSEMBLY OF HOTEL LOAD CONVERTERS
2307.	DAMAGE ASSESSMENT AND RECTIFICATION WORK OF UTILITIES PLATFORM
2308.	DEFECT ANALYSIS IN COMPOSITE MANUFACTURING RESULTING IN IMPROVEMENT OF QUALITY PARAMETER
2309.	DEFECT REDUCTION IS CAR AUDIO SYSTEM THROUGH DMAIC METHODOLOGY
2310.	DESIGN & DEVELOPMENT OF DOUBLE SIDED ROUND INSERT FOR FACE MILLING APPLICATION OF TITANIUM WITH ANTI ROTATION FEATURE
2311.	DESIGN AND DEVELOPMENT CARS
2312.	DESIGN AND DEVELOPMENT OF COLD FORMING MACHINE
2313.	DESIGN AND DEVELOPMENT OF COLD SOAK TEST SYSTEM FOR CONTROL VALVE
2314.	DESIGN AND DEVELOPMENT OF CUSTOMIZED SWAPPING LIFE TESTER FOR EV SWAPPABLE BATTERY PACKS
2315.	DESIGN FOR MANUFACTURING EXCELLENCE FRAMEWORK
2316.	DESIGN FOR MANUFACTURING FOR PCB ASSEMBLY
2317.	DESIGN OF ACTIVATED CARBON PLANT
2318.	DESIGN OF SELF DRILL FEED FIXTURE
2319.	DESIGN OPTIMIZATION AND PACKAGING OF HIGH & LOW TONE HORN BRACKETS.
2320.	DESIGN OPTIMIZATION OF SUNROOF DRAIN TUBES TO IMPROVE QUALITY AND MINIMIZE HUMAN INSTALLATION EFFORTS IN VEHICLE LINE
2321.	DESIGN WORK OF 18 MW DIESEL POWER PLANT WITH SELECTION AND SIZING OF MAJOR MECHANICAL AND ELECTRICAL EQUIPMENT BLACK START/ EMERGENCY/STANBY APPLICATION
2322.	DESIGN, DETAIL ENGINEERING, PROCUREMENT, CONSTRUCTION, COMMISSIONING & PGTR OF EFFLUENT TREATMENT WATER AT ELEVATED TEMPERATURE
2323.	DESIGNING OF SYPHONIC ROOF DRAINAGE SYSTEM
2324.	DEVELOPING SCHEDULING SYSTEM FOR VARIABLE LOT SIZE DISCRETE MANUFACTURING SYSTEM
2325.	DEVELOPMENT OF A DIVERSIFICATION STRATEGY TO IMPROVE MARKET POSITIONING IN INDIAN PAPER INDUSTRY " INTRODUCTION OF INDIGENOUSLY MANUFACTURED FORMING FABRICS
2326.	DEVELOPMENT OF ALIGNMENT EQUIPMENT- SUPPORTING VEHICLE TO MISSILE SYSTEM
2327.	DEVELOPMENT OF AN INTEGRATED PRODUCTION SYSTEM FOR TATA AEROSPACE & DEFENCE
2328.	DEVELOPMENT OF AUTOMATIC DATA ACQUISITION SYSTEM FOR ENERGY MANAGEMENT TO MONITOR-CONTROLS THE POWER AND FUEL CONSUMPTION
2329.	DEVELOPMENT OF EFFECTIVE METHODS FOR PROCESSING DETAIL AIRCRAFT STRUCTURAL COMPONENTS IN SPECIAL PROCESSES
2330.	DEVELOPMENT OF LEAN ASSEMBLY LINE: EFFICIENT, FLEXIBLE & ERROR-PROOF
2331.	DEVELOPMENT OF METAL CARBON EUTECTIC FIXED POINT AND ITS APPLICATION FOR CALIBRATION OF NOBLE METAL THERMOCOUPLE
2332.	DEVELOPMENT OF NEW PRODUCT:ROLLING INGOT S1050
2333.	DEVELOPMENT OF ON-LINE PVD PROCESS MONITORING SYSTEM TO CAPTURE PROCESS PARAMETERS AND GENERATION OF AUTOMATIC PROCESS REPORT
2334.	DEVELOPMENT OF PROCESS AND TOOLS FOR PRODUCTION PLANNING AND CONTROL
2335.	DEVELOPMENT OF PROCESSES FOR THE EFFECTIVE MANAGEMENT OF SUPPLIERS

S.No.	DISSERTATION TITLE
2336.	DEVELOPMENT OF WINDOW CORNER COMPONENT USING SIX SIGMA METHODOLOGY
2337.	DFMEA ESTABLISHMENT AND CHECK SHEET VERIFICATION FOR MINI TRUCK CHASSIS SYSTEM
2338.	EFFECTIVE IMPLEMENTATION OF PROJECT MANAGEMENT TO IMPROVE OVERALL EFFICIENCY OF THE ORGANISATION
2339.	ELIMINATION OF CUSTOMER COMPLAINT: ARMATURE PLATE GUIDE BORE GRINDING OPERATION MISSING
2340.	ELIMINATION OF OIL GALLERY BLOCK PROBLEM IN ENGINE COVER (K38R)
2341.	EMBEDDED PARTS TRACKING SYSTEM
2342.	ENDRESS+HAUSER ARABIA LLC, SERVICE BUSINESS STRATEGY
2343.	ENERGY OPTIMISATION AND RELIABILITY IMPROVEMENT OF CAPTIVE POWER PLANT
2344.	ENHANCEMENT OF MANUFACTURING CAPABILITIES
2345.	ENHANCEMENT OF PRODUCTIVITY AND OPTIMIZATION OF LABOR EFFORTS AND METHODS THROUGH APPLICATION OF MAYNARD OPERATION SEQUENCE TECHNIQUE(MOST) IN HEAVY EQUIPMENT MANUFACTURING ORGANIZATION
2346.	ENHANCING OEE THROUGH DIGITALISATION I4.0
2347.	ENVIRONMENTAL POLLUTION CONTROL IN BULK DRUG INDUSTRY
2348.	ERGONOMIC CONTROL IN ASSEMBLY OPERATION
2349.	ESTABLISH THE MONITORING SYSTEM FOR TURNAROUND TIME AND WORKLOAD OPTIMIZATION IN PROCESSING THE BILL OF MATERIAL CHANGES.
2350.	ESTABLISHING THE GREEN FIELD MANUFACTURING FACILITY OF SPECIALITY CHEMICALS
2351.	ETHYLENE PROCESS OPTIMIZATION
2352.	EXPERIMENTAL STUDY ON FLEX SEAL FABRICATION AND TESTING FOR MISSILES, SATELLITES LAUNCHER VEHICLES
2353.	FACILITIES FOR PRODUCTION AND QUALITY ENHANCEMENT IN CAB AND COWL FACTORY
2354.	FINANCIAL PERFORMANCE USING RATIO ANALYSIS
2355.	FLEXIBLE CAMERA HOLDER DESIGN FOR MULTIPLE USAGES
2356.	FUEL ECONOMY IMPROVEMENT IN LOWER SEGMENT GASOLINE PASSENGER CAR BY VEHICLE DRIVE TRAIN & ENGINE MOVING PARTS FRICTION REDUCTION
2357.	GEAR SHIFT QUALITY IMPROVEMENT IN MANUAL TRANSMISSION OF PASSENGER CARS BY STUDYING GEAR SHIFT LEVER AND SYNCHRONISER
2358.	HEALTH AND SAFETY AUDIT AND RECOMMENDATIONS IN POWER PLANT
2359.	HIGH SPEED GRINDING WHEELS
2360.	HOT CORROSION STUDY OF NI-CR ALLOYS
2361.	IMPLEMENTATION OF BEST MANUFACTURING PRACTICES TO ACHIEVE OPERATIONAL EXCELLENCE
2362.	IMPLEMENTATION OF JIT MANUFACTURING TECHNIQUES TO ENHANCE CAPACITY AND PRODUCTIVITY OF STREET LIGHT POLE MANUFACTURING
2363.	IMPLEMENTATION OF LEAN MANAGEMENT AND STAGE GATE DEVELOPMENT METHOD FOR DISCONNECTOR PRODUCT
2364.	IMPLEMENTATION OF MIG, TIG AND SAW WELDING PROCESSES IN FUJSENG CONSTRUCTION LLC STEEL UNIT
2365.	IMPLEMENTATION OF NOISE, AIR FLOW, VIBRATION PARAMETER MEASUREMENT OF HVAC SYSTEM & TRACEABILITY OF DATA
2366.	IMPLEMENTATION OF OVERALL EQUIPMENT EFFECTIVENESS (OEE) OF WELDING ROBOT
2367.	IMPLEMENTATION OF TQM TECHNIQUE TO REDUCE SPECIFIC HFO CONSUMPTION AT BAKEOVEN
2368.	IMPLEMENTATION OF VIRTUAL COMMISSIONING FOR POWERTRAIN ASSEMBLY LINE
2369.	IMPLEMENTING LEAN MANUFACTURING PRINCIPLES IN CONSTRUCTION OF MODULAR PACKAGES
2370.	IMPROVE OVERALL LINE EFFICIENCY IN MCB MANUFACTURING LINE
2371.	IMPROVE THE DOOR ASSEMBLY PROCESS FOR UPCOMING NEW PRODUCT AND SET BENCHMARKS FOR NEW MAHINDRA MODELS
2372.	IMPROVE THE RECOVERY OF ACETONE IN CHLORO ACETAMIDE STAGE OF RANOLAZINE
2373.	IMPROVEMENT IN PROCESS AND ELIMINATION OF DEFECT IN SUSPENSION MANUFACTURING TO MINIMIZE REJECTION AND LOSSES
2374.	IMPROVEMENT OF QUALITY AND THROUGHPUT PARAMETERS OF AH64 - SECONDARY STRUCTURES PRODUCTION PROCESS
2375.	IMPROVEMENTS TO SHORTEN THE PRODUCT DEVELOPMENT CYCLE- PLASTIC COMPONENTS- AUTOMOTIVE ELECTRICAL CONNECTION SYSTEM
2376.	IMPROVING PLANT OEE (OVER ALL EQUIPMENT EFFICIENCY) AND EQUIPMENT AVAILABILITY BY USING PREDICTIVE EQUIPMENT
2377.	IMPROVING POWER PLANT ASSET PERFORMANCE
2378.	IMPROVING PROCESS CAPABILITY OF CRANKCASE PARALLELISM BY STATISTICAL CONTROL
2379.	INCREASE IN BELT LIFE OF WIRE ROD MILL
2380.	INCREASE IN PRODUCTIVITY, QUALITY, AND DELIVERY BY REDUCING NVA ACTIVITIES IN LIFT AXLE

S.No.	DISSERTATION TITLE
	SUSPENSION.
2381.	INDUSTRY 4.0, IOT IN MAINTENANCE MANAGEMENT
2382.	INNOVATION IN CAR SEATING. NEW PRODUCT DESIGN AND DEVELOPMENT IN-CAB COMPACT PACKAGED FOOD & BEVERAGES VENDING MACHINE WITH PASSCODE LOCK ACCESSIBLE THROUGH MOBILE APP
2383.	INSTALLATION AND COMMISSIONING OF REAR AXLE ASSEMBLY LINE FOR COMMERCIAL VEHICLE
2384.	INTEGRATED FACTORY LAYOUT FOR DIGITAL TWIN
2385.	INTEGRATING LEAN SIX SIGMA CONCEPTS AND PROJECT MANAGEMENT IN ENGINEERING SERVICES: A CASE STUDY
2386.	INTEGRATION OF AN AEROSPACE QUALITY MANAGEMENT SYSTEM FOR DIFFERENT MANUFACTURING ORGANIZATION
2387.	INTRODUCTION OF JIT IN MANUFACTURING CNC MACHINE TOOL AND INTRODUCE DIGITALIZATION FOR GREATER EFFICIENCY AND TRANSPARENCY
2388.	INTRODUCTION OF NG1.2L NA/TC GASOLINE ENGINE
2389.	INVENTORY MANAGEMENT AT AERZEN INDIA
2390.	INVENTORY OPTIMISATION
2391.	INVENTORY OPTIMIZATION AND SCM MANAGEMENT
2392.	JUST IN TIME MANUFACTURING (INVENTORY REDUCTION)
2393.	LAYOUT OPTIMIZATION OPERATOR BODY TRAVEL IMPROVEMENT AND MATERIAL FLOW IMPROVEMENT USING LEAN METHODOLOGY
2394.	LEADERSHIP AND MANAGING CHANGE
2395.	LEAN & GREEN MANUFACTURING TECHNIQUES FOR IMPROVING PROFITS & BUSINESS SUSTAINABILITY
2396.	LIFE CYCLE ASSESSMENT OF BHEL MANUFACTURED TURBO-GENERATOR, FINDINGS & RECOMMENDATIONS FOR SUSTAINABLE DEVELOPMENT
2397.	LIMESTONE CRUSHER PERFORMANCE IMPROVEMENT
2398.	LIMS IMPLEMENTATION FOR COAL IN JHARSUGUDA PLANT
2399.	LINE PRODUCTIVITY IMPROVEMENT BY LEAN MANUFACTURING TECHNIQUE
2400.	LOGISTICS MANAGEMENT USING ARTIFICIAL INTELLIGENCE AND NEURAL NETWORKING
2401.	LOW PRODUCTIVITY IN FOAMING LINE
2402.	MANAGING PERCEPTIONS OF URBAN ELECTRICITY CONSUMERS
2403.	MANUFACTURING CYCLE TIME REDUCTION FOR CUSTOM MADE SUBSTATION AUTOMATION SOLUTION
2404.	MANUFACTURING LOGISTICS SUPPLY CHAIN OPTIMISATION AT TRUCK ASSEMBLY SHOP
2405.	MANUFACTURING PROCESS DEVELOPMENT OF RATCHET CHAIN TENSIONER ASSEMBLY
2406.	METHOD STUDY & WORK MEASUREMENT: IMPLEMENTATION AND CHALLENGES IN MANUFACTURING INDUSTRY
2407.	MODIFICATION OF FLY ASH CONVEYING SYSTEM
2408.	MOISTURE SEPARATOR PRODUCT DEVELOPMENT
2409.	MONITORING AND CONTROLLING OF CRITICAL PROCESS/PRODUCTION PARAMETERS USING STATISTICAL CONTROL PROCESS
2410.	MULTI LAYER FABRIC PROCESSING
2411.	MULTI-LEVEL OPTIMIZATION OF PRODUCTION PLANNING, SCHEDULING AND CONTROLLING TO SAVE TIME AND COST
2412.	NEW PRODUCT DEVELOPMENT
2413.	NEW PRODUCT DEVELOPMENT AND PROJECT MANAGEMENT
2414.	NEW PRODUCT DEVELOPMENT PROCESS LEAD TIME REDUCTION
2415.	NOW WORKING AND SLOW MOVING STOCK REDUCTION USING DMAIC
2416.	OBSERVE, ANALYZE AND IMPROVE SHROUD COMMODITY YIELD IN NEW PRODUCT DEVELOPMENT WITHIN INDIA SUPPLY CHAIN
2417.	ON TIME DELIVERY
2418.	OPERATION EFFICIENCY IMPROVEMENT BY LEAN MANAGEMENT
2419.	OPTIMIZATION OF ENERGY CONSUMPTION TO REDUCE POWER COST
2420.	OPTIMIZATION OF MACHINE SHOP OUTPUT THROUGH DFM AND MULTIMODEL TECHNIQUE
2421.	OPTIMIZATION OF MAINTENANCE MAN HOURS THROUGH RELIABILITY CENTER MAINTENANCE (RCM) PROCESS
2422.	OPTIMIZATION OF MANUFACTURING PROCESSES BY APPLICATION OF MANAGEMENT, PRODUCTION PLANNING AND CONTROL TECHNIQUES...
2423.	OPTIMIZATION OF MODULAR SKID BASE FRAME AND LIFTING GEARS
2424.	OPTIMIZATION OF POWER STATION AUXILIARY POWER CONSUMPTION
2425.	OPTIMIZATION OF PRODUCT AND PROCESS TIME FOR QUALITY AND COST
2426.	OPTIMIZATION OF RESOURCES THROUGH OPERATION SIMULATION

S.No.	DISSERTATION TITLE
2427.	OPTIMIZATION OF SUPPLY CHAIN BY INTEGRATING KANBAN AND EDI
2428.	PLAN FOR EVERY PART FOR A NEW LINE
2429.	POWER PACK DEVELOPMENT
2430.	PREVENTION OF PTM
2431.	PROBLEM SOLVING THROUGH DESIGN OF EXPERIMENTS (DOE)
2432.	PROCESS IMPROVEMENT TO REDUCE TAT
2433.	PRODUCT DESIGN OPTIMIZATION & LIFECYCLE IMPROVEMENT USING ADDITIVE MANUFACTURING SCOPE
2434.	PRODUCT DESIGN VS CUSTOMER EXPECTATIONS IN PASSENGER BUSES - BRIDGING THE GAP
2435.	PRODUCTION CAPACITY EXPANSION OF VISCO CLUTCH MANUFACTURING LINE
2436.	PRODUCTION LEVELING AND ESTABLISHMENT OF CONSUMPTION CONTROL AT THE PACEMAKER LOOP OF WLM LINE
2437.	PRODUCTION OF HIGH PURITY METAL
2438.	PRODUCTION RATE RAMP UP THROUGH 5M METHODOLOGY
2439.	PRODUCTION TRANSFER OF X-RAY TUBE CATHODE CUP-ARM ASSEMBLY
2440.	PRODUCTIVITY (COST OUT) PROJECTS & MANAGEMENT.
2441.	PRODUCTIVITY ENHANCEMENT IN THE MANUFACTURING OF TRAPS
2442.	PRODUCTIVITY IMPROVEMENT ANALYSIS IN CAR LINE FOR CAST IRON RING PLANT
2443.	PRODUCTIVITY IMPROVEMENT AND PROCESS OPTIMIZATION OF A FAMILY OF CNC MACHINED PARTS
2444.	PRODUCTIVITY IMPROVEMENT AND REDUCTION IN WELDING DISTORTION DURING SIDE BLOCK MANUFACTURING
2445.	PRODUCTIVITY IMPROVEMENT BY AUTOMATION OF LOADING AND UNLOADING OF RAILS IN THE CLEANING MACHINE
2446.	PRODUCTIVITY IMPROVEMENT IN NACELLE ASSEMBLY
2447.	PRODUCTIVITY IMPROVEMENT IN NEW PRODUCT DEVELOPMENT OF LUBRICATION OIL FILTER USING SMED
2448.	PRODUCTIVITY IMPROVEMENT THROUGH WORK STATION OPTIMIZATION & LAYOUT ENHANCEMENT IN LADDER FRAME STATION
2449.	PROJECT MANAGEMENT - IMPORTANCE OF LEADERSHIP
2450.	PROJECT MANAGEMENT FOR NEW PRODUCT DEVELOPMENT AND LAUNCH PROJECTS IN MANUFACTURING INDUSTRY WITH SUGGESTED IMPROVEMENT AREAS
2451.	QMS IN FOOD INDUSTRY & THE BARRIERS IMPLEMENTING QUALITY MANAGEMENT SYSTEMS IN FOOD INDUSTRY.
2452.	QUALITY IMPROVEMENT THROUGH PROCESS STANDARDIZATION
2453.	QUALITY MANAGEMENT AT VENDOR
2454.	QUALITY MANAGEMENT SYSTEM
2455.	RCM ON ANODE FORMER
2456.	REDESIGNING LV POWER BACKUP INVERTERS USING DESIGN FOR MANEUVERABILITY CONCEPT
2457.	REDUCING TIME TO RESOLUTION TO ACHIEVE IMPROVED CUSTOMER SATISFACTION
2458.	REDUCING WARRANTY COMPLAINTS OF FRONT AXLE DUE TO TIE ROD FAILURE FROM IPTV LEVEL OF 1.44 TO 0.28 (12MMA)
2459.	REDUCTION IN ELECTRICITY CONSUMPTION FROM WORKING DAY AVERAGE OF 11261 KWH TO 9750 KWH WITH ENVIRONMENT SUSTAINABILITY BY 1,49,400 KG
2460.	REDUCTION IN LEAD TIME AND COST OF PROCUREMENT OF COLORSTONES FOR STUDDED PRODUCTS IN JEWELLERY
2461.	REDUCTION IN NYLON (6) DIPPED TYRE CORD FABRIC WASTE GENERATION
2462.	REDUCTION IN SPECIFIC POWER CONSUMPTION IN PAINTS MANUFACTURING
2463.	REDUCTION IN WARRANTY AND PDI USING STATISTICAL METHOD
2464.	REDUCTION OF MANUFACTURING COMPLEXITY ON ASSEMBLY LINE
2465.	REDUCTION OF OVERALL MAINTENANCE COST AND TO IMPROVE OPERATIONAL EFFECTIVENESS
2466.	REDUCTION OF REJECTION AND REWORK THROUGH TOTAL PRODUCTIVE MAINTENANCE (TPM) METHODOLOGY
2467.	REDUCTION OF SPECIFIC WATER CONSUMPTION OF THERMAL POWER PLANT
2468.	REDUCTION OF UTILITY COST FOR HVAC SYSTEM
2469.	REGAIN OFFSHORE BRIDGE AFTER COLLISION
2470.	RELIABILITY IN MAINTENANCE MANAGEMENT
2471.	RESEARCH IN IMPLEMENTING ADDITIVE MANUFACTURING (SMD)(MANUFACTURING MANAGEMENT)
2472.	REVERSE OSMOSIS PLANT -PROJECT MANAGEMENT
2473.	SAFE LAUNCH MANAGEMENT FOR CRI1-18 OHW
2474.	SELECTION AND DEVELOPMENT OF PROCESS CONTROL TECHNIQUES (SENSORS AND ACTUATORS) IN MACHINING SET-UPS FOR TASL-GE LEAP ENGINES

S.No.	DISSERTATION TITLE
2475.	SIMPLIFICATION OF EXISTING PROCESS OF GETTING ACCESS FOR VARIOUS TOOLS AND SYSTEMS REQUIRED FOR THE EMPLOYEES IN THE PROCESS AND ENVIRONMENTAL SAFETY DEPARTMENT.
2476.	SINGLE MODE MICROWAVE PROCESSING VERSUS CASTING OF MATERIALS
2477.	SMED IN OIL SEALS
2478.	STABILIZER WARRANTY AND RELIABILITY IMPROVEMENT
2479.	STATISTICAL PROCESS CONTROL ON TITANIUM MACHINING TO REDUCE THE REJECTION RATE
2480.	STRATEGIC APPROACH FOR THE NEW PRODUCT DEVELOPMENT PROCESS
2481.	STRATEGY TO ESTABLISH A LARGE AIRCRAFT MAINTENANCE, REPAIR AND OVERHAUL SECTOR IN INDIA
2482.	STUDY AND ANALYSIS OF ORGANIZATIONAL CHANGE IN BEML LTD FROM RAIL COACH MANUFACTURING FACILITY TO METRO TRAIN MANUFACTURING FACILITY
2483.	STUDY OF OUTSOURCING METHOD USING STRATEGIC MANAGEMENT & BUSINESS POLICY PRINCIPLES
2484.	STUDY OF PROJECT EXECUTION, COST CONTROL, MATERIAL HANDLING, RENCILATION AND COMMISSIONING OF COMMUNICATION INFRASTRUCTURE FOR ADVANCED METERING INFRASTRUCTURE FOR DEPARTMENT OF ENERGY
2485.	STUDY ON BRIDGE BARRAGE
2486.	STUDY ON ENVIRONMENTAL POLLUTION AND WASTE MANAGEMENT IN SHIP BUILDING AND SHIP REPAIRS INDUSTRY
2487.	SUCCESSION PLAN AND LEADERSHIP CHANGE IN A FAMILY OWNED MEDIUM ENTERPRISE
2488.	SUGARCANE SUPPLY CHAIN IMPROVEMENTS ACROSS ITS VALUE CHAIN
2489.	SUPPLIER BASE OPTIMIZATION
2490.	SUPPLY CHAIN EFFICIENCY IMPROVEMENT THROUGH STANDARDIZATION, CATEGORIZATION AND INDIGENIZATION FOR HEAVY JOB SHOP
2491.	SUPPLY CHAIN MANAGEMENT PROCESS OPTIMIZATION OF AH64 PROGRAM
2492.	SYSTEM DESIGN OF WIND TURBINE USING ANIMAL HUSBANDRY
2493.	SYSTEMATIC PROCESS APPROACH TO HANDLING OF WEB TO CASE QUERIES (BOTH TECHNICAL AND NON-TECHNICAL)
2494.	TAKT TIME REDUCTION AND STABILIZATION FOR AERO STRUCTURE ASSEMBLY FOR C130J SUPER HERCULES
2495.	TO DECREASE THE REJECTION IN BEARING OF CONE TRACK DAMAGE AND REHONING REJECTION
2496.	TO DEPLOY AND REDUCE THE PROCESS ENERGY IN GLASS MANUFACTURING
2497.	TO DEVELOP AND ESTABLISHED EFFICIENT PROCESS FOR FABRICATION OF COMPLEX AERO ENGINE ASSEMBLY
2498.	TO INCREASE THE PRODUCTIVITY OF CNC PLASMA AND OXY MACHINE
2499.	TO STUDY A SUSTAINABLE MANUFACTURING PROCESS IN CHEMICAL INDUSTRY
2500.	TO STUDY AND IMPLEMENT ONE STOP SOLUTION OF PACKAGING MATERIALS FOR FULLY AUTOMATIC TRANSMISSION
2501.	TO STUDY GAS TURBINE COMPONENT MANUFACTURING PROCESS FLOW TO IMPROVE CYCLE TIME
2502.	TO STUDY THE IMPACT OF REDUCING VARIATION IN BROILER FEED PHYSICAL QUALITY ON FEED PRODUCER AND FARMER
2503.	TO STUDY THE IMPACT OF STANDARDIZATION OF RAW MATERIAL VARIABLES ON INVENTORY LEVEL AND RELATION WITH PURCHASING POWER OF BUYING ORGANIZATION
2504.	TOTAL QUALITY MANAGEMENT
2505.	TRAIN RELIABILITY GROWTH BY PROBLEM SOLVING RELAY FAILURE
2506.	USE OF LATEST TECHNOLOGICAL ADVANCEMENTS IN MAINTENANCE ENGINEERING
2507.	USE OF WIDE SPECIFICATION CP COKE FOR PRODUCTION OF QUALITY ANODES USING SIX SIGMA TOOLS
2508.	VIRTUAL COMMISIONING(VC) OF ROBOT WORK CELL BY USING DIGITAL MANUFACTURING SOLUTION
2509.	VIRTUAL REALITY ANALYSIS FOR SERVICEABILITY IN EARLY PRODUCT DEVELOPMENT PHASE
2510.	WHOLE SYSTEM THINKING: INNOVATIVE APPROACH FOR SUSTAINABLE MANUFACTURING
2511.	WORKING CAPITAL MANAGEMENT
2512.	YIELD IMPROVEMENT IN PRODUCTION OF HOSE REINFORCEMENT WIRE BY REDUCING THE WASTE GENERATED DUE TO BAD WINDING PHENOMENON
	M.Tech. Microelectronics
2513.	3-BIT FLASH ADC USING HIGH PERFORMANCE CURRENT COMPARATOR
2514.	AERIAL VEHICLE WITH FIRE EXTINGUISHER GRENADE RELEASE AND INSPECTION SYSTEM
2515.	AI HARDWARE ACCELERATORS IMPLEMENTATION APPROACH ON FPGA
2516.	ANALYSIS OF A SERIAL COMMUNICATION BLOCK FOR TIMING DEVIATION DUE TO SUPPLY NOISE AND TRANSMISSION LINE EFFECTS.
2517.	ANALYSIS OF IMAGE QUALITY ON SEMICONDUCTOR IMAGE SENSOR WITH SPREAD SPECTRUM CLOCKING

S.No.	DISSERTATION TITLE
2518.	ANALYSIS, OPTIMIZATION AND IMPLEMENTATION OF POWER EFFICIENT FIR FILTERS
2519.	AUTO CLEANING OF ADVANCED DRC'S IN THE LOWER NODES
2520.	AUTO CONTROL SYSTEM INDUSTRIAL MAINTENANCE AND RCA
2521.	AUTO VIA DROPPER FOR ADDING VIAS HIERARCHICALLY WHEREVER OVERLAP OF PARTICULAR NET IS AVAILABLE WITHOUT VIA
2522.	AUTOMATED CONSTRAINT AWARE PLACEMENT AND ROUTING METHODS FOR MIXED-SIGNAL TOPOLOGIES
2523.	AUTOMATED LAYOUT CREATION FOR VARIOUS ABUTMENT CHECKS AT DDR CIRCUIT MACRO AND HARD IP LEVEL
2524.	AUTOMATIC PLACE AND ROUTE OF 8 BIT MICROCONTROLLER
2525.	AUTOMATION TESTING OF SWITCH MODE POWER SUPPLY
2526.	AUTOMATION WITH ROBOT ON ENGINE ASSEMBLY FOR THE ELIMINATION OF MANUAL ASSEMBLY ERROR
2527.	BANDGAP REFERENCE FOR SERDES
2528.	CADENCE DESIGN SYSTEMS (INDIA) PVT. LTD., BANGALORE
2529.	CENTRAL STATISTICS COUNTER FOR HIGH SPEED ETHERNET 5G AND 10G DEVICES
2530.	CIGS BASED SOLAR CELL
2531.	CLOCK SPINE FOR BETTER CLOCK DISTRIBUTION USING HIGH SPEED CLOCK CELLS (HSCLK)
2532.	CLOCK TREE SYNTHESIS
2533.	COMPARATIVE ANALYSIS OF FDSOI WITH BULK CMOS AND FINFET TECHNOLOGIES FOR IOT APPLICATIONS
2534.	COMPARISON OF DIRECT AND INDIRECT LEARNING DIGITAL PRE-DISTORTION
2535.	CONVERSION OF MIPI CSI/DSI DATA TO A SERIAL INTERFACE.
2536.	CROSS HIERARCHICAL IB OB CHAINS
2537.	CURRENT TRENDS IN DEEP LEARNING TECHNOLOGIES AND DETAILED STUDY OF REAL DEEP LEARNING ACCELERATOR IP NVDLA (NVIDIA DEEP LEARNING ACCELERATOR) AND BASIC TEST VALIDATION.
2538.	DESIGN & VERIFICATION OF 8B/10B ENCODER
2539.	DESIGN & VERIFICATION OF ELASTIC BUFFER
2540.	DESIGN A VOLTAGE REGULATOR WITH BUILT-IN BANDGAP REFERENCE
2541.	DESIGN AND ANALYSIS OF SRAM MEMORY FOR DIFFERENT POWER/LEAKAGE GATING MODES (FUNCTIONAL, DEEPSLEEP, POWERGATE) & ANALYSIS OF POWER NOISE OF PEAK CURRENT WITH A MODELLED UNDER DAMPED RLC CIRCUIT.
2542.	DESIGN AND IMPLEMENTATION OF A CONVOLUTIONAL NEURAL NETWORK ON AN FPGA PLATFORM
2543.	DESIGN AND IMPLEMENTATION OF DATA TRANSFER TO XILINX FPGA USING PSOC
2544.	DESIGN AND OPTIMIZATION OF BRIDGE-LESS PFC WITH SOFT SWITCHING AND ZVT
2545.	DESIGN AND SILICON VALIDATION OF NMOS LDO VOLTAGE REGULATOR
2546.	DESIGN AND SIMULATION OF LMS ADAPTIVE FILTER USING DISTRIBUTED ARITHMETIC
2547.	DESIGN AND SIMULATION OF VRM(VOLTAGE REGULATOR MODULE) AT LOWER NODES TAKING THERMAL AND IR DROP INTO ACCOUNT USING 45NM TECHNOLOGY
2548.	DESIGN AND STUDY OF SUB-1V BANDGAP REFERENCE
2549.	DESIGN FOR TEST TIME REDUCTION AND ENHANCED TEST COVERAGE OF CMOS IMAGE SENSORS
2550.	DESIGN OF 120MHZ PGA
2551.	DESIGN OF 3 AXIS MEMS BASED GYROSCOPE (NAVIGATION GRADE) FOR NAVAL SHIPS AND AIRCRAFT
2552.	DESIGN OF A COMPACT 4-PORT POLARIZATION DIVERSITY UWB-MIMO ANTENNA FOR PORTABLE DEVICES
2553.	DESIGN OF FAIL SAFE I/O PADS
2554.	DESIGN OF HDMI2.1 RECEIVER CONTROLLER
2555.	DESIGN OF HDMI2P1 TX FRL (FIXED RATE LINK) BLOCK
2556.	DESIGN OF HIGH VOLTAGE TOLERANT IO BUFFER USING LOW-VOLTAGE DEVICES
2557.	DESIGN OF LOW DROPOUT LINEAR VOLTAGE REGULATOR IN 16NM TECHNOLOGY
2558.	DESIGN OF LTE-ADVANCED DOWNLINK PHYSICAL LAYER
2559.	DESIGN OF PHASE LOCK LOOP
2560.	DESIGN VERIFICATION
2561.	DEVELOP A SYNTHESIZABLE MODEL OF A SERDES PHY IP TO ENABLE SYSTEM LEVEL EMULATION USING SYNOPSIS ZEBU PLATFORM
2562.	DEVELOPMENT OF IMPEDIMETRIC BIOSENSOR FOR DETECTION OF BACTERIAL PATHOGENS
2563.	DYNAMIC VOLTAGE AWARE TIMING CLOSURE FOR HIGH PERFORMANCE DESIGNS
2564.	EFFICIENT PACKET DELIVERY IN MOBILE NODES AND TO IMPROVE NETWORK LIFETIME FOR MANETS
2565.	EFFICIENT PELTIER TEMPERATURE CONTROLLER MODULE
2566.	EFFICIENT TIME CLOSURE IN SOC THROUGH TIME QUALITY CHECKS AND ENGINEERING CHANGE

S.No.	DISSERTATION TITLE
	ORDER
2567.	EMMC CONTROLLER
2568.	ENHANCED AUDIO RETURN CHANNEL
2569.	ENHANCED RECEIVE AGC FOR WIDEBAND HIGH DYNAMIC RANGE SYSTEMS
2570.	ETHERNET STATISTICS MONITORING USING HARDWARE
2571.	FPGA ACCELERATION OF BACKGROUND MODELLING ALGORITHM IN OBJECT-DETECTION PIPELINE
2572.	FPGA BASED GENERIC POWER DELIVERY SOLUTION FOR VALIDATION PLATFORMS
2573.	HARDWARE ACCELERATOR FOR MICROBLAZE
2574.	HARDWARE EFFICIENT EDGE AWARE FILTERING FOR IMAGE DENOISING
2575.	HDL DESIGN OF DIRECT DIGITAL FREQUENCY SYNTHESIZER IP WITH AXI INTERFACE FOR SIGNAL PROCESSING SOCS
2576.	HIERARCHICAL & PROTOTYPING FLOW USING FLEX-ILMS FOR FASTER PLACE AND ROUTE RUNTIMES
2577.	HIGH SPEED CHANNEL EVALUATION
2578.	HYBRID PAPR REDUCTION TECHNIQUE
2579.	IBIS 4.2+ AND IBIS -AMI MODELING AND AUTOMATION FOR STANDARD AND HIGH SPEED IOS
2580.	IMPLEMENTATION AND IMPORTANCE OF MODULATION IN WIRELESS RADIO COMMUNICATION
2581.	LOW POWER & AREA ANALOG RECEIVER WITH HYSTERESIS
2582.	MATLAB DESIGN, IMPLEMENTATION AND SIMULATION OF SC-FDMA SYSTEM
2583.	NEAR FIELD COMMUNICATION: RFID BASED DISPENSER
2584.	PCB BASED INTERCONNECT DESIGN CHALLENGES FOR HIGH SPEED APPLICATION
2585.	PERFORMANCE ANALYSIS OF RISC PROCESSOR ON LOWER TECHNOLOGY NODE AT VERY HIGH FREQUENCY
2586.	PERFORMANCE COMPARISON OF SI POWER FET VS GAN FET IN BRIDGELESS SOFT COMPUTING PFC TO OPTIMIZE FREQUENCY AND SIZE
2587.	PHYSICAL DESIGN IMPLEMENTATION OF ON-DIE DROOP INDUCER (ODI) AND VOLTAGE DROOP MONITOR (VDM) AS PART OF ANALOG DFT FEATURES.
2588.	POINT TO POINT ROUTER FOR CUSTOM DIGITAL CELLS
2589.	POWER DISTRIBUTION NETWORK ANALYSIS AND SIMULATION OF HIGH CURRENT DENSITY MICROPROCESSOR PLATFORMS
2590.	PPA ANALYSIS AND OPTIMIZATION USING VARIOUS CTS METHODOLOGIES IN LOW POWER DESIGNS
2591.	PROGRAMMABLE ELECTRICAL RULE CHECKS (PERC) IN SOC
2592.	QUALITATIVE COMPARISON OF DIFFERENT CLOCK TREE SYNTHESIS APPROACHES IN VLSI PHYSICAL DESIGN
2593.	REAL-TIME CAPABILITY OF IOT GATEWAYS
2594.	REDUCTION OF DENSITY IN HIGH DENSITY/CONGESTED DESIGNS
2595.	REMOTE CAMERA DISPLAY FOR VIDEO SURVEILLANCE SYSTEM
2596.	REUSABLE CHECKERS AND ASSERTIONS FOR DIGITAL MIXED SIGNAL VERIFICATION OF RTL DESIGN
2597.	RISC-V BASED MULTI CORE IN SYSTEMC TLM
2598.	SAS SYNTHESIZABLE BFM TO VERIFY FAIRNESS OF SAS EXPANDER OVER EMULATION PLATFORM
2599.	SCHEMATIC AND LAYOUT DESIGN OF A LOW VOLTAGE DROP REGULATOR
2600.	SEAGATE TECHNOLOGY (HDD), PUNE
2601.	SERIAL LOW-POWER INTER-CHIP MEDIA BUS
2602.	SMART SECURE IOT DEVICE
2603.	STUDY AND IMPLEMENTATION OF REVERSIBLE LOGIC GATE FOR EFFICIENT CIRCUIT DESIGNING
2604.	SUBSYSTEM IN AI BASED SOC PLATFORM
2605.	SYNTHESIS USING HIERARCHICAL INTERFACE LOGIC MODEL FLOW FOR BETTER MEMORY FOOTPRINT
2606.	THE IMPORTANCE OF MEMS MANAGDEVICES IN THE FIELD OF AUDIOLOGY FOR DIAGNOSIS AND EMENT OF HEARING LOSS - A REVIEW
2607.	TRACE DATA PATH VERIFICATION USING ATB VIP & VERIFYING HARDWARE SECURITY ASPECT OF SOC
2608.	UNIVERSAL CONNECTOR FOR IOT DATA LOGGER
2609.	UVM VERIFICATION ENVIRONMENT FOR THE VERIFICATION OF LINK LAYER OF SAS/SATA SUPPORTING 3 GBIT/S, 6 GBIT/S, 12 GBIT/S, OR 22.5 GBIT/S
2610.	VALIDATION OF INTERCONNECT PROTOCOL CONTROLLER BLOCKS USING INSTRUCTION BASED CONFIGURABLE HARDWARE
2611.	VERIFICATION OF DATA COHERENCY IN COMPLEX MULTI-CORE CPU SUB-SYSTEMS USING AUTOMATIC TEST GENERATION
2612.	WIRELESS NODE SYSTEM BASED INTRUSION DETECTION AND LOCKING SYSTEM USING OPEN SHORT EST PATH FIRST ROUTING TECHNIQUES
	M.Tech. Pharmaceutical Operations & Management
2613.	CURRENT GMP CHALLENGES AND COMPLIANCE AS PER USFDA AND DATA INTEGRITY

S.No.	DISSERTATION TITLE
2614.	OPTIMIZATION OF PRODUCTION PLAN AND CONTROL OF PROCESS FLOW TO MEET THE SUPPLY DEMAND OF PRODUCT TO MARKET.
	M.S. Software Systems
2615.	DIGITAL STORAGE AND SINGLE-SIGN-ON FOR ENTERPRISE
2616.	SENTIMENT ANALYSIS OF MOVIE REVIEWS USING MACHINE LEARNING TECHNIQUES
2617.	DESIGN AND IMPLEMENTATION OF A CHATBOT TO SUPPORT CUSTOMER JOURNEY
2618.	OPTIMIZATION OF SOLAR POWER CONSUMPTION USING MACHINE LEARNING ALGORITHMS
2619.	TRANSPORT INFORMATION COORDINATION SYSTEM (LOGISTIC TOOL)
	M.S. Consultancy Management
2620.	ANALYSIS AND DEVELOPMENT OF ENTERPRISES FOR GRAFTING INDUSTRY
	M.S. Manufacturing Management
2621.	OPTIMIZATION OF WAREHOUSE LAYOUT BY CONVERT THE WHOLE PROCESS IN TO AUTOMATION THROUGH PLANT SIMULATION / MICROSTATION
2622.	VALUE ANALYSIS OF HYDRAULIC MOTOR

STATEMENT OF DEGREES AWARDED

Degrees	No. of degrees	
	84 th Award (22.03.2019)	85 th Award (16.07.2019)
A. Integrated First Degrees		
B.S.		
B.Optom	2(1)	73(57)
Engineering Design	-	1(1)
Engineering Technology	17(0)	5(0)
Information Systems	1(0)	1(0)
Manufacturing Engineering	2(0)	-
Marine Engineering	18(0)	
Nautical Technology	3(0)	5(0)
Optometry	25(18)	5(3)
Physician Assistant	-	-
Power Engineering	1(0)	-
Process Engineering	-	-
B.Tech.		
Engineering Technology	254(8)	148(6)
Information Systems	80(18)	5(1)
Manufacturing Technology	85(0)	1(0)
Marine Engineering	223(3)	6(0)
Nautical Technology	14(0)	23(0)
Power Engineering	1(0)	29(0)
Process Engineering	1(0)	48(1)
M.Sc.		
Information Systems	-	3(1)
Business Analytics	35(10)	33(11)
Sub Total	762(58)	386(81)
B. Higher Degrees		
M.S.		
Consultancy Management	-	1(0)
Design Engineering		1(0)
Manufacturing Management	3(0)	3(0)
Quality Management	-	-
Software Engineering	8(7)	-
Software Systems	11(3)	3(1)
Systems Engineering	1(1)	
MBA		
Consultancy Management	32(4)	39(7)
Finance	27(5)	31(7)
Manufacturing Management	45(3)	42(3)
Quality Management	29(6)	37(9)

Degrees	No. of degrees	
	84 th Award (22.03.2019)	85 th Award (16.07.2019)

B. Higher Degrees

M.Tech.

Automotive Engineering		-
Computing Systems & Infrastructure		94(19)
Design Engineering	214(17)	217(15)
Embedded Systems	176(23)	137(36)
Manufacturing Management	117(6)	205(14)
Microelectronics	51(8)	130(23)
Pharmaceutical Operations & Management	22(6)	-
Quality Management	91(14)	118(11)
Science Communication	-	-
Software Engineering	828(457)	96(45)
Software Systems	633(141)	881(244)
Systems Engineering	-	-
Transportation engineering	-	-

M.Phil.

Consciousness Studies	-	-
Hospital and Health Systems Management	9(1)	3(0)
Optometry		-

Post Graduate Diploma

Finance	1(0)	8(5)
Manufacturing Management	34(0)	1(1)

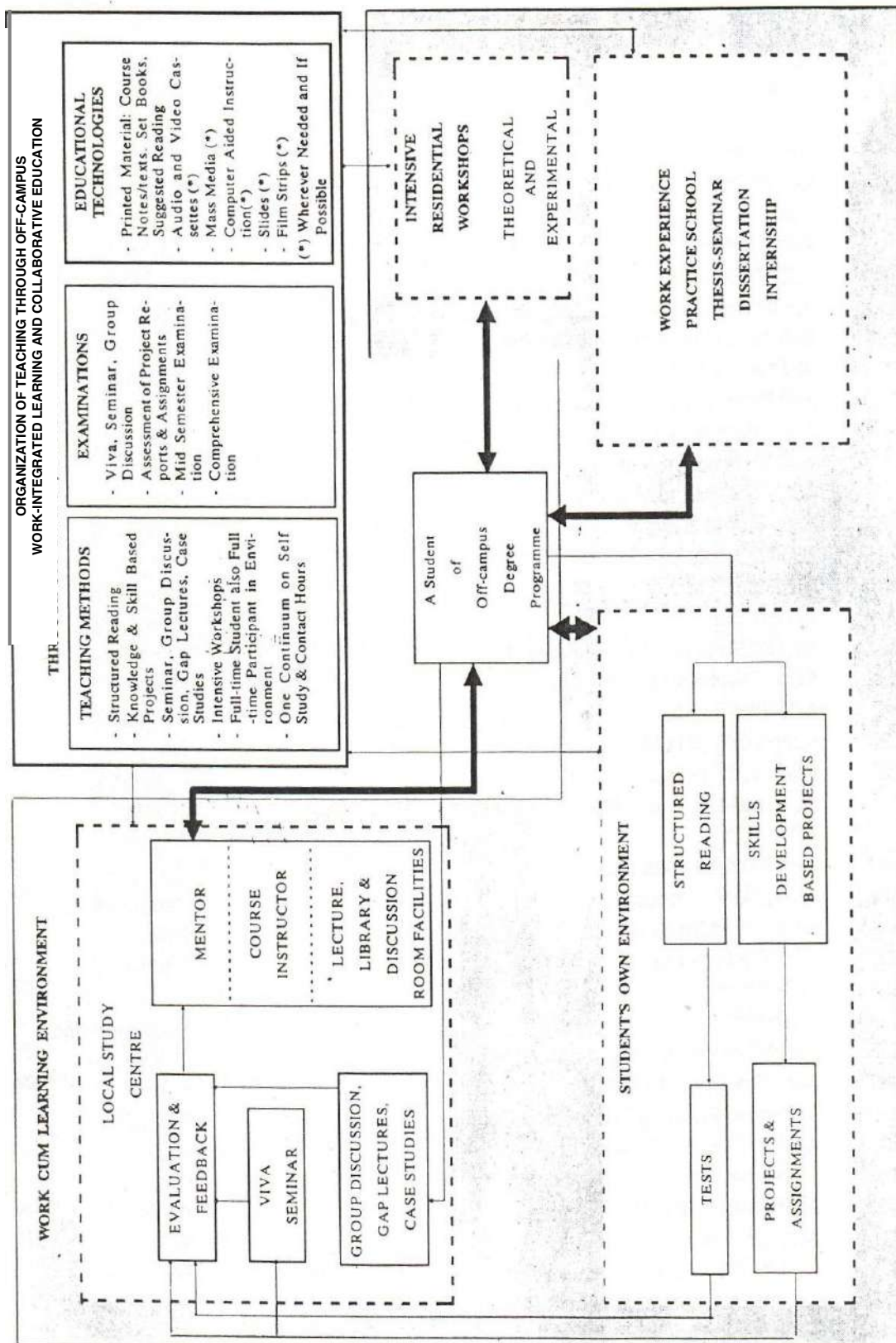
Sub Total	2332(702)	2060(460)
Total	3094(760)	2446(541)

Note: The numbers in brackets indicate number of female students.

SUMMARY

Award	84 th	85 th	Total
Integrated First Degrees	762(58)	386(81)	1148(139)
Higher Degrees	2332(702)	2060(460)	4392(1162)
Total	3094(760)	2446(541)	5540(1301)

Note: The numbers in brackets indicate number of female students.



A Schematic depicting Person-centred Approach to a Student's Programme of Study in the Off-campus, Education System under Work Integrated Learning Program viewed from the Student's stand-point



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