BITS Pilani

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SIMULATION
ENLARGE PLAN INFORMATION LAB INDUSTRY BIOLOGICAL CHEMICAL FINANCE
TEAMWORK TECHNOLOGY DISCOVERY MODELING MAGNIFY PHARMACY
SCIENCE WEB SEARCH INNOVATE LENS EDUCATION EXPERTISE INSPIRATION
PERSON CHEMISTRY SCIENTIST LEAD SURVEY ACHIEVE MATHEMATICS
RESEARCH
MANAGEMENT ELECTRICAL ANALYZING ENTREPRENEURSHIP
ANALYSIS SYMBOL ELECTRONICS BUSINESS
LABORATORY CONCEPT STUDY WORDS DESIGN PHYSICS

RESEARCH AT BITS
2019

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PREFACE

Research activities at BITS Pilani encompass work conducted by large number of students at all levels in the three-tier structure of the educational programmes. A one-semester full-time Thesis course at the First Degree tier and a Dissertation course at the Higher Degree tier offer excellent opportunities to bright students to be involved in research. In the Doctoral programme, a large number of PhD students located at on-campus, as well as off-campus locations are engaged in research work in various research areas. The Institute's linkages with industries, R&D Centres and other institutions in the country and abroad have given a further boost to the research activities of the Institute.

BITS Pilani relies on the motivated intellectual manpower pool available among its faculty and students. Faculty conduct research as an integral part of their responsibilities in the Institute which enables them to assimilate and disseminate the knowledge in addition to generating new knowledge. In addition to this, BITS has devised innovative schemes to enable professionals-at-large to conduct research at their place of work and simultaneously work towards a PhD degree of the Institute.

"Research at BITS" gives details of the academic and sponsored research, consultancy and publication related information involving students and faculty in the different campuses of BITS Pilani. The Annexures to the document list the research related information carried out at all the three tiers of education in the Institute during the year 2019.

CONTENTS

I. SUMMARY

Over past five years, BITS Pilani has aggressively pursued an agenda for research and innovation, which includes (i) expansion of academic research conducted at all three tiers of its education programme, i.e. First Degree, Higher Degree and PhD and (b) innovation and entrepreneurship through sponsored research and consulting. BITS Pilani has taken several initiatives to support and cultivate a research environment in all four of its campuses in Pilani, Goa, Hyderabad and Dubai. This report summarizes the growth of both academic as well as sponsored research.

1. Academic Research:

BITS Pilani continues to make it more attractive for students to join the PhD programme by taking several initiatives -

- Enabled professionals working in organizations in the vicinity of BITS Pilani campuses to join the PhD programme of the Institute on a Part- Time basis.

- In order to attract bright students into research, all students admitted to the PhD programme with a Higher Degree of BITS Pilani or its equivalent from Semester-1, 2019-2020 onwards receive an Institute fellowship of Rs. 28,000/- or Rs. 31,000/- per month. The Institute fellowship was Rs. 25,000 earlier. After completion of 2 years and DCC approval of the research proposal, the fellowship will be increased to either Rs. 33,000/- or Rs. 35,000/- per month.

- While BITS Pilani is expected to pay a stipend to 50% of all its full time PhD students, the number of PhD students receiving scholarships from CSIR/UGC/ICMR/DBT etc. or by sponsored R&D has grown significantly from 23 in 2010 to 310 in 2019. Around 58% of all Doctoral students receiving funding in one form or the other are supported by Institute fellowship.

BITS Pilani has demonstrated a satisfactory growth in research at all three tiers of education.

- Number of PhD degree awarded was 123 in the year 2019.

- Dissertation projects by Higher Degree students have grown from 61 to 474, since 2010.

- Thesis projects completed by First Degree students have grown from 139 to 2443, since 2010.

- Number of research papers published by faculty members in SCOPUS indexed journals, have increased from 281 to 1397 since 2010.
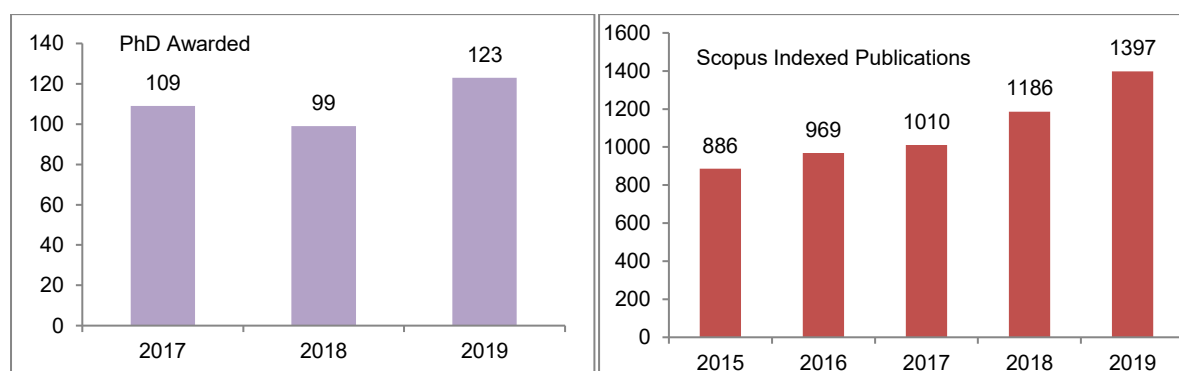

Fig.1: Data indicating (a) Number of PhD degrees awarded and (b) Research papers published by BITS faculty in SCOPUS index journals.

2. Sponsored Research and consultancy

BITS Pilani vision is to be among top research focus institutes in Asia by 2022. Through its mission 2012 and 2015 and the project Lakshya, various initiatives were taken to enhance the research capabilities. During the period April 01, 2019 - Feb 29, 2020, 149 externally funded projects worth Rs. 43.2 cr have been approved. The average external research funding has increased from Rs. 17.4 cr/year (2010-11 to 2015-16) to Rs. 31.2 cr/year (2015-16 to 2019-20). This includes 9 international projects worth Rs. 3.37 cr, 21 Industry projects worth Rs. 9.67 cr, 14 consultancy projects worth Rs. 1.39 cr and USD I Million Alumni funding support for APPCAIR Centre. In addition to the new projects, 352 externally funded sponsored projects worth Rs. 98.5 cr were ongoing. Of this, 42 projects worth Rs. 11.8 cr were completed successfully. During 2019-20, 9

infrastructure grants supported through DST-FIST funding worth Rs. 11.8 cr were ongoing. A total of 24 Indian patents applications were filed during Jan 2019 to Dec 2019.

Following are the important highlights of the sponsored research:

- External projects worth Rs. 43.2 cr (149 projects) has been approved, highest amount achieved so far in a given financial period.

- Funding distribution was Government 66.6%, Industry 22.3%, International 7.8 % and consultancy 3.3%.

- A major grant of USD 1 million was sanctioned by Alumni for Anuradha and Prashanth Palakruthi Center for Artificial Intelligence Research "APPCAIR" to undertake interdisciplinary-Industry research at BITS Pilani.

- A consortium grant (Rs. 3.29 cr) has been sanctioned to Prof Rajiv Gupta, Pilani campus and Dr. Suchismita Satpathy of Hyderabad Campus from DST.

- A major grant (Rs. 1.2 cr) by was recently approved to Prof Ashis Das, Pilani campus in collaboration with Prof Sunil Bhand (Goa) and Prof Sanket Goel (Hyderabad) and Medical College & Hospital Kolkata under ICMR-Malaria Elimination Resesarch Alliance (MERA).

- A major international grant of EUR138,350 (Rs.1.2 cr) was sanctioned by European Union (through ERASMUS PLUS scheme) to Prof. Veeky Baths of KK Birla Goa campus in the area of Integrated Track in Brain and cognitive neuro science "IBRAIN" project led byProf B Gutkin of Ecole Nomale Superieure, France with 7 European Universities.

- Prof Srikanth Mutnuri of K K Birla Goa campus has been approved a grant (Rs.1.5 cr) by DBT-BIRAC jointly with Ghent University Belgium in the area of Empowered Septic Tank as decentralized waste water treatment system.

- Prof. Srinivas Krishnaswamy at K K Birla Goa campus received a funding of Rs. 78 lakh under Mission Innovation (carbon capture challenge) from DST in collaboration with University of Manchester UK.

- Prof Naga Mohan of Hyderabad Campus received a funding of Rs 60 lakh from DST in the area of Molecular genetic analysis of schizophrenia patients.

- 19 Industry projects worth Rs. 9.4 cr and 14 consultancy projects worth Rs 1.25 cr were received from various industries namely; Praveen Laboratories Pvt Ltd, Surat, M/s Mayur Uniquoters Pvt. Ltd, First Green Conulting Pvt. Ltd, Ministry of Steel, Shastri Institutional Collaborative Research Grant (SICRG), Total Oil India Pvt. Ltd, ABSTCPL Mumbai, Apollo Tyres Chennai, National Geographic Society, Nokia, Strata Geosystems Pvt Ltd, Aliens Group Pvt. Ltd, Hindustan Batteries Ltd., Incilia Therapeutics Pvt. Ltd., ISSAR, Slay back Phartma Hyderabad, Aegis Logistics Limited, Deccan Fine Chemicals Goa, Goa Shipyard Ltd., Laxmi Organic Industries Ltd., NABARD Consultancy Services Pvt Ltd, Roots Multiclean Ltd. Tamilnadu, Shree Pushkar Chemicals & Fertilizers Ltd, Tata Consultancy Services TCS Delhi, Zuari Foods & Farms Pvt. Ltd, Tropical Mushrooms Goa. Indian Institute of Banking and Finance, Aizant Drug Research Solutions Pvt.Ltd, Cyclone Titlli.

- Grants were received from funding agencies namely Department of Science & Technology (DST), Science and Engineering Research Board (SERB), Department of Biotechnology (DBT), Council of Scientifc and Industrial Reserch(CSIR), Board of Research in Nuclear Sciences (BRNS), Defense Research and Development Organization (DRDO), Indian Council of Medical Research (ICMR), Indian Space Research organization (ISRO), Indan Council of Agricultural Resesarch (ICAR), Indian Council of Social Science Research (ICSSR), Wildlife Trust of India, UGC-DAE Collaborative Research Scheme (CRS), National Council of Educational Research and Training, Govt of Telangana Roads & Buildings.Central Pollution control Board (CPCB) etc.
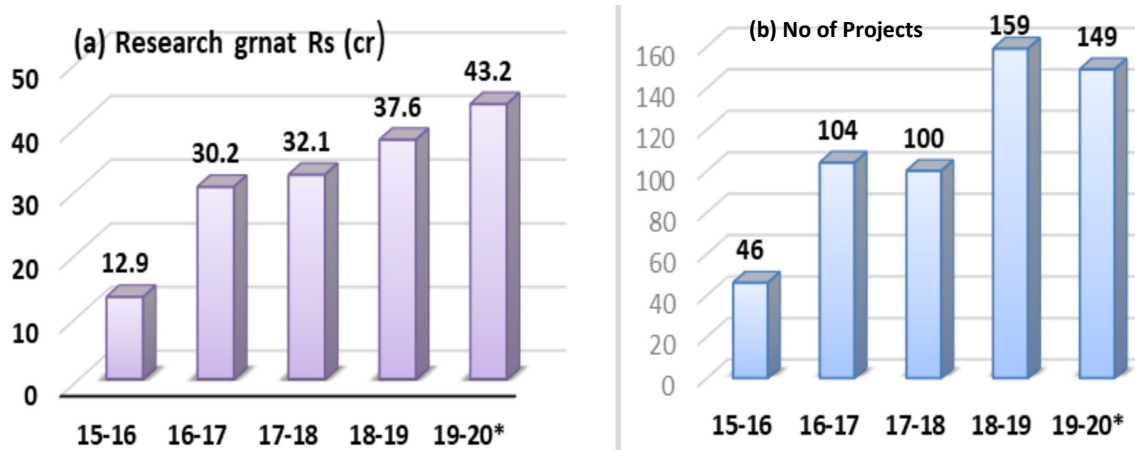

Figure 1(a): Trend of sponsored research funding and (b) number of projects approved year wise
(*as on March 09, 2020*)

Promotional Efforts for Research

Research Initiation Grant

Research Initiation Grant aims to enable and support research related activities for a newly recruited faculty. The grant of Rs 2.0 lakhs is awarded soon after the faculty joins BITS Pilani and is to be spent within 24 months of appointment. It is expected that faculty who avail Research Initiation grant will seek external funds to support their research program within two years of the commencement of the grant.

Seed Grant Scheme of the Institute

The Institute has initiated a competitive Seed Grant Scheme. The scheme is designed to stimulate competitive research in strategic areas of national or international importance, to promote innovative product and technology development, and/or to facilitate the start of research programs which will potentially develop into creative ventures on their own through external funding. It aims to aid a faculty to engage in sustained research that has the potential to attract funds from external agencies. Grants are awarded to a maximum value of Rs.20 Lakhs.

Additional Competitive Research Grant for New Faculty

This scheme provides up to 10.0 lakhs to a new faculty to initiate research by procuring equipment or establishing facility necessary for his/her research. This scheme is over and above (a) the usual Rs 2.0 lakh given to eligible new faculty as "Research Initiation Grant" and (b) the Seed grant made available on a competitive basis to existing faculty to initiate research.

Industry Immersion Program

BITS Pilani encourages and supports its on-campus faculty members to spend a few weeks in industry through an Industry Immersion Programme. This helps the faculty members to gain first-hand exposure to industry practices and eventually enable them to utilize this knowhow during teaching in the classroom and for research work. It is expected that faculty define a roadmap to address one or more technical challenges identified during the visit by way of "R&D projects" and seek funding support from the company itself or from a funding agency. BITS Pilani encourages its faculty members to receive financial support from the company for travel, stay, and per diem, as also honorarium. Support to faculty from BITS Pilani in this Industry Exposure Program though limited is provided.

University Immersion Program

BITS Pilani encourages and support its faculty members to spend few weeks in reputed research institutions (within and outside India) through the University Exposure program. It is expected that faculty will gain first-hand exposure to current/latest advances in research and define (or re-define) one's research agenda, incorporating therein the possibility for cross-discipline and international collaboration and seek funding from national/international funding agencies. The typical financial support offered to faculty under this programme is given below:

Travel cost in economy class (actual), but limited to (Rs.):	1,00,000/-
Lodging cost (actual, per week, Rs.):	30,000/-
Boarding cost (fixed, per day, Rs.):	3,500/-
Miscellaneous, including local travel (fixed, per week, Rs.):	5,000/-
Visa fees (actual, but limited to Rs.):	10,000/-
Medical Insurance (actual) but limited to (Rs.):	5,000/-
Eligible to be considered to be "on duty":	Yes

Opera award

The award named OPERA award (for "Outstanding Potential for Excellence in Research and Academics") is to facilitate and incentivize new faculty to join BITS Pilani and excel in research and teaching. The award is in the form of a "joining bonus" paid over 5 years, plus funds to kick-start their R&D and professional development. The award will help compensate new faculty (or provide R&D funds) at par with the best institutions in India. The award carries a grant of Rs. 4.2 Lakhs per year for 5 years, subject to a performance review at the end of 2 years. The award is given to facilitate and incentivize new faculty to excel in research and teaching. From the grant, the faculty may (at his/her option) take home up to Rs. 21,000 pm as honorarium, and use the balance for any academic purpose that helps him/her to initiate research and grow professionally (including support to research students/staff, undertake domestic or international travel to attend a conference, or procure equipment, supplies or books, etc.).

Chair Professor Positions

BITS Pilani invites applications / nominations for Chair Professorship positions in the Institute. The applicant is expected to be a Full Professor with an established record of teaching, an exceptional record of published research in high quality journals, including guidance of PhD students and demonstrated ability to attract significant research funding as well as having an ability to lead teams in multidisciplinary projects. The incumbent is also expected to serve as mentor to junior faculty members and to the students.

The faculty member "appointed against the Chair" will be called "XXX Chair Professor" and will receive at the beginning of each year a research grant of an amount up to 6 Lakhs. It also includes a monthly honorarium of up to 30,000/-. Apart from the honorarium, the Chair Professor will draw the normal emoluments of a Professor as per 7th pay commission. The grant may be used for any academic purpose including hiring of research students / staff, undertaking domestic or international travel, incurring expenses towards specialized training in India / abroad, procurement of equipment, supplies and books, source support services, inviting collaborators for short visits across BITS Pilani campuses etc. The "appointment" against the Chair will be normally made for a period of up to five years, but such that it does not extend beyond the term of employment as Professor.

Faculty Development Scheme

This scheme of the Institute allows for faculty holding a Higher Degree of the Institute or its equivalent to pursue PhD and simultaneously contribute to academic activities of the Institute as lecturers. The Institute waives their total admission and tuition fee under this scheme.

Part Time PhD Scheme

The Institute, in addition to its full time PhD programme offers opportunities for candidates working in reputed research organizations, academic Institutes and industries, situated preferably in the close vicinity of any of the campuses of BITS Pilani to pursue a PhD Degree on a part time basis.

PhD Aspirants' Scheme

The Off-campus PhD under the PhD Aspirants' scheme has attracted wide attention. Under this scheme, an opportunity is provided to candidates of high standing and proven competence from organizations having collaboration with BITS Pilani, to study for the PhD degree of the Institute within the environment of their professional settings.

A few important organizations from which candidates were/are associated with the Institute under the Aspirant scheme are listed below:

- Indian School of Business, Hyderabad
- Tata Institute of Fundamental Research, Mumbai
- Central Electronics Engineering Research Institute, Pilani
- Industrial Toxicology Research Centre, Lucknow
- Sankara Nethralaya and Elite School of Optometry, Chennai
- L.V. Prasad Eye Institute, Hyderabad
- Institute of Cardio-Vascular Disease, Chennai
- Institute for Technology and Management, Navi Mumbai
- Institute of Pathology, ICMR, New Delhi
- Infosys, Pune
- Indian Army, Delhi / Secundarabad
- G. E. Healthcare, Bangalore
- Crompton Greaves Ltd., Jalgaon
- Dr. Reddy's Lab, R&D, Bachupally, Hyderabad
- DRDO, Research Centre IMARAT, Hyderabad
- Elfit Arabia, Ajman, UAE

Research at Higher & First Degree Levels

As part of the academic requirement of the Higher Degree, (i.e. M.E./M.Pharm./M.Phil./MBA.) of the Institute, students are offered opportunities to do a one or two Semester Dissertation. Higher Degree students opting for a Dissertation register for this course in the third and/or fourth semester of the programme and work under the supervision of a faculty on a research project. Dissertation work can be carried out under the on or off-campus mode.

At the First Degree tier, besides various project courses, students can opt for an on-campus one full-semester Thesis project of 16 units or of 9 units along with course work, in which research is pursued on a relevant topic. The thesis can also be carried out at a suitable R&D Centres / Universities outside BITS Pilani (within India or abroad).

Students Contribution

The creative and talented pool of students at BITS Pilani are also actively engaged in carrying out research based project works at Practice School Centres which is an integral part of the First or Higher Degree programme. They also contribute towards research activities by participating in Conferences, Seminars, Symposia and Training Programmes. Every year a technological festival called 'APOGEE' is organized in Pilani, wherein the students put up ingenious models depicting latest advances in science and technology. An equivalent festival 'QUARK' and "ATMOS'is organized in the BITS-Pilani K.K. Birla Goa and Hyderabad Campus respectively.

Institute Fellowship

With a view to increase enrolment of PhD students, Institute has created Research Assistantship for full time Research Fellows. The PhD fellowship amount has been increased up to 28,000/- or Rs. 31,000/- (depending on input qualifications) per month from Rs. 25,000/-. A total of 442 full time research students, admitted to the PhD programme, received Institute fellowship across campuses in 2019.

Research Scholarships

Full-time PhD students are encouraged to pursue their research work with the support of Fellowships awarded by national agencies such as the Council for Scientific and Industrial Research (CSIR), University Grants Commission (UGC), Department of Science & Technology (DST), Department of Biotechnology (DBT), Defence Research and Development Organization (DRDO), Indian Council of Medical Research (ICMR), Ministry for Non-conventional Energy Sources (MNES) and International agencies such as Indo-US Science Technology Forum, Newton Bhabha Fellowship ((Indo-UK), Erasmus Mundus Fellowship (European Union), Raman Charpak Fellowship (Indo-French) etc.

Research at Outside Centres

Opportunities are also provided to full time research scholars and faculty for carrying out their research work at outside centres within the country and abroad so as to develop manpower in the newer areas of technology and giving special orientation to research. Currently, institutional arrangements with various international universities and research organizations exists in the form of MoU for this purpose.Faculty and PhD students have also been actively participating for high quality research exchange within the joint bilateral International sponsored projects with Brazil, Cananda, France, Germany, Japan,Netherland, Russia, Ukraine, U.K. and USA etc.

Sponsored Research Projects

BITS encourages its faculty to undertake sponsored research projects as well as consultancy projects. The Institute has received sponsored research projects from various national agencies such as Council for Scientific and Industrial research (CSIR), Department of Science and Technology (DST), Department of Biotechnology (DBT), Board of Research in Nuclear Sciences, (BRNS), ,Defence Research and Development Organization (DRDO), Department of Electronics and Information Technology (DeitY), Indian Council of Medical Research (ICMR), Indian Council of Agricultural Research (ICAR), Indian Council of Social Science Research (ICSSR),Indian Space Research Organizaiton (ISRO), Ministry of Nonconventional Energy Sources (MNES), Ministry of Mines, ,and International agencies suchas Bill and Melinda Gates Foundaiton, Indo-UK (UKIERI), DAAD and BMBF (Germany), Indo-French (DST-CEFIPRA), British Council, VINNOVA (Swedish Agency for Innovaiton), Newton Funds (UK), Global Challenge Research Funds, UK, Medical Reserch Council UK, IC-IMPACT Canada, Research Council Norway, Royal Academy of Engineering UK, Newton Bhabha Funds UK,EAWAG Switzerland, GIZ Germany, and such other international bilateral grants. The faculty also received funding from Industries such as Gas Authority of Idnia Limited (GAIL) , Center for High technology (Ministyr of Petroleum), Accenture (USA), Lockheed Martin (USA), TCS India, CISCO, Nokia, Microsoft Research India (MSRI),, Cipla Biotech Ltd., Tata Trust, HP Lab India, Ranbaxy Research laboratories Ltd., IPCA Laboratories Ltd., INTAS Pharmaceuticals Ltd., Mornigsight UK, etc. Since 2010 the sponsored R& D funding of BITS has significantly grown from Rs. 7.5 cr in 2010-2011 to Rs. 32 cr in 2018-19. Section II gives a list of ongoing sponsored research and consultancy projects.

New Initiatives towards Inducting Fulltime Research Students at the Institute

Direct Fellowships by other funding agencies

Funding agencies such as Council of Scientific and Industrial Research (CSIR), University Grants Commission (UGC), DST, ICMR has provided 146 Junior and Senior Research Fellowships in the year 2019 across the three Indian campuses. These research fellows are working towards a PhD degree of the Institute.

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, MOM, BRNS, MNRE, UGC, ICMR, TCS etc. A total of 164 such research scholars were funded in 2019, across the three Indian campuses.

Areas of Research

Currently the research activities are focused in the following areas:

Areas of Research
Biological Sciences: Environmental Biotechnology, Bioinformatics, Microbial Biotechnology, Molecular Biology, Molecular Parasitology & Vector Biology, Molecular Diagnostics, Cancer Biology and Biomarkers, Plant Biotechnology.
Bioengineering: Biomaterials, Biomechanics, Bioinstrumentation, Bio-transport Process.
Civil Engineering: Structures, Water Resources, Geotechnical, Transportation, Environmental Engineering, Image Processing and G.I.S., Disaster Management, Earthquake Engineering, Solar Architecture, Finite Element Method, Non-traditional optimization algorithms, Artificial Neural Networks, Fuzzy Logic and Multi-criterion Decision Making and their applications.
Chemical Engineering: Biochemical Engineering, Biomass Gasification, Computation Fluid Dynamics, Energy Engineering, Environmental Engineering, Evolutionary Computation, Modeling and Simulation, Multi-Objective Optimization, Multiphase Reactors, Process Dynamics and Control, Process Integration and Process Intensification, Reaction Engineering, Polymer Science and Engineering, Process Synthesis and Design, Separation Processes and Petroleum Refining and Petrochemicals.
Chemistry: Organic including Natural products, Bioorganic, Inorganic, Bioinorganic, Physical, Biophysical, Medicinal, Analytical, Green, Theoretical and Computational Chemistry; Nanomaterials; X-Ray Crystallography.
Computer Science & Information Systems: Computer Networks, Distributed Systems, Database Systems, Software Engineering, Operating Systems, Multimedia, Computer Control Systems, Computer Architecture, Compilers, Formal Methods, Information Retrieval
Economics and Finance: Macroeconomic Models and Policy, Microeconomic Analysis, Money and Financial Markets, Financial Engineering, Econometric Studies, Financial Modeling, Mathematical Economics, Environmental Economics, Resource Management Systems, Growth Economics, Banking, Micro Finance, Capital Markets, Macroeconomic Modeling, Applied Finance, Environment and Resource Economics International Trade and Finance, Strategy, Financial Management, Corporate Planning, Entrepreneurship, Project Management.
Electrical and Electronics Engineering: Communication Systems, Wireless and Mobile Ad-hoc Networks, Optical Communication and Networks, Microelectronics and VLSI Design, Signal Processing and Embedded Systems, Power Electronics and Drives, Power Systems, Telecommunication, Robotics and Intelligent Systems, Fiber Optic Sensors, Artificial intelligence techniques in robotics, Instrumentation & Control, Wearable computing, Energy and Power Systems.
Humanistic Studies: Gender Issues including Women Studies, Medical Sociology, Developmental Sociology, Indology, Governance, Business Ethics, Conflict Management, Ethical Communication, Social Development, Sustainable Livelihoods, Consciousness Studies, and Social Ecology.
Languages: Professional Communication, ELT, Literature and Cinema, English Language and Literature, Soft Skills, Mass Communication.
Mathematics: Coding Theory, Cryptology, Algebraic Geometry, Parallel Computing, Fuzzy Logic and its applications, Water pollution, Mathematical Modelling, Nonlinear functional analysis, Computational fluid dynamics, Optimization, Operations Research, Mathematical Biology, Differential equations, Fractional Calculus, Dynamical System, Epidemiology.
Mechanical Engineering: Product Design and Development, Manufacturing Engineering, Manufacturing Excellence Practices, Design Engineering, Materials Engineering, Fracture Studies, Non-destructive Testing, Robotics and Intelligent Systems, Nano Technology, Thermal Engineering, Energy Systems Engineering and Energy Management.
Management: Indian Management Practices, Management Practices in MNC, Cross Cultural Management, Performance Appraisal, Strategic Marketing, Retail, Brand Management, Clustering Methodology, Strategy, Sustainable Development, Evolving Capitalism& Regulations, Project Management, Production Management, Facility Layout Planning, Application of TOC in Operations Management, Supply Chain Management, R&D Management, R&D Performance Measurement, Technology Management, ERP, MIS, E-business, Image Processing, Risk Management, Capital Markets, Quantitative Methods, Business Modeling, Stochastic Modeling of Production Systems, Reliability Analysis & Modeling, Organizational Behavior, Positive Health Psychology, I/O Psychology, Indian Psychology, Innovation and Creativity, Negotiation Skills, Managerial Skills, Entrepreneurship and Health Care Management.
Pharmacy: Drug Design, Synthesis and Screening of New Bioactive Molecules, Drug Delivery Systems, Phytochemistry and Natural Drugs.
Physics: Materials Physics; Condensed Matter Physics; Nuclear, Particle and High Enerrgy Physics; Optics & Spectroscopy.
Interdisciplinary Research: Nanotechnology and nanoscience, Nano-robotics, Micro-electro-mechanical systems (MEMS), Nanomaterials, Mechatronics.

The next section and appendices give details of research achievements in the current year.

III. RESEARCH ACHIEVEMENTS IN 2019

In this section, significant achievements made in academic and sponsored research and related aspects are presented. These are presented under the following broad categories:

- Candidates awarded a PhD Degree

- Thesis submitted or under evaluation

- Research Contributions through Higher Degree Dissertations

- PhD Qualifying Examination

- Research Publications

- New Doctoral Research Topics/Supervisors approved by the Research Board

- Sponsored Research Projects

- Consultancy Projects and Services Offered

- Research Related Seminars/Workshops

- Patents filed by BITS faculty

1. Doctoral Theses of the Year (PhD awarded)

This year the following candidates were awarded PhD degree of the Institute. A summary list of Ph.D. since 2010 is given in Annexure – 1.

Pilani Campus

S.No	Name	Department	Supervisor / Co-supervisor	Thesis Title
1	Tania Pal Choudhary	Biological Sciences	PN Jha/Sanjeev Kumar	The Identification and Characterization of Mosquito Peroxidase(s) and their role in orchestration of Mosquito Immunity
2	Subhra Dash	Biological Sciences	Rajdeep Chowdhary/ Sudeshna Mukherjee	Analysing the Role of TNF-α and Autophagy in Regulation of TGF-β Induced Epithelial to Mesenchymal Transition in Cancer Cells
3	Parva Kumar Sharma	Biological Sciences	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
4	E. Divya Niveditha	Biological Sciences	Shibasish Chowdhury	An In-Silico Investigation of Sequence Features of miRNAs and its Functional association with Cancer
5	Rajeev Sharma	Chemical Engineering	Pratik N. Sheth	Experimental and Theoretical Study of Biomass Pyrolysis and Product Characterization
6	Tapas Kumar Patra	Chemical Engineering	Pratik N. Sheth	Production of hydrogen-rich fuel gas from Jatropha Residue cake
7	Roshan Nazir	Chemistry	Surojit Pande	Synthesis of Metal and Metal Oxide Nanoparticles for Electro catalytic Hydrogen and Oxygen Evolution Reaction
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	Organ catalytic Approach towards the Synthesis of Some Nitrogen-Containing Heterocycles
10	Hitesh Kumar Saini	Chemistry	Anil Kumar	Synthesis of Aza-heterocycles via Copper/Palladium-Catalysed Intramolecular Arylation Reactions
11	Santosh Kumari	Chemistry	Rajee Sakhuja	Coumarin-appended Amino Acids and Aza-heterocycles: Design, Synthesis, Photophysical Studies and Sensing Applications of Selected Compounds
12	P.O. Venkataramana Reddy	Chemistry	Dalip Kumar	Synthesis, and Anticancer Activity Studies of Some Novel Indole Related Heterocycles
13	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
14	Nitesh Kumar Nandwana	Chemistry	Anil Kumar/Indresh Kumar	Design and Synthesis of Fused Quinazolines via Transition Metal-Catalysed C-N Coupling Reactions
15	Fayaz Baig	Chemistry	Madhushree Sarkar	Coordination Polymers of Ligands Based on Imine Functional Groups: Analysis of their Structure and Property Relationship

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
16	Shiv Dhiman	Chemistry	Anil Kumar/Dalip Kumar	Design and Synthesis of Quinoline and Quinazolinone Derivatives through Transition Metal-Catalysed Cascade Protocols
17	B. Pallavi	Chemistry	Paritosh Shukla	Synthesis, Biological Evaluation, and Molecular Docking Studies of Selected N-Heterocyclic Scaffolds
18	Devesh S. Agarwal	Chemistry	Rajeev Sakhuja	Design and Synthesis of Bile Acid Conjugates as Anticancer Agents and Smart Low Molecular Weight Gelators
19	Manish Kumar Mehra	Chemistry	Dalip Kumar/ Indresh Kumar	Formation of Carbon-Carbon and Carbon-Heteroatom Bonds using Diaryliodonium Salts: Synthesis of Selected Bioactive Heterocycles
20	Khandagale Santosh Bhausaheb	Chemistry	Dalip Kumar	Synthesis and Photophysical Studies of Heterocycle-Appended and Fused Porphyrins
21	Saroj	Chemistry	Anil Kumar	Selected Organic Transformations Employing Functionalized Imidazolium and Pyridinium Salts
22	Manpreet Singh	Civil Engineering	Anshuman/Dipendu Bhunia	Assessment of Potential of Marble Slurry As a mineral Admixture in Concrete
23	Gaurav Kumar	Civil Engineering	Rajiv Gupta	Design and implementation of a Generic Methodology for Scenario Development with Assessment over Water Resources
24	Puppala Harish	Civil Engineering	Shibani K Jha	Field Conceptualization, Characterization and Pre-Drilling Power Estimate of a Geothermal Reservoir in India
25	Tanmay Gupta	Civil Engineering	Manoj Kumar	An investigation on influence of skewness on structural response of concrete box-girder bridges
26	Makrand Wagale	Civil Engineering	AP Singh/AK Sarkar	Quantification of impacts of rural road construction: Evidence from Pradhan Mantri Gram Sadak Yojana in Jhunjhunu District, India
27	Rahul Dandautiya	Civil Engineering	AP Singh	Exploring immobilization potential of heavy metals in fly ash and copper tailings and their sustainable utilization using life cycle assessment
28	Rupal Bhargava	CS&IS	Yashvardhan Sharma	Learning-based Approaches for Addressing Challenges in Sentiment Analysis
29	Neetika Gupta	CS&IS	M.K. Rohil	Robust Image Registration Methods for Varying Image Quality and Imaging Conditions in Augmented Reality Systems
30	Nitin Singh Rajput	CS&IS	Rahul Banerjee/D. Sanghi	A Framework for Efficient Multi-Constraint QoS Routing in ANETs and Hybrid Network Systems
31	Chandramani Chaudhary	CS&IS	Poonam Goyal/Yi-Ping Phoebe Chen	Improving Image Retrieval for Complex Queries by Leveraging Internal and External Resource
32	Jagat Sesh Challa	CS&IS	Poonam Goyal/Anil Maheshwari	Design and Development of Data Indexing Techniques for Mining Large and Streaming Data
33	Saiyedul Islam	CS&IS	Navneet Goyal/PS Raghavendra	A pattern-based Framework for Automatic Parallelization of Clustering Algorithms
34	Aditya Sharma	Economics	Arya Kumar/AK Vaish	An Empirical Study of Indian Stock Price Movement - A Behavioural Finance Perspective
35	Dinesh Kumar Tyagi	Electrical and Electronics Engineering	V.K.Chaubey	Survivable Routing Mechanisms in Optical WDM Networks
36	Gaurav Purohit	Electrical and Electronics Engineering	VK Chaubey/KS Raju	An Energy Efficient Reconfigurable Digital Baseband Architectures for SDR
37	Abhishek Joshi	Electrical and Electronics Engineering	Rahul Singhal	Implementation of Performance Enhancement Techniques on a Probe Fed Hexagonal Planar Antenna
38	G. Sai Shesha Chalapati	Electrical and Electronics Engineering	S. Gurunarayanan	Time Synchronization and Task-Assignment Algorithms for Specific Domains of the Internet of Things
39	Fani Mani	Electrical and Electronics Engineering	Rajneesh Kumar	Optimum Power Extraction Approaches of a Soiled PV Module Integrated with Soft Switched Converter
40	Ravinder Kumar	Electrical and Electronics Engineering	Hari Om Bansal	Investigations on Renewable Energy Integrated Shunt Active Power Filter for Power Quality Improvement
41	Dolly Seehra	HSS	Geetha B	Tracking Narrative Patterns and Film Elements within the Selected Short Fictional Films of Mira Nair: An empirical Study

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
42	Priyanka Kumari	HSS	VS Nirban	Intercultural Communication Competence at Workplace: An Investigation of Employers' Requirements and Employees' Perception in Indian Information Technology Sector
43	Priyanka Bhattacharya	Management	Sarvesh Satija/Rajan K. Gupta	Positive Organisational Practices in Indian Engineering and Technology Institutes: A Model Building Approach
44	Ravinder Singh	Management	S.K. Sharma/Rajesh Matai	Strategic Sourcing from Risk Management Perspective: A Study of Indian Automobile Industry
45	Bhavya Tripathi	Mathematics	B.K. Sharma	Modelling and Analysis of Single and Two-phased MHD Blood Flow in a Stenosed Artery with Heat and Mass Transfer
46	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 Upstreat Rectangular Cylinder
47	Narpat Ram Sangwa	Mechanical Engineering	Kuldip Singh Sangwan	Development of an Integrated performance Measurement Framework for Leanness Assessment of Manufacturing Organizations
48	Gajanand Gupta	Mechanical Engineering	RP Mishra	Development of a Framework and Criticality Analysis Model for the Implementation of Reliability Centered Maintenance
49	Nikhil Gakkhar	Mechanical Engineering	MK Soni	Design and Development of a Novel Hybrid Concentrating Photovoltaic Thermal System with Parabolic Trough Collector
50	Rohit S. Gunerkar	Mechanical Engineering	AK Jalan/SU Belgamwar	Fault Diagnosis of Rolling Element Bearing with Multiple Localized Defects using Mathematical Modelling and Experimental Analysis
51	Neetu Malik	Mechanical Engineering	Sharad Shrivastava/Subrata Bandhu Ghosh	Development of Engineered Bio-Nanocomposites and Correlation of Structure-Properties
52	Kailash Choudhary	Mechanical Engineering	K.S. Sangwan	Green Supply Chain Management in Indian Ceramic Industry: Pressures, Practices and Performance
53	Tamalika Bhakat	Mechanical Engineering	SU Belgamwar/NN Sharma & Ajay Agarwal	Behavioural Study of Stimuli Triggered Biopolymer for Non-invasive Drug Delivery
54	SNC Sridhar	Pharmacy	Paul Atish Tulsiram	Study of Conophylline and its Inspired Analogues as potent pancreatic Lipase Inhibitors for Obesity Treatment
55	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
56	Shivani Choudhary	Physics	Amol R. Holkundkar	Study of Laser-driven Ion Acceleration Through Relativistic Self-Induced Transparency
57	Captain Rituraj Singh	Physics	Madhukar Mishra	Investigations on QGP through Heavy Flavour Production and Suppression in Ultra-Relativistic Heavy Ion Collisions

K.K.Birla Goa Campus

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
1	Ankush Ashok Saddhe	Biological Sciences	Prof. Kundan Kumar	DNA Barcoding of Goan Mangroves and Functional Characterization of Sodium/Proton Antiporter in *Rhizophora apiculata*
2	Deepthi Das	Biological Sciences	Prof. Judith M. Braganca	Bioprospecting of Halophilic Archaea from Indian Solar Salterns
3	Nupur Rajeev Kumar	Biological Sciences	Prof. Anasuya Ganguly	Pancreatic Tissue Engineering Using Agarose Based Nano-Composites and Human Umbilical Cord Derived Mesenchymal Stem Cells
4	Rakesh Manuka	Biological Sciences	Prof. Kundan Kumar	Functional characterization of abiotic stress responsive With No Lysine kinase in *Oryza sativa*
5	Mansi Baveja	Biological Sciences	Prof. Dibakar Chakrabarty Prof. Angshuman Sarkar	Study on Coelomic Fluid of *Astropecten indicus* and Isolation and Characterisation of a Bioactive Agent

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
6	Gautam Krishnan	Biological Sciences	Prof. Utpal Roy Prof. Santanu Datta	Functional Characterization of Recombinant α Crystalline of Mycobacterium tuberculosis H37Rv
7	Om Prakash Chouhan	Biological Sciences	Prof. Sumit Biswas Prof. Udo Heinemann	Physicochemical studies on the mutants of the VC0395_0300 protein of *Vibrio cholera*
8	Starlaine Chrizelle Mascarenhas	Biological Sciences	Prof. Anasuya Ganguly	Environmental Toxins Responsible for the Development of Chronic Kidney Disease of Unknown Etiology (CKDu) in Canacona Taluka, Goa
9	Anant Yadav	Biological Sciences	Prof. Srikanth Mutnuri Prof. Florent Chazarenc	Development and Demonstration of Vertical Flow Constructed Wetlands as Decentralized Wastewater Treatment System in Tropical Climate
10	Avijit Das	Biological Sciences	Dr. Malabika Biswas	The novel Antirepressor protein of Staphylococcus aureus temperate bacteriophage Phi11 and its role in the lysogenic-lytic switch
11	Parul Sahu	Chemical Engineering	Prof. Srinivas Krishnaswamy	Techno-feasibility Studies on an Alternative Process Scheme for Liquefied Natural Gas (LNG) Regasification Integrated with Freeze Desalination
12	Uday Kumar Padidela	Chemistry	Prof. R. N. Behera	Effective Interactions and Properties of Model Colloidal Suspensions: Integral Equation Theory and Molecular Dynamics Simulation Study
13	Aruna Chandra Singh	Chemistry	Prof. Sunil Bhand	Development of Novel Biosensors for Detection and Analysis of Endocrine Disruptors 17β-Estradiol and Bisphenol A in Water
14	Zigmee Thupden Bhutia	Chemistry	Prof. Mainak Banerjee	Development of "Green" and/or Catalyst-Free Methods for the Synthesis of Various Heterocycles of Biological Interests
15	Shamanth. N	CS&IS	Prof. Lucy J. Gudino Prof. C. K. Ramesha	Design and Development of Sectored Antenna and Energy Efficient Cross-Layer Protocol for Directional Wireless Sensor Networks
16	Prabhudesai Rohit Subhash	Economics	Dr. Ch.V.V.S.N.V.Prasad	A Study on Formation and Performance of SME Alliances with Special Reference to Indian Manufacturing Firms
17	Praveen G. B.	Electrical and Electronics Engineering	Prof. Anita Agrawal	Development of an Automated Intelligent Decision Support System for Multiple Brain Disorder Diagnosis from MRI Scans
18	Sushant Kishore	Humanities and Social Science	Prof. K.A. Geetha	The Performative Politics of Ethnocultural Nationalism in India: Thespian and Quotidian Performances of Hindu Nationalism
19	Solano Jose Da Silva	Humanities and Social Science	Dr. Rayson Alex Dr. Pushkar	The Dynamics of Land-use Planning: a case Study of Goa
20	B. Gnana Bharathi	Humanities and Social Science	Dr. K.A. Geetha	Alterations and Adaptations: An Analysis of the Indigenous Spaces of Nilgiris Irulas
21	Vishal V. Patil	Mechanical Engineering	Dr. Ranjit S Patil	Experimental Investigation to Assess the Performance of Selected Biofuels in Diesel Engines
22	Debashree Sen	Physics	Dr. Tarun Kumar Jha Dr. Kinjal Banerjee	Cold Dense Matter Phases and Neutron Star Structure in the Light of Recent Observations

Hyderabad Campus

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
1	Mohammed Imran Khan	Biological Sciences	Prof. Jayati Ray Datta/ Prof. Ramakrishnan Ganesan	Probiotic Lipases: Applications to Polymer Degradation, Biofuel Synthesis and Greener Nano biotechnology
2	Daipayan Ghosh	Biological Sciences	Dr. Sridev Mohapatra	A Study on the Beneficial Effects of Rhizobacteria on Physiological Status, Proline Metabolism and Endogenous Phytohormone Accumulation in Arabidopsis thaliana Under Water-stress
3	Sunetra Sen	Biological Sciences	Dr. Sridev Mohapatra	Impact of Plant Growth Promoting Rhizobacteria on Plant Polyamine Metabolism Under Water Stress: Novel Insights into Plant-Rhizobacterial Interaction
4	K Chandrakala	Chemical Engineering	Prof. Ramesh Babu Adusumalli/Prof. Karthik Chethan Venkateshan	Thermal and Mechanical Characterization of Human Hair Fibres

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
5	Pamidipati Sirisha Nagaraju Padmaja	Chemical Engineering	Dr. Asma Ahmed/Prof. Inkollu Sreedhar	Development of an Environment-friendly Process for the Production of Biofuels and Value-added Products from Lignocellulosic Biomass Residues
6	Madhuri P	Chemical Engineering	Prof. Ramesh Babu Adusumalli/Dr. Asma Ahmed	Study of Pulp Characteristics after Cooking and Bleaching for Optimization of Process Parameters
7	P Suresh	Chemical Engineering	Prof. I Sreedhar Dr. Vikranth Kumar Surasani	Process and Engineering Studies on Wet Granulation
8	Sathvika T	Chemistry	Prof. N Rajesh/Prof. Vidya Rajesh	Immobilization of Microorganisms in Suitable Matrices for the Sequestration of Chromium from Industrial Effluents
9	Nagarjuna Ravi Kiran	Chemistry	Prof. Ramakrishna Ganesan	Metal-Oxides (M_xO_y, where M = Ti, Al, Fe, Ta and W): Synthesis, Fabrication, Surface Functionalization and Applications in Catalysis
10	Moghal Zubair Khalid Baig	Chemistry	Prof. Manab Chakravarty	Exploration on Synthesis and Applications of Naphthalene and Anthracene-based Organophosphonates : Finding Aggregation-Induced Emission Active Fluorogens
11	Swapna Challagulla	Chemistry	Prof. Sounak Roy	deNOx Catalysis: A Study on Rationalizing Materials' Properties and Reaction Performances
12	P Chaitanya Jasti	Civil Engineering	Prof. V Vinayaka Ram	Integrated and Sustainable Benchmarking of Urban Public Transport Systems for Indian Context
13	Ashok Kumar Suluguru	Civil Engineering	Dr. Arkamitra Kar/Dr. Anasua Guharay	Behaviour of Shallow Foundation Resting on Soil Partially Replaced with Building Derived Materials under a Static Loading Condition
14	Abhishek Kumar Thakur	CS&IS	Prof. C R Hota	Optimization of Video Delivery Over Opportunistic Networks
15	Ganjikunta Ganesh Kumar	Electrical and Electronics Engineering	Prof. S K Sahoo	Analysis and Design of FFT Processor Architecture for OFDM Applications
16	Veeresh Babu Vulligaddala	Electrical and Electronics Engineering	Prof. M B Srinivas	A 7-cell, Stackable, Li-ion Battery Monitoring and Balancing System for Electric and Hybrid Vehicles
17	Haripriya T	Electrical and Electronics Engineering	Prof. Alivelu Manga Parimi	Study of HVDC Transmission Based Grid for Green Energy Harvesting
18	Paramkusham Spandana	Electrical and Electronics Engineering	Prof. BVVSN Prabhakar Rao/Dr. K M M Rao	A Novel Approach for Classification and Early Detection of Breast Cancer using Image Enhancement, Image Segmentation and Feature Extraction on Mammograms
19	M K Kaushik	Electrical and Electronics Engineering	Prof. Y Yoganandam, Prof. S K Sahoo & Prof. Chittranjan Hota	Investigations on Building Robust Cognitive Radio Based Networks
20	Avinash S Vaidya	Electrical and Electronics Engineering	Prof. M B Srinivas	Efficient Beamforming Techniques for Protable Ultrasound Imaging Systems
21	Manu Gupta	Electrical and Electronics Engineering	Prof. B V V S N Prabhakar Rao/Dr. Venkateswaran Rajagopalan	Non-Invasive Methods for Glioma Grade Classification Using MR Images
22	Parbati Sahoo	Mathematics	Prof. Pradyumn Kumar Sahoo/Prof. Bivudutta Mishra	Study of Accelerated Expansion of Universe in the framework of $f(R, T)$ Gravity
23	Sankarsan Tarai	Mathematics	Prof. Bivudutta Mishra/Prof. Pradymun Kumar Sahoo	Study on the Dynamics of Anisotropic Cosmological Models in a Modified Theory of Gravity
24	Pratik Premadarshi Ray	Mathematics	Prof. Bivudutta Mishra/Prof. Pradymun Kumar Sahoo	Study on Late Time Cosmic Dynamics and Some Anisotropic Dark Energy Models
25	T Janardhana Reddy	Mechanical Engineering	Prof. Y V D Rao/Dr. Vijayabaskar Narayanamurhty	Studies on Structural Configurations for Vehicular Crash Energy Absorption
26	Swagatika Mohanty	Mechanical Engineering	Prof. Srinivasa Prakash Regalla/Prof. Y V D Rao	Robot Assisted Asymmetric Incremental Sheet Metal Forming for Steep Wall Angle Parts
27	N Madan Mohan Reddy	Mechanical Engineering	Dr. Phaneendra Kiran Chaganti	Development, Characterization and Machining Performance of Eco-Friendly Cutting Fluid for Sustainable Manufacturing
28	Khalid Anwar	Mechanical Engineering	Prof. Sandip S Deshmukh	Development of Energy Management System for Microgrid Operations

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
29	Trivedi Prakruti Harshvardhanbhai	Pharmacy	Dr. Balaram Ghosh	Design, Synthesis and Biological Characterization of Isoform Selective Histone Deacetylase (HDAC) Inhibitors
30	Rompicharla S V Kiran	Pharmacy	Prof. Swati Biswas	Tumour Targeted Multifunctional Poly(amidoamine) (PAMAM) Dendrimers to Promote Delivery of Poorly Soluble Chemotherapeutic Agent Paclitaxel in Cancer
31	Rashmi Nair	Pharmacy	Dr. Raviraj Pillai Prof. Punna Rao Ravi	Novel and Sustainable Processes for Amorphous Solid Dispersions of Drugs to Enhance their Dissolution and Bioavailability
32	Santosh Kumar S	Pharmacy	Prof. A. Sajeli Begum	Design and Synthesis of Novel Coumarin-based Lignans as Pro-inflammatory Cytokine Inhibitors for the Treatment of Chronic Inflammatory Diseases
33	Shubhmita Bhatnagar	Pharmacy	Prof. Vamsi Krishna Venuganti	Polymeric Microneedle Device for Transcutaneous Delivery of Antigen and Chemotherapeutics
34	Shubham Dwivedi	Pharmacy	Prof. P Yogeewari	Development, Validation and Exploration of Novel Disease Models for Autism
35	Vagolu Siva Krishna	Pharmacy	Prof. D Sriram	Design and Development of Novel Mycobacterial Inhibitors Targeting Amino Acids Biosynthesis Pathway
36	D Nagendra Prasad	Physics	Prof. Souri Banerjee	Investigation of Flow of Polarizable Particles between Microelectrodes of Different Shapes Subjected to Nonuniform Electric Fields
37	Smruti Smita Lenka	Physics	Prof. Sarmistha Banik	Properties of Rotating Compact Stars with Exotic Matter

Dubai Campus

S. No.	Name	Department	Supervisor/ Co-supervisor	Thesis Title
1	Nand Kumar	CSIS	R. K. Mittal	Some Aspects of Cloud Computing and its Applications in Data Analysis
2	Praseetha V. M.	CSIS	S. Vadivel	Efficient Techniques for Biometric Identification and Security Aspects
3	Nandakumar P.	Mechanical Engineering	R. Karthikeyan	Characterization of Viking Tool Steel for Press Tools for Heavy duty Blanking & Forming Components for HV Switchgear Industry
4	Arivarasi A.	Electrical and Electronics Engineering	R. Anandkumar	Design and Evaluation of Micro Dimension 3D Printing Process and Application to Sensors
5	Devisree S.	Electrical and Electronics Engineering	R. Anandkumar	Defect Analysis and Design of a New Fault Tolerant Nano Crossbar Architecture

2. Ph.D. Thesis Submitted and Under Process of Evaluation

Pilani Campus

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
1	Shweta Sharma	Chemical Engineering	Banasri Roy/HK Mohanta	BIMEVOX Catalyst Systems for Low Temperature Steam Reforming of Ethanol with the Aim of Hydrogen Production
2	Rajinder Kaswan	Chemistry	S.C. Sivasubramanian/ Anshuman Dalvi	Silica Gel Based Li+ ion Solid Electrolytes: Studies on Structure, Electrical Transport and Supercapacitance
3	Susheela Kumari	Chemistry	Saumi Ray	Encapsulation and Catalytic Studies of "Ship-in-a-bottle" Transition Metal Complexes inside the Microporous Material
4	Dewal Mishra	Civil Engineering	AK Sarkar	A study to estimate the Impact of Accessibility on Transit Mode Choice
5	Prateek Bindra	EEE	Arnab Hazra	Selective Sensing of Volatile Organic Compounds Using One Dimensional Titanium Dioxide Nanostructures
6	Anuj Kumar Ojha	EEE	Praveen Kumar A.V.	Performance Enhancement of Cylindrical Dielectric Resonator Antennas for Low Cross Polarization and High Gain Applications

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
7	Amit Kumar	Mathematics	Chandra Shekhar	Stochastic Modeling of Repairable Machining System with Spare Provisioning
8	Shreekant Varshney	Mathematics	Chandra Shekhar	Optimal Control of Queuing Models in Service and Machining Systems: A Nature-Inspired Approach
9	Shivani Nain	Mechanical Engineering	Jitendra Singh Rathore/ Niti Nipun Sharma	Design, Simulation and Experimental Investigations on Scaled Up Branched Flagellated Artificial Nanoswimmer
10	Nitesh Sihag	Mechanical Engineering	Kuldip Singh Sangwan	An experimental analysis of energy consumption and environmental impacts of milling process
11	Malek Vajirbhai M.	Pharmacy	Gaikwad Anil Bhanudas	Role of Neprilysin in the Development of Cardiomyopathy and Nephropathy Associated with Type 1 Diabetes
12	Prachi Venkat	Physics	Amol R. Holkundkar	Interaction Dynamics of Intense Ultra-short Laser Pulses with Atomic Clusters
13	Arghya Maity	Physics	Naveen Singh	Statistical Mechanics of DNA in Confined Geometry

K.K.Birla Goa Campus

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
1	Starlaine Chrizelle Mascarenhas	Biology	Prof. Anasuya Ganguly	Environmental Toxins Responsible for the Development of Chronic Kidney Disease of Unknown Etiology (CKDu) in Canacona Taluka, Goa
2	Merina Dhara	Biology	Prof. Veeky Baths	Mycobacterium tuberculosis Network Analysis and Mathematical Modeling of Diabetes and Tuberculosis Association
3	Anant Yadav	Biology	Prof. Srikanth Mutnuri Prof. Florent Chazarenc	Development and Demonstration of Vertical Flow Constructed Wetlands as Decentralized Wastewater Treatment System in Tropical Climate
4	Avijit Das	Biology	Dr. Malabika Biswas	The novel Antirepressor protein of Staphylococcus aureus temperate bacteriophage Phi11 and its role in the lysogenic-lytic switch
5	Ram Indrajit Chavan	Biology	Dr. Srikanth Mutnuri	Treatment of Nitrogenous Wastewater by Using Microalgae and Its Utilization for The Production of Value-Added Products
6	Parul Sahu	Chemical Engineering	Prof. Srinivas Krishnaswamy	Techno-feasibility Studies on an Alternative Process Scheme for Liquefied Natural Gas (LNG) Regasification Integrated with Freeze Desalination
7	Mouna H. M.	Chemical Engineering	Prof. Saroj Sundar Baral	A Biohydrometallurgical Approach for Extraction of Metals from Spent Fluid Catalytic Cracking Catalyst
8	Aruna Chandra Singh	Chemistry	Prof. Sunil Bhand	Development of Novel Biosensors for Detection and Analysis of Endocrine Disruptors 17β-Estradiol and Bisphenol A in Water
9	Zigmee Thupden Bhutia	Chemistry	Prof. Mainak Banerjee	Development of "Green" and/or Catalyst-Free Methods for the Synthesis of Various Heterocycles of Biological Interests
10	Madhurya Chandel	Chemistry	Dr. Narendra Nath Ghosh	Synthesis of Magnetic Nanoparticles–Reduced Graphene Oxide based Multifunctional Nanocomposites: Their Applications as Reusable Catalysts and Electrode Materials for Supercapacitor
11	Arun Kumar Prusty	Chemistry	Prof. Sunil Bhand	Development of Polymer Based Capacitive Sensors for Analysis of Herbicide and Antibiotic Residues in Water and Milk
12	Shamanth N.	CS&IS	Prof. Lucy J. Gudino Prof. C. K. Ramesha	Design and Development of Sectored Antenna and Energy Efficient Cross-Layer Protocol for Directional Wireless Sensor Networks

S.No	Name	Department	Supervisor/ Co-supervisor	Thesis Title
13	Harsha. V	CS&IS	Dr. Debasis Das Prof. Neena Goveas & Prof. Vijay Kumar	Secure and Lightweight Communication using Internet of Vehicles for Smart Transportation
14	Sanjay Laxmikant Joshi	CS&IS	Prof. Bharat M. Deshpande	Predicting Reliability in Software Product Development Environment
15	Khairnar Vikas Vishnu	Electrical and Electronics Engineering	Prof. Ramesha C K Prof. Lucy J. Gudino	Design and Development of Linearly and Circularly Polarized Pattern Reconfigurable Antennas
16	B. Gnana Bharathi	Humanities and Social Science	Dr. K.A. Geetha	Alterations and Adaptations: An Analysis of the Indigenous Spaces of Nilgiris Irulas
17	Santosh Kumar Bhal	Mathematics	Dr. P. Danumjaya Dr. Anil Kumar	Orthogonal Spline Collocation Methods for Differential Equations with Interfaces
18	Vishal V Patil	Mechanical Engineering	Dr. Ranjit S Patil	Experimental Investigation to Assess the Performance of Selected Biofuels in Diesel Engines
19	Satish Anand Mullya	Mechanical Engineering	Dr. G. Karthikeyan Dr. Ranjit S. Patil	Process Simulation and Experimental Investigation on Inter-electrode gap of Micro Electric Discharge Milling
20	Debashree Sen	Physics	Dr. Tarun Kumar Jha Dr. Kinjal Banerjee	Cold Dense Matter Phases and Neutron Star Structure in the Light of Recent Observations
21	Atanu Guha	Physics	Dr. Prasanta Kumar Das	Astrophysical Constraints on Dark Matter Effective Coupling in the Framework of Tsallis Statistics
22	Tuhin Malik	Physics	Dr. Tarun Kumar Jha Prof. Bijay Kumar Agrawal	Equation of state for dense matter from finite nuclei to neutron star mergers

Hyderabad

S.No	Name	Department	Supervisor/ Co supervisor	Thesis Title
1	B Madhavi	Chemical Engineering	Prof. Balaji Krishna Murthy Dr. Vikranth Kumar Surasani & Prof. Sanket Goel	Modelling of capacity fading in lithium ion batteries & Statistical analysis of performance degradation in fuel cells
2	Uday Kumar Togiti	Chemistry	Prof. Anupam Bhattacharya	Synthesis of fused and boronated heterocycles and study of their biological properties
3	Srinivasa Rao Singireddi	Chemistry	Prof. K V G Chandrasekhar	Design, synthesis and biological activity of novel heterocyclic compounds as inhibitors of bacterial quorum sensing and tuberculosis
4	Shweta Vinod Pawar	Chemistry	Prof. Amit Nag	Exploring light-matter interactions from macro to nano: detection technologies for important metals and application in bio-imaging.
5	Karuna Anna Sajeevan	Chemistry	Prof. Durba Roy	Structural and Functional Characterization of Animal Venom Toxins using Computer Simulations
6	Agnivesh P.	Civil Engineering	Prof. Prasanta Kumar Sahu	Analysis and Modelling of Urban Freight Demand for Seven Cities in Kerala, India
7	Sai Priya	Economics & Finance	Prof. Niranjan Swain Dr. Sanjay Kallapur	Once Bitten Once Shy: Learning or Conservatism after Audit Failure?
8	Poorna Lakshmi U.	Electrical and Electronics Engineering	Prof. P K Pattnaik	Tunable Silicon photonics devices for optical communications
9	V Srinivasa Rao	Mechanical Engineering	Prof. Srinivasa Prakash Regalla Prof. Kannan Ramaswamy	Synthesis and evaluation of phytochemical-metformin conjugates for ameliorating the clinical symptoms of metabolic syndrome in diet induced experimental obesity.
10	Nasir Hussain N	Mechanical Engineering	Prof. Srinivasa Prakash Regalla Prof. Y V D Rao	Study of large elastic – plastic deformations in automobile crash-box with novel geometric shapes
11	Cheera Varalakshmi	Physics	Dr. Rahul Nigam	Studying the role of Premordial magnetic Field in early structure formation

3. Research Contributions through Higher Degree Dissertations

A total of **177** Dissertation Projects have been carried out by higher degree M.E./M.Pharm students across campuses. The list is given in Annexure - 2.

4. Research Contributions through First Degree Thesis

A total of **811** students have completed their First-Degree thesis. The thesis course is a one-semester full time course which can be done on-campus and off-campus. Faculty members of the Institute, scientists from R&D labs and other professionals also supervise the thesis work across campuses. The complete list is given in Annexure - 3.

5. PhD Qualifying Examinations

All PhD candidates before taking up the doctoral research have to appear and pass a PhD Qualifying examination. The PhD qualifying examination is conducted in the sub areas identified by each department for this purpose. A PhD student has to choose two subareas for his/her qualifying examination. One of these areas must be the sub-discipline in which he/she proposes to undertake research. Faculty members of the Institute and professionals from the world-of-work may be permitted to appear in the qualifying examination even before completing the formalities of PhD admissions.

In the year 2019, a total of **321** candidates were permitted to appear in the Qualifying examination. The details are provided below:

Semester	Permitted to appear in QE	Appeared	Passed	Failed
II Sem. 2018-19	173	173	157	16
I Sem. 2019-20	148	148	134	14
Total	**321**	**321**	**291**	**30**

6. Research Publications

Faculty members have published several research papers in International and National Journals & conference proceedings. **Annexure 4 &5** lists the research publications in journals, books, books chapters & other publications. List of faculty members who presented papers at various conferences, delivered invited talks are given in **Annexure 6.**

7. New Doctoral Research Topics / Supervisors Approved

This year, **two hundred and fifty five (255)** research proposals were approved by the DCC. Besides approving the topic of research, the DCC also approves the proposed supervisors for guiding the research. The details of approved topics/supervisors are given below:

S.No	Name & ID	Topic	Supervisor	Co-Supervisor	Locale of work
1.	Rambabu Rajpoot 2017PHXF0037P	Generation and the characterization of the Attosecond pulses from higher-order harmonics	Prof. Amol R Holkundkar	Dr. Jayendra Nath Bandyopadhyay	BITS, Pilani - Pilani Campus
2.	Nikhil Hatwar 2017PHXF0038P	Investigations on Quark-Gluon Plasma through Collectivity and Suppression of Quarkonia in High Energy Nuclear collisions	Dr. Madhukar Mishra	--	BITS, Pilani - Pilani Campus
3.	Jyoti Tanwar 2016PHXF0407P	Development of a Conceptual Model for Optimum Asset and Liability Management for Indian Banking System	Dr. Arun Kumar Vaish	--	BITS, Pilani - Pilani Campus
4.	Bub Nidhi Kirtikumar 2017PHXF0010P	Characterization of Hypothetical/ Putative proteins involved in housekeeping functions of *Plasmodium*	Prof. Shilpi Garg	--	BITS, Pilani - Pilani Campus
5.	Mishra Shweta Ravindra 2017PHXF0412P	Experimental Studies on Nematic Liquid Crystals Doped with Nanorods	Prof. Manjuladevi V.	--	BITS, Pilani - Pilani Campus
6.	Paramita Saha 2017PHXF0425P	Design and Evaluation of Nanocarriers Based Nasal Drug Delivery System for Effective Delivery of Selected Anti-Parkinson Drugs into Brain	Dr. Murali Monohar Pandey	--	BITS, Pilani - Pilani Campus

S.No	Name & ID	Topic	Supervisor	Co-Supervisor	Locale of work
7.	Violina Kakoty 2017PHXF0043P	Exploring the neuroprotective potential of autophagy and epigenetic modulators in Alzheimer and Parkinson disease pathology co-morbid with metabolic syndrome	Prof. Rajeev Taliyan	Dr. Sunil Kumar Dubey Dr. Chih Hao Yang	BITS, Pilani - Pilani Campus
8.	Geetika 2017PHXF0442P	Development and evaluation of a nanoparticulate co-delivery system for the management of Diabetes and Diabetes-induced Alzheimer's disease	Dr. Sunil Kumar Dubey	Prof. Rajeev Taliyan	BITS, Pilani - Pilani Campus
9.	Swati Sharma 2017PHXF0421P	Chitosan/Chondroitin sulfate based polyelectrolyte complex for the management of wounds	Dr. Aniruddha Roy	--	BITS, Pilani - Pilani Campus
10.	Karanam Laxmi Swetha 2017PHXF0435P	Evaluation of antitumor efficacy and pharmacokinetics of polymeric nanoparticle formulation targeted to cancer stem cells	Dr. Aniruddha Roy	Prof. Rajdeep Chowdhury	BITS, Pilani - Pilani Campus
11.	Shail Saharan 2017PHXF0404P	Design and Development of a Smart Framework to Prevent, Detect and Mitigate DNS-Based DDoS Attacks in SDN environment	Dr. Vishal Gupta	--	BITS, Pilani – Pilani Campus
12	Anukaran Khanna 2018PHXF0018P	Nonlinear Dynamics and Control of a Super maneuvering Asymmetric Aircraft	Dr. Bijoy Krishna Mukherjee	--	BITS, Pilani – Pilani Campus
13.	Ashish Kumar Verma 2018PHXF0017P	Design of RF-MEMS Switches and their applications at sub-system level for telecommunication systems	Dr. Mahesh Angira	--	BITS, Pilani – Pilani Campus
14	Rajesh Singh Shekhawat 2017PHXF0503P	Design and Development of Wide Band-gap Materials based Semiconductor Devices for High Power Application	Dr. Dheerendra Singh	Dr. Sumitra Singh	BITS, Pilani – Pilani Campus
15	Vishalakshi Bhanot 2017PHXF0032P	Microbial assisted degradation of recalcitrant plastics	Prof. Jitendra Panwar	--	BITS, Pilani – Pilani Campus
16	Aastha Mittal 2017PHXF0001P	Development, Characterization and Evaluation of Anticancer Drug Loaded Polymeric Nanoparticles	Prof. Uma S. Dubey	Dr. Sunil Kumar Dubey	BITS, Pilani – Pilani Campus
17	Abhilasha Srivastava 2017PHXF0022P	Analysis of crosstalk between Epithelial to Mesenchymal Transition (EMT) and drug resistance post exposure to pro-inflammatory cytokines in tumor cells	Dr. Sudeshna Mukherjee	Prof. Rajdeep Chowdhury	BITS, Pilani – Pilani Campus
18	Harshita Sharma 2017PHXF0409P	Elucidating the role of Micro-RNAs and long non-coding RNAs in cancer progression and cell fate determination	Prof. Shibasish Chowdhury	Dr. Sudeshna Mukherjee	BITS, Pilani – Pilani Campus
19	M Chandrashekher 2016PHXF0115H	Social disparities in Visual impairment: a case study of Andhra Pradesh and Telangana	Dr. Sunny Jose	--	BITS Pilani, Hyderabad campus
20	Madhuri Mathur 2016PHXF0114H	Exploring the Impact of E-portfolio Assessment on Academic Speaking Skills of Undergraduate Students	Dr. Santosh Mahapatra	--	BITS Pilani, Hyderabad campus
21	Naresh Patnaik 2016PHXF0001H	Development of rapid, cost-effective methods for diagnosis and management of infection-induced infertility in females	Dr. Ruchi Jain	Dr. Jayati Ray Dutta	BITS Pilani, Hyderabad campus
22	Gargi Prasad S 2017PHXF0002H	Role of histone deacetylase 6 (*HDA6*) in ribosomal RNA (rRNA) gene regulation and genomic stability in *Arabidopsis thaliana*	Dr. Gireesha T Mohannath	--	BITS Pilani, Hyderabad campus
23	Vuchuru Kalyan 2018PHXF0041H	Studies on Endothermic Hydrocarbon Fuel for a Possible Aerospace Application: Preparation, Characterization and Kinetic Modeling	Dr. Srikanta Dinda	--	BITS Pilani, Hyderabad campus
24	Bommi Sivaganesh 2017PHXF0501H	Developing an analytical method for various active pharmaceutical ingredients (API), drug products to quantify related substances and degradation products by High performance liquid chromatography (HPLC)/ Ultra performance liquid chromatography (UPLC) using Quality-by-design principles.	Dr. Jayanty Subbalakshmi	--	BITS Pilani, Hyderabad campus & Sai Life Sciences Ltd. Hyderabad

S.No	Name & ID	Topic	Supervisor	Co-Supervisor	Locale of work
25	S V Poorna Chandrika K 2017PHXF0503H	Fabrication of Fe and Zn nanosystems as efficient nutrient sources	Dr. Balaji Gopalan	Dr. Anupama Singh	BITS Pilani, Hyderabad campus & ICAR-IIOR, Hyderabad
26	B Hima Bindu 2017PHXF0437H	Synthesis and study of optical, conducting and biological activity of new Xanthene based analogues	Dr. Jayanty Subbalakshmi	--	BITS Pilani, Hyderabad campus
27	Balapure Aniket Diliprao 2017PHXF0441H	Synthesis and characterization of catalytically active metal oxides towards energy and environmental applications	Dr. Ramakrishnan Ganesan	--	BITS Pilani, Hyderabad campus
28	Arunraj B 2017PHXF0415H	Efficacy of Appropriately Tailored Biopolymer and carbonaceous Adsorbents for the Separation and Recovery of Europium	Dr. N. Rajesh	Dr. Vidya Rajesh	BITS Pilani, Hyderabad campus
29	Jittin Varghese 2018PHXF0017H	Performance assessment of residual ashes from paddy waste as supplementary cementitious materials	Dr. Bahurudeen	--	BITS Pilani, Hyderabad campus
30	Turuganti Venkateswarlu 2017PHXF0426H	Stream Water Quality Modeling Using Artificial Neural Networks (ANNs) and Geospatial data	Dr. Jagadeesh Anmala	--	BITS Pilani, Hyderabad campus
31	Gunde Sachin Chakravarthy 2018PHXF0015H	Improvement of strength and reduction of surface erosion of soil slopes by treated natural fibers and plant roots	Dr. Anasua Guharay	Dr. Arkamitra Guharay	BITS Pilani, Hyderabad campus
32	Tummalapalli Sahithi 2017PHXF0433H	Detection of Web Service anti-patterns using Machine Learning algorithms	Dr. Lov Kumar	Dr. N L Bhanu Murthy	BITS Pilani, Hyderabad campus
33	Saibharath S 2017PHXF0100H	QoS Driven Network Traffic Management through NFV in Next-Gen Networks	Dr. Sudeepta Mishra	--	BITS Pilani, Hyderabad campus
34	Naveen Bokka 2017PHXF0420H	A Non-Invasive Method of Classification for Low and High-Grade Brain Tumors using 3-D Shape Analysis	Dr. R Venkateswaran	Dr. B V V S N Prabhakar Rao	BITS Pilani, Hyderabad campus
35	Priyanka B G 2017PHXF0436H	An Automated Multimodal Brain Tumor Segmentation, Classification and 3D Analysis of Glioma Subjects	Dr. B V V S N Prabhakar Rao	Dr. R Venkateswaran	BITS Pilani, Hyderabad campus
36	G Sahith 2017PHXF0438H	Low Power Face Recognition Architectures using Imprecise Arithmetic Units	Dr. Syed Ershad Ahmed	--	BITS Pilani, Hyderabad campus
37	Simhadri Hariprasad 2017PHXF0015H	Superior Analog Circuit Designs Using Advanced Nano-electronic Gate Overlap Tunnel FET Devices for Ultra-Low Power Applications	Dr. Surya Shankar Dan	--	BITS Pilani, Hyderabad campus
38	P. Joshna 2017PHXF0410H	Investigation of novel oxides and their heterojunctions for photodetector applications	Dr. Souvik Kundu	--	BITS Pilani, Hyderabad campus
39	Pranjali Gajbhiye 2018PHXF0022H	Multiscale Processing of normal and abnormal Electroencephalogram (EEG) signals	Dr. Rajesh Kumar Tripathy	--	BITS Pilani, Hyderabad campus
40	Mary Vallankanni Manik Salve 2018PHXF0025H	Automated IoT based Microfluidic Electrochemiluminescence (ECL) Biosensing platform for various biomarker detection	Dr. Prasant Kumar Pattnaik	Dr. Sanket Goel	BITS Pilani, Hyderabad campus
41	Gavali Kapil Ram 2018PHXF0104H	Efficient Design of a Slow Wave Structure of a Backward Wave Oscillator for Improved Operation Parameters	Dr. Harish V Dixit	--	BITS Pilani, Hyderabad campus & Universal College of Engineering Mumbai
42	Kothuru Avinash 2018PHXF0426H	Next Generation Circuit Boards using Additive Manufacturing Technology with Integrated Electronics and Microfluidics	Dr. Sanket Goel	--	BITS Pilani, Hyderabad campus

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43	Madhusudan B Kulkarni 2018PHXF0427H	Automated and Integrated Microfluidic DNA Sample Preparation Platform for Biomedical Applications	Dr. Sanket Goel	Dr. Naga Mohan Kommu	BITS Pilani, Hyderabad campus
44	Enaganti Prasanth Kumar 2018PHXF0428H	Characterization of Underwater Solar cells and their Optimization	Dr. Sanket Goel	--	BITS Pilani, Hyderabad campus
45	Shruti Chakraborti 2017PHXF0105H	A Critical Analysis of Mythic Interpretation in Select Contemporary Indian English Fiction	Dr. M G Prasuna	--	BITS Pilani, Hyderabad campus
46	Revathy Hemachandran 2017PHXF0018H	Alternate Narratives of Mappila Rebellion 1921	Dr. Maya Vinai	--	BITS Pilani, Hyderabad campus
47	Alasakani Karthik 2017PHXF0019H	A Study of Fluid flow in Tapered Elastic Pipes with Applications in Human Arterial System	Dr. T S L Radhika	Dr. Dipak Kumar Satpathi	BITS Pilani, Hyderabad campus
48	Tapas Ranjan Panigrahi 2017PHXF0412H	Study of phase velocity of surface waves in anisotropic layered geologies	Dr. Sumit Kumar Vishwakarma	--	BITS Pilani, Hyderabad campus
49	Basua Debananda 2017PHXF0428H	Lyapunov-type Inequalities for conformable and fractional boundary value problems	Dr. Jagan Mohan Jonnalagadda	Dr. Dipak Kumar Satpathi	BITS Pilani, Hyderabad campus
50	B SRAVYA 2018PHXF0033H	Automated and sustainable alternative process lines for non-centrifugal sugar production	Dr. M. Srinivas	Dr. Sandeep S Deshmukh	BITS Pilani, Hyderabad campus
51	Sama Sanghamitra 2017PHXF0435H	Studies on microalgae based biodiesel in CI engines	Dr. Sandeep S Deshmukh	--	BITS Pilani, Hyderabad campus
52	Ankit Sharma 2018PHXF0035H	Microstructural and Mechanical Characterization of Particulate Reinforced Aluminium based Functionally Graded Foam Materials	Dr. Sujith R	Dr. Amit Kumar Gupta	BITS Pilani, Hyderabad campus
53	Dasugari Varakala Saiprasad Goud 2017PHXF0424H	Development of novel anti-microbial compounds targeting Cysteine synthase (CysM) and 3Oxo-acyl-ACP reductase (FabG)	Dr. D. Sriram	--	BITS Pilani, Hyderabad campus
54	Kumbham Soniya 2018PHXF0038H	Polymeric/albumin-based nano micellar systems for the delivery of anticancer drugs to treat oral cancer	Dr. Swati Biswas	Dr. Balaram Ghosh	BITS Pilani, Hyderabad campus
55	Dasari Deepika 2018PHXF0040H	Evaluation of Pharmacological interventions targeted at sodium glucose co-transporter1 (SGLT1) in diabetic cardiomyopathy (DCM)	Dr. Arti Dhar	--	BITS Pilani, Hyderabad campus
56	Routholla Ganesh 2017PHXF0430H	Development of Histone Deacetylase (HDAC) Inhibitors with preferential Isoform Selectivity for HDAC3	Dr. Balaram Ghosh	--	BITS Pilani, Hyderabad campus
57	Pulya Sravani 2018PHXF0043H	Design, synthesis and biological characterization of Histone Deacetylase-3(HDAC-3) inhibitors following hybrid structure strategy	Dr. Balaram Ghosh	Dr. D. Sriram	BITS Pilani, Hyderabad campus
58	Parameswar PATRA 2018PHXF0037H	Surface Modified Nanoparticulate Carrier System for the Effective Delivery of Anti-leukemic Drug	Dr. Akash Chaurasiya	--	BITS Pilani, Hyderabad campus
59	Purbali Chakraborty 2018PHXF0454H	Discovery and development of small molecule inhibitors targeting cancer cell metabolism: implications in oral cancer therapy	Dr. A. Sajeli Begum	Dr. P. Yogeeswari Dr. Trinath Jamma	BITS Pilani, Hyderabad campus
60	Sateesh Kandukuri 2017PHXF0444H	Observation of room-temperature magnetic skyrmions without an external magnetic field in magnetic materials	Dr. V Satyanarayana Murthy	--	BITS Pilani, Hyderabad campus
61	Gaurav Saxena 2017PHXF0905U	Design and Implementation of a Generic Model for Nature Inspired Computation Based Optimizations (with applications to AI based video/image processing)	Dr. Lavika Goel	Dr. Siddhaling Urolagin	BITS, Pilani – Dubai Campus
62	Renu P Shenoy 2017PHXF0901U	Corporate Social Responsibility and Sustainable Development: A Study of Public Sector Companies in the United Arab Emirates	Dr. Mrutuyanjaya Sahu	-	BITS, Pilani – Dubai Campus

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63	Anu Roshini R 2016PHXF0422G	Transport Properties of Transition Metal Dichalcogenides and Metal Oxide Heterojunction	Dr. E S Kannan	-	BITS-Pilani, K.K.Birla Goa Campus
64	Komal M Paroolkar 2017PHXF0017G	Continuous Time Portfolio Optimization.	Dr. Mayank Goel	-	BITS-Pilani, K.K.Birla Goa Campus
65	Nayan Anand Mate 2017PHXF0015G	Investigating the role of polyamines in reproductive aging in female rodent and insect model.	Dr. Arnab Banerjee	-	BITS-Pilani, K.K.Birla Goa Campus
66	Subhasish Sahoo 2017PHXF0407G	Forensic DNA Profiling of Population Samples From Various Regions Of Odisha.	Dr. Sumit Biswas	-	BITS-Pilani, K.K.Birla Goa Campus
67	Kasi Bandla 2017PHXF0429G	Low Power Design of Data Converters Using Pipelining	Dr. Dipankar Pal	-	BITS-Pilani, K.K.Birla Goa Campus
68	Neelam Srikanth 2017PHXF0428G	Design and development of dynamically reconfigurable CNN coprocessor for embedded FPGA	Dr. A Amalin Prince	-	BITS-Pilani, K.K.Birla Goa Campus
69	Abhijit Dey 2017PHXF0423G	Development of Algorithms for Performance Improvement of GNSS Software Receiver under Harsh Atmospheric Conditions.	Dr. Nitin Sharma	-	BITS-Pilani, K.K.Birla Goa Campus
70	Prateek Singh 2017PHXF0424G	Performance Optimization of GNSS Receiver.	Dr. Nitin Sharma	-	BITS-Pilani, K.K.Birla Goa Campus
71	Manish Varun Yadav 2017PHXF0421G	Design and investigation of ultra-wideband compact planar antenna for multiple applications.	Dr. Sudeep Baudha	-	BITS-Pilani, K.K.Birla Goa Campus
72	Mahesh Patil 2017PHXF0439G	Investigation into alternative techniques for enhancing surface finish and reducing draw load for cold drawn steel tubes	Dr. Varinder Singh	Dr. Bade Simhachalam	BITS-Pilani, K.K.Birla Goa Campus
73	Vinod Kumar 2016PHXF0421P (FT)*	Development of Graph Theoretic Tools for the Existence and Construction of Rectangular Floor-plans	Dr. Krishnendra Shekhawat	-	BITS Pilani, Pilani Campus
74	Victor Saha 2017PHXF0411P (FT)	Modeling the Enablers and Barriers of Value Co-creation in the Public services sector	Dr. Praveen Goyal	Dr. Mani Venkatesh Montpellier Business School, France	BITS Pilani, Pilani Campus
75	Pratibha Saini 2017PHXF0429P (FT)	Determining the Debt Threshold and Debt Sustainability for India	Dr. Krishna Muniyoor	-	BITS Pilani, Pilani Campus
76	Taru Saigal 2017PHXF0405P (FT)	Analyzing the Influence of Socio-Economic Factors on Gender Differences in Travel Patterns	Dr. Arun Kumar Vaish	Prof. NVM Rao	BITS Pilani, Pilani Campus
77	Manu Sharma 2017PHXF0417P (FT)	Examining the Relationship between Tourism and Economic Development: Issues and Evidence from India	Dr. Geetilaxmi Mohapatra	Prof. Arun Kumar Giri	BITS Pilani, Pilani Campus
78	Amol Prakash Pawar 2017PHXP0023P (FT)	Synthesis of Novel Nitrogen Heterocycles using Metal-Free Sequential Transformation on Acyclic/Cyclic-Imines	Prof. Indresh Kumar	-	BITS Pilani, Pilani Campus
79	Mamta Devi Sharma 2017PHXP0011P (FT)	Binary and Ternary Metal Chaleogenide Nanostructures for Electrocatalytic and Photoelectrochemical Water Splitting	Dr. Mrinmoyee Basu	Dr. Surojit Pande	BITS Pilani, Pilani Campus
80	Jyothi Yadav 2017PHXP0041P (FT)	Organocatalytic Asymmetric Transformations on Seven-Membered Tricyclic-Imines	Prof. Indresh Kumar	Prof. Dalip Kumar	BITS Pilani, Pilani Campus
81	Bintu Kumar 2017PHXP0008P (FT)	Synthesis and Photophysical Studies of Selected Heterocycle Appended Boron-dipyrromethene Complexes	Prof. Dalip Kumar	Prof. Madhushree Sarkar	BITS Pilani, Pilani Campus
82	Prachi Sharma 2017PHXP0030P (FT)	Synthesis, characterization and evaluation of novel nitrogen heterocycles and study of their multi-pronged applications	Dr. Paritosh Shukla	-	BITS Pilani, Pilani Campus

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83	Santosh Kumar Mishra 2017PHXP0422P (FT)	Synthesis of D-glucose derived glycoconjugates and their application in molecular and metal ion recognition	Dr. Ajay Kumar Sah	-	BITS Pilani, Pilani Campus
84	Pallav Dhanendrakumar Shah 2018PHXF0025P (FT)	Mathematical analysis of blood flow through tubes using constriction and rough boundaries with heat transfer and solute dispersion	Dr. Ashish Tiwari	-	BITS Pilani, Pilani Campus
85	Nikita Dhankhar 2017PHXF0427P (FT)	Theoretical study of coincident electron impact ionization processes on molecules	Dr. Rakesh Choubisa	-	BITS Pilani, Pilani Campus
86	Aayushi Agrawal 2017PHXF0415P (FT)	Investigating Dynamical and Topological Properties of Floquet Systems: A Comparative Study of Perturbative Schemes	Dr. Jayendra Nath Bandyopadhyay	Dr. Tapomoy Guha Sarkar	BITS Pilani, Pilani Campus
87	Kapil Kumar Choudhary 2017PHXF0438P (FT)	Perturbation Theory of Generators of Semigroups of Operators and Evolution Equations	Prof. Rajiv Kumar	Dr. Rajesh Kumar	BITS Pilani, Pilani Campus
88	Santosh Kumar Saini 2018PHXF0032P (FT)	Evaluation and identification of energy efficient refrigeration techniques for seafood cold chain in Indian context	Prof. M.S. Dasgupta	Prof. Souvik Bhattacharyya, BITS Pilani, Pilani Campus and Dr. Kristina Norne Widell SINTEF Fisheries & Aquaculture, Norway	BITS Pilani, Pilani Campus
89	Shailender Singh 2018PHXF0034P (FT)	Development of E-waste management strategies for selected E-products in India	Prof. M.S. Dasgupta	Prof. Srikanta Routroy	BITS Pilani, Pilani Campus
90	F Abdullah Sultan 2018PHXF0033P (FT)	Design of Surimi Value Chain in India: A Supply Chain Approach	Prof. Srikanta Routroy	Dr. Maitri Thakur SINTEF Fisheries, Norway	BITS Pilani, Pilani Campus
91	Rahul Ukey 2018PHXF0031P (FT)	Assessment and Mitigation of Impact of Climate Change on Heating and Cooling Energy Consumption in Buildings	Dr. Aakash Chand Rai	-	BITS Pilani, Pilani Campus
92	Harsh Sharma 2018PHXF0415P (FT)	Mathematical Modeling and Analysis of Defect in Boron Nitride Nanotube (BNNT's)	Dr. Sharad Shrivastava	Dr. Jitendra S. Rathore	BITS Pilani, Pilani Campus
93	Amresh Kumar 2017PHXF0413P (FT)	Design, Development and Process Parameter optimization of Cavitation Machining	Dr. Bijay Kumar Rout	Dr. Tufan Chandra Bera	BITS Pilani, Pilani Campus
94	Shital Patil 2018PHXF0029P (FT)	Fault diagnosis and prognosis of misaligned rotor system using model and signal based techniques	Dr. Amol M. Marathe	Dr. Arun Kumar Jalan	BITS Pilani, Pilani Campus
95	Kapil Kukreja 2018PHXF0106P (PT)	Design and Development of Transfer Chute to Handle Alternate Fuels and Their Mix in Indian Cement Plant	Prof. Manoj Kumar Soni	Dr. Bibekananda Mohapatra, NCCBM, Faridabad	NCCBM Faridabad
96	Pawar Shrikant Shankarrao 2016PH410091P (FT)	Investigations on Thin-Wall Machining of Curved Geometries	Dr. Tufan Chandra Bera	Prof. Kuldip Singh Sangwan	BITS Pilani, Pilani Campus
97	Banoth Karan Kumar 2018PHXF0042P (FT)	Design, synthesis, and study of novel β-carboline analogs as potential agents against Leishmaniasis	Dr. S. Murugesan	-	BITS Pilani, Pilani Campus
98	Himanshu Sankrityayan 2018PHXF0036P (FT)	Endoplasmic Reticulum Stress in Type I diabetic Nephropathy: Its epigenetic regulation and exploring its potential as a novel therapeutic strategy	Dr. Gaikwad Anil Bhanudas	-	BITS Pilani, Pilani Campus
99	Manigandan R. 2018PHXF0444P (FT)	Structural Response of Concrete Filled Double-Skin Steel Tube (CFDST) Column Subjected to Eccentric Loads	Dr. Manoj Kumar	-	BITS Pilani, Pilani Campus
100	Ajaya M.R. 2018PHXF0504P (PT)*	Study of Effects and Remedies of Change Order for Better Project Management in Indian Infrastructure Constructions	Dr. Rajiv Gupta	-	NICMAR Delhi-NCR Bahadurgarh

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101	Farhan Mohammad Khan 2018PHXF0411P (FT)	Physico-Chemical Parameters based AI model for prediction of faecal coliform bacteria in ground water	Prof. Rajiv Gupta	-	BITS Pilani, Pilani Campus
102	Rishi Kumar 2018PHXP0035P (FT)	Development of a Cyber-Physical Production System Framework for Resource and Energy Efficiency at Factory level	Prof. Kuldip Singh Sangwan	Prof. Christoph Herrmann IWF, TU Braunschweig, Germany	BITS Pilani, Pilani Campus
103	Gaurav Tyagi 2018PHXF0419P (FT)	Development of construction materials from galvanic and electroplating sludge: A Sustainable Business Model	Prof. Anupam Singhal	Prof. Srikanta Routroy & Prof. Dependu Bhunia	BITS Pilani, Pilani Campus
104	Sandra Maria Cherian 2018PHXF0016H (FT)	Coastal wetland characterization using multi-source polarimetric Synthetic Aperture Radar (SAR) and optical remote sensing data	Dr. Rajitha K	-	BITS Pilani, Hyderabad campus
105	Lakshmana Rao Mantri 2018PHXF0100H (FT)	Performance Evaluation of Geocomposite Granular Sub Base course for flexible pavement structure: An Experimental Investigation	Prof. V. Vinayaka Ram	Prof. Sridhar Raju	BITS Pilani, Hyderabad campus
106	Rafsa Koyadeen T 2018PHXF0007U (FT)	Model and Design of a Geometrically Optimized Molecular Switch with an Electrode	Prof Anand Kumar	Dr Abdul Rajak A.R	BITS Pilani, Dubai Campus
107	Neethu Michael 2018PHXF0008U (FT)	Distinct schemes to govern virtual inertia for frequency regulation with renewable energy sources integration	Dr. Shazia Hasan	-	BITS Pilani, Dubai Campus
108	Rajevenceltha J 2018PHXP0009U (FT)	Some Aspects of Medical Image Processing Techniques and Their Applications	Dr. Vilas Gaidhane	-	BITS Pilani, Dubai Campus
109	Dali Vilma Francis 2017PHXP0903U (FT)	Bacterial Synthesis of Metal Nanoparticles and their applications in Agriculture, Medicine and Polymers.	Dr. Gokhale Trupti Swarup	-	BITS Pilani, Dubai Campus
110	Ram Krishn Mishra 2018PHXF0010U (FT)	Design of Tourism Intelligent System Using Machine Learning Techniques	Dr. Siddhaling Urolagin	Dr. J. Angel Arul Jothi	BITS Pilani, Dubai Campus
111	Manoj Kumar Hialpure 2017PHXF0437G (FT)	Characterization and control of the stability of a cylindrical shell under axial compression using piezoelectric actuators	Dr. Sandeep Jose	-	BITS-Pilani, K.K.Birla Goa Campus
112	Nikhil S. Mane 2018PHXF0023G (FT)	Experimental investigation of Heat pipes with nanofluids.	Dr. Vadiraj Hemadri	-	BITS-Pilani, K.K.Birla Goa Campus
113	Fernandes Fiona Anthony 2016PH290426G (FT)	Gold nanoparticle mediated gene delivery for differentiation of stem cells into particular lineage.	Dr. Meenal Kowshik	Dr. Indrani Talukdar	BITS-Pilani, K.K.Birla Goa Campus
114	Pooja Kotharkar 2017PHXF0402G (FT)	Hydroxyapatite nanoparticle assisted *in vitro* gene delivery in mouse myoblast cells for targeting genes involved in Duchenne Muscular Dystrophy.	Prof. Meenal Kowshik	Dr. Indrani Talukdar Prof. Sutapa Roy Ramanan	BITS-Pilani, K.K.Birla Goa Campus
115	Prajakta Pratap Patil 2017PHXF0405G (FT)	Development of appropriate techniques for detection and control of helminth eggs in wastewater.	Dr. Srikanth M	-	BITS-Pilani, K.K.Birla Goa Campus
116	Rajashree Yaragal R 2018PHXF0419G (FT)	Constructed wetlands for the treatment of micropollutants from wastewater and establishing circular economy.	Dr. Srikanth M	-	BITS-Pilani, K.K.Birla Goa Campus
117	Anupam Mukherjee 2017PHXF0408G (FT)	Technoeconomic feasibility analysis of an integrated technology for Grey water treatment for Indian households.	Dr. Anirban Roy	-	BITS-Pilani, K.K.Birla Goa Campus
118	Anjali A Meshram 2017PHXF0446G (FT)	Metal organic based materials for catalytic application.	Dr. Sharad Sontakke	-	BITS-Pilani, K.K.Birla Goa Campus

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119	K.. Aashish Moses 2018PHXF0008G (FT)	Development of suitable material for visible light induced photocatalytic hydrogen production from industrial wastewater.	Dr. S.S Baral	-	BITS-Pilani, K.K.Birla Goa Campus
120	Dharmendra Das 2018PHXF0009G (FT)	Mechanochemical Synthesis and Derivatization of Heterocycles.	Dr. Mainak Banerjee	-	BITS-Pilani, K.K.Birla Goa Campus
121	Neha Saran 2017PHXF0416G (FT)	Catalytic and sensing properties of porphyrins with substituted aromatic side groups.	Prof. Bhavana P	Dr. Tincy Lis Thomas	BITS-Pilani, K.K.Birla Goa Campus
122	Priyanka Makkar 2017PHXF0414G (FT)	Development of metal/metal oxide nanoparticle decorated reduced grapheme oxide (RGO)-based multifunctional nanocomposites and study of their different applications such as magnetically separable versatile catalyst, supercapacitor, sensors, etc.	Dr. Narendra Nath Ghosh	Dr. Amrita Chatterjee	BITS-Pilani, K.K.Birla Goa Campus
123	C. Malavika 2017PHXP0016G (FT)	Physical Properties of Metal-Semiconductor TMDC Interfaces.	Dr. E S Kannan	-	BITS-Pilani, K.K.Birla Goa Campus
124	Saumyen Kundu 2017PHXF0022G (FT)	Searching for Signatures of Physics Beyond the Standard Model.	Dr. Prasanta Kumar Das	-	BITS-Pilani, K.K.Birla Goa Campus
125	Ravishankar Prakash Desai 2018PHXF0019G (FT)	Nonlinear Modeling and Control Synthesis for a Class of Autonomous Underwater Vehicles.	Dr. Narayan S Manjarekar	-	BITS-Pilani, K.K.Birla Goa Campus
126	Deshpande Shreyas Sureshrao 2017PHXF0422G (FT)	Development of Micro/Nano Interdigitated Electrodes Devices For Ultra-sensitive and Reliable Biosensors	Dr. Gautam G Bacher	Prof. Sunil Bhand	BITS-Pilani, K.K.Birla Goa Campus
127	D R Karthik 2017PHXF0426G (FT)	Investigation of High-Depth Penetration of DFIG-Based Wind Power Plants on Rotor Angle Stability of Large Power Systems.	Dr. Shashidhara M Kotian	-	BITS-Pilani, K.K.Birla Goa Campus
128	Anita Ramachandran 2018PHXF0450G (FT)	Design and Development of Intelligent Geriatric Healthcare System.	Prof. K.R Anupama	-	BITS-Pilani, K.K.Birla Goa Campus
129	Ansa Shermin S 2018PHXF0017G (FT)	Topology Control for Three-Dimensional Mobile Underwater Acoustics Sensor Networks.	Dr. Sarang C Dhongdi	-	BITS-Pilani, K.K.Birla Goa Campus
130	Siva Sagar 2017PHXF0425G (FT)	Resource Allocation in Cloud Radio Access Network.	Dr. Nitin Sharma	-	BITS-Pilani, K.K.Birla Goa Campus
131	Sunkara Sairam 2018PHXF0021G (FT)	Maritime Governance & Blue Economy: Framework Analysis for India's Comprehensive National Maritime Policy & Prospects.	Prof. R.P Pradhan	Dr. Ashwini Mishra	BITS-Pilani, K.K.Birla Goa Campus
132	Neethu Prakashan 2017PHXF0430G (FT)	The impact of Dance movement therapy on Mental health, Emotion regulation and Resilience among the destitute adolescents.	Dr. Bidisha Banerjee	-	BITS-Pilani, K.K.Birla Goa Campus
133	Hajara Abdul Hameed 2017PHXF0431G (FT)	Metacognition and Flourishing among Young Adults with Depressive Symptoms.	Prof. Reena Cheruvalath	Dr. Bidisha Banerjee	BITS-Pilani, K.K.Birla Goa Campus
134	Chandresh K Dwivedi 2017PHXF0411G (FT)	Synthesis, characterize and evaluate performance of Carbon-Silica Dual Phase Fillers as reinforcing material for Tyre	Prof. S D Manjare	Dr. T Sushil Kumar Rajan (Dura-Line India Pvt. Ltd. Verna, Goa)	BITS-Pilani, K.K.Birla Goa Campus
135	Pritam Vivek Kulkarni 2018PHXF0036G (PT)	Study on the Effect of Manufacturing Defects on the Fatigue Life of Fiber Reinforced Polymer Composites.	Dr. Kiran D Mali	Dr. Sandeep Singh	Sanjay Ghodawat Group of Institute, Kolhapur
136	Darshana Suresh Bhave 2017PHXF0433G (PT)	Impact of Culture on Second Language Learning: An Empirical Study of Primary School Students in the State of Maharashtra.	Prof. Basavadatta Mitra	-	Finolex Institute of Technology, Ratnagiri

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137	Sheikh Umair Ahmed Nazir Ahmed 2018PHXF0440G (PT)	Study of microRNA expression profile in Common Variable Immunodeficiency Disorder	Dr. Indrani Talukdar	Dr. Manisha Madkaikar (National Institute of Immunohaematology, ICMR, Mumbai)	(NIIH, ICMR, Mumbai)
138	Kokate Santosh Pandurang 2017PHXF0445G (PT)	Mechanistic studies of degradation of organic pollutants and removal of heavy metal ions in water.	Prof. Halan Prakash	Dr. Karuppasamy Parasuraman (Aditya Birla Sci.& Tech. Co. Pvt. Ltd, Mumbai)	Aditya Birla Sci.& Tech. Co. Pvt. Ltd, Mumbai
139	Bheema Rajesh Kumar 2018PHXF0005P (FT)*	Electromagnetic Interference Shielding Characteristics of Hybrid Epoxy Nanocomposites Containing Copper Nanowires, Magnetite, and Barium Strontium Titanate Nanoparticles	Dr. Krishna C. Etika	-	BITS Pilani, Pilani Campus
140	Tanvidkar Priya Shreedatta 2017PHXF0403P (FT)	CO_2/CH_4 and H_2S/CH_4 separation using Metal Organic Framework (MOF) based mixed matrix membranes (MMMs) for biogas and natural gas upgradation	Dr. Bhanu Vardhan Reddy Kuncharam	-	BITS Pilani, Pilani Campus
141	Suraj Baloda 2018PHXF0445P (FT)	Carbon nanomaterial based flexible pressure/strain sensors for wearable electronics	Prof. Navneet Gupta	Dr. Sumitra Singh (CEERI Pilani)	BITS Pilani, Pilani Campus
142	Ayush Owhal 2018PHXF0405P (FT)	Fabrication of Metal Matrix Composites with Nanoparticles and Evaluation of Properties for Novel Engineering Applications	Dr. S.U. Belgamwar	Dr. Jitendra S. Rathore	BITS Pilani, Pilani Campus
143	Anish Kumar 2018PHXF0401P (FT)	Design and development of an intelligent wireless sensor network for fault diagnosis of the rotor-bearing system	Dr. Arun Kumar Jalan	-	BITS Pilani, Pilani Campus
144	Umesh Mishra 2018PHXF0107P (PT)*	A Study of Technology Acceptance of Scientific Tools and New Media Technologies in Policing in Rajasthan	Dr. Virendra Singh Nirban	Prof. Chandra Shekhar	Rajasthan Police, Jaipur
145	V. Mounika Prashanthi 2018PHXF0019P (FT)	School as a Learning Organization and Student Well-being: Towards an Integrated Approach of School Functioning	Dr. Tanu Shukla	-	BITS Pilani, Pilani Campus
146	Mayuresh Vijay Bhise 2017PHXF0418P (FT)	Participatory Forest Management and Sustainable Livelihoods of Forest Dependent Communities: A Study of ROFR Implementation in Western Ghats of Maharashtra, India	Dr. Sailaja Nandigama	-	BITS Pilani, Pilani Campus
147	Prateek Khublani 2017PHXF0505P (PT)	Challenges and Issues Faced by Pharmaceutical Companies In SME Sector: A Supply Chain Management Perspective	Dr. Anil Bhat	Dr. Jyoti Tikoria	STAUNCH Bio-Tech, Jaipur
148	Raghu Nandan Chawla 2017PHXF0506P (PT)	Digital Transformation in Practice: Identifying and Formulating Implementation Approach and analyzing CIO's strategic Role	Dr. Praveen Goyal	-	Wipro Technologies Pvt. Ltd., Bangalore
149	Roopesh Kumar 2018PHXF0104P (PT)	Value Creation and Value Appropriation in Interfirm Alliances using Coopetition – A study of the Indian Pharmaceutical Industry	Dr. Neetu Yadav	-	NOVARTIS Pvt. Ltd., Hyderabad
150	Ritika Bhatia 2018PHXF0022P (FT)	Life Insurance Purchase Decision: A Behavioral Economics Approach	Prof. Anil K. Bhat	Dr. Jyoti Tikoria	BITS Pilani, Pilani Campus
151	Ujjwal Nag 2018PHXF0021P (FT)	Antecedents of Product Sustainability: A Supply Chain Perspective	Dr. Satyendra Kumar Sharma	-	BITS Pilani, Pilani Campus
152	Jyoti Pandey 2018PHXP0412P (FT)	Exploration of Convolutional Neural Networks and Hardware Implementation of Optimized Network with Improved Characteristics	Dr. Abhijit R. Asati	Dr. Meetha V. Shenoy	BITS Pilani, Pilani Campus

S.No	Name & ID	Topic	Supervisor	Co-Supervisor	Locale of work
153	Ashish Kumar Verma 2018PHXF0017P (FT)	Investigation on frequency selective surfaces for enhancement of compact antenna's performance	Dr. Rahul Singhal	-	BITS Pilani, Pilani Campus
154	Sambhavi Shukla 2018PHXF0426P (FT)	Single and multi-junction tunneling transistors based on p-n junctions: simulation, modeling, and applications	Dr. Rupam Goswami	Dr. Pankaj Arora	BITS Pilani, Pilani Campus
155	Megha 2018PHXF0418P (FT)	An Empirical Investigation on Linkages of Trade Openness with Inflation, Poverty, Income Inequality and Urban Concentration in BRICS nations	Dr. Arun Kumar Giri	Prof. Arya Kumar	BITS Pilani, Pilani Campus
156	Khushboo Kunwar Rao 2017PHXF0419P (FT)	A Study of Blue Straggler Stars in Open Clusters	Dr. Kaushar Vaidya	-	BITS Pilani, Pilani Campus
157	Aishwarya Ramesh 2017PHXF0028P (FT)	Fixation of Carbon Dioxide and its conversion into useful chemicals via Host-Guest Heterogeneous Catalysis	Dr. Saumi Ray	-	BITS Pilani, Pilani Campus
158	Gurpreet Kaur 2018PHXF0010P (FT)	Synthesis, Characterization, Electrical Transport and Capacitance Studies of Solid Electrolytes for Energy Storage Devices	Prof. S. C. Sivasubramanian	Prof. Anshuman Dalvi	BITS Pilani, Pilani Campus
159	Sumit Kumar Agrawal 2018PHXF0007P (FT)	Investigation of halogen bonding interaction of C-X···Y type (X = Cl, Br, and I; Y = O, and N) in weakly bonded complexes using the matrix isolation infrared spectroscopy and quantum chemical calculations	Prof. Shamik Chakraborty	-	BITS Pilani, Pilani Campus
160	Mahesha C.K. 2018PHXF0009P (FT)	Transition Metal-catalyzed Coupling Strategies for the Synthesis of Fused and Functionalized Diazaheterocycles	Dr. Rajeev Sakhuja	-	BITS Pilani, Pilani Campus
161	Sonam 2018PHXP0008P (FT)	Design and development of efficient metal-free strategies for the synthesis and functionalization of aza-heterocycles	Prof. Anil Kumar	-	BITS Pilani, Pilani Campus
162	Raichure Pramod Chandrakant 2017PHXF0440P (FT)	Design and Synthesis of Aggregation Induced Emission (AIE) active Polymeric Materials for Applications in Bioimaging, Therapeutic and Explosive Sensing	Dr. Inamur Rahaman Laskar	-	BITS Pilani, Pilani Campus
163	164Soumana Joarder 2018PHXF0006P (FT)	Studies in catalytic conversion of biomass-based platforms to chemicals involving C_1- reactants	Dr. Bibhas Ranjan Sarkar	-	BITS Pilani, Pilani Campus
164	Chander Sheikhar 2017PHXF0504P (PT)	Army Supply Chains: A study on management of spare-parts in challenging areas	Dr. Rajesh Matai	-	Indian Army C/o 99 APO
165	Diplesh Gautam 2018PHXF0436P (FT)	Analytical, Numerical and Experimental Studies on the Dynamic Response Characteristics of Biological Cells	Dr. Venkatesh KP Rao	-	BITS Pilani, Pilani Campus
166	Sonali Kaushik 2018PHXF0023P (FT)	Theory and Numerics of Different Variants of Coagulation-Fragmentation Equations	Dr. Rajesh Kumar	-	BITS Pilani, Pilani Campus
167	Barkha 2018PHXF0026P (FT)	A Study of Certain Graphs on Semigroups	Dr. Jitender Kumar	-	BITS Pilani, Pilani Campus
168	Komal Deswal 2018PHXF0027P (FT)	Numerical Solutions of Initial and Boundary Value Problems Arising in Mathematical Finance	Prof. Devendra Kumar	-	BITS Pilani, Pilani Campus
169	Shilpa 2018PHXF0442P (FT)	A study on existence of solution for some nonlinear elliptic Partial differential equations	Dr. Gaurav Dwivedi	-	BITS Pilani, Pilani Campus
170	Stuti Chug 2017PHXF0407P (FT)	Design and implementation of real time algorithms for motor imagery task classification using electroencephalogram (EEG) signals	Dr. Vandana Agarwal	-	BITS Pilani, Pilani Campus

S.No	Name & ID	Topic	Supervisor	Co-Supervisor	Locale of work
171	Arindam Das 2017PHXF0002G (FT)	Geometry of Spherical Variety	Dr. Himadri Mukherjee	-	BITS-Pilani, K.K. Birla Goa Campus
172	Bandan 2017PHXF0003G (FT)	Weight distribution and non-equivalent codes in group algebra.	Dr. Prabal Paul	Dr. Shilpa Gondhali	BITS-Pilani, K.K. Birla Goa Campus
173	Akanksha V. Savardekar 2016PH290425G (FT)	Role of sirtuins in cancer associated adipocytes (CAA) in association with endometrial cancer progression.	Dr. Arnab Banerjee	-	BITS-Pilani, K.K. Birla Goa Campus
174	Sumit Kumar 2017PHXF0443G (FT)	Studies on CZTS based heterojunctions on flexible substrates for photovoltaic applications.	Prof. Teny Theresa John	-	BITS-Pilani, K.K. Birla Goa Campus
175	Neela Gayathri G. 2018PHXF0006G (FT)	Formulation of Bio-functionalized cosmetic emulsions using bio-surfactant and essential oil as green ingredients.	Dr. Vivek Rangarajan	-	BITS-Pilani, K.K. Birla Goa Campus
176	Naik Sankalp Purushottam 2018PHXF0015G (FT)	Exploring the role of Enterprise Risk Management in Value Creation.	Dr. Ch V. V. S. N. V. Prasad	-	BITS-Pilani, K.K. Birla Goa Campus
177	Abinash Singh 2018PHXF0016G (FT)	An Analysis of Heterogeneity in Impact of National Health Mission on Maternal and Child Health in India.	Dr. Sukumar Vellakkal	-	BITS-Pilani, K.K. Birla Goa Campus
178	Navodipa Bhattacharya 2018PHXF0002G (FT)	Study of anticancer bioactive molecules from Russell's Viper Venom (RVV)	Prof. Dibakar Chakrabarty	Prof. Angshuman Sarkar	BITS-Pilani, K.K. Birla Goa Campus
179	Prajakta Bhende 2018PHXF0005G (FT)	Study of polyhydroxyalkanoates (PHAs) as a biomaterial for tissue engineering.	Prof. Anasuya Ganguly	Prof. Judith Braganca	BITS-Pilani, K.K. Birla Goa Campus
180	Priyanka V. 2018PHXF0448G (FT)	Synthesis of Copper complexes and study of their DNA/Protein interactions and Evaluation of their anticancer activity.	Dr. Manjuri Kumar	Dr. Arnab Banerjee	BITS-Pilani, K.K. Birla Goa Campus
181	Shriram R. 2018PHXF0424G (FT)	Synthesis and investigation of carbon nanofiber-based heterogeneous composite electrodes for high-performance metal-air batteries.	Dr. Richa Singhal	-	BITS-Pilani, K.K. Birla Goa Campus
182	Vinoth Kanna S.R 2018PHXF0423G (FT)	A comprehensive investigation on Femi production from cashew apple and strategic utilization of residual pulp waste to generate value-added products	Prof. Sampatrao D. Manjare	Dr. Vivek Rangarajan	BITS-Pilani, K.K. Birla Goa Campus
183	Puneeth T. 2017PHXF0447G (FT)	Theoretical and Experimental Investigation on Unmixed Steam Reforming (UMR) of Methane for Hydrogen Production	Prof. Srinivas Krishnaswamy	-	BITS-Pilani, K.K. Birla Goa Campus
184	Gupta Smita Pancham 2018PHXF0041G (FT)	Accelerated Advanced Oxidation Processes for degradation of Contaminants of Emerging Concern (CECS).	Prof. Halan Prakash	-	BITS-Pilani, K.K. Birla Goa Campus
185	Shubhada S. Kerkar 2017PHXF0413G (FT)	Phase Transformation and Optical Absorption Studies in Boron Doped Semiconducting Oxide Nanocrystals	Prof. Jayadevan K.P	-	BITS-Pilani, K.K. Birla Goa Campus
186	Payel Sarkar 2017PHXF0444G (FT)	Some Theoretical Aspects and Observational Constraints of Inflationary cosmology	Prof. Prasanta Kumar Das	-	BITS-Pilani, K.K. Birla Goa Campus
187	Aditya Sharma 2017PHXF0442G (FT)	Studies In Cosmological Perturbation Theory	Prof. Kinjal Banerjee	-	BITS-Pilani, K.K. Birla Goa Campus
188	Ritu Dhankhar 2018PHXF0024G (FT)	Geometry of Zeros of Complex Polynomials and Bernstien-type Polynomial Inequalities	Prof. Prasanna Kumar N	-	BITS-Pilani, K.K. Birla Goa Campus
189	Abhishek Yadav 2017PHXF0434G (FT)	Study of Reaction Diffusion Models for Spatial Interactions and Population Ecology	Prof. P. Danumjaya	-	BITS-Pilani, K.K. Birla Goa Campus

S.No	Name & ID	Topic	Supervisor	Co-Supervisor	Locale of work
190	Hemant Sharma 2018PHXF0020G (FT)	Music Subculture of Bob Dylan in India – A Study of Audience Participation and Appropriation	Dr. Amitendu Bhattacharya	-	BITS-Pilani, K.K. Birla Goa Campus
191	Anjli Varghese 2018PHXF0405G (FT)	Image Processing and Machine Learning Techniques for Leather Species Identification.	Dr. A. Amalin Prince	-	BITS-Pilani, K.K. Birla Goa Campus
192	Joshi Viraj Vilas 2018PHXF0018G (FT)	Approximate Arithmetic Circuit Design for Error Resilient Applications	Dr. Pravin S. Mane	-	BITS-Pilani, K.K. Birla Goa Campus
193	Swati Varun Yadav 2018PHXF0403G (FT)	Design and investigation of compact high power microwave antenna	Dr. Ashish Chittora	-	BITS-Pilani, K.K. Birla Goa Campus
194	Aparna A P 2018PHXF0406G (FT)	Design and Optimization of Antennas and Radomes	Dr. Hrishikesh S. Sonalikar	-	BITS-Pilani, K.K. Birla Goa Campus
195	Sandhya Basu 2018PHXF0022G (FT)	Effects of Brainwave Entrainment on Selected Cognitive Functions (Selective Attention, Reaction Time, and Recognition Memory) in Individuals aged 7 to 13 years.	Dr. Bidisha Banerjee	Prof. Punit Parmananda (IIT Bombay)	BITS-Pilani, K.K. Birla Goa Campus
196	Peesapati Naresh Kumar 2018PHXF0035G (PT)	Clusters, Networks and Firm Level Performance: Development of India's Biotechnology Industry.	Prof. Mridula Goel	-	Andhra Pradesh Capital Region Development Authority (APCRDA)
197	Dhundiraj Padamanabha Deshpande 2017PHXF0412G (PT)	Fatty Acid Methyl Ester Production (Biofuel) from Algae using Ultrasonic Cavitation	Dr. Vivek Rangrajan	-	D.Y. Patil Institute of Engineering Management and Research, Akurdi Pune
198	Gangipamula Rajavasmi 2018PHXF0444G (PT)	Hydroacoustic analysis of centrifugal pumps	Dr. Pritanshu Ranjan	Dr. Ranjit S. Patil	Kirloskar Brothers Limited, Pune
199	Jyotirmoy Sarkar 2016PHXF0412G (PT)	An Investigation of Various Methodologies for Analysis and Prediction of Operational Failures in Industrial Systems	Prof. Vinayak Naik	Prof. Santonu Sarkar & Dr. Snehanshu Saha (PES University, Bangalore)	GE Healthcare, India
200	Bakhya Shree G.B. 2017PHXF0001H (FT)	Identification and characterization of long non-coding RNAs (lncRNAs) involved in transforming growth factor-beta (TGF-β) pathway in Glioblastoma multiforme (GBM).	Dr. Vivek Sharma	-	BITS Pilani, Hyderabad campus
201	R. Karthiya 2017PHXF0432H (FT)	Examining the role of reversible m6A RNA methylation in skeletal myogenesis	Dr. Piyush Khandelia	-	BITS Pilani, Hyderabad campus
202	Dwaipayan Bhattacharya 2017PHXF0413H (FT)	Folate Receptor mediated targeting of oral cancer: therapeutic and mechanistic investigations against tumor cells and tumor associated macrophages.	Dr. Kumar Pranav Narayan	Dr. Swati Biswas	BITS Pilani, Hyderabad campus
203	Monica 2017PH290032H (FT)	Targeting riboflavin biosynthetic pathway of Mycobacterium tuberculosis (M.tb) for identification of novel class of compounds with anti-mycobacterial activity	Dr. Ruchi Jain Dey	Prof. D. Sriram	BITS Pilani, Hyderabad campus
204	Rolly Kumari 2017PHXF0442H (FT)	Genetic, Immunological and Structural Characterization of Plasmodial Rhoptry Neck Protein 2 (RON-2) from Indian field isolates	Dr. Vidya Rajesh	-	BITS Pilani, Hyderabad campus
205	I. Shivkumar 2017PHXF0427H (FT)	Protein structure and stability modulation due to crowding conditions: Molecular insights on the origin of the effects of crowding	Dr. Ramakrishna Vadrevu	-	BITS Pilani, Hyderabad campus

S.No	Name & ID	Topic	Supervisor	Co-Supervisor	Locale of work
206	P. Pradeep Reddy 2018PHXF0042H (FT)	Reactive Transport Modelling and Simulation of CO2 Sequestration in Deccan Volcanic Province	Dr. Vikranth Kumar Surasani	Dr. Balaji Krishnamurthy	BITS Pilani, Hyderabad campus
207	Kaja Sravani 2018PHXF0011H (FT)	Plasmon driven chemistry and its applications	Dr. Amit Nag	-	BITS Pilani, Hyderabad campus
208	Susmita Roy 2018PHXF0009H (FT)	Advanced metallo-supramolecular polymer nanostructures for smart electrochromic devices	Dr. Chanchal Chakraborty	-	BITS Pilani, Hyderabad campus
209	Shouvik Bhuin 2018PHXF0409H (FT)	Synthesis and applications of small π-conjugates as solid-state emitters	Dr. Manab Chakravarty	-	BITS Pilani, Hyderabad campus
210	Adinarayana Nandikolla 2018PHXF0012H (FT)	Design, synthesis and biological activity of novel nitrogen containing heterocyclic compounds as antileishmanial and anti-tubercular agents	Dr. K.V.G. Chandra Sekhar	-	BITS Pilani, Hyderabad campus
211	Reeshma Rameshan 2018PHXF0412H (FT)	Catalytic NOx reduction on nano-catalytic materials.	Dr. Sounak Roy	Dr. Chanchal Chakraborty	BITS Pilani, Hyderabad campus
212	Meenu P C 2018PHXF0401H (FT)	Understanding the role of nano catalytic materials for methanol oxidation	Dr. Sounak Roy	Dr. Chanchal Chakraborty Dr. Santanu P Dutta	BITS Pilani, Hyderabad campus
213	Sruthi Peesapati 2018PHXF0014H (FT)	Modeling and simulation of linear and branched Polysaccharides having diverse linkage patterns by molecular dynamics approach	Dr. Durba Roy	-	BITS Pilani, Hyderabad campus
214	Sheik Mohammed Zoheb Nawaz 2018PHXF0415H (FT)	Development of Novel Low Cost Base Isolation Technique for Masonry Structures	Dr. Mohan S C	Dr. Sri Kalyana Rama J (Vignana Bharati Institute of Technology, Hyd.)	BITS Pilani, Hyderabad campus
215	Mallikarjun Patil V. 2018PHXF0414H (FT)	Assessment of market potential and infrastructural requirement for electric two-wheelers	Dr. Bandhan Bandhu Majumdar	-	BITS Pilani, Hyderabad campus
216	S.K. Rahaman 2018PHXF0416H (FT)	Durability improvement of concrete using bacterial inclusions for sustainable construction practices	Dr. Arkamitra Kar	Dr. Jayati Ray Dutta	BITS Pilani, Hyderabad campus
217	B. Radha Kiranmaye 2018PHXF0462H (FT)	Evaluation of the efficiency of bacterial consortia for crack healing in concrete specimens	Dr. Arkamitra Kar	Dr. Jayati Ray Dutta	BITS Pilani, Hyderabad campus
218	Uppugunduru Anil Kumar 2017PHXF0014H (FT)	Energy efficient VLSI architectures for image and video processing applications	Dr. Syed Ershad Ahmed	Dr. Sumit Kumar Chatterjee	BITS Pilani, Hyderabad campus
219	Sarda Sharma 2018PHXF0433H (FT)	Modification of titanium dioxide nanotubes for enhancing electro catalytic activity	Dr. Karumbaiah	-	BITS Pilani, Hyderabad campus
220	Sohan Dudala 2017PH060034H (FT)	Microfluidic Cardiac Organ-on-Chip (C-OoC) Platform for Drug Screening Applications	Dr. Sanket Goel	Dr. Satish Kumar Dubey Dr. Arshad Javed	BITS Pilani, Hyderabad campus
221	Govardhanam Pattabhi Ramacharyulu 2017PHXF0506H (PT)	Investigations on possible realization of High-Gain Metasurface (MTS) based Dielectric Resonator Antennas (DRAs) for Airborne Applications	Dr. Runa Kumari	-	Bharat Institute of Engineering and Technology (Hyd.)
222	K. Chandrasekar 2017PHXF0505H (PT)	Transcranial Cortical Stimulation of Visual Cortex using Focussed Ultrasonic (FUS) Array	Dr. Prasant Kumar Pattnaik	-	Reliance Naval & Engineering Ltd Pipavav, Gujarat Campus

S.No	Name & ID	Topic	Supervisor	Co-Supervisor	Locale of work
223	C. Santhi Durganjali 2018PHXF0021H (FT)	Modeling and Simulation of submerged solar PV with an efficient energy storage system Integrated with wind fed off shore micro grid	Dr. Sudha Radhika	Dr. Sanket Goel Dr. Ponnalagu R. N.	BITS Pilani, Hyderabad campus
224	Samala Jagadheesh 2018PHXF0023H (FT)	Design methodologies for Self-Aware Network-on-Chip	Dr. Soumya J.	-	BITS Pilani, Hyderabad campus
225	P. Shambhu Prasad 2018PHXF0024H (FT)	Dynamic Modelling, Control and Stability Analysis of Hybrid Microgrids	Dr. Alivelu Manga Parimi	-	BITS Pilani, Hyderabad campus
226	K. Lakshmi Prasanna 2018PHXF0103H (PT)	Condition Monitoring of Power Transformer using its Equivalent Winding Model	Dr. Mithun Mandal	-	Saint Martin's Engineering College (Hyd.)
227	Samit Kumar Ghosh 2018PHXF0424H (FT)	Automated Detection of Heart Valve Disorders using Time-Frequency Analysis of Phonocardiogram (PCG) Signal	Dr. R. N. Ponnalagu	Dr. Rajesh Kumar Tripathy	BITS Pilani, Hyderabad campus
228	Trankatwar Sachin Ravikant 2018PHXF0425H (FT)	Efficient techniques for 5G cellular network	Dr. Prashant Wali	-	BITS Pilani, Hyderabad campus
229	H. Renuka 2018PHXF0430H (FT)	Fabrication and characterization of transition metal doped $BiFeO_3$ photovoltaic devices and their interfacial engineering with 2D materials	Dr. Souvik Kundu	Dr. B. Harihara Venkataraman Dr. Kannan Ramaswamy	BITS Pilani, Hyderabad campus
230	Priyalatha P. 2018PHXF0431H (FT)	Pattern Synthesis and Mutual Coupling Analysis of Icosahedron Based Spherical Antenna Arrays	Dr. Runa Kumari	-	BITS Pilani, Hyderabad campus
231	Sharvani Gadgil 2018PHXF0434H (FT)	Design and Implementation of a Multi-Valued Logic Processor using Carbon Nano Tube Field Effect Transistors	Dr. Chetan Kumar V	-	BITS Pilani, Hyderabad campus
232	Indu S. 2018PHXF0102H (PT)	Impact of social networks on referrals and employment outcomes in the labour market	Dr. Dushyant Kumar	-	NMIMS, Hyderabad
233	Ankur 2018PHXF0507H (PT)	Norms Evolution under Multi-Agent Systems	Dr. Dushyant Kumar	-	Microsoft India, Hyderabad
234	Bincy George 2018PHXF0019H (FT)	Issues related to natural disasters and effect of the same across gender and coping behaviour of empowered women	Dr. Sudatta Banerjee	Dr. Rishi Kumar	BITS Pilani, Hyderabad campus
235	Vinay Sankar P 2017PHXF0422H (FT)	Political Ecology of Small Freshwater Bodies in Central Kerala	Dr. Lavanya Suresh	-	BITS Pilani, Hyderabad campus
236	Faiz Imam 2018PHXF0029H (FT)	Study of Dynamics of Automorphisms on Solenoids and Other Compact Groups	Dr. Sharan Gopal	-	BITS Pilani, Hyderabad campus
237	Tusharakanta Pradhan 2018PHXF0028H (FT)	Studies on pseudo-differential operators and their applications	Dr. Manish Kumar	Dr. Michael Alphonse	BITS Pilani, Hyderabad campus
238	Kottala Panduranga 2018PHXF0027H (FT)	Water Waves Interaction with Porous Structures	Dr. Santanu Koley	-	BITS Pilani, Hyderabad campus
239	Pitchi Chennakesava Sai 2018PHXF0446H (FT)	Development and Tribological analysis of optimized β – Titanium alloys for improved biological response	Dr. Amrita Priyadarshini	Dr. Narala Suresh Kumar Reddy	BITS Pilani, Hyderabad campus
240	Wankhede Pankaj Rambhauji 2018PHXF0445H (FT)	Design and development of image processing based strain analysis system for sheet metal forming applications	Dr. Kurra Suresh	-	BITS Pilani, Hyderabad campus
241	Kandukuri Prudviraj 2018PHXF0448H (FT)	Investigation of falling-film hydrodynamics and heat transfer over horizontal tube bank	Dr. Sandeep S. Deshmukh	Dr. Supradeepan	BITS Pilani, Hyderabad campus

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242	Jagan Mohan Ponnada 2018PHXF0447H (FT)	Design and development of wind shielding systems for sensitive installations	Dr. Sabareesh Geetha Rajasekharan	Dr. Ram Chandra Murty Kalluri Dr. Rahul Nigam	BITS Pilani, Hyderabad campus
243	Kokkula Monika 2018PHXF0449H (FT)	An optimized thermal management strategy of Li-ion batteries and its integration with DMFC to evolve an indigenous power train for Electric Vehicles (EVs)	Dr. Santanu Prasad Datta	Dr. Sounak Roy Dr. Chanchal Chakraborthy	BITS Pilani, Hyderabad campus
244	K. Karthik Rajashekar 2018PHXF0509H (PT)	Study of Strength and Fracture Behaviour of Below-knee Prosthetic Socket made by Additive Manufacturing (AM) Process	Dr. Srinivasa Prakash Regalla	Dr. Kurra Suresh	MVSR Engineering College, Hyderabad
245	Shaik Ayub Mohiddin 2018PHXF0453H (FT)	Evaluation of aerodynamic characteristics of a flexible wing for micro air vehicles performing pitching and plunging	Dr. Supradeepan	-	BITS Pilani, Hyderabad campus
246	Jaligam Murali Mohan 2018PHXF0452H (FT)	Design and Development of Fully Integrated Microfluidic Electrochemical Sensing platform	Dr. Satish Kumar Dubey	Dr. Sanket Goel	BITS Pilani, Hyderabad campus
247	Sangam Srikanth 2018PHXF0451H (FT)	Development and Experimental Studies on Droplet Based Microfluidic Device for Bio/Micro-particle Analysis	Dr. Arshad Javed	Dr. Sanket Goel	BITS Pilani, Hyderabad campus
248	Murali Kartheek S. S. 2018PHXP0450H (FT)	Synthesis and Characterization of Magnesium Syntactic Foam Materials	Dr. N. Suresh Kumar Reddy	Dr. Vincent Shantha Kumar (BITS Pilani, Dubai Campus)	BITS Pilani, Hyderabad campus
249	Srashti Gopal Goyal 2018PHXP0456H (FT)	Investigation of the role of Nesfatin-1 in Diabetic Nephropathy (DN)	Dr. Arti Dhar	-	BITS Pilani, Hyderabad campus
250	CH Sai Sanjay 2019PHXP0047H (FT)	Development of Nanoparticles-formulations of fluoroquinolone antibiotics for the treatment of bacterial keratitis	Dr. Swati Biswas	-	BITS Pilani, Hyderabad campus
251	S. Lavanya 2018PHXF0404H (FT)	To investigate the therapeutic potential of necroptosis pathway inhibitors (RIPK1/RIPK3/MLKL inhibitors) for the treatment of oral squamous cell carcinoma	Dr. Onkar P. Kulkarni	Dr. Kumar Pranav Narayan	BITS Pilani, Hyderabad campus
252	Yuganand Nellambakam 2018PHXP0039H (FT)	The Study of Fractional Quantum Hall Effect using Fast Multipole Method	Dr. K. V. S. Shiv Chaitanya	-	BITS Pilani, Hyderabad campus
253	Miziya K 2018PHXF0907U (FT)	Application of Cognitive Radio in LDACS	Dr. Raja Muthalagu Ph. D	Dr. Abdul Rajak A.R.	BITS Pilani, Dubai campus
254	Abhilasha Singh 2018PHXF0906U (FT)	Vision Based Path Planning and Trajectory Generation for Robotic Applications using Intelligent Techniques	Dr. V. Kalaichelvi	-	BITS Pilani, Dubai campus
255	Ashok Kumaravelan K 2017PHXF0002U (PT)	A migration model for digitalization of substation automation systems in U.A.E and its associated technical risk analysis on the impact towards digitalization	Dr. R. Gomathi Bhavani	-	BITS Pilani, Dubai campus

8. Sponsored Research and Consultancy

Details of Government Sanctioned Projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs. In Lakhs)	Sanctioned Date
Biological Sciences						
1	Epigenetics of Endothelial Dysfunction during cardiovascular disease	Dr. Syamantak Majumder	-	SERB (ECR)	4497957	6.3.2019
2	Development of sensors for blast and blight diseases and stomatal activity measurement in rice	Dr. P N Jha	-	NASF (ICAR)	2394830	6.5.2019
3	Analyzing the crosstalk between autophagy, cytosketal and mitochondrial dynamicity regulating epithelial to mesenchymal transition (EMT) in human glioblastoma cells	Dr. Sudeshna Mukherjee	-	CSIR	1840000	15.5.2019
4	Studying the efficacy of ADAM Inhibitors in treating diabetic nephropathy	Dr. Syamantak Majumder-PI	Dr. Rajdeep Chowdhury	ICMR	1425812	28.8.2019
5	Repurposing of CNS accumulating drugs as autophagy modulators for potential treatment against glioblastoma: as in-silico, in-vitro and in-vivo study	Dr. Shibashis Chowdhury-PI	Dr. Syamantak Majumder- Dr. Rajdeep Chowdhury Dr. Aniruddha Roy	ICMR	1261848	30.8.2019
6	High altitude-hypoxia mediates thrombosis in soldiers; modulation of autophagy as a strategy to co mbat high altitude-hypoxia induced thrombosis	Dr. Rajdeep Chowdhury-PI	Dr. Syamantak Majumder Dr. Shibasish Chowdhury	DRDO	4224000	22.10.2019
7	Understanding the genetic interactions of parkin and α-synuclein affecting pathogenesis of Parkinson's disease	Dr. Meghana Tare	-	SERB	2255000	13.11.2019
8	Developing active social learning interventions and assessing their impact on envrironmentally sustainable consumption behavior of primary children	Dr. Ashish Kumar Das-PI (Dept. of Biological Sciences) Dr. Dinesh Gupta - PI, International Centre for Genetic Engineering, New Delhi and Dr. Sanjay Kumar Kochar, SPMC, Bikaner	-	ICMR	Total Project Cost 62.77 Lakh out of which 4222689 BITS Share	03.12.2019
9	Exploring Known and novel HSPs and HSFs in a thermotolerant plant Prosopis cineria by genome-wide studies and application of genome editing for enhanced heat stress tolerance in rice	Dr. Mukul Joshi	-	DBT-Ramlingaswami F/s	4250000	6.12.2019
Chemistry						
1	Sensitive explosive detection in vapor phase with cyclometalated iridim (III), Platinum (II) and Conjugated Hyperbranched polymer based aggregation induced emission active nanoprobes	Dr. Inamur Rahaman Laskar-PI	Dr. Rahul Singhal	DRDO	3273000	06.5.2019

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned (Rs. In Lakhs)	Sanctioned Date
2	Synthesis of heterocycle fused cpomenones and quinolinone through transitional metal catalyzed cascade reactions	Dr. Anil Kumar	-	CSIR	2414000	17.5.2019
Chemical Engg						
1	Process Development for Bio-Mitigation of Flue Gases (CO2, SOx And NOx) using Chemolithotrophs and Production of value-added Products	Dr. Smita Raghuvashi	-	DST(CRG)	3161400	20.5.2019
2	Assessment of mixed-matrix membrane system for CO2 separation for upgradation of Biogas to Bio-compressed Natural Gas (Bio-CNG)	Dr. Bhanuvardhan Reddy Kuncharam	-	SERB	2446770	26.11.2019
Civil Engg						
1	Study of Postbuckling response, failure and strength of functionally graded composite plates with and without cutouts	Dr. S. B. Singh	-	CSIR	2160000	24.7.2019
2	Structured Dialogues for sustaibable urban water management (SDSUWM)	Dr. Rajiv Gupta –PI (Dept. of Civil Engg) Other PI- Aligarh Muslim university, Amrita School of Engineering, Coimbatore (Tamil Nadu) and BITS Pilani, Hyderabad Campus	-	DST-WTI	Total project Cost 50904188 BITS Pilani Share 32988508	28.11.2019
CSIS						
1	Mobile app for assisting Indian farmers in improving yield by automatic identification of plant diseases (Rice and tomato)	Dr. Sunderasan Raman	-	DST	1773158	7.1.2019
Economics & Finance						
1	Concurrent evaluation of Implementation of Nation Food Security Act in Madhya Pradesh, Rajasthan and Goa	Dr. Arun Kumar Vaish	Dr. Srikanta Routroy	Ministry of Consumer Affairs	792000	1.1.2019
2	Linking Energy Poverty with Human Development: A Case Study of Two Districts of Rajasthan	Dr. A K Giri-PI	Dr. Geetilaxmi Mohapatra -	ICSSR	787500	9.9.2019
3	Measuring the Vulnerability of Agricultural Households to Climate Change in Arid and Semi-Arid Regions of Rajasthan - A Capacity to Adapt Perspective	Dr. Geetilaxmi Mohapatra	-	ICSSR	840000	2.9.2019
EEE						
1	Crime Analysis and study for safe cities with emphasis on women safety using technology and societal participation	Dr. Anu Gutpa	Dr. Rajiv Gupta, Dr. Meetha V Shenoy	ICSSR (IMRESS)	525000	20.3.2019
2	Development of 1-D Nanomaterials based Selective Sensor System for Non-Invasive Detection of Diabetes Mellitus and Asthma by Breath Analysis Technique	Dr. Arnab Hazra	Dr. Syamantak Majumder	DBT	4657120	16.3.2019

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned (Rs. In Lakhs)	Sanctioned Date
3	Resource dimensioning and management of smart and sustainable 5G small cells for rural broadband	Dr. Vinay Chamola	-	DST-ECR	2833770	25.3.2019
4	Development of a cyber physical system based smart water grid for community usage	Dr. K K Gupta - PI (Dept. of EEE) Dr. Kota Soloman Raju CSIR CEERI Pilani-PI	-	DST-ICPS	2754200	13.3.2019
5	Structural Health Assessment and Rehabilitation Framework based on Cyber physical System	Dr. K K Gupta - PI (Dept. of EEE) Dr. Kota Soloman Raju -CSIR CEERI Pilani- PI	-	DST-ICPS	1172600	18.3.2019
6	Modelling of Drivers and Barriers of electric vehicle penetration in emerging economy : A study of Indian Market	Dr. Hari Om Bansal-PI	Dr. Praveen Goyal	ICSSR	525000	12.9.2019
7	Nanocavity-in-body tunnel field effect transistor architectures for low power sensing applications	Dr. Rupam Goswami	-	SERB	1049400	26.11.2019
8	GaN Gratings-on-Diaphragm based Otical Pressure Sensing in Harsh Environments	Dr. Rahul Singhal	-	CARS-DRRO	966000	11.12.2019
9	Machine learning techniques for resource allocation in cell-free massive MIMO communications	Dr. Syed Zafaruddin	-	SERB	1848400	31.12.2019

Humanities & Social Sciences

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned (Rs. In Lakhs)	Sanctioned Date
1	An Empirical Study on Accountability and Learning Outcomes in Public School Systems in Rajasthan	Dr. Tanu Shukla	Dr. V. S. Nirban	ICSSR (IMPRESS)	1050000	20.3.2019

Managment

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned (Rs. In Lakhs)	Sanctioned Date
1	Designing a Futuristic Learning Framework for Post Millennial Generation Students of Higher Education Institutions in India	Dr. Jayashree Mahesh	Dr. Anil Bhat	ICSSR (IMRESS)	934500	20.3.2019
2	Use of Social Media as a Driver for Innovation in Higher Education in India	Dr. Nirankush Dutta	Dr. Anil Bhat	ICSSR (IMRESS)	1050000	20.3.2019
3	Developing active social learning interventions and assessing their impact on envrironmentally sustainable consumption behavior of primary children	Dr. Leela Rani	-	NCERT	514500	11.11.2019

Mathematics

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned (Rs. In Lakhs)	Sanctioned Date
1	A Study of Graphs on Semigroups	Dr. Jitendra Kumar	-	SERB (MATRIX)	660000	20.3.2019
2	A study of nonlinear polyharmonic boundary value problems with dependence on gradient	Dr. Gaurav Dwivedi	-	SERB (MATRIX)	660000	20.3.2019
3	A Parameter-uniform approximation for singularly perturbed parabolic reaction-diffusion boundary value problems	Dr. Devendra Kumar	-	SERB (MATRIX)	660000	27.3.2019
4	Numerical methods and Error Analysis for Solving coagulation and non-linear fragmentation equations	Dr. Rajesh Kumar	-	SERb	962500	3.12.2019

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned (Rs. In Lakhs)	Sanctioned Date
Mechanical Engg						
1	Empirical Investigation and Analysis of Factors for Sustainable Growth of Electric Vehicles Manufacturing in India	Dr. Abhijeet Digalwar	-	ICSSR (IMRESS)	1470000	20.3.2019
2	Assessment of Indoor plants for improving air quality in buildings	Dr. Aakash Chand Rai	-	SERB (CRG)	3971340	13.5.2019
3	Effective anti-icing strategies for power transmission cables and pipelines using macro structured superhydrophobicity	Dr. A R Harikrishnan	-	SERB (SRG)	3017020	13.12.2019
Pharmacy						
1	Design & Synthesis of Mycobacterium UDG Inhibitors	Dr. Sandeep Sundriyal	-	The office of principal scientific advisor, Govt. of India	1000000	Jan-19
2	Rod-shaped polymeric nanoparticles for targeted delivery of artemisinin-derivatives to plasmodium-infected erythrocytes for improved intravenous therapy of cerebral malaria	Dr. Anil Jindal	-	DST (ECR)	4430250	26.3.2019
3	Design, Synthesis, Biological Evaluation and Molecular modelling studies of Indolyl Oxoacetamide-Quinazoline based hybrid analogs as potential pancreatic lipase inhibitors for Obesity treatment	Dr. Paul Atish Tulshiram	-	DST (CRG)	3505075	28.3.2019
4	Computational design, synthesis and screening of non-hydroxamate lipophilic DXR inhibitors as potential antibacterial/antimalarial/anti-TB agents	Dr. Sandeep Sundriyal	-	SERB (CRG)	3046125	9.5.2019
5	Self assembling pH-sensitive temozolomide-lipoic acid conjugate nanomedicine for treatment of glioblastoma multiforme	Dr. Deepak Chitkara	-	ICMR	824000	25.9.2019
6	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	Dr. Giakwad Anil Bhanudas	-	SERB	5033120	5.12.2019
Physics						
1	Investigation on Langmuir-Blodgett films of pristine and functionalized single walled carbon nanotubes and application	Dr. R. K. Gupta	-	SERB (CRG)	4569836	18.3.2019
2	Investigation of Elastic and Inelastic Dephasing in Carbon Nanotube FET	Dr. Niladri Sarkar-PI	Dr. Navneet Gupta	SERB (CRG)	1825450	26.3.2019
3	UV-Guided study of Blue straggler stars in open clusters and galactic fields	Dr. Kaushar Vaidya	-	ISRO	628000	23.4.2019

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs. In Lakhs)	Sanctioned Date
4	Li+ NASICON-Polymer hybrid composites for solid state supercapcitor applications	Dr. Anshuman Dalvi	-	SERB(CRG)	4397391	18.12.2019

Details of Industry Sanctioned Projects

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned	Sanctioned Date
EEE						
1	Development of Improved Design and Control Techniques for Unified Power Quality Conditioner with Distributed Generation (UPQC-DG)	Dr. H D Mathur	-	CPRI	2109000	26.2.2019
CSIS						
1	Development if real-time multi objective route recommender system using AI	Dr. Kamlesh Tiwari	Dr. Ashutosh Bhatia	MapmyIndia	742000	1.1.2019
Civil Engineering						
1	Design and devleopment of fixed and floating solar PV installation for water management infrastructures	Dr. Ravi Kant Mittal	Dr. Manjo Kumar Soni	First Green Conulting Pvt. Ltd	1136000	30.9.2019
Chemistry						
1	Design and development of synthetic industrial methods to access chiral drugs	Dr. Indresh Kumar	-	Praveen Laboratories Pvt Ltd, Surat	2080000	13.8.2019
Chemical Engineering						
1	Development of microporous PVC films for synthetic leather applications	Dr. Etica Krishna Chaitnya	-	M/s Mayur Uniquoters Pvt. Ltd	767000	25.09.2019

Details of Consultancy- Sanctioned Projects

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned	Sanctioned Date
Chemical Engineering						
1	Understanding emulsion kinetics of surfactants	Dr. Pradipta Chattopadhyay	-	Total Oil India Pvt. Ltd	789900	1.9.2019

International Projects Sanctioned

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned	Sanctioned Date
Pharmacy						
1	The impact of formulation variables and processing methods for solubility enhancement of poorly soluble model drug using Affinisol HPMCAS	Dr. R. N. Saha and Dr. Sunil Kumar Dubey	-	Colorcon Asia Pvt. Ltd	1500000	16.1.2019
2	Design and Evaluation of Stable Oral Suspension	Dr. R. N. Saha and Dr. Sunil Kumar Dubey	-	Morningside Healthcare Ltd	3200000	Jan-19
3	Sequential Comprehensive and holistic (SeqComHol) drug metabolism predication methodology to reduce drug failures	Dr. Vaibhav Anil Dixit	-	Royal Society of Chemistry, UK	323000	15.8.2019

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned	Sanctioned Date
Chemical Engineering						
1	-	Dr. Priya C. Sande	-	The Association of Commenwealth Universities, UK	85000	24.7.2019
2	Prevention of Hazardous Field-Firing of Bagasse and Its Sustainable Utilization as a Raw Material in An Innovative Industrial Process	Dr. Srinivas Appari	Dr. Bahurudden A (BITS- Hyd, Civil)-Co-PI Dr. Prasant K Sahu(BITS- Hyd, Civil)	MHRD (SPARC)	2879650	15.3.2019
EEE						
1	Design and Analysis of Metamaterial Based Antenna for Wearable Application	Dr. Navneet Gupta	-	DST (Indo-Bulgaria Joint Bilatral Research)	1182000	19.9.2019
2	Management of Distributed energy resources in smart cities: Challenges and Advanced control strategies	Dr. Hitesh Datt Mathur	Dr. Bijoy Mukherjee, Dr. Alivelu Parimi	MHRD (SPARC)	4255900	15.3.2019
3	Carbon nanomaterials for chemical sensing applications	Dr. Arnab Hazra	Dr. Navneet Gupta, Dr. Rupam Goswami	MHRD (SPARC)	4611610	15.3.2019

New Approved

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Funding Agency	Amount Sanctioned	Sanctioned Date
Biological Sciences						
1.	28S Ribosomal RNA capture Assay for the Sensitive Detection of Plasmodium falciparum and Plasmodium vivax	Dr. Ashis Kumar Das	Prof. Sunil Bhand – Goa Campus Dr. Sanket Goel-Hyderabad Campus	ICMR	12000000	-

ONGOING

Ongoing Sponsored Research projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
Biological Sciences							
1	Development of bioinoculant based formulation for enhanced phytoremediation of poly chorinated biphenyl (PCB) contaminated soil	Dr. Monika Sandhu	-	DST	2080000	30.11.2017	29.11.2020
2	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	Dr. Jola Dubey	-	DST	2633000	30.11.2017	29.11.2020
3	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	Dr. Rajdeep Chowdhury	Dr. Gaikwad Anil Bhanudas	SERB	4032800	7.7.2018	6.7.2021

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
4	Analysis of mitochondrial dynamicity post drug exposure in human glioblastoma cells and understanding its correlation with drug resistance	Dr. Sudeshna Mukherjee	-	SERB	2789000	25.9.2018	24.9.2021
5	To investigate the mechanism of CRISPR-Cas regulated biofilm formation in salmonella enterica serovar Typhimurium	Dr. Sandhya Amol Marathe	-	SERB	4371271	28.11.2018	27.11.2021
6	Investigating the Role of Aryl Hydrocarbon Receptors in medicating the Anti-Cancer Properties associated to camel milk	Dr Uma Dubey	-	DST-Rajasthan	743200	7.9.2016	7.9.2019

Chemical Engineering

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
1	Removal of Heavy metals from industrial wastewater using metallic nanoparticales as absorbents	Dr. Banasri Roy	-	SERB	1902690	1.2.2017	31.1.2020

Chemistry

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
1	Synthesis of novel N-fused polycyclic compounds through transition metal catalyzed cascade/C–H functionalization reactions	Dr. Anil kumar	-	DST	3284600	15.1.2017	31.3.2020
2	Synthesis and tubulin inhibition activity studies of novel indolyl heterocycles	Dr. Dalip Kumar	-	CSIR	2236000	1.5.2017	30.7.2020
3	Screening Decoration of Co-catalyst on the Ultrathin 2D Sheets of Metal Chalcogenides and their application in Photo electrochemical Water Splitting	Dr. Mrinmoyee Basu	-	DST-INSPIRE	3500000	02.11.2015	01.11.2020
4	"Probing the Nature of Intermolecular X–H...Se (X = O and N) Hydrogen Bonding Interactions using Matrix Isolation Infrared Spectroscopy"	Dr. Shamik Chakraborty	-	DST	7354600	28.3.2017	27.3.2020
5	Asymmetric synthesis of [2.2.2] azabicyclo-isoquinuclidine derivatives: Towards the synthesis of related alkaloids	Dr. Indresh Kumar	-	DST	4329600	24.3.2017	23.3.2020
6	Studying Catalytic carbonylation of polyols-Sustainable Route to Carboxylic Acids from Renewable Platforms	Dr. Bibhas Ranjan Sarkar	-	DST	3229600	27.7.2017	26.7.2020
7	Synthetic Probes for Staudinger Ligation: Synthesis and Application of Phosphane Based templates	Dr. Kiran Bajaj	-	DST-WOS	2970000	15.1.2018	14.1.2021
8	Synthesis of D-glucose derived glycoconjugates and their application in molecular recognition and catalysis	Dr. Ajay Kumar Sah	-	DST	3009600	2.8.2017	1.8.2020
9	Synthesis of metal complexes using D-glucose derived ligands and application of produced molecules in catalysis	Dr. Ajay Kumar Sah	-	CSIR	1132000	25.7.2018	24.7.2021
10	Photo degradation of toxic organic dyes using dye-sensitized semiconductor photocatalyst	Dr. Shamik Chakraborty	-	CSIR	807000	1.8.2018	31.7.2021
11	Heteroaromatic-Annulated Porphyrins: Design, Synthesis and Study of optoelectronic properties towards the development of photosensitizers	Dr. Dalip Kumar	-	SERB	2481600	15.10.2018	14.10.2021

S.NO	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
CSIS							
1	Design and Implementation of content based Recommender System for answering web based user queries	Dr. Yashvardhan Sharma	-	DST-ICPS	1657560	7.1.2019	6.1.2022
2	Information gathering from encrypted mobile phone applications	Dr. Ashutosh Bhatia	Dr. Kamlesh Tiwari	CAIR-DRDO	929000	14.12.2017	31.12.2020
EEE							
1	Soft Computing framework based Integrated Multi Sensor Array for Water Quality Assessment: Targeting fluoride as major parameter	Dr. K..K. Gupta	Dr. R.K.Gupta	DST	3870000	15.1.2017	14.01.2020
2	Study on Electronic Transport Behaviour of Carbon nanotube based field effect transistors (CNTFETs)	Dr. Navneet Gupta-PI	Dr. Niladri Sarkar	DRDO	21.82	5.9.2017	4.9.2020
3	Development of a Dielectric Resonator based displacement sensor	Dr. Praveen Kumar AV		SERB	2074860	14.9.2018	13.9.2021
Humanities and Social Sciences							
1	Epistemology Revisited: Postmodern Discourse alternative forms of cognition and interdisclipnary of knowledge	Dr. Anupam Yadav	-	ICPR	200000	1.4.2018	31.3.2020
2	Influence of English Teacher's Efficacy, competance and Motivation on their Instructional Strategy: A Study of Secondary Schools Teachers in Jhunjhunu, Rajasthan	Dr. Devika	Dr. Rajni Singh	NCERT	680400	19.9.2018	18.9.2020
3	Efficacy & Effectiveness of Information, Education and Communication (IEC) Activities for Health Awareness and Promotion among Women in Rajasthan: Towards a HOPE Approach	Dr. Gajendra Chauhan	Dr. Rajnessh Choubisa - Dr. Tanu Shukla- Dr. Sailaja Nandigama - Dr. R.P.Pareek-	ICMR-ICSSR	2229999	1.9.2018	30.8.2020
4	Development & Validation of a Prototype of a Web/Mobile App Based Positive Psychological Intervention for Adolescents	Dr. Rajneesh Choubisa	Dr. Gajendra Singh Chauhan Dr. Tanu Shukla	ICMR-ICSSR	1726119	1.9.2018	30.8.2020
Management							
1	Measuring the Impact of Socially Responsible Supply Chains and Development of Framework for Implementing Socially Responsible Supply Chains	Dr. Satyendra Kumar Sharma	Dr. Saurabh Chaddha	ICSSR	550000	15.3.2018	14.3.2020
Mathematics							
1	Mathematics aided Architectural Design layouts	Dr. Krishnendra Shekhawat	-	SERB	1544600	15.7.2017	14.7.2020
2	A Benchmarking analysis public transport sector of Rajasthan	Dr. Shivi Agarwal	Dr. Trilok Mathur	DST-Rajasthan	529200	12.2.2018	11.2.2021
Mechanical Engineering							
1	-	Dr. K S Sangwan		DAAD	34100000	1.10.2016	30.9.2020
2	Development of e-waste management strategies for selected e-products in (Raj)	Dr. M S Dasgupta	Dr. Srikanta Routroy	DST-Rajasthan	753600	12.2.2018	11.2.2021

S.NO	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
3	Re-value: Innovative technologies for improving resource utilization in the Indo-European fish value chains	Dr. Souvik Bhattacharya	Dr. Srikanta Routroy and Dr. M. S. Dasguptal	DBT	6200092	12.3.2018	11.3.2021
4	Development of Fault dignosis scheme for Aero-bearing with multiple localized defects using non-linear mathematical modeling and experimental analysis	Dr. Arun Kumar Jalan-PI	Dr. Sachin Belgamwar	DRDO	998000	30.11.2018	29.11.2021
5	Design and development of a power assistive hybrid e-trike (PAH e-Trike) for differently abled person in rural and urban regions of India	Dr. Sachin Belgamwar	Dr. Jitendra Rathore	DST-SEED	3063657	27.3.2018	26.3.2020
6	Design of Health care supply chain for enhancing availability and reducing wastage of generic medicines for rural areas in Rajasthan	Dr. Srikanta Routroy	Dr. Sunil Kumar Dubey	DST Rajasthan	588600	7.9.2016	6.9.2019
Pharmacy							
1	Peptide-decorated pH-sensitive nano-conjugate hybrid micelles for co-delivery of temozolamide and an autophagy inducer, rapamycin, for treatment of glioblastoma multiforme	Dr. Deepak Chitkara	Dr. Gaikwad Anil Bhanudas	DBT	4194600	27.12.2017	26.12.2020
2	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	Dr. Rajeev Taliyan	Dr. Sunil Kumar Dubey	DST-Nanomission	3213820	18.3.2017	17.3.2020
3	Evaluation of Antitumor efficacy and pharmacokinetics of polymeric nanoparticle formulation targeted to cancer stem cells	Dr. Aniruddha Roy	-	DST	3220012	15.3.2017	14.3.2020
4	Activity targeted nano-formulations for co-delivery of a taxane and antioxidant molecule, alpha acid, for treating breast cancer	Dr. Deepak Chitkara	-	DST-Rajasthan	1113600	12.2.2018	11.2.2021
5	cRGD decorated lipo-polymeric nanoplexes of CRISPR/Cas9 ribonucleoprotein (RNP) for the management of retinal dystrophic conditions.	Dr. Deepak Chitkara	Dr. Anupama Mittal	DBT-Ophthalmic	5004600	1.4.2018	31.3.2021
6	Development and evaluation of lipid based nanoparticles of Quinapyramine and Isometamidium salt for treatment of trypanosomiasis in camels	Dr. Anil Jindal	Dr. Paul Atish Tulshiram -	DBT	2904600	14.3.2019	13.3.2022
7	Gel-based composite formulatio containing asiaticoside and neurotensin for rapid healin of diabetic wounds	Dr. Anupama Mittal	-	ICMR	1490363	16.8.2018	15.8.2020
8	Umblical cord mesenchymal stem cells derived exosomes as biogenic nanocarriers of miRNA and chemotherapeutic drug for reversal of chemoresistance in breast cancer	Dr. Anupama Mittal	-	DST-Nanomission	4057375	21.3.2018	20.3.2021
9	Role of Endocrine Disrupting chemicals (ECDs) in Maternal and Child Health	Dr. Sunil Kumar Dubey-	Dr. Rajeev Taliyan	ICMR-Ad-Hoc Scheme	900500	15.10.2017	30.9.2020

S.NO	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
10	Cyclic RGD modified lipopolymeric micelles for targeted delivery of tamoxifen in ER+Breast cancer	Dr. Anupama Mittal	-	DST Rajasthan	1253600	7.9.2016	7.9.2019
11	Development of a standardized formulation of Trigonella foenum-graecucum seeds for preventing of delaying the development of Type-2 diabetes in subjects with Pre-diabetes	Dr. Sunil Kumar Dubey	-	ICMR	3200000	15.10.2017	31.12.2019
Physics							
1	Studies on Quarkonium suppression in Asymmetric Nuclear Collision at LHC	Dr. Madhukar Mishra	-	SERB	1585153	18.3.2017	17.3.2020
2	"Investigating Dynamical and Topological Properties of Fioquet Systems: A Comparative study of perturbative Schemes	Dr. Jayendra Bandyopadhyay	Dr. Tapomoy Guha Sarkar	SERB	1621840	17.3.2017	16.3.2020
3	"Generation and Characterization of Attosecond Pulses with Specific Polarization and its Applications"	Dr. Amol Holkundkar	Dr. Jayendra Bandyopadhyay	SERB	1654291	16.3.2017	15.3.2020
4	Electro-optical response of Nematic Liquid Crystals doped with nanorods	Dr. ManjulaDevi V.	-	SERB	3920277	21.8.2017	20.8.2020
5	"Theoretical Study of Electron impact double ionization of atoms and molecules"	Dr. Rakesh Choubisa	-	SERB	2044113	21.3.2017	20.3.2020
6	Substrate supported transition metal dopped alkaline earth clusters as hydrogen storage materials and their applications in hydrogen fuel cell	Dr. Debashish Bandyopadhyay	-	SERB	2057088	26.9.2018	25.9.2021
7	Statistical Mechanics of biopolymers in confined geometry	Dr. Navin Singh	-	SERB	2341979	1.11.2018	31.10.2021
8	EXAFS Investigations on ion conducting polymer nanocompisites for conductivity strucure corelation	Dr. Anshuman Dalvi	-	UGC-DAE	438000	14.3.2016	31.3.2020

Industry Ongoing Projects Department wise

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
Mechanical Engineering							
1	Waste Management of Generated Sludge from Indian Steel and Steel related plants: A sustainable Business Model	Dr. Srikanta Routroy-PI	Dr. Anupam Singhal-Co-PI Dr. Dipendu Bhunia-Co-PI	Ministry of Steel	3049000	24.10.2018	23.10.2020
Pharmacy							
1	In Vivo-In Vitro study design: cardio-reno protective effect of herbal extract (Red spinach extract) in hypertensive rats: Role of NO/cGMP Pathway	Dr. Rajeev Taliyan and Dr. Sunil Dubey	-	Etical Clinpharm Pvt Ltd	991000	1.8.2017	31.3.2020
2	Quality by design (QbD) based suspension product development and process optimization	Dr. Sunil Kumar Dubey and Dr. Gautam Singhvi	-	SLYBACK Pharma	400000	1.1.2018	31.3.2020
3	Preliminary investigation, characterization and stability analysis of micelles formulation	Dr. Sunil Kumar Dubey and Dr. Gautam Singhvi	-	Enaltec Labs Pvt. Ltd	146000	31.1.2018	31.3.2020

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
4	Design and Characterization of Nanoparticle based drug delivery systems of Anticancer drug	Dr. M M Pandey	-	Crenza Pharmaceutical Pvt Ltd Hyderabad	800000	21.3.2018	20.3.2020
5	Novel opthalmic formulation	Dr. R N Saha and Dr. Gautam Singhvi	-	SLYBack Pharma Hyderabad	1400000	4.5.2018	3.5.2021
6	Development and preclinical evaluation of nanostructured lipid particles of bleomycin sulphate for targeting Brain cancer	Dr. Sunil Kumar Dubey and Dr. Gautam Singhvi	-	Oniosome Healthcare Private Ltd.	1275000	1.5.2018	30.4.2020
7	Enhancement of oral bioavailability of selected drugs	Dr. Aniruddha Roy & Dr. Gautam Singhvi	-	INTAS Pharmaceuticals LTd., Ahmedabad	4500000		
8	Pharmacokinetic and toxicity study of designed formulation	Dr. Gautam singhvi and Dr. Sunil kumar Dubey	-	Crenza Pharmaceutical ltd	350000	1.1.2018	31.3.2020

International project ongoing

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
Civil Engineering							
1	Costs and remediatin of Groundwater contamination in India	Dr. Rajiv Gupta	-	University of Virginia, USA	10000000	26.4.2016	31.3.2020
Pharmacy							
1	Nanotechnology based pharmaceutical, nutraceuticals and cosmetics-development of platform technology	Dr. Deepak Chitkara	-	Incisive Elements	2138000	5.4.2017	4.4.2020
2	Develop of novel anti-leishmanial analogues loaded with novel nano-formulations	Dr. S Murugesan	Dr. KVG Chandrashekhar -	DBT-Indo Spain	6000000	26.3.2018	25.3.2020
3	Development of nutraceutical nanoemulsion based health drink of food bioactives	Dr. Anil Jindal	-	Ananta Medicare Limited	510000	20.2.2017	19.2.2020

Consultancy project – Ongoing

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
Economics and Finance							
1	Financial Inclusion	Dr. Arun Kumar Vaish		HCL	18000000	29.2.2016	28.2.2021

Grants under DST- FIST Ongoing

S.No	Department	Period	Duration	Amt. Sanctioned (50:50 Basis) Rs. In Lakhs	Amount Released (Rs. In Lakhs)
1	Chemistry	July, 2016 to July 2021	5	8250000	7600000
2	Physics	September, 2018 to September, 2023	5	10050000	6600000

COMPLETED PROJECTS

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Agency	Sanctioned Amount Rs. In Lakhs	Completion Date
Biological Sciences						
1	Mutant-p53 gain-of-function: its role in regulating long non-coding RNA (lncRNA) Expression and associated chemo-resistance in human cancer cells	Dr. Rajdeep Chowdhury	-	DBT	2500000	28/7/2018

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Agency	Sanctioned Amount Rs. In Lakhs	Completion Date
2	Removal of toxic metal ions from industrial discharges using microalgae	Dr. Prakash	-	DST	3890000	31.12.2018
Chemistry						
1	Investigation of Unfolding and refolding of protiens by Gemini surfactants with varying spacer groups using fluorescence spectroscopy and small angle neutron scattering technique	Dr. Subit Saha	-	UGC-DAE	345000	31.12.2018
2	Effect of Chemical nature of spacer group, headgroups and counterions of gemini surgactants on solvation dynamics and totational relaxation of coumatins in aqueous micelles	Dr. Subit Saha	-	CSIR	928000	30.06.2019
3	Development and application of density functional reactivity theory based modeling techniques to understand the energetics of reactive and non-reactive interactions	Dr. Ram Kinkar Roy	-	DST	3155000	9.2.2018
4	Decoration of Plasmic nanoparticles on Ultrathin 2D Nanostructure of Metal Chalcogenides and their application in photoelectrochemical water splitting and photocatalysis	Dr. Mrinmoyee Basu	-	DST-FT	1982000	30.9.2019
Civil Engineering						
1	Conjunctive use of Rainwater and Ground water to provide safe drinking water with intervention of advanced technology	Dr. Rajiv Gupta	-	DST	12643000	30.9.2019
CSIS						
1	Information gathering from encrypted mobile phone applications	Dr. Ashutosh Bhatia	Dr. Kamlesh Tiwari	CAIR-DRDO	929000	Dec-19
EEE						
1	Development of Tio2 nanotube based highly selective capacitive type sensor device for the detection of methanol poisning in alcoholic beverage	Dr. Arnab Hazra	-	SERB	2776320	30.6.2019
Humanities and Social Sciences						
1	Participatory Exclusion of women and the poor in community Forestry: A Comparative Study of Implementation of the ROFR Act across 3 states of India	Dr. Sailaja Nandigama	Dr. Sanjeev Kr. Choudhary, Dr. Kumar sankar Bhattacharya	ICSSR	700000	30.4.2019
Mathematics						
1	Mathematical modeling and analysis of the dynamics of diabetes mellitus in indian population and control measures	Dr. Padma Murali	-	CSIR	878000	19.08.2019
2	Study of Observational Constraints on dark energy models of universe using COSMOMC in HPC systems	Dr. Suresh Kumar	-	DST-EMR	2629027	12.12.2019
Mechanical Engineering						
1	Modeling Immune Response to Salmonella during Typhoid	Dr. Amol Marathe	-	DST	3403500	7.2.2019
Pharmacy						
1	Insight into dissolution mechanism of amorphous solid dispersions of macitentan	Dr. M M Pandey	-	DBT	800000	19.9.2019
Physics						
1	Development of Surface Plasmon Resonance Instrument with a novel optical design	Dr. R.K. Gupta	Dr. ManjulaDevi V.	DST	5614919	14.1.2020
2	Investigations on Li+ ion conducting glass-ceramic containing NASICON structured nano crystallites	Dr. Anshuman Dalvi	-	DST	3765025	30/9/2019

Industry Completed

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Agency	Sanctioned Amount Rs. In Lakhs	Completion Date
Biological Sciences						
1	Integrated approach for the efficient removal and recovery of Zinc from the viscose fiber process	Dr. S K Verma	Dr. A P Singh Dr. Jitendra Panwar Dr. Suresh Gupta	BITS Pilani-ABSTCPL Joint project	4942000	31.12.2019
Chemical Engineering						
1	Experimental investigations on catalytic treatment of producer gas	Dr. Pratik N Sheth	-	Ankur Scientific Energy Technologies Pvt. Ltd	672000	Jul-19

Consultancy completed

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Agency	Sanctioned Amount Rs. In Lakhs	Completion Date
Civil Engineering						
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	Dr. A K Sarkar	-	NHAI	5350000	Jun-19

International Projects Completed

S.No	Project Title	Principal Investigator	Co- Principal Investigator	Agency	Sanctioned Amount Rs. In Lakhs	Completion Date
Civil Engineering						
1	GCRF-HEFCW-Small Projects	Dr. A K Sarkar, Dr. Prasanta Sahu , Dr. Bandhan Majumder	-	CARDIFF University, UK	1210000	31.5.2019

Grants under DST- FIST Completed

S.No	Department	Period	Duration	Amt. Sanctioned (50:50 Basis) Rs. In Lakhs	Amount Released (Rs. In Lakhs)
1.	Mechanical Engineering	May 2014 to May 2019	5	8150000	7153000
2.	Mathematics	October 2014 to October 2019	5	5000000	3750000
3.	EEE	November 2014 to November 2019	5	7250000	6844000
4.	Biological Sciences	June 2014 to June 2019	5	2750000	2598000
5.	Chemical Engineering	October 2012 to October 2018	5	4025000	3395000

List of Institute Funded projects

Additional competitive Research Grant (III Round) Sanctioned

S.No	Project Title	Dept.	Principal Investigator	Amount Sanctioned	Sanctioned Date
1	Insights into genetic interactions manifesting to onset and progression of parkinson's disease	Biological Sciences	Dr. Meghna Tare	610000	31.1.2019
2	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	400000	31.1.2019
3	Hybrid polymer nanocomposite materials for electromagnetic interference (EMI) shielding applications	Chemical Engg	Dr. Krishna Chaitanya Etika	750000	31.1.2019
4	Failure analysis of MWCNTs-Reinforced laminated composite plate subjected to different types of mechanical loads	Civil Engg	Dr. Rajesh Kumar	880000	31.1.2019
5	Disaster monitoring from aerial imagery using deep learning	CSIS	Dr. Pratik Narang	790000	31.1.2019
6	Brain computer interface controlled humanoid	EEE	Dr. Vinay Chamola	900000	31.1.2019

S.No	Project Title	Dept.	Principal Investigator	Amount Sanctioned	Sanctioned Date
7	Design and development of MEMS based resonant glucose sensor	EEE	Dr. Sujan Yenuganti	225000	31.1.2019
8	Study of Interfacial, Evaporation and ignition characteristic of micro-emulsion for printing, combustion, oil recovery and machining industrial applications	Mechanical Engg	Dr. A R Hari Krishnan	790000	31.1.2019
9	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 Srivastava	150000	31.1.2019
10	Design and synthesis of conformationally constrained cationic peptidomimetics (CPMs) as antimicrobial agents	Pharmacy	Dr. Sandeep Sundriyal	950000	31.1.2019

Additional competitive Research Grant Ongoing

S.No	Project Title	Dept	Principal Investigator	Sanctioned Amount Rs. In Lakhs	Start Date	End Date
1	Design exploration and performance analysis of RF-MEMS SPST and SPDT switches	EEE	Dr. Mahesh Angira	870000	1.2.2018	31.1.2020
2	Investigate role of CRISPR-cas system in pathogenesis of salmonella enterica serovar typhiumurium	Biological Sciences	Dr. Sandhya Amol Marathe	750000	1.2.2018	31.1.2020
3	Understanding the role of long non coding RNA in glomerular endothelial cell dysfunction during diabetic nephropathy	Biological Sciences	Dr. Syamantak Majumder	850000	1.2.2018	31.1.2020
4	Exploiting background information for efficient coordination of multi-robot systems dispatched for service delivery in an indoor environment	CSIS	Dr. Avinash Gautam	800000	1.2.2018	31.1.2020
5	Experimental studies on meachanics of micromechanical structures and cells	Mechanical Engg	Venkatesh Kadbur Prabhakar Rao	820000	1.2.2018	31.1.2020

Additional competitive Research Grant Completed

S.No	Project Title	Dept	Principal Investigator	Sanctioned Amount Rs. In Lakhs	Completion Date
1	An investigation of energy consumption of machine tools	Mechanical Engg	Dr. Girish Kant	965000	31.3.2019
2	Design of Non asynchronous SRAM cell for hybrid catche archetecture using CMOS-FDSOR/FinFET technology	EEE	Dr. Nitin Chaturvedi	525000	31.3.2019
3	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	975000	31.3.2019
4	Particle Image Velocimetry studies on a bench scale cold flow fluidized catalytic cracking (FCC) riser unit	Chemical Engg	Dr. Priya C Sande	1000000	31.3.2019
5	Dual Catalytic monolith reactor for biogas reforming	Chemical Engg	Dr. Srinivas Appari	825000	31.3.2019
6	Interseismic coupling and asperity distribution in Norhtwest Himalaya	Mathematics	Dr. Sumanta Pasari	895000	31.3.2019
7	Ultrasonic assisted grinding of difficult to cupt material with cryo-minimum quantity lubrication	Mechanical Engg	Dr. Varun Sharma	940000	31.3.2019

KK Birla Goa Campus:

Details of Government Sanctioned Projects

S.No	Project Title		Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Biological Sciences							
1.	Development of Novel Biofilm Resistant Coat for Implant Devices from Moringa Oleifera Leaf Extracts		Dr. Sumit Biswas	Dr. Narendra Nath Ghosh Chemistry	ICMR	3613000	13.09.2019 3 years
2.	Bioremediation and Digital Documentation towards the conservation of Cultural Heritage		Dr. Srikanth Mutnuri	Dr. Geetha B., Humanities & Social Sciences Dr. Ramprasad Joshi, CS&IS	DST- SHRI	3280288	17.09.2019 2 years
3.	Restoration of windowpane oyster (placuna placenta linnaeus, 1758) population following sea ranching practices for their long term conservation		Dr. Sumit Biswas		Wildlife Trust of India	170000	31.10.2019 1 year
4	Fine Mapping of the Chromatin structure of key genes involved in reproductive maturation and egg production in dengue vector mosquito, Aedes aegypti		Dr. Tushar Tirtha Saha		SERB- SRG	3159412	17.12.2019 2 years
Chemistry							
1	A Computational investigation on the reaction paths and spectroscopic properties of crown ethers		Dr. Anjan Chattopadhyay		BRNS	2480750	26.06.2019 3 years
2	A polydiacetylene-based fluorescent sensor for the detection of arsenic species and uranyl ion in water by conventional and nuclear analytical methods.		Dr. Amrita Chatterjee		BRNS	3208355	27.11.2019 3 years
Mathematics							
1	Partial Migration Phenomenon : A Game Theoretic Approach to Causes and Environmental Effects		Dr. Anushaya Mohapatra		SERB- SRG	1205292	03.12.2019 2 years
Economics							
1	Impact of "Make in India" and new IPR policy on Innovation of MNCs and Indian MSMEs in Medical Device Sector		Dr. Rajorshi Sen Gupta	Dr. Aswini Kumar Mishra Economics	ICSSR	600000	20.03.2019 2 years
Physics							
1	Innovation in Science pursuit for Inspired Research (INSPIRE)		Dr. Rudranil Basu		DST- Inspire	1400000	10.08.2015 2 years
Mechanical Engineering							
1	Evaluation of Mechanical Performance of the 3-D Printed Peek polymer used in space applications		Dr. D. M. Kulkarni	Dr. Vikas Chaudhari Mechanical Engineering	ISRO	3629000	17.07.2019 3 years
2	Drag Reduction by suppressing the Bi-Stability character of the wake		Dr. Shibu Clement	Dr. Pritanshu Ranjan Mechanical Engineering	ARDB/DRDO (Aeronautics)	2080500	05.09.2019 2 years
3	Microfluidics sperm cell sorting device: addressing male infertility factor		Dr. Siddhartha Tripathi		SERB- SRG	2741440	23.12.2019 2 years
4	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	-	Dr. Devandra Gokul Patil	-	SERB- SRG	2887800	23.12.2019 2 years

S.No	Project Title		Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Chemical Engineering							
1	Continuous flow oil-water separation system using smart separators capable of low-voltage wettability switching		Dr. Pradeep Kumar Sow	-	SERB-ECRA	4651900	17.06.2019 3 years
2	Development of bimetallic catalyst for direct non-oxidative conversion of methane to higher hydrocarbons		Dr. Sharad M Sontakke	-	SERB-EEQ	4250120	05.12.2019 3 years
EEE							
1	Flying Ad Hoc Network for disaster rescue operations		Dr. Sarang C Dhongdi	-	SERB-SRG	2156000	23.12.2019 2 years
Humanities & Social Sciences							
1	Coping with Displacement due to River Erosion in the Indian Sundarban and Lower Assam		Dr. Mohan Kumar Bera	-	ICSSR	450000	13.12.2019 1 year

Details of Industry Sanctioned Projects

S.No	Project Title		Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Biological Sciences							
1	Bioleaching of limestone and clay to remove iron and other transition elements (Titanium, chromium, manganese, nickel and zinc)	-	Dr. Srikanth Mutnuri	-	ABSTCPL	1000000	15.05.2019 1 year
Chemical Engineering							
1	Process Design and Development cost effective method for carbon-silica based hybrid fillers for application in rubber products	-	Dr. S. D. Manjare	Dr. T Sushil Kumar Rajan, Mexichem Industries Mumbai	Apollo Tyres, Chennai	6000000	15.04.2019 4 years
CSIS							
1	Nokia Localization and Nokia health	-	Dr. Vinayak Naik	-	Nokia	1001000	22.07.2019
2	Use of cell phones for detecting and controlling infectious diseases	-	Dr. Vinayak Naik	-	National Geographic Society	623000	22.07.2019

Alumni Funding

S.No	Department/ Center	Period	Duration	Funding Agency	Sanctioned Amount Rs. In Lakhs
1.	Anuradha and Prashanth Palakruthi Center for Artificial Intelligence Research (APPCAIR)	2019	5 years	Alumni	70000000

Management Development Programme

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Economics						
1	MDP on Urban Insurance for we for PNB Metlife official	Dr. Debasis Patnaik	-	PNB MetLife	678972	06.08.2019 1 day

Details of Consultancy- Sanctioned Projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Biological Sciences						
1.	Recovery and Purification of enzymes from spent Mushroom Substrate	Dr.Srikanth Mutnuri	-	Zuari foods & Farms Pvt. Ltd/ Tropical Mushrooms Goa	715000	14.06.2019 18 months

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
CSIS						
1	Proposal for Appointment as Consultant for Implementation of Artificial Intelligence use-cases in Yard Operations and Onboard Ship Operations.	Dr. Ramprasad Joshi	Dr. Ashwin Srinivasan CS&IS	GSL	2600000	16.04.2019 1 year
2	TCS	Dr. Ashwin Srinivasan	-	TCS	720000	06.08.2019
3	TCS	Dr. Ashwin Srinivasan	-	TCS	2656800	31.12.2019
4	1981 Batch Chair Professorship	Dr. Ashwin Srinivasan	-	1981 Batch Chair Professorship	180000	-
Humanities & Social Sciences						
1	Risk & Uncertainty Assessment for Railway Infrastructure due to Impacts of Climate Change	Dr. Rajiv Kumar Chaturvedi	-	Indian Institute of Management, Ahmedabad	224000	11.01.2019 1 year
2	From NDCs to pathways and Policies: Transformative climate Action After Paris	Dr. Rajiv Kumar Chaturvedi	-	Institut Du Developpement Durable ET Des relations Intenationales (IDDRI)	1200000	19.06.2019 2 years
3	Preparation of Goa state Action plan on climate change, concept note and DPR	Dr. Rajiv Kumar Chaturvedi	-	NABARD Consultancy Services Pvt Ltd	365800	25.10.2019 4 months
Mechanical Engineering						
1	Assessing Rotomoldability of Materials for Roots Multiclean Ltd, Tamil Nadu.	Dr. Sachin Waigaonkar	-	Roots Multiclean Ltd, Tamil Nadu.	125840	01.11.2019 2 weeks
Chemical Engineering						
1	To carry out study on issue of volatile Organic Emission	Dr. Sharad M Sontakke	-	Aegis Logistics Limited	216000	06.09.2019 1 month
2	Assessment of MNQ Production Process	Dr. S. D. Manjare	-	Deccan Fine Chemicals (India) Pvt Ltd	354000	03.10.2019 4 Months
3	Assessment of BFBTF Production Process	Dr. S. D. Manjare	-	Deccan Fine Chemicals (India) Pvt Ltd	354000	03.10 2019 4 Months
4	Life cycle Assessment of Lote plot	Dr. S D Manjare	-	Laxmi Organic Industries Ltd	672600	24.12.2019 3 months

International Projects Sanctioned

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
1	Feacal Sludge Lab at Goa (1966 Batch)	Dr M Srikanth	-	1966 -1971 BITS Alumni Batch	5059000	27.05.2019

New sanctioned projects January 2020 onwards

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Biological Sciences						
1	Integrated Track in Brain and Cognitive Science (iBRAIN)	Dr. Veeky Baths		Erasmus Programme	138350 EUR	15.01.2020 3 years
2.	Targeting the amyloid matrix of staphylococcal biofilms for effective management of its recalcitrant infections	Dr. Nikita Admane	Dr. Sumit Biswas Mentor	ICMR-DHR	4735500	14.02.2020 3years
Mathematics						
1	Numerical approximation of Optimal Problems using Virtual Element Method	Dr. Anil Kumar	-	SERB-CRG	1907400	08.01.2020 3 years
Chemical Engineering						
1	Studies on CO fuelled self-sustaining Unmixed Combustion (UMC) reactor for integrated CO2 capture and power/steam generation	Dr. Srinivas Krishnaswamy	Dr. Amol Deshpande	DBT	7861832	17.01.2020 3 years

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
2	Studies on hybrid Pressure Retarded Osmosis (PRO) – Reverse Osmosis (RO) system for energy generation utilizing hypersaline RO reject stream	Dr. Anirban Roy	-	SERB- CRG	3630264	28.01.2020 3 years
EEE						
1	MPSoC Based Automated Digital Signal Processing System for Tokamak Reflectometry	Dr. Amalin Price	-	BRNS	2529350	27.01.2020
Physics						
1	Quantum information Technologies with Ion-trap and Optical -lattice devices	Dr. Radhika Vathsan	-	DST-QuEST	4840000	24.02.2020 3 years
CS&IS						
1	A Low Power Deep Spiking neural network for forest surveillance	Dr. Basabdatta Bhattacharya	NA	SERB-CRG	3147973	18.02.2020 3 years

New Consultancy sanctioned projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
1	Life cycle Assesment(LCA) for synthetic organic chemicals factory for manufacture of Dyes, Dye-/Intermediates & reactive Dyes	Dr. S D Manjare	-	Shree Pushkar Chemicals & Fertilizers Ltd	129800	23rd Jan 2020 4 Months
2	Performance assessment of MTB & Oxa production process	Dr. S D Manjare	-	Deccan Fine Chemicals (India) Pvt Ltd	401200	13th Dec 2019 4 Months
3	Performance Assessment of 2,4,6-trichloroaniline (TCAN) production process	Dr. S D Manjare	-	Deccan Fine Chemicals (India) Pvt Ltd	401200	25th November 2019 3 Months

Approved Projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Approved Date & Duration
Economics						
1	Impact Assessment of Indigenous ST Innovations developed by start-ups incubated in Academic Institutions in India	Dr. Rajorshi Sen Gupta	Dr. Aswini Kumar Mishra Economics	DST	1200000	09.10.2019 2 years
Biological Sciences						
1	Empowered septic Tank as a decentralized wastewater treatment system	Dr. Srikanth Mutnuri	Prof. Korneel Rabaey Ghent University Belgium	DBT-BIRAC	15192700	20.02.2020 2 years

ONGOING

Ongoing Sponsored Research projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Biological Sciences						
1	Sanitation, water and solid waste for development	Dr. Srikanth Mutnuri	-	Agreement between EAWAG, Switzerland and BITS, Goa	726000	30.11.2018 2 years
2	Small Scale and sustainable household wastewater recycling	Dr. Srikanth Mutnuri Project partner with Indian Inst. of Science	Dr. Hoysall N Chanakya (CISTUP) Prof. Ghangrekar, IIT, Kharagpur Arun Kumar, NITK, Surathkal	DST/MHRD under IMPRINT scheme	3192000	03.05.2017 2 years

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
3	Exploration of Antifungal lead molecules from the wild type Bacillus subtilis RLID 12.1 purification and molecular characterization along with optimizing production	Dr. Utpal Roy	Prof. Arunalokechakrabarti (PGIMER), Chandigarh	DBT	3804600	03.02.2017 3 years
4	Evaluation of Antifungal activity of lipopeptides from a wild type Bacillus sp.RLID 12.1in mouse models of invasive candidiasis, crypotococcosis, and Aspergillosis	Dr. Utpal Roy	Prof. Arunalokechakrabarti (PGIMER), Chandigarh	SERB	2459000	12.12.2018 3 years
5	Study on the role of Tonoplast Intrinsic Protein Family members in arsenite accumulation and their transport in rice	Dr. Kundan Kumar	Dr. Sudhakar Srivastava, Banaras Hindu University	BRNS	2939900	27.02.2017 3 years
6	Developing Bioactive Compound - Enriched Functional Food Ingredients from Dillenia indica and valorization of its pomace	Dr. Srikanth Mutnuri	Dr. Anasuya Ganguly Biological Sciences Dr. Manashi Das Purkayastha Dr. Abhijit Borah (Assam Agricultural University)	DBT, Twinning Projects for the NE-2015	1686000 (BITS share out of total cost 4215000)	14.03.2017 3 years
7	Response of Copepods to crude oil pollution and warming	Dr. Lalita V. Baragi	Dr. Srikanth Mutnuri (Mentor Biological Sciences	SERB	1920000	02.02.2018 2 years
8	Exploring the effects of polyamine and associated metabolic regulation of hypothalamic GnRH-GnIH synthesis and release during ageing in BALB/cJ mice	Dr. Arnab Banerjee	Dr. Rajiv Taliyan Pilani Campus	SERB	3435200	05.12.2018 3 years
9	Introducing cyanobacterial bicarbonate transporters into C_3 plants for enhanced photosynthetic performance	Dr. Sandhya Mehrota	Dr.Rajesh Mehrotra Biological Sciences	EMR- Core	3773000	20.08.2018 3 years
10	Studies on the effect of Russells Viper Venom on regulation of cell morphology, apoptosis and further characterization of the active compound(s).	Dr. Dibakar Chakrabarty	Dr. Anshuman Sarkar Biological Science	ICMR	2477000	23.03.2018 3 years
11	TNF Alpha Mediated Alternative Splicing in Type 2 Diabetes; A genome Wide Approach	Ms. Jiss Maria Louis	Mentor Dr. Indrani Talukdar Biological Sciences	DST (WOS)	2068000	24.07.2019 3 years
12	Screening isolation and identification of Novel Antimicrobial compounds from potential Mangroves of Goa	Kundan Kumar	Dr. Utpal Roy Biological Sciences	CSIR	2000000	17.05 2016 3 years
Chemical Engineering						
1	Mesoporous nanocomposites for controlling microbially induced corrosion caused by sulfate reducing bacteria	Dr.Sutapa Roy Ramanan	Dr. Meenal Kowshik Biological Sciences	SERB-CORE	3260400	27.03.2019 3 years
2	Catalytic HI decomposition studies in membrane reactor for hydrogen production (transferred project)	Dr. Sharad Sontakke	-	BRNS	1933000	31.03 2016 3 years
3	Development of suitable material for visible light induced photocatalytic hydrogen production from industrial wastewater	Dr. S. S. Baral	-	SERB	3583000 (BITS share out of the total amount of Rs. 5332000/-)	13.10.2017 3 years
4	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	Dr. Manjuri Kumar	Dr. Sumit Biswas Biological Sciences	SERB	2305578	24.10.2018 3 years
5	Formulation of bio-functionalized cosmetic emulsions using biosurfactant and essential oil as green ingredients	Dr.Vivek R.	-	SERB-ECR	3027670	19.07.2018 3 years

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
6	Mechanistic approach to design composite metal- carbon nanofiber oxygen electrodes for high-performance metal-air batteries	Dr. Richa Singhbal	-	SERB-ECR	4559920	30.08.2018 3 years

Chemistry

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
1	Computational Study of the Catalytic Mechanism Some Diaryldiselenide-based Glutathione peroxidase Mimetics	Dr. Raghu Nath Behera	-	SERB	1642280	04.01.2017 3 years
2	Design and synthesis of grapheme oxide based AIE-sensor for selective detection of Hg(II) and Organic mercury in aqueous medium	Dr. Amrita Chatterjee	Dr. Narendra Nath Ghosh Chemistry	UGC- DAE Consortium for Scientific Research Proposal	703000	01.02.2017 3 years
3	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	Dr. P. Bhavana	-	SERB	2822820	8.11.2016 3 years
4	A Comprehensive study on mechanochemical sp2 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	Dr. Mainak Banerjee	-	SERB	3057560	13.12.2016 3 years
6	Experimental and Computational study of Boron Doped TiO2 and ZnO Nanocrystals	Dr. Jayadevan K. P.	Dr. R. N. Behera Chemistry	SERB	2332515	15.03.2017 3 years
7	Development of PCDA-liposome based detection kit for Alzheimer's disease biomarker	Dr. Amrita Chatterjee	Dr. Malabika Biswas Biological Sciences Dr. Ramesha C.K. EEE	SERB	2663200	14.03.2017 3 years
8	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	Dr. Mainak Banerjee	Dr. Amrita Chatterjee Chemistry	BRNS	2792500	29.12.2017 3 years
9	Development of mesoporous silica (for alumina)-SiC- metal nanoparticles based nanocomposites for rader absorption application at high temperature	Dr. Narendra Nath Ghosh	Dr. Amrita Chatterjee Chemistry	DRDO	1513000	10.09.2018 3 years
10	Cyclic Peptide-based nanotubes for Efficient proton conducting material	Dr. Subhasish Roy	NA	DST- Inspire	3500000	14.05.2018 5 years

CSIS

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
1	Knowledge- Rich Deep Models for Optimisation	Dr Ashwin Srinivasan	-	SERB	2250290	16.07.2017 3 years

Mathematics

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
1	Predictive Mathematical Modelling and Analysis for Effective Diagnosis and Control of Diabetes mellitus with associated Co-infections Diseases among Indian	Dr. P. Dhanumjaya	Prof. V. Sree Hari Rao, International Centre for Interdisciplinary Research & Innovation, Hyderabad	SERB	1568490	15.03.2017 3 years
2	A Study on the inequalities involving complex polynomials	Dr. Prasanna Kumar N.	-	National Board for Higher Mathematics, DAE	1304100	31.03.2017 3 years

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
3	Theoretical and numerical study of elliptic and parabolic partial differential equations with interfaces	Dr. P. Dhanumjaya	-	National Board for Higher Mathematics, DAE	1348100	31.03.2017 3 years
4	A Study on the Bernstein- type inequalities for the polar Derivative of a Complex Polynomial	Dr. Prasanna Kumar	-	CSIR	1646000	26.04.2017 3 years
5	Study on dark energy, dark matter and cosmic acceleration of the Universe in modified gravity	Dr. Gauranga Charan Samanta	Dr. Prasanta Kumar Das Physics	CSIR	1696000	26.04.2017 3 years
6	A study of homotopy invariats of a model category	Dr. Shilpa Gondhali	-	SERB (MATRICS) SCHEME	600000	04.01.2018 3 years
7	A Theoretical and Numerical Study of the Control Problems Involving Differential Equations with Memory Terms,	Dr. Anil Kumar	-	SERB MATRICS	660000	08.03.2019 3 years
8	Magic and Antimagic Labelling of Graphs	Dr. Tarkeshwar Singh	Dr. A. Somoasundaram (BITS, Dubai Campus)	SERB	1954832	21.05.2019 3 years
Mechanical Engineering						
1	An Acoustic Study characterization and standardization of the Sarasvati Veena	Dr. Pravin M Singru	Dr. Radhika Vathsan Physics	SERB	3695560	15.03.2017 3 years
Physics						
1	Ecofriendly flexible CZTS solar cells	Dr. Teny Theresa John	Dr. M. K. Jayaraj, CUSAT, Kochi	SERB	2925560	04.08.2017 3 years
2	Studies on biomolecular transport through nuclear pore complexes using a dual fluorescence channel confocal microscope	Dr. P. Nandakumar	Dr. Meenal Kowshik Biological Sciences	SERB	4404104	02.03.2017 3 years
3	Signature of Space-time noncommutativity in high energy colliders	Dr. Prasanta Kumar Das	-	SERB	1885515	09.03.2017 3 years
4	Room temperature Hydrogen Storage and sensing using Reduced Graphene Oxide-MoS2 Nanocomposites	Dr. E. S. Kannan	-	SERB	3061520	09.03.2017 3 years
5	Spin seebeck Effect in novel heterostructures	Dr. Ram Shanker Patel	Dr. Kartik Senapati Dr. Pratap Kumar Sahoo NISER Bhubaneswar	SERB	5083821	14.03.2017 3 years
6	Noninvasive investigation of stem cell differentiation using an in house	Dr. Geetha Varier	Dr. P. Nandakumar (Mentor) Physics	DST-WOS-A	3201000	07.01.2019 3 years
Economics						
1	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	Dr.Sukumar Vellakkal	-	PHRI-DST	1850750	09.01.2019 20 months

Industry Ongoing Projects Department wise

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Chemical Engineering						
1	Process Improvements in Urrakh and Feni Production in Goa" (Pilot Scale Process and thermal Efficiency improvement measures)	Dr. S. D. Manjare	Prof. Pramod V. Pathak , Environmental Impact Assessment Agency, Goa	Goa Energy Development Agency (GEDA) (DSTE, Goa	1000000	13.10.2017 3 years

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
2	Unmixed reforming (UMR) of Methane for Hydrogen Production	Dr. Srinivas Krishnaswamy	Prof. Aniruddha B. Pandit, Institute of Chemical Technology, Mumbai	SERB (BPCL)	5611000	19.12.2016 3 years
Mechanical Engineering						
1	Study of lubricant and application method for enhanced surface finish and reduced draw load on cold drawn steel tubes	Dr. Varinder Singh	Prof. Amit Kumar gupta Prof. Srinivas P Regalia Dr. Tufan Chandra Bera	Tube Investments of India Ltd. Chennai	2743000	08.08.2017 3 years
Biological Sciences						
1	Bioremediation of Red mud using acidogenic fermentation byproducts and by biopiling	Dr. Srikanth Mutnuri	Dr. Neeru Sood (Dubai Campus)	ABSTCPL	3575000	18.06.2018 2 years
International Project Ongoing						
Biological Sciences						
1	Literacy and Cognition project (MPI)	Dr. Veeky Baths	Co-PI Dr. Falk Huettig	Max Planck Institute	444493.14	13.11. 2018 2 years
2	Developing Resource Recovery and use (RRR) business options in the sanitation Sector	Dr.Srikanth Mutnuri		IWMI	375000	07.12.2018 1 month
Chemistry						
1	Photo-irradiation and Adsorption based Novel Innovations for Water-treatment" (PANI).	Dr. Halan Prakash	Consortium partners comprise of 5 European countries, Ireland, UK, Spain, Italy, Cyprus and 5 Indian partners, NEERI, Nagpur; Kwality Photonic, Hyderabad; Affordable water solutions, Hyderabad; Society for Alternative Developments, New Delhi; and Society for Technology & Action for Rural Advancement, New Delhi.	Horizon H2020 (EU) - DST	20931000	31.03.2019 4 Years
2	Novel micro and nano sensors for antibiotic resistance measurement.	Prof. Sunil Bhand	Dr.Bin Xie,Lund university, sweden and Dr. Eng. Nelida Leiva Eriksson Lund University Sweden, Prof Utpal Roy BITS Goa	SPARC	5105296	15.03.2019 2 years
CSIS						
1	Mobile App for improving survival in fires through efficient egress: The role of impromptu indoor WiFi localization and georeferenced building maps	Dr.Ashwin Srinivasan	Dr. Vinayak Naik and Dr. Raja Sengupta (Canada) & Liliana perez (Canada)	DST and IC-IMPACT Canadian Project	3831512	17.09.2019 2 years
CONSULTANCY PROJECT – ONGOING						
Biological Sciences						
1	Cloning of spot blotch disease resistance gene in wheat.	Dr. Rajesh Mehrotra	-	CIMMYT	1500000	18.07 2018 2 years

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Humanities & Social Sciences						
1	English Translation of Two Literary works in Malayalam, Haritha Niroopanam Malayalathil (Green - Criticism in Malayalam) and Aa Aa Aanakkathakal (those	Dr. Rayson K Alex	-	Association for the study of Literature and Environment(USA)	70000	29.01.2019 1 year
Chemical Engineering						
1	Environmental Audit (EA) for Ammonia, Urea, & Phosphate Fertilizers Units and Storage Sections.	Dr. S. D. Manjare	-	M/s.Zuari Agro Chemicals Ltd	851900	08.01.2019 5 months
2	Water Audit (WA) for Ammonia, Urea, & Phosphate Fertilizers Units and Storage Sections.	Dr. S. D. Manjare	-	M/s.Zuari Agro Chemicals Ltd	851900	08.01.2019 6 months

Development Grant ongoing

S.No	Title of the project	Principal Investigator	Funding Agency	Period	Sanctioned amount(Rs.)
1.	Bioincubator in Health and environmental engineering	Development Grant	BIRAC-Bio-NEST	March, 2017- March,2020	29664000

Grants under DST- FIST Ongoing

S.NO	Department	Period	Duration	Amt. Sanctioned (50:50 Basis)	Amount Released (Rs.)
1	Mathematics	August, 2015- August,2020	5	3750000	1875000
2	Chemical Eng.	January, 2015- January, 2020	5	6200000	3100000
3	Biological Sciences	January, 2019-January,2024	5	16000000	8000000
4	Physics	March, 2018-March 2023	5	29000000	14500000

COMPLETED PROJECTS

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Completion date
Chemical Engineering						
1	Synthesis of hydroxyapatite based biocompatible functional magnetic nanoparticles and Investigation of its interaction with biomolecules	Dr. Sutapa Roy Ramanan	Dr. Meenal Kowshik Biological Sciences	UGC-DAE Consortium for scientific research, BARC	270484	31.12. 2018
2	Development of anodic material for DSSC (transferred project)	Dr. Sharad Sontakke	-	DST Inspire	700000	31.05.2019
3	Rheological dynamics of polymer-layered silicate/graphene nancomposites	Dr. Asima Shaukat	-	DST INSPIRE	3500000	30.11.2019
4	Visco-Elastic, Visco-Plastic and thixotropic behavior of bio-greases and its influence on lubrication (tribiological) performance	Dr. Asima Shaukat	-	DST-SERB	5467300	25..09 2019
5	Chlorine resistant Nano Enhanced Polymer Blend Membranes	Dr. Jegatha Nambi Krishnan	-	DST-SERB	3174281	19.07 2019
EEE						
1	Development of Software Defined Radio (SDR) based GNSS receiver	Dr. Nitin Sharma		ISRO	3300000	17..07.2019
Chemistry						
1	Nonadiabatic molecular processes on threefold electronic degeneracies	Dr. Tanmoy Mondal		DST Inspire	3500000	21.01.2019
2	Development of field portable devices for heavy metal detecgtion in water	Prof. Sunil Bhand	Dr R Balasubramanian (BARC Mumbai)	BRNS	2413800	31.12. 2018
3	Nano-based detection of organophosphate pesticides using metal organic framework conjugates	Lalit M Bharadwaj, Amity University CCPIs Dr. Sunil Bhand	Dr. Irani Mukherjee, IARI, New Delhi	NASF, ICAR	Rs. 17740210 BITS share Rs. 4308110	31.12.2019

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Completion date
Humanities & Social Sciences						
1	Agenda 2020: India's Maritime Infrastructure, Governance & Naval Diplomacy	Dr. R. P. Pradhan	Prof. Geetha Reddy Anant. Osmania University, Hyderabad Prof. W. Lawrence S. Prabhakar, Madras Christian College, Chennai Mr. Dilip Mehrotra, Secretary, IOMOU, Goa	ICSSR	1500000	31.03.2019
Biological Sciences						
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 (Capsicum annum L)	Dr. Gauri Anil Achari	Mentor: Dr. Meenal Kowshik Biological Sciences	SERB	1920000	03.05.2019
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	Dr. Angshuman Sarkar	Dr. Indrani Talukdar Biological Sciences	DBT	2355000	29.07 2019
3	Lanthanide doped hydroxyapatite based nano-materiols for theranostics applications: Sensing, Imaging, and Therapeutics (Sanction letter shows a different title)	Dr. Meenal Kowshik	Dr. Sutapa Roy Ramanan Chemical Engineering Dr.Geeta Varier Physics	DST	3964771	16.06.2019
4	Academia Engagement on Decentralized Sanitation under Sanitation Capacity Building Platform	Dr. Srikanth Mutnuri		NIUA New Delhi	1280000	31.03. 2019
5	Demonstration of a waste to energy project by anaerobic Codigestion of food and septage	Dr. Srikanth Mutnuri		DBT	16160000	28.11. 2019
6	Home automation and smart wheel chair based on electroencephalography (EEG) signals produced in the brain	Dr. Veeky Baths	Dr. Bharat M Deshpande CS&IS	CSRI (DST)	3895600	19.08.2019
7	Demonstration of river Sal cleaning by vertical wetland and river bank filtration	Dr. Srikanth Mutnuri	Dr. Fraddry D'souza Fellow and Area Convener, The Coastal Ecology & Marine Resources Centre, The Energy and Resources Institute, Panaji Dr. Kavita Vithal Patil, Research Associate, The Coastal Ecology & Marine Resources Centre, The Energy and Resources Institute, Panaji	DBT (river cleaning)	5015000 (BITS share out of total 6885000)	31.12.2019

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Completion date
8	Studies on the gene regulation involved in the lytic-lysogenic switch in staphyloccus aureus temperate bactrtiophage phil1	Dr. Malabika Biswas	-	SERB	2046453	29.12.2019
Physics						
1	Observational signals of quantum gravity in CMB	Dr. Kinjal Banerjee		Startup research grant, SERB	318528	12.02.2019
Mechanical Engineering						
1	Study and analysis of fluid dynamics and heat transfer characteristics in circulating fluidized bed heat exchanger with novel designs of distributor plates	Dr. Ranjit S Patil		SERB	2766000	12.02.2019
CSIS						
1	Development of Remotely configurable Arbitrary Ramp Generator for Frequency modulated continuous Wave Reflectomerty	Dr. Neena Goveas	Dr. A. Amalin Prince EEE	DAE-BRNS	2802500	31.03.2019

CSIS- Transferred Project

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Transfer date
1	Secure vehicular communication and routing in future intelligent transportation systems (ITS)	Dr. Debasis Das	NA	SERB Early career research award	1981100	14.05.2019

Industry Completed

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Completion date
Chemistry						
1	VegfruitSens: Development of sensing system for residual pesticide and harmful chemical detection in fruits and vegetables	Prof. Sunil Bhand	Dr N Bhattacharyya (CDAC Kolkata) Prof Rajib Bandyopadhyay Jadavpur University	R D Tata trust (to CDAC, Kolkata)	5320000 (BITS share) (Total project cost is Rs. 212 lakhs)	31.12.2018

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding agency	Amount Sanctioned (Rs.)
Mechanical Engineering					
1.	Material property guides for Rotational moulding	Dr. Sachin Waigaonkar	-	Society of Asian Rotomoulders (STAR)	75000
2.	HoD Mechanical (Ranjit Patil)	HoD Mechanical (Ranjit Patil)	-	BMW	2500000

MDP consultancy completed

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Sponsored Organization	Amount Sanctioned (Rs.)
Economics					
1.	MDP workshop for PNB-MetLife	Dr. Debasis Patnaik		MDP for PNB-MetLife	199000

Grants under DST- FIST Completed

S.NO	Department	Period	Duration	Amt. Sanctioned(50:50 Basis)	Amount Released (Rs.)
1.	Chemistry	March, 2013-March,2018	5	7700000	3850000

List of Institute Funded projects

Additional competitive Research Grant (III Round) Sanctioned

S.No	Name of Faculty	Department	Title of Proposal	Budget Amt (lakhs)	Start date	End Date
1	Dr. Siddhartha Tripathi	Mechanical Engg	Isolation of white blood cells using a passive hydrodynamic microfluidic device	900000	01.11. 2019	31.10.2021
2	Dr. Basabdatta Bhattacharya	CSIS	A multi-layer neural network for dynamic visual scene learning, cognition, and decision implemented on GPU and SpiNNaker.	1000000	01.11. 2019	31.10.2021
3	Dr. Vinayak Naik	CSIS	RESCUER – RESidential Cooling Usage for Energy Reduction	556900	01.11. 2019	31.10.2021
4	Dr. Subhasish Roy	Chemistry	Versatile catalytic behaviour of short peptide-based supramolecular assemblies	1000000	01.11. 2019	31.10.2021
5	Dr. Kiran Vankayala	Chemistry	Single atom catalysts on two dimensional nanosheets for the generation of renewable fuels	995000	01.11. 2019	31.10.2021
6	Dr. Devendra Patil	Mechanical Engg.	Feasibility Study of Innovative Piezo-based System for Inhibition of Subsea Algal Growth and SHM of Marine Structures	927500	01.11. 2019	31.10.2021
7	Dr. Tusar T. Saha	Biological Sciences	Investigating the role of juvenile hormone signaling pathway components in chromatin remodeling of target genes using reverse genetic approach	1000000	01.11. 2019	31.10.2021
8	Dr. Swastibrata Bhattacharyya	Physics	First principles study of new two dimensional electrode materials for metal ion batteries		01.11. 2019	31.10.2021
9	Dr. Paramita Haldar	Chemical Engg	Computational understanding of structural evolution and reaction kinetics during the lithiation and delithiation process of silicon anode in lithium ion battery	3000000	01.11. 2019	31.10.2021
10	Dr. Pritanshu Ranjan	Mechanical Engg	Numerical Investigation of fluid flow and heat transfer around a rotating circular cylinder		01.11. 2019	31.10.2021

Additional competitive Research Grant Ongoing

S.No	Name of Faculty	Department	Title of Proposal	Budget Amt (lakhs)	Start date	End Date
1	Dr. Ashish Chittora	EEE	High power compact UWB TEM antenna and mode converter design	950000	01.11.2018	31.10. 2020
2	Dr.Gautam G. Bacher	EEE	Design and Simulation of Micro devices for Development of Reliable Biosensor	1000000	01.11.2018	31.10. 2020
3	Dr. Sarang Dhongdi	EEE	Design and Development of Underwater Acoustic Modem	888000	01.11.2018	31.10. 2020
4	Dr. Rajiv Kumar Chaturvedi	Humanities & Social Science	Revival of Long-term forest monitoring in the Western Ghats, for assessing changes in ecosystem services under changing climate	462500	01.11.2018	31.10. 2020
5	Dr. Pradeep Kumar Sow	Chemical Engineering	Development of transition metal oxide based nanostructured surfaces for low-voltage tuning of wettability	917000	01.11.2018	31.10. 2020
6	Dr. Richa Singhal	Chemical Engineering	Aqueous rechargeable metal- air batteries for large scale energy storage	877000	01.11.2018	31.10. 2020
7	Dr. Vivek Rangarajan	Chemical Engineering	Biopolymers from thermophilic bacteria for fly- ash disposal and soil erosion prevention applications.	670000	01.11.2018	31.10. 2020
8	Dr. Amol Deshpande	Chemical Engineering	Experimental investiation of unmixed combustion process with copper and nickel based material at high temperature.	1000000	01.11.2018	31.10. 2020
9	Dr. Anirban Roy	Chemical Engineering	Design, Development and field trials of a prototype for point of source treatment of domestic waste water (DWW)	800000	01.11.2018	31.10. 2020
10	Dr. Sharad Sontakke	Chemical Engineering	MOF's and its composites for direct solar light driven photocatalytic degradation of dye effluents	1000000	01.11.2018	31.10. 2020

S.No	Name of Faculty	Department	Title of Proposal	Budget Amt (lakhs)	Start date	End Date
11	Dr. Vadiraj Hemadri	Mechanical Engineering	Thermal Characterization of Loop Heat Pipe with nanofluids using Infrared Thermography	900000	01.11.2018	31.10. 2020
12	Dr. Sandeep Jose	Mechanical Engineering	A study on energy barrier to buckling in cylindrical shells	1000000	01.11.2018	31.10. 2020
13	Dr. Kiran Dinkar Mali	Mechanical Engineering	Experimental and Numerical Study on Crashworthiness of Aluminium-Composite Collapsible Energy Absorber under Quasi-static Loading	525000	01.11.2018	31.10. 2020
14	Dr. Sandeep Singh	Mechanical Engineering	Atomistic continuum coupled methods for the large deformation simulation of two dimensional nanomaterials	690000	01.11.2018	31.10. 2020

Research Initiation Grant (RIG)

List of Goa Faculty for RIG

S.No	Title of Research Proposal	Name of faculty	Department	Sanctioned Year	End Date	Sanctioned Amount
1	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	Dr. Sayantani Sarkar	Hum. & Soc. Sci.	2018-19, date 30.01.19	29.01.21	200000
2	AES: Automated Evaluation Systems for Computer Programming Course in Any University	Dr. Soumyadip Bandypadhyay	CS & IS	2018-19, date 20.03.19	19.03.21	200000
3	Flat Holography: Integrable Field Theories as Dual to Asymptotically Flat Quantum Gravity	Dr. Rudranil Basu	Physics	2018-19, date 02.04.19	01.04.21	200000
4	The Role of Juvenile Hormone in Chromatin Remodeling of Target Genes in mosquito Aedes Aegypti	Dr. Tusar Tirtha Saha	Bio. Sci.	2018-19, date 06.04.19	05.04.21	200000
5	Coping with Crisis of Livelihood and Disasters: A Study of Migration in Sundarban Islands	Dr. Mohan Kumar Bera	Hum. & Soc. Sci.	2018-19, date 12.04.19	11.04.21	200000
6	Investigation of Electronic and Structural Properties of Low Dimensional Hybrid Materials using First Principles Calculations	Dr. Swastibrata Bhattacharyya	Physics	2018-19, date 18.04.2019	17.04.21	200000
7	Materials for Nitrogen Fixation and Water Splitting	Dr. Vankayala Kiran	Chemistry	2018-19, date 22.04.19	21.04.21	200000
8	The Effects of Environmental Fluctuations on the Evolution of Partial Migration Phenomenon	Dr. Anushaya Mohapatra	Mathematics	2018-19, date 10.05.19	09.05.21	200000
9	Mobile App for Improving Survival in Fires through Efficient Egress: The Role of Impromptu Indoor Vifi Localization and Georeferenced Building Maps	Prof. Vinayak Naik	CS & IS	2018-19, date 13.05.19	12.05.21	200000
10	Emergent Catalytic Behavior of Low Molecular Weight Peptide-based Supramolecular Fibrils	Dr. Subhasish Roy	Chemistry	2018-19, date 16.05.19	15.05.21	200000
11	Modeling of Switches for beyond-CMOS Applications	Prof. Abhijit Jayant Pethe	EEE	2018-19, date 16.05.19	15.05.21	200000
12	Link and Content based Analysis of Online Recruitment in Terrorist Communities	Dr. Swati Agarwal	CS & IS	2018-19, date 12.06.19	11.06.21	200000

Details of Government Sanctioned Projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Biological Sciences						
1	Probing the functional and regulatory role of m6A reversible RNA methylation in skeletal myogenesis and muscle wasting	Dr. Piyush Khandelia	NA	DST	55,58,360	27.03.2019 3years
2	Deciphering the role of host-microbiota derived bile acids in programing immune cell function during intestinal inflammation	Dr. Trinath Jamma	NA	CSIR	24,94,000	17.05.2019 3years
3	Elucidating the role of long non coding RNAs (inc RNAs) in neuronal cell death during Japanese encephalitis(JE)	Dr. Vivek Sharma	Dr.Naga Mohan K	DBT	68,76,800	05.03.2019 3years
4	Study to be conducted in collaboration with Telangana State Pollution Control Board	Dr. Suman Kapur	NA	CPCB	9,50,000	05.04.2019 1year
Chemical Engineering						
1	Designing of potential adsorbents via molecular modelling and simulations for the high temperature carbon dioxide capture	Dr. Angan Sengupta	NA	DST	21,95,220	26.11.2019 2years
2	Modelling the capacity loss in lithium ion batteries during cycling	Dr. Balaji Krishna Murthy	Dr. Vikranth Kumar S	CSIR	18,00,000	24.07.2019 3years
3	Waste Minimization and Carbon Capture with Coal Flash Doped Sorbents- A Two-Edged Sword	Dr. I Sreedhar	NA	CSIR	20,00,000	24.07.2019 3years
Chemistry						
1	DESIGN AND SYNTHESIS OF DIVERSE PYRROLE-PYRIDINE BASD MOLECULES AS SELECTIVE SENSORS FOR Zn2+AND F-	Dr. Anupam Bhattacharya	NA	CSIR	16,52,940	17.05.2019 3years
2	High potency of complex dietary β-glucan fibers as Cholesterol and Low-Density Lipoprotein lowering agents: A comprehensive mechanistic investigation through advanced dynamical simulations.	Dr. Durba Roy	NA	DST	36,66,520	09.05.2019 3years
3	Synthesis of highly stable Zr-based mixed - linker metal organic frameworks (MOFs) for humidity control and gas separation	Dr. Himanshu Aggarwal	NA	DST	21,98,183	30.10.2019 2years
4	In search of unsymmetrically substituted anthracenyl π-conjugates as tunable mechanofluorochromic small molecule	Dr. Manab Chakravarty	NA	DST	28,25,160	29.03.2019 3years
Civil Engineering						
1	Development of a comprehensive methodology to improve traffic safety in Indian urban roadways based on advanced statistical techniques	Dr. Bandhan Bandhu M	NA	DST	11,39,880	26.11.2019
2	Experimental and computational studies of surface water quality parameters from morphometry and spectral characteristics	Dr. Jagdeesh Anmala	Dr. Murari R R Varma & Dr. Rajitha K	CSIR	41,9,8080	22.07.2019
3	Rainfall-Runoff modelling for lower Godavari basin in a changing climate	Dr. K S Raju	Dr. Nagesh Kumar	CSIR	16,00,000	24.07.2019 3years
4	Quality Control in road works	Dr. Sridhar Raju	Dr. Prasanta Kumar Sahu	Govt of Telangana Roads and Building Dept.	9,90,000	01.08.2019 2years
5	Semi field study to evaluate the efficacy of Geocomposite layer in place if conventional Granular Sub-base layer	Dr. Sridhar Raju		M/s Strata Geosystems, Mumbai	400000	16.12.2019 1year
CSIS						
1	Interpretation of tuberculin reaction using medical photography and computer aided diagnosis	Dr. Jabez Christopher	NA	DST	9,83,400	26.11.2019 2years
2	MUT-DROCOM:Ultipath networking Test-bed for DROneCOmmunications·	Dr. Paresh Saxena	NA	DST	1660600	03.01.2020 2years

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Economics						
1	Impact of modern organized multi brand retail trade on street vendors case study of two capital cities	Dr. Archana Srivastava	NA	ICSSR	4,50,000	18.11.2019 1year
2	Does Financial Awareness lead to Better Financial Inclusion Outcomes? An Investigation	Dr. Durgesh Ch Pathak (PI)	Dr. Rishi Kumar	IMPRESS-ICSSR	4,50,000	15.03.2019 1year
3	Financial Inclusion through Urban Cooperative Banks: An Exploratory Study of Telangana State	Dr. Mini Thomas	NA	IMPRESS-ICSSR	5,60,000	11.03.2019 1year
4	Impact of the ex-gratia for farmers' suicide on the surviving family member of the deceased farmers in Telangana	Dr. Thota Nagaraju	NA	IMPRESS-ICSSR	4,20,000	20.03.2019 1year
EEE						
1	Studies and multiphysics simulation of mode converters for applications in Directed Energy Weapons (DEWs)	Dr Harish V. Dixit	Dr Runa Kumari	DRDO	4,17,720	15.04.2019 1year
2	Triamcinonlone Acetonide Nanoparticles for Non-Invasive Delivery in the Effective	Dr. Sanket Goel	NA	DST	15,00,000	
3	Cardiac-Organ -On-Chip: Integrated microfluidic cardiac C18:K18platform for drug screening and toxicity detection	Dr. Sanket Goel	NA	DST	43,75,800	19.08.2019 3ears
4	National Post-Doctoral Fellowship	Ms. Khairunnisa Under Dr. Sanket Goel	NA	National Post-Doctoral Fellowship	19,20,000	28.02.2019 2years
5	Feedback control of stochastic hybrid systems with state-dependent noise	Dr. Shaikshavali C	NA	DST Matrix	660000	20.03.2019 3years
6	Micro-plasma transistor for high temperature application	Dr. Kurumbaiah C	NA	DST	2563070	28.12.2019 2years
Humanities and Social Sciences						
1	Structured dialogues for sustainable urban water management	Dr. Suchismita Satpathy	NA	DST	57,26,400	28.11.2019 5years
Mathematics						
1	Cosmic acceleration with observation constrints of the universe in modified gravity	Dr. Pradyumn Kumar Sahoo	NA	CSIR	20,40,528	02.08.2019 3years
2	DST Inspire Faculty	Dr. Santanu Koley	NA	DST Inspire	35,00,000	01.04.2019 5years
Mechanical Engineering						
1	3D printing of graphene nanocomposites for energy storage applications	Dr. Pavan Kumar Penumakala,	NA	DST	24,30,040	22.03.2019 3years
2	Machinability assessment and material characterization of tungsten heavy alloys used in defense applications as KE penetrators	Dr. Amrita Priyadarshini	NA	DRDO ARB	14,78,900	14.07.2019 3years
3	Development of Image Processing based portable device to measure surface strains in sheet metal forming	Dr. Kurra Suresh	NA	DST	15,85,700	11.02.2019 3years
4	Harvesting energy from underwater ocean currents through coupled vortex-induced vibration, flapping dynamics, electromagnetic inductin and piezoelectric effects	Dr. Pardhasaradhi G	NA	DST	27,35,370	23.12.2019 2years
5	Design and Development of an Automated Flow Calibration Unit for Fuel and Oxidizer Injectors in a Pneumatic Control System	Dr. Sandip Deshmukh S	Dr. Supardeepan K	DRDO	10,00,000	01.02.2019 18 months
6	Experimental Investigation on an Energy Efficient Regenerative Thermal Management Technique for Hybrid Electric Vehicles".	Dr. Santanu Prasad Datta	NA	DST	27,93,700	13.05.2019 3years

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
7	A solar assisted combined cooling, heating and energy source: An alternative energy source for rural India".	Dr. Santanu Prasad Datta	NA	DST	38,40,496	16.09.2019 3years
Pharmacy						
1	Bifunctional Gene-Expression Modulating Chemotherapeutic Agents as Improved Treatment Strategy for Cancer.	Dr. Balaram Ghosh	Dr. Swati Biswas	CSIR	29,00,000	15.05.2019 3years
2	Functional role of histone deacetylase 6(HDAC6) in the progression of oral squanous cell carcinoma: regulation of II beta expression /autophagy and epithelial mesenchymal trasition	Dr. Onkar Kulkarne	NA	ICMR	35,00,000	04.09.2019 3years
3	Near-Infrared Light Degradable Nanomicellar Chemo-Photodynamic Therapy using Aerobic Chlorin e6 Conjugate for Oropharyngeal Carcinomas ".	Dr. Swati Biswas	NA	DST	30,72,360	03.05.2019 3years
4	Investigation on pro-inflammatory cytokine inhibitory low molecular weight metabolites of Pseudomonas sp. ABS-36 for the treatment of renal injury	Dr. Vidya Sagar B	Dr. Sajeli Begum	Ayush	5,00,000	17.01.2019 2years
Physics						
1	Exceptional polynomials and their applications to Wigner Function"	Dr. K V S Shiva Chaitanya	NA	DST-SERB-Matrix	6,60,000	22.03.2019 3years

Details of Industry Sanctioned Projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Chemistry						
1	Zn Air Battery	Prof. Sounak Roy	Dr. Chanchal Chakraborty	HBL-2	13,50,000	01.04.2019 2years
Civil Engineering						
1	Evaluation of the efficiency of bacterial inclusions in concrete	Dr. Arkamitra Kar	Prof. Jayti Ray Dutta Prof. sridhar Raju and Dr. Chandu Parimi	Aliens Group Pvt. Ltd	11,00,000	01.05.2019 2years
2	Development of Pedestrian Facility Assessment Tool for Improving Pedestrian's safety condition in Hyderabad	Dr. Bandhan Bandhu	NA	AIA	1,00,000	01.04.2019 1year
3	Seismic Certification for our range of racks based on certificate of 3septs 2tier rack	Dr. Mohan SC		HBL	1,18,000	14.10.2019 1year
CSIS						
1	Network Coding for Multipath Transport	Dr. Paresh Saxena	NA	AnsuR Technologies AS , Oslo Norway	5,47,200	21.10.2019 4months
Humanities and Social Sciences						
1	Understanding the commercialization of breast milk from sociological perspective	Dr. Suchismita Satpathy		AIA	1,87,000	26.11.2019
Mechanical Engineering						
1	Financial sanction of research project on Li Ion Battery	Dr. Sujith R	NA	HBL	11,90,000	01.08.2019 2years
Pharmacy						
1	Pharmacokinetic and pharmacodynamics evaluation of new chemical entities for ocular diseases	Dr. Nirmal J	NA	Incilia Therapeutics Pvt.Ltd	8,14,200	04.12.2019 1year
2	Pharmacokinetic Evaluation of Ocular In-Situ Gelling Systems Loaded with treatment of posterior uveitis	Dr. Punna Rao	NA	BMS	3,40,000	01.08.2019 1year

Details of Consultancy- Sanctioned Projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Humanities and Social Sciences						
1	AP HRDI - Entrustment of Studies - Cyclone Titli	Dr. Biswanath Dash	NA	Consultancy	1,00,000	01.04.2019 1year
Mechanical Engineering						
1	Automation of sample preparation process for pharmaceutical Applications	Dr. Y V D Rao	Dr. Arshad Javed	Aizant Drug Research Solutions Pvt.Ltd	15,48,000	01.08.2019 8months
Economics and Finance						
1	Sustainability of Cashless Banking in Unorganized Retail Sector: Issues and Challenges ahead	Dr. Archana Srivastava	Dr. Rishi Kumar	IIBF (Indian Institute of Banking and Finance)	2,50,000	17.06.2019 6months

International Projects Sanctioned

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
EEE						
1	Development of methodologies for self - Aware network-on-chip design	Dr. Soumya J	Dr. Jantsch Axel,Institute of Computer technology, Austria	DST-India - Austria International Bilateral Project	8,89,000	-
2	Management of distributed energy resource in smart cities: challenges and advanced control strategies	Dr. Hitesh Datt Mathur	Dr. Alivelu Manga Parimi	Sparc	42,55,900	-
3	"Indo-Norwegian collaboration in Autonomous Cyber-Physical Systems"	Dr. Soumya J	Norweign Collaborator: Prof. Lingareddi C (Associate Professor, University of Agder)	The Research Council of Norway	-	-
Civil Engineering						
1	Implementation of plants and treated natural fibers ton enhance the strength of soft soil and to decreased the rate iof surface erosion(Nat-treat)	Dr.Anusua Guharay	Prof. Dr. Wei WU-	Indo-Austria	6,39,500	07.05.2019 2years
2	Prevention of Hazardous field -firing of bagasse amd its sustainable utilization as a raw material in an innovation industrial process	Dr. Srinivas Appari	Dr. Bahurudeen & Dr. Prassanta Kumar Sahoo	Sparc	28,79,650	15.03.2019 2years
3	Congestion Pricing: Planning for optimal strategies and commuters behavioral implications under different pricing schemes	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	15.03.2019 2years
Mechanical Engineering						
1	Benchmark studies of tornado induced wind loads between tornado simulators wordwide	Dr. Sabareesh G R	NA	Research center of wind Engineering	9,00,000	23.05.2019 1year

ONGOING

Ongoing Sponsored Research projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Biological Sciences						
1	Protein structure and stability modulation due to In-Cell and In-Vitro Crowding: Molecular insights on the origin of the effects of crowding	Dr. Ramakrishna Vadrevu	NA	DST	54,36,000	21.03.2017 3years
2	Mechanistic basis of abnormal neurogenesis due to HSSN1E-assicuated DNA Methyltransferase 1 (Dnmt1)mutation and pharmacological intervention for phenotypic correction	Dr. K Naga Mohan	Dr. Yogeeswari	DBT-2	68,45,800	01.03.2017 3years
3	Polymorphism studies and moleuclar characterization of plasmodial Rhoptry neck protein 2 (RON-2) from Indian fields isolates	Dr. Vidya Rajesh	NA	DST	34,92,000	29.03.2017 3years
4	Sequence based designs and characterization of peptide-amyloidnano materials exploring functionality	Dr. Ramakrishna Vadrevu	Dr. R. Krishnan	DAE-BRNS	29,68,650	29.12.2017 3years
5	Ramanujam Fellowship	Dr. Gireesha Thipperudrappa	NA	Ramanujam Fellowship	38,00,000	06.02.2018 5years
6	Harnessing mucosal immunity towards improved resistance against tuberculosis	Dr. Ruchi Jain Dey	NA	DBT Ramalingaswamy	32,50,000	28.05.2018 5years
7	Identification and characterization of long non-coding RNA's involved in Genome stability	Dr. Vivek Sharma	NA	DBT Ramalingaswamy	32,50,000	25.01.2017 5years
8	Conditional pathogenesis: understanding why potentially beneficial rhizobacteria turn pathogenic under certain environmental conditions	Dr. Sridev Mohapatra	Dr. Naga Mohan K	DBT	45,16,800	31.08.2018 3years
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	Dr. Debashree Bandyopadhyay	NA	DST	19,42,800	26.09.2018 3years
10	Understanding the role of long non coding RNA's (Inc RNA's) I transforming growth factor - beta (TGF-B) pathway in Glioblastoma.	Dr. Vivek Sharma	NA	DST	47,26,480	16.11.2018 3years
11	Identification of the regulatory mechanisms executed by bile acids during inflammation induced colon cancer	Dr. Trinath Jammma	NA	DST	43,82,650	16.11.2018 3years
Chemical Engineering						
1	Reactive Transport Modeling and Simulation of Carbon Dioxide Sequestration in Deccan Volcanic Province	Dr. Vikranth Kumar Surasani	Dr. Balajikrishna Murthy	DST	21,73,600	22.03.2018 3years
2	Cracking of hydrocarbon fuel for a possible heat sink applications	Dr. Srikanta Dinda	NA	DRDO	40,65,000	01.07.2018 2years
3	Development of superomniphobic surface for self-celaning and anti-microbial applications	Dr. Nandini Bhandaru	NA	DST INSPIRE	28,00,000	14.02.2017 5years
Chemistry						
1	Synthesis, study of optical properties and Anticancer ativity of unique di-substituted tetracyanoquinodimethanes	Dr. Jayanti Subbalakshmi	NA	DST	24,74,605	04.01.2017 3years
2	Investigations on napthalene and anthracene based phosphosates/phosphates: important sources for alkene based new alegers and polyarylalkanes	Dr. Manab Chakravarty	Dr. Amit Nag	CSIR	16,20,000	05.05.2017 3years

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
3	Efficacy of Appropriately Tailored Biopolymer and Carbonaceous Adsorbents for the separation and Recovery of Europium	Dr. N. Rajesh	Prof. Vidya Rajesh	DST	29,59,370	04.08.2017 3years
4	Photocatalytic reduction of CO2 to biofuels	Dr. Sounak Roy	NA	CSIR	4,00,000	02.05.2017 3years
5	DST INSPIRE Fellowship	Dr. Chanchal Chakraborty	NA	DST INSPIRE Fellowship	35,00,000	13.12.2017 5years
6	Women Scientist (Dr. Atasi Mukherjee Under Prof. Manab Chakravarty	Dr. Atasi Mukherjee Under Prof. Manab Chakravarty	NA	WOS-DST	31,55,000	16.11.2018 2years
Civil						
1	Performance evaluation of backfill soils partially replaced with building derived materials	Dr. Anasuya Guhary	Dr. Naveen James Dr. Arkamitra Kar	DST	24,43,710	12.09.2016 3years
2	Multiobjective evolutionary approach for solving water distribution network design optimization	Dr. A Vasan	Dr. Murari Varma	CSIR	22,35,400	16.05.2017 3years
3	Improving the seismic performance of dynamically similar buildings using damper connected control technique	Dr. S C Mohan	NA	DST	43,14,540	23.06.2017 3years
4	Costal wetlands characterization using L and S bands of polarimetric SAR data	Dr. Rajitha	NA	ISRO	13,58,000	13.11.2017 3years
5	Economic construction practice using bacterial inclusions in concrete in improve its durability	Dr. Arkamitra Kar	Dr. Jayati Ray Dutta & Dr. Mohna Bandyopadhyay	CSIR	17,00,000	02.05.2018 3years
EEE						
1	STRATEGIES FOR FAULT-TOLERANT NETWORK-ON-CHIP DESIGN "	Dr. Soumya J	NA	DST	25,93,140	06.03.2017 3years
2	Metal-Oxide and nano composite based low-power non-volatile switching device : a novel approach	Dr. Souvik Kundu	Dr. Souri Banerjee	DAE-BRNS	34,90,650	01.08.2017 3years
3	Investigations of the effects of Photon Up-Conversion materials on the Electrical perofrmance of Ferroelectric /Semiconductor Heterojunction Photovoltaic Devices	Dr. Souvik Kundu	Dr. Kannan Ramaswamy and Dr. HariharaVenkatraman	DST	35,63,997	19.03.2018 3years
4	Digital 3D printed electronic technology for space electronic packaging applications	Dr. Sanket Goel	NA	ISRO	26,36,000	02.08.2018 3years
5	Underwater Characterization of solar cells and their optimization	Dr. Sanket Goel	Dr. Sudha Radhika	DRDO-cars	9,85,000	01.06.2018 2years
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 Iduuki, Kerela	Humnities and Social Sciences	Dr. Lavanya Suresh	M Suchitra	CDS	3,15,000
2	Structured dialogues for sustainable urban water management	Humnities and Social Sciences	Dr. Suchismita Satpathy	NA	DST	57,26,400
Mathematics						
1	Development of an accurate and robust unstructured grid-based adjoint approach for compressible turbulent flows	Dr. Anil Nemili	NA	DST	15,90,600	23.03.2017 3years
2	Comparison of phase velocities of Rayleigh waves, love waves and Torsional waves in various anisotropic geo-media	Dr. Sumith Kumar Vishwakarma	NA	DST	13,66,800	27.06.2017 3years
3	Characterizing the sets of periodic points of automorphisms on a solenoid	Dr. Sharan Gopal	NA	DST	19,98,480	12.03.2018 3years
Mechanical Engineering						
1	Enhancement of mechanical properties of Ti-6AI-4V using constrained groove pressing and heat treatment	Dr. Amit Kumar Gupta	NA	DRDO	45,60,000	02.05.2016 3years

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
2	Hydrogen storage in mesoporous polymer drived ceremics for automotive applications	Dr. Sujith R	1.Dr. R. Rarameshwaran 2. Prof. N. V. Ravi Kumar (IIT Madras)	DST-SERB	42,38,240	27.09.2016 3years
3	Formability Study of Inconel 625 alloy at Elevated Temperatures for Aerospace Applications	Dr. Nitin R. Kotkunde	NA	DST	31,43,250	10.07.2017 3years
4	Cryogenically-Conditioned Micro and Nanoencapsulated Phase Change Material Slurries for Cool Thermal Energy Storage Applications	Dr. R. Parameshwaran	NA	DST	27,76,340	17.07.2017 3years
5	Application of topology optimization to enhance energy efficiency and performance of industrial manipulator	Dr. Arshad Javed	NA	DST	29,43,600	17.07.2017 3years
6	Modelling and Simulation of quartz Accelerometer for navigation system	Dr. Satish Kumar Dubey	Dr. Arshad Javed , Sanket Goel , AK gupta	DRDO-cars	5,38,000	13.06.2017 1year
Pharmacy						
1	Investigations on pro-inflammatory cytokine inhibitory low molecular weight metabolites of Pseudomonas sp. ABS - 36 for the treatement of renal injury	Dr. Sajeli Begum	Dr. Onkar Prakash Kulkarni	DST	24,37,000	22.12.2016 3years
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	Dr. D. Sriram	NA	DBT-Tata Innovation	27,00,000	23.03.2016 3years
3	Development of a Non-invasive giodegradable polymeric mciroprojection ocular patch for effective corneal delivery of anti-microbial agents to treat fungal infections of eye	Dr. V Vamsi Krishna Venuganti	NA	ICMR	42,25,150	02.02.2017 3years
4	Understanding the Role of Antimicrobial S100A12 (Calgranulin C) Mediated Host Defense in Pseudomonas Keratitis and Developing Nano-tools for Efficient Delivery of S100A12	Dr. Sanhita Roy	Dr. Swati Biswas	DST LVPEI, Hyderabad	16,37,800	05.06.2017 3years
5	Design, Synthesis and Biological Evaluation of HDAC3 Selective Inhibitors as Long Term Memory Enhancers	Dr. Balaram Ghosh	Dr. Swati Biswas	DST	29,87,800	07.08.2017 3years
6	Development of pH-responsive smart capsule containing targeted multilayer film for drug delivery: The proof-of-concept study in colorectal cancer model	Dr. V Vamsi Krishna Venuganti	NA	DST	55,54,225	16.08.2017 3years
7	Determination of wound healing (pro-angiogenic properties of peptide conjugate	Dr. Onkar Kulkarni	NA	DRDO	800000	3.10.2018 1years
Physics						
1	Fundamental physics in strong gravitational field of neutron stars	Dr. Sarmistha Banik	Dr.Asrarul Haque	DAE-BRNS	24,39,650	05.07.2018 3years
2	Quantum Gravity in Rindler Space	Dr. Prasant Kumar Samantray	NA	CSIR	15,46,000	10.05.2016 3years

Industry Ongoing Projects Department wise

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Pharmacy						
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	Dr. Punna Rao Ravi	Prof. Shrikant Charde	Shahsi Phytochemical Ltd	5,74,560	26.09.2016 3years
2	Identification of UGT-isoform specific substrates and inhibitors and their contribution in drug metabolism and systemic levels of bile secretions.	Dr. Punna Rao Ravi	NA	Consultancy Project (Acubiosys Pvt. Ltd.,	11,75,000	28.06.2018 1year

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
3	Formulation development and physico-chemical/in vitro/in vivo characterization of a nano-suspension formulation of an anticancer drug	Dr. Balaram Ghosh	Dr. Swati biswas	Reddy's Lab	9,00,000	16.09.2016 3years
4	Development and characterization of emulsion based drug product for the management of emetogenic cancer chemotherapy	Dr. Akash Chaurasiya	NA	Slayback Pahrma	7,02,100	24.07.2018 1year

Ongoing Consultancy projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Humanities and Social Science						
1	AP HRDI - Entrustment of Studies - Cyclone Titli	Dr. Biswanath Dash	NA	Cyclone TItle	1,00,000	01.04.2018

Ongoing Other Projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Humanities and Social Science						
1	Women emplyoment , Inter state variation and time use: A comparative study of Bihar and Andhra Pradesh	Humanities and Social Sicences	Dr.Bhemeeshwar Reddy	Dr.Bhemeeshwar Reddy	11,88,000	17.12.2018 2years

Ongoing International Projects

S.No	Project Title	Principal Investigator	Co-Principal Investigator	Funding Agency	Amount Sanctioned (Rs.)	Sanctioned date and Duration
Chemistry						
1	Develop of novel anti-leishmanial analogues loaded with novel nano-formulations	Dr. S.Murugesan	Dr. K V G Chandra Sekhar	DBT	13,00,000	26.03.2018 2years
CSIS						
1	Parallax lightweight code self verification for IoT Devices	Dr. C Hota	Prof. Herbert Bos,VU	Deity	3830000	02.07.2015 4years
Mechanical Engineering						
1	Sustainable technology solutions for energy efficiency in the jageery industry	Dr. M. Srinivas	1. Dr. K Srinivas Reddy & 2. Dr. V Srinivas	Royal Academy	48,00,000	01.04.2018 2years
Pharmacy						
1	Strategies against antibiotic resistance in Mycobacterium tuberculosis and ESKAPE pathogens; new drugs and new targets	Dr. D Sriram	Dr. P Yogeeswari	Indo-Sweden-3	67,00,068	15.11.2017 3years
2	UK-India Centre for Advanced Technology for Minimization of indiscriminate use of Antibiotics (UKICAT-MA)	PI - Dr. Prashant Garg (LVPEI),	Dr. V Vamsi Krishna Venuganti	DBT-MRC	35,00,000	03.08.2015 3years

Grants under DST- FIST Sanctioned

S.No	Department	Period (years)	Amt. Sanctioned(50:50 Basis)	BITS share (in Lakhs)
1	Pharmacy DST-FIST	5years	13800000	6000000

Grants under DST- FIST Ongoing

S.No	Department	Period (years)	Amt. Sanctioned(50:50 Basis)	BITS share (in Lakhs))
1	Civil Engineering	5years	9000000	5000000
2	Mathematics	5years	4500000	2250000

Grants under DST- FIST Completed

S.No	Department	Period (years)	Amt. Sanctioned(50:50 Basis)	BITS share (in Lakhs)
1	Pharmacy DST-FIST	5years	6700000	3350000
2	Biology	5years	11000000	5500000
3	Chemistry	5years	10000000	5000000

COMPLETED PROJECTS

Completed Government Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned
1	Studies on remaining useful life prediction considering multi-componenst 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	NA	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	NA	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	NA	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

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	NA	AnsuR Technologies, Oslo, Norway	5,55,607

Completed Consultancy Projects

S.No	Project Title	Department	Principal Investigator	Co-Investigator	Agency	Amount Sanctioned (INR)
1	ncubating a discourse for Cooperation, Contentment, and Care: to Enable Justice for All	Humanites and Social Sciences	Dr. Lavanya Suresh	NA	NALSAR	2,95,000

Completed Institute Projects - RIG

S.No	Project Title	Department	Principal Investigator	Sanction Amount
1	A Comparative study on seismic analysis of earthquake resisiting structures	Civil Engineering	Dr. Mohan SC	2,00,000
2	Experimental and numerical studie 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 enterpreneurs 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

S.No	Project Title	Department	Principal Investigator	Sanction Amount
6	Screening for long non coding RNAs(Inc 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	Estimaiton 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	Humanitites 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	Humanitites 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 acces 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	Humanitites and Social Sciences	Dr. Suchismita Satpathy	2,00,000

List of Institute Funded projects

ADDITIONAL RESEARCH INITIATION GRANTS SANCTIONED

S.No	Project Title	Name of the Faculty	Dept.	Amount Sanctioned	Start Date	End Date
1	Studies and experiments on phase and frequently control for applications in high power magnetrons	Dr Shaikshavali Chitraganti	EEE	825000	19th Sept,2019 2years	18th Sept 2021
2	An indigenous energy efficient thermal management strategy of buildings for all climate conditions across India	Dr Shantanu Prasad Datta	Mechanical Engineering	1000000	19th Sept,2019 2years	18th Sept 2021
3	Development of a new Vegetable-Oil-Based Direlectric fluid for liquid-filled transformers	Dr Mithun Mandal	EEE	800000	19th Sept,2019 2years	18th Sept 2021
4	Block chain enabled solutions for integration of MHR with Access control and personality identifiable information	Dr. Subrakanta Panda	CSIS	800000	19th Sept,2019 2years	18th Sept 2021
5	Design and indigenous development of a Biaxial Tensile test setup on Uniaxial Machine for sheet metal forming	Dr Nithin R Kotkunde	Mechanical Engineering	1000000	19th Sept,2019 2years	18th Sept 2021
6	Design and development of 3D printer for carbon fiber reinforced composites	Dr Kurra Suresh	Mechanical Engineering	1000000	19th Sept,2019 2years	18th Sept 2021
7	To elucidate novel mechanisms of Sn RK1-AMPK family kinases in plant antiviral defense and human metabolism regulations	Dr Gireesha T M	Biological Sciences	995000	19th Sept,2019 2years	18th Sept 2021
8	Deciphering the role of gut microbiota-derived secondary bile acids in metabolic rewiring of macrophages: implications in colon cancer	Dr. Trinath Jamma	Biological Sciences	985000	19th Sept,2019 2years	18th Sept 2021

S.No	Project Title	Name of the Faculty	Dept.	Amount Sanctioned	Start Date	End Date
9	Synthesis of core-shell nanoparticles (CSNs) for photocatalytic reforming	Dr Satyapaul Singh	Chemical Engineering	1000000	19th Sept,2019 2years	18th Sept 2021
10	Underwater Superoleophobic Surfaces for Oil/Water Separation	B Nandini	Chemical Engineering	950000	19th Sept,2019 2years	18th Sept 2021
11	Synthesis of Highly Functionalized and Medicinally Potential Bioactive Heterocycles through Trifluoromethylative Cyclization Strategy	Dr Tanmay Chatterjee	Chemistry	800000	19th Sept,2019 2years	18th Sept 2021
12	Design of highly stable fluorescent metalorganic frameworks for iodine capture	Dr Himanshu Aggarwal	Chemistry	1000000	19th Sept,2019 2years	18th Sept 2021
13	Urban road safety management through evaluation of operating speed and geometric consistency	Dr Bandhan Bandu Majumdar	Civil Engineering	800000	19th Sept,2019 2years	18th Sept 2021
14	RISC-V based Approximate Processor and its FPGA Prototype for Image processing Applications	Dr Chetan Kumar Vudadha	EEE	470000	19th Sept,2019 2years	18th Sept 2021
15	Design and development of an AI-based Remote Fault Signature Analyzer (ReFSA) for condition monitoring of rotor bar failures in an Industrial electrical machine	Dr Sudha Radhika	EEE	930000	19th Sept,2019 2years	18th Sept 2021
16	Black TiO2 nanotubes for detection and degradation of pollutants in drinking water	Dr Karumbaiah Chappanda Nanaiah	EEE	1000000	19th Sept,2019 2years	18th Sept 2021
17	Direct growth of 2D materials by Chemical Vapour Deposition (CVD) on flexible substrates and its application in wearable electronics	Dr Parikshit Sahatiya	EEE	1000000	19th Sept,2019 2years	18th Sept 2021
18	Modeling the hydrodynamics of porous breakwaters in ports and harbors under irregular and multidirectional incident waves.	Dr Santanu Koley	Mathematics	700000	19th Sept,2019 2years	18th Sept 2021
19	Efficient reconstruction of boundary data using the method of fundamental solutions for the two phase inverse Stefan problem	Dr Gujji Murali Mohan Reddy	Mathematics	700000	19th Sept,2019 2years	18th Sept 2021
20	Investigation of the mechanical properties of ATIG welded mild steel and Ti6Al4V alloy	Dr Ravi Sankar Vidyarthy	Mechanical Engineering	950000	19th Sept,2019 2years	18th Sept 2021
21	Numerical and Experimental Investigation of Insect/Bird Flight Inspired Flexible Flapping Wing Propulsion	Dr Pardha Saradhi Gurugubelli Venkata	Mechanical Engineering	950000	19th Sept,2019 2years	18th Sept 2021
22	Fate of Drug Encapsulated Ultradeformable Lipid Vesicles after Subconjunctival Delivery	Dr Nirmal J	Pharamcy	1000000	19th Sept,2019 2years	18th Sept 2021
23	Surface Modified Nanoparticulate Carrier System for the Effective Delivery of Antileukemic Drug	Dr. Akash Chaurasiya	Pharamcy	1000000	19th Sept,2019 2years	18th Sept 2021
24	Differential expression and regulation of GluN2A/GluN2B subunit containing NMDA receptor by Src kinase in MAM-induced cell based model of schizophrenia	Dr. Pragya Komal	-	700000	19th Sept,2019 2years	18th Sept 2021

LIST OF RESEARCH INITIATION GRANTS SANCTIONED

S.No	Project Title	Name of the Faculty	Dept.	Amount Sanctioned	Start Date	End Date
1	Performance Evaluation and Behavioral Study of Trajectory and Discontinuous Methods Based Metaheuristics	Dr. Jabez Christopher	CSIS	199877	10.01.19	09.01.21
2	Detection of sleep related disorders from various physuikigucal signals using Multiscale analysis and Deep Neural Network	Dr. Rajesh Kumar Tripathy	EEE	200000	10.01.19	09.01.21
3	Design and Development of an instrumentation system to measure dynamic signals	Dr. RN Ponnalagu	EEE	200000	10.01.19	09.01.21
4	Synthesis of nano-porous metal oxide composite materials for water splitting application	Dr . Karumbaiah Chappanda Nanaiah	EEE	200000	10.01.19	09.01.21
5	Cleanroom free, solution processed fabrication of flexible nanoelectronic devices for sensing applications	Dr . Parikshit Parshuram Sahatiya	EEE	200000	10.01.19	09.01.21
6	The Notion of Time in the Philosophy of Nagarjuna	Dr. A K Jayesh	Humanities and Social Sciences	200000	25.01.19	24.01.21

S.No	Project Title	Name of the Faculty	Dept.	Amount Sanctioned	Start Date	End Date
7	Design and Synthesis methodologies for CNFET-based Multi-Valued Logic Circuits.	Dr. Chetan Kumar Vudadha	EEE	200000	31.01.19	30.01.21
8	Energy Efficient Mechanisms and Algorithms for 4G and 5G Broadband Wireless Networks	Dr Prashant K.Wali	EEE	200000	08.02.19	07.02.21
9	Wilde and Manto: A Comparative Study of Writers on Trial	Dr Anhiti Patnaik	Humanities and Social Sciences	200000	27.02.19	26.02.21
10	Investigation of the weldability of the mild steel during A-TIG welding.	Dr Ravi Shanker Vidyarthy	Mechanical Engineering	200000	13.03.19	12.03.21
11	Synthesis of highly stable Zr based mixed-linker metal organic frameworks (MOFs) with fcu and hex topology for gas separation and sensing	Dr Himanshu Aggarwal	Chemistry	200000	16.03.19	15.03.21
12	Flow induced vibration/flapping dynamics of multi-layered flexible foil in a uniform flow	Dr Pardha Saradhi Gurubelli Venkata	Mechanical Engineering	200000	23.03.19	22.3.21
13	Hypersingular Integral Equation Techniques for Wave-structure Interaction Problem	Dr Santanu Koley	Mathematics	200000	26.03.19	25.03.21
14	Impact of Remittances, Financial Development and Institutional Structure on Poverty: An Empirical Evidence from Developing countries.	Dr Sunny Kumar Singh	Economics and Finance	167000	02.04.19	01.04.21
15	Adaptive Descretization of Parabolic Integro-differential Equations by Finite Element Methods.	Dr Gujji Murali Mohan Reddy	Mathematics	200000	03.04.19	02.04.21
16	DPG method for parabolic problems	Dr Jhuma Sen Gupta	Mathematics	200000	03.04.19	02.04.21
17	Holomorphic Characterizations of the Approximation Property and Its Variants	Dr Deepika	Mathematics	200000	03.04.19	02.04.21
18	On generating some new families of congruent and non-congruent numbers	Dr Debopam Chakraborty	Mathematics	150000	05.04.19	04.04.21
19	Regional Variation in Women's Employment in Rural India: Evidence from Bihar and Andhra Pradesh.	Dr Bheemeshwar Reddy. A	Economics and Finance	200000	15.04.19	14.04.21
20	Conditional von Neumann entropy and its implications in quantum information processing tasks	Dr Nirman Ganguly	Mathematics	196000	22.04.19	21.04.21
21	Social Conflicts: Role of Development in the Presence of Electoral Concerns	Dr Dushyant Kumar	Economics and Finance	158000	03-05-19	02-05-21
22	Privacy Preserving Authentication Framework for e-Health Applications	Dr Odelu Vanga	CSIS	200000	07-05-19	06-05-21
23	A study of contemporary epistemological and ethicopolitical challenges confronting genomics research in India	Dr Aswathy Raveendran	Humanities and Social Sciences	200000	08-05-19	07-05-21
24	Miniaturization and Enhancement of Port Isolation of Multiple – Input –Multiple – Output (MIMO) Antennas for Future Generation Higher Data Rate Communications	Dr Sourav Nandi	EEE	200000	26.07.19	25.07.21.
25	Friction and Wear Investigation of Ceramic Coated Commercial Rotor	Dr Piyush Chandra Verma	Mechanical Engineering	200000	19.08.19	18.08.21
26	ReSeThIoT:Building Research Framework for Investigating Security Threats for Internet of Things over WiFi	Dr Rajib Ranjan Maiti	CSIS	200000	09.09.19	08.09.21
27	Women on Board and Corporate Policies in India.	Dr Shreya Biswas	Economics and Finance	200000	11.09.19	10.09.21
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	Dr Ankur Bhattacharjee	EEE	200000	13.09.19	12.09.21
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	Dr K Bhargav Kumar	EEE	200000	18.09.19	17.09.21
30	Mobilizing Clean Energy Finance	Dr Nivedita Sinha	Economics and Finance	200000	26.09.19	25.09.21
31	Cryptanalysis of some Symmetric Key Ciphers	Dr Sabyasasachi Dey	Mathematics	200000	30.09.19	29.09.21
32	Effect of inherent nonlinearities on operational failure of damaged structural elements	Dr Brajesh Kumar Panigrahi	Mechanical Engineering	200000	25.10.19	24.10.21
33	Sustainable High Speed Micromachining Process Development for Thin Beam Manufacturing	Dr Kundan Kumar Singh	Mechanical Engineering	200000	25.10.19	24.10.21
34	Liquid Jet in Crossflow- Effect of Injector Geometry	Dr Anubhav Sinha	Mechanical Engineering	200000	02.11.19	01.11.21

BRIEF DESCRIPTION OF SOME OF THE PROJECTS SANCTIONED

Pilani Campus

PI: Dr. Abhijeet Digalwar

1. Title: Empirical Investigation and Analysis of Factors for Sustainable Growth of Electric Vehicles Manufacturing in India

Area: Clean Technology and Environment for Better Health

Key words: Electric vehicles, sustainability, manufacturing, India

Abstract:

Today, India has been rapidly rising in the transportation sector. As a result, urban traffic congestion, health and air quality worsen in the cities. The transport sector contributed around 27% of CO_2 emission as the dominant vehicle technology is based on fossil fuel. To tackle these challenges, Government of India has developed the NEMMP-2020 with the aspiration of replacement of fossil fuel based vehicles with faster deployment of EVs on Indian roads. The pace of the investments and R&D in this sector is now gaining momentum. Many researchers addressed the issues such as demand incentives, power infrastructure, charging infrastructure and battery technology for EVs. In addition, some studies are focusing on technical and infrastructural factors essential for deployment of EVs successfully in major cities. But, they have ignored the urban and rural population in their studies. Therefore, there is a need to consider the urban and rural population along with various geographical, economical, environmental, social, political and legal factors as well into account for the design, development, validation and to expedite the sustainable growth of EVs in India.

PI: Dr. Kaushar Vaidya

2. Title: UV-Guided study of Blue straggler stars in open clusters and galactic fields

Area: Observational Astronomy

Key words: Stars, Clusters, Stellar Evolution, Blue Straggler Stars

Abstract:

Blue straggler stars are enigmatic objects which seem to defy the standard theory of stellar evolution. Whereas in the last two decades, knowledge of their formation mechanism, and their effect on the evolution of their parent clusters, is growing in globular clusters, much less is known about these stars of open clusters and Galactic fields. The UV wavelengths offer a unique advantage in studying these stars because of their large flux in these wavelengths. In this project, we aim to use the UV data of clusters and fields obtained from India's first indigenous space telescope ASTROSAT

PI: Paul Atish Tulshiram

3. Title: Design, Synthesis, Biological Evaluation and Molecular modelling studies of Indolyl Oxoacetamide-Quinazoline based hybrid analogs as potential pancreatic lipase inhibitors for Obesity treatment

Area: Obesity and Drug discovery

Key words: Pancreatic lipase, Molecular modelling, Synthesis

Abstract:

Obesity is a multifactorial metabolic disorder that ranks fifth among global deaths. Orlistat, a potent pancreatic lipase (PL) inhibitor is the only approved drug for long term treatment. However, it exhibits severe adverse effects such as liver toxicity and acute pancreatitis. These events clearly highlight the necessity for the discovery of safer and newer anti-obesity drugs. Our research group has identified a unique dimeric carbazole alkaloid conophylline as a potent PL inhibitor. Further investigation has led to discovery of carbazolyl and indolyl oxoacetamide analogues as potent PL inhibitors. In further screening process, natural quinazolinone scaffold exhibited better potential towards PL inhibition. Based on these studies, in the present project we propose to design, synthesis of hybrid analogues based on indolyl oxoacetamide quinazolinone pharmacophore for obesity treatment.

PI: Jayashree Mahesh

4. Title: Designing a Futuristic Learning Framework for Post Millennial Generation Students of Higher Education Institutions in India

Area: Science and Education

Key words: Learning framework, Post Millennial Generation, Higher education in India, mixed methods research

Abstract:

There is a huge gap between the outcomes of the higher education in India, and the competencies required. This study proposes to design a research based India specific futuristic framework for learning, to meet the expectations of multiple stakeholders thereby enhancing their value proposition. Through mixed methods, the study will research and suggest measures that Indian educational institutions can take to implement the

framework and spawn an ecosystem that can help students achieve self-actualization. The findings can be used to benchmark both pedagogical and curriculum elements, as well as structuring of higher degree institutes, thereby enhancing their on-campus and off-campus offerings

PI: Rupam Goswami

5. Title: Nanocavity-in-body tunnel field effect transistor architectures for low power sensing applications

Area: Applied Physics; Electronics Engineering; Nanotechnology

Key words: sensor, Tunnel FET, TCAD

Abstract:

This project proposes to investigate Tunnel Field Effect Transistors (TFETs) for sensing applications through technology computer aided design (TCAD) simulations. While most of the works have reported on gate dielectric based nanocavity architectures, this work targets to design body embedded nanocavity based design in order to reduce the complexity of fabrication. The objective of the work is to design and model such geometries of TFETs for low power applications after appropriate calibration on the tool. Various non-ideal effects like partial hybridization, steric hindrance and interface traps-states shall be investigated on the proposed architectures

PI: Dr. Giakwad Anil Bhandudas

6. Title: 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

Area: Kidney disorders

Key words: Acute kidney injury, Klotho, Hyperglycaemia

Abstract:

The emergence of Klotho is seen as a novel tactic to counter developing kidney disorders including AKI. However, we intend to evaluate the different pathways which can possibly upregulate endogenous Klotho providing the obligatory Reno protection under acute kidney injury diabetes co-morbidity.

PI: Dr. Devendra Kumar

7. Title: A Parameter-uniform approximation for singularly perturbed parabolic reaction-diffusion boundary value problems

Thrust Area: Mathematical Analysis

Key words: Singular perturbations, parameter-uniform method, boundary layers, fitted-mesh

Abstract:

Singularly perturbed problems are quite challenging to solve and usually involve hard mathematical solution techniques. Also, in most real-life applications it is too complicated to obtain the exact solutions to these problems in terms of composite elementary functions in a simple manner. So, a numerical scheme for the solutions to such problems is required. In the case of singular perturbation i.e., when the highest order derivative is multiplied by a small parameter, known as perturbation parameter there is a small region, known as boundary layer region, where the solution of the problem changes very rapidly and all the classical methods fail to resolve the boundary layer. So, we must need some non-classical methods to obtain a parameter-uniform accuracy. In this work, our aim is to develop efficient parameter-uniform numerical methods based on spline wavelets on an adaptive mesh for the solution of singularly perturbed parabolic reaction-diffusion boundary value problems

PI: Dr. Sandeep Sundriyal

8. Title: Computational design, synthesis and screening of non-hydroxamate lipophilic DXR inhibitors as potential antibacterial/antimalarial/anti-TB agents

Thrust Area: Antimicrobial drug discovery

Key words: Antibacterial, malaria, tuberculosis, computational drug design

Abstract:

1-Deoxy-D-xylulose-5phosphate reductoisomerase (DXR, EC 1.1.1.267) is the second enzyme of non-mevalonate pathway and has been validated for antimicrobial therapy. The known inhibitors of DXR such as Fosmidomycin and its analogues are under investigation as a possible therapy for malaria, TB and other bacterial infections. However, these analogues are very polar due to the presence of a hydroxamic based metal binding group (MBG) and phosphonate group, resulting in short half-life and poor cellular permeability of these molecules. Thus, our objective is to design and synthesize novel DXR inhibitors with a non-hydroxamate MBG and increased lipophilicity

PI: Dr. Sandeep Sundriyal

9. Title: Design & Synthesis of *Mycobacterium* UDG Inhibitors

Thrust Area: Antimicrobial drug discovery

Key words: Uracil DNA glycosylase (UDG), tuberculosis, synthesis, virtual screening

Abstract:

Uracil DNA glycosylase (UDG/UNG) is a highly conserved enzyme present in all organisms and is responsible for DNA repair. *Mycobacterium* UDG (MtUDG) is proposed to be an important target for the design of novel antimycobacterial chemotherapy. However, currently there are no reported potent inhibitors of MtUDG. Our aim is to design novel MtUDG inhibitors using the structure- and ligand-based drug design techniques such as docking-based virtual screening. The designed molecules would be synthesized and tested in *in vitro* enzyme inhibition assay

PI: Dr. Rajdeep Chowdhury

10. Title: High altitude-hypoxia mediates thrombosis in soldiers; modulation of autophagy as a strategy to combat high altitude-hypoxia induced thrombosis

Thrust Area: Vascular diseases

Key words: Autophagy, Thrombosis, Hypoxia

Abstract:

Low-oxygen environments or hypoxia, associated with high altitude is a major causal factor to predisposition towards thrombosis, especially for soldiers residing for a prolonged period of time at high altitude, ultimately leading to complicated medical conditions. Despite its clinical relevance, current treatment strategies combating this high altitude induced thrombosis are limited. Interestingly, the cellular homeostatic process- autophagy is induced under hypoxia and is also implicated in platelet activation. In this project, we propose that regulating autophagy might hold the key to hypoxia driven platelet activation and thrombosis; thus modulating autophagy might provide us with a window to development of preventive strategy against thrombosis at high altitudes

PI: Dr. Nirankush Dutta

11. Title: Use of Social Media as a Driver for Innovation in Higher Education in India

Thrust Area: Social Media in Education

Key words: Social Media; Education; Innovation

Abstract:

Supported by existing theories, this project endeavours to underline the effectiveness of social media at improving student learning by analysing underlying factors that may motivate or inhibit students, faculty members and administrators in institutes of higher education to integrate social media for academic purposes. The empirically validated model resulting from this research should facilitate formulation of policy framework

PI: Dr. S. B. Singh

12. Title: Structural Health Assessment and Rehabilitation Framework based on Cyber Physical System

Thrust Area: Structural Engineering

Key words: Structural Health Monitoring, Cyber Physical System, Wireless Sensors, Finite Element Analysis

Abstract:

This project deals with structural health monitoring of structures using dynamic characteristics of structures such as bridges and buildings using data obtained through wireless sensors. Furthermore, the data obtained from wireless sensors will be analyzed using numerical techniques such as Finite Element Analysis along with verification of data obtained from sensors

PI: Dr. S. B. Singh

13. Title: Study of Postbuckling response, failure and strength of functionally graded composite plates with and without cutouts

Thrust Area: Advance Composite Materials

Key words: Buckling, Composites, Failure, Postbuckling, Strength

Abstract:

This project deals with experimental and numerical analysis and evaluation of buckling and post-buckling responses and strength of functionally graded composite plates and shells. The experimental test results and progressive failure analysis through nonlinear finite element analysis will be used to verify the accuracy of numerical modelling of failure of thin-walled functionally graded composites. The results obtained will be used to

develop design charts for efficient plated and shells structures as used in Plate girders, domes, and or composite deck slab of bridges

PI: Dr. Gaurav Dwivedi

14. Title: A study of nonlinear polyharmonic boundary value problems with dependence on gradient

Thrust Area: Theory of elliptic partial differential equations

Key words: Polyharmonic equations; gradient nonlinearity;

Abstract:

In this project, we plan to establish existence results for polyharmonic equations with nonlinearities depending on the gradient. Since the problems under consideration are nonvariational in nature, we look to apply some nonvariational and approximation techniques to establish our results

PI: Dr. Vaibhav Dixit

15. Title: Sequential Comprehensive and holistic (SeqComHol) drug metabolism predication methodology to reduce drug failures

Thrust Area: Drug discovery and drug metabolism

Key words: Phase I and II drug metabolism, CYP450, SULT, drug discovery

Abstract: Drug metabolism and associated toxicity are major reasons for failures in drug discovery. In this project, we will develop methodologies for the prediction of sequential drug metabolism catalyzed by Phase I and II enzymes. Drug metabolism data collection, curation, descriptor calculations, development of machine learning models will be performed using standard computational chemistry and chemioinformatics analysis. SOM and classification models will be developed and tested. Finally, models will be validated with additional experimental data. These models may help in reducing drug discovery failures in the early phases

PI: Dr. Hari Om Bansal

16. Title: Modelling of Drivers and Barriers of electric vehicle penetration in emerging economy: A study of Indian Market

Thrust Area: Urban Transformation

Key words: EV, Enablers, barriers, mixed method approach

Abstract: Despite of the numerous advantages, EV market has not grown up to its expectations. There are certain barriers those are restricting the penetration of these vehicles. Additionally, there are certain factors which may drive the market share of these vehicles in the Indian automobile industry. This study aims at identifying and prioritising these barriers & drivers using mixed method approach and will also assess the cause & effect relationship among them. It will also aid the resource allocation to mitigate the crucial barriers and exploit the important drivers to achieve the optimum results

PI: Dr. R. K. Gupta

17. Title: Investigation on Langmuir-Blodgett films of pristine and functionalized single walled carbon nanotubes and application

Thrust Area: Condensed Matter Physics

Key words: Ultrathin films, Morphology, Surface plasmon resonance, quartz crystal microbalance, sensing

Abstract: In the present project proposal, we aim to undertake studies on Langmuir monolayer of p-SWCNTs and f-SWCNTs. The Langmuir-Blodgett (LB) films will be deposited onto solid substrates. The morphology, ordering and structure will be studied. The LB films of p/f-SWCNTs will be employed for sensing some heavy metals, biological analytes and pesticides. The role of surface morphology, ordering and structure of the LB films of p/f-SWCNTs on the sensing performance will be highlighted from the analysis of data

Dr. Syamantak Majumder

18. Title: Studying the efficacy of ADAM Inhibitors in treating diabetic nephropathy

Thrust Area: Human Chronic Diseases; Kidney Diseases

Key words: Diabetes, Endothelial Cells, Nephropathy, Podocyte Cells

Abstract: Diabetes is the most common cause of kidney failure worldwide and new treatments are urgently needed. More than 72 million people in India are currently affected by diabetes and many of whom are highly prone to develop kidney disease called as "diabetic nephropathy (DN)". In the present study, we aim to explore the role of ADAMs in glomerular EC driven podocyte injury leading to DN pathogenesis and further evaluating their potential as therapeutic targets

Dr. Syamantak Majumder

19. Title: Epigenetics of Endothelial Dysfunction during cardiovascular disease

Thrust Area: Human Chronic Diseases; Cardiovascular Diseases

Key words: Cardiovascular, Endothelial Cells, Epigenetics

Abstract: Atherosclerosis is the leading cause of cardiovascular associated complication in India and worldwide. Indian population are more than 10 times higher in the prevalence of coronary artery diseases (CAD) than that seen 40 years ago. Globally, ischemic heart disease and stroke caused due to atherosclerosis are the world's biggest killer, accounting for a combined 15 million deaths in 2015 alone and remained to be the leading causes of death globally for last 15 years. In the present proposal, we will explore the role of epigenetic processes in atherosclerosis development and progression

PI: Dr. Niladri Sarkar

20. Title: Investigation of Elastic and Inelastic Dephasing in Carbon Nanotube FET

Thrust Area: Nano-Scale Device Physics

Key words: CNT FET, Dephasing Mechanisms, NEGF , Nano-scale Device Modeling

Abstract: Miniaturization of the devices has led to the advancements in the field of Computers and Electronic technologies. It has resulted in the possibilities of incorporating lots of very small Field Effect Transistors(FETs) into the core of modern processors. With advanced research and technologies in the field of growth and the fabrication of Nano-Scale devices, it has become a possibility that in the near future the processers will be governed by very clean Nano-Scale MOSFETs where the transport properties will depend on various quantum effects. It has been shown experimentally that devices can be fabricated by replacing Si with CNT, DNA and Organic semiconductors based materials. The aim of this project is to investigate the Elastic and Inelastic Dephasing in Carbon Nanotube FETs. The CNT FETs have a wrap round gate over the device channel which provide an excellent electrostatic control over the device output characteristics. The transport theory of these CNT based devices is entirely different from the conventional drift-diffusion based theories. Hence, it become important to study and develop the understanding of a completely new device physics which is based on the concept of low dimensional transport

PI: Dr. Bhanuvardhan Reddy Kuncharam

21. Title: Assessment of mixed-matrix membrane system for CO2 separation for upgradation of Biogas to Bio-compressed Natural Gas (Bio-CNG)

Thrust Area: Separation Processes, Material Science and Engineering

Key words: Bio-CNG; CO2 capture; Biogas upgradation; Membrane Separation; Mixed-Matrix membranes

Abstract: Biogas can be used for direct heating, natural gas substitute, transportation fuel, or can be reformed to produce hydrogen for use in Fuel cells. However, CO2 and H2S in biogas can cause corrosion in pipes of transportation of biogas or if biogas is directly used as fuel in engines. The upgradation, i.e. removal of CO and H2S is required for biogas to be converted to Bio-CNG. This removal can be performed using traditional separation techniques such as absorption, adsorption or pressure swing adsorption. But these techniques are energy intensive, not portable and cannot be used under harsh biogas conditions. Membrane systems offer an alternative to these conventional systems using a membrane material capable to separate CO and H2S. However, the challenge in membrane systems is to obtain high permeability and high selectivity for deployment in commercial settings. The proposed topic will test various membranes such as Mixed-Matrix Membranes for CO2 separation and upgrade raw biogas to Bio-CNG

PI: Dr. Rahul Singhal

22. Title: GaN Gratings-on-Diaphragm based Otical Pressure Sensing in Harsh Environments

Thrust Area: Integrated Optics

Key words: GaN waveguides, GaN Gratings, Pressure Sensor, Optical Sensor

Abstract: A precise characterization of pressure loads imposed on any structure following high explosive detonation is critical to produce sustainable structures. During explosion, pressure magnitudes are high in range of kPa to MPa and commercially available piezo-electric pressure transducers are employed for their measurements. Piezo-electric sensors are susceptible to measurement errors due to environment including temperature, radiation intensity or accelerated particles, etc. The proposed project will focus on precise measurements of mechanical pressure loading developed due to an explosion in the air. Gallium Nitride (GaN) gratings-on-diaphragm based optical pressure sensors can be an optimal solution due to GaN inherent properties to function in harsh environments. The scope of this work involves design optimization of GaN optical pressure sensor using simulation

PI: Dr. Rajesh Kumar

23. Title: Numerical methods and Error Analysis for Solving coagulation and non-linear fragmentation equations

Thrust Area: Numerical Analysis

Key words: Coagulation, Non-linear Fragmentation, Finite Volume, Consistency, Convergence

Abstract: In this project, consistency and convergence analysis will be studied for solving coagulation with linear and non-linear fragmentation problems under some growth conditions on the kernel. Finally, a theoretical convergence of numerically approximated solutions towards a weak solution of continuous problem using weak compactness argument will be discussed

PI: Dr. Srinivas Appari

24. Title: Prevention of Hazardous Field-Firing of Bagasse and Its Sustainable Utilization as a Raw Material in an Innovative Industrial Process

Thrust Area: Action-Oriented Research

Key words: Fast pyrolysis, In-situ catalytic reforming, Blended cement, Sugarcane bagasse ash

Abstract: Lignocellulosic biomass, bagasse can be successfully converted to useful products such as aromatics, liquid fuels, and bio-char by subjecting it to catalytic-assisted fast pyrolysis. Moreover, the obtained bagasse ash can be used for manufacturing low carbon cement in Indian cement plants. Applications of bagasse in such a synergistic industrial process in India as proposed in the study, can effectively reduce the open burning and air pollution, make the waste collection profitable, and create additional revenue while being entirely sustainable.

PI: Dr. Ravi Kant Mittal

25. Title: Design and development of fixed and floating solar PV installation for water management infrastructures

Thrust Area: Solar energy and water resources

Key words: Canal top solar system, Floating Solar PV, evaporation losses, Solar Energy

Abstract: Installation of solar PV on water bodies saves precious land and likely to improves efficiency of PV panels. Installation of solar PV on water bodies has additional advantages as it reduces the water evaporation losses. In the proposed research work, the water evaporation losses and performance evaluation of installation of solar PV panels on water bodies shall be studied using the field setup installed at BITS Pilani. The proposed study will also assess environmental benefits

Dr. Pradipta Chattopadhyay

26. Title: Understanding emulsion kinetics of surfactants

Thrust Area: Colloids and Interface Science

Key words: surfactants, emulsions, emulsion kinetics

Abstract: In this work, various industrial test results and performance results of textile lubricants and surfactants will be analyzed to ascertain a correlation between them. Also a thumb rule will be established to estimate washability of lubricants from chemical nature of surfactants and the kinetics of emulsion formation will be determined.

PI: Dr. Anshuman Dalvi

27. Title: Li+ NASICON-Polymer hybrid composites for solid state supercapcitor applications

Thrust Area: Physical Sciences, Condensed Matter Physics and Materials Science

Key words: All Solid State Supercapacitors, polymer composites, NASICONs

Abstract: Super capacitors store energy within the double electrochemical layer at the electrode/electrolyte interface. In the traditional supercapacitorsm an ion permeable film soaked with liquid electrolyte is placed between high surface area electrodes. Replacing liquid electrolytes with a solid electrolyte may improve their reliability for high temperature, low dimensional and environment friendly and corrosion free applications. Proposal aims at development and characterization of all-solid-state supercapacitors using NASICON-polymer hybrid membranes as separators and high surface area electrodes. Applying various hybrid electrolytes prepared from Li+ ion NASICONs and polymer hosts, Electrochemical double layer capacitors (EDLCs), pseudo capacitors and Hybrid supercapacitors will be fabricated and characterized. Work thus would involve synthesis of Li+ ion based NASICON-polymer hybrid composite films and fundamental characterization (ii) development of button-type solid state supercapacitors (EDLC, Psudo and Hybrid) using novel NASICON polymer hybrid films as electrolytes and their characterization. And finally (iii) To understand the mechanism of charge transfer at the electrode-electrolyte interface and role of solid electrolyte in performance of supercapacitors

PI: Dr. Arun Kumar Giri

28. Title: Linking Energy Poverty with Human Development: A Case Study of Two Districts of Rajasthan

Thrust Area: Growth, Macro, Trade and Economic Policy

Key words: Energy Poverty, Human Development, Income poverty, inclusive growth

Abstract: There is often a two-way relationship between the lack of access to adequate and affordable energy services and poverty. The relationship is a vicious cycle in which people with lack of access to energy are often trapped in a re-enforcing cycle of deprivation to income and living conditions in the society. In the above context, the study intends to examine the relationship between energy poverty, income poverty and human development using primary data from two districts of Rajasthan state and intend to suggest policies and schemes specifically aimed at accelerating energy accessibility, income growth to reduce poverty and improve human development

PI: Dr. Navneet Gupta

29. Title: Design and Analysis of Metamaterial Based Antenna for Wearable Application

Thrust Area: RF-Microwave and Antenna

Key words: Metamaterial, Antenna, wearable

Abstract: Wearable antennas have enjoyed growing interest over the past few years, along with the development of the next-generation communication standards (4G, 5G-600MHz to 6 GHz). These are antennas that operate in close proximity to the human body because they are embedded in clothing, shoes, glasses, bracelets, watches and other short-distance accessories in the human environment. Extremely many are the applications of this type of antennas; they include wearable laptops, smart mobile phones, personal digital assistants, personal security systems, BANs, local ISM networks like WLAN, Wi-Fi, WiMAX, Bluetooth; sports watches that monitor heart rate, blood pressure, distance traveled by the user, etc., medical devices that support information and control the current health status, etc. Devices with similar antennas have made the live of the users comfortable, because they are easy carry, do not interfere with movement and are mobile in nature, making them desirable components in the Internet of Things (IoT), M2M, Sensor Networks and other 5G applications. The design of wearable antennas should guarantee them moderate to high gain, wider bandwidth, high efficiency and low absorption of the signal in the human body. All these parameters have to be optimized for the wearable antennas, while providing minimal dimensions. This is an extremely challenging task and may be solved mainly by using of metamaterials. Bending and Specific Absorption Power (SAR) effects are two important moments when designing wearable antennas, but there are very few published studies where these effects are successfully analyzed for metamaterial antennas

PI: Dr. Meghana Tare

30. Title: Understanding the genetic interactions of parkin and α- synuclein affecting pathogenesis of Parkinson's disease

Thrust Area: Neurodegeneration in animal models

Key words: Drosophila melanogaster, neurodegeneration, genetic and molecular interactions.

Abstract: Parkinson's Disease (PD) is the second leading neurodegenerative disorder worldwide, leading to loss of dopaminergic neurons, causing locomotary disorders, bradykinesia, and gradual memory loss. Most forms of PD are recognized as sporadic, with handful of familial cases. Cause of PD remains to be known, and available treatment is mostly symptomatic. PD is manifested due to accumulation of Lewy Bodies, which are formed due to oligomerization of (an otherwise important) α-Synuclein (Syn). Another kind of PD is also recognized which does not involve formation of Lewy Bodies, involves down regulation of an E3 ubiquitin ligase Parkin. Both α-Syn accumulation and Parkin downregulation can be familial or sporadic. Interestingly, in severe cases, both; α-Syn accumulation and Parkin downregulation have been observed, however, independently their relationship with one another remains elusive. Despite research on several aspects of onset and progression of PD, due to less understood molecular interactions, a potent cure is missing. In this proposal, we aim to identify missing links between interactions of α-Syn and Parkin, those result in onset and progression of PD. We hypothesize that they interact with each other in-vivo, for the onset and/or, progression of the PD. We also aim to identify the newer targets of α-Syn and Parkin in this proposal. We propose to use well established model of Drosophila melanogaster for our studies, for it shares a high degree of conservation with vertebrates and is relatively inexpensive, in terms of cost and time both, yet provides an in-vivo model platform to study the genetic and molecular interactions. Our studies will help dissect out different pathway members involved in mediating death of dopaminergic neurons in PD, which can be extrapolated to develop new therapeutic targets.

Our studies are basic biology studies, but they will have broader implications. We propose to characterize the genetic and molecular interactions of α-Syn and Parkin, (objective-1) which will help us discern the etiology and progression of the disease. Identifying these interactions may serve to characterize the early markers of the disease in future. We also propose to identify the targets of α-Syn and Parkin, (objective 2), may open new avenues for characterizing new and previously not known molecular targets, which can be used for developing new therapeutic models. Our objectives are thus, independent, to each other, and aid different purposes. Verification of results obtained from our studies in human patient samples can actually lead to development of

Personalized Medicine (An emerging field of developing therapeutics). Non-hazardous transgenic fly lines and other reagents generated from this project will be available for sharing into broader model organism community

PI: Dr. Priya Sande

31. Title:

Thrust Area: Education

Key words: Gender equity and gender equality

Abstract: The proposal is to make initiatives that will boost gender equity and equality. This will include one or more of the following: creative projects, workshops, and events all with the aim to: Support women in leadership, raising awareness of sexual harassment and develop anti-sexual harassment initiatives Support women in science and research Assist creation of policies which are in line with the above

PI: Dr. Aakash Chand Rai

32. Title: Assessment of Indoor plants for improving air quality in buildings

Thrust Area: Air pollution

Key words: Air pollution; Plants; Buildings

Abstract: This research is motivated by the urgent need to protect Indian public from the adverse health effects of PM2.5 (airborne particles less than 2.5 microns in diameter) exposure inside buildings by using indoor plants for PM2.5 removal. The aim is to quantify the PM2.5 removal potential of indoor plants under real-world building conditions. This investigation will make recommendations about the type and number of plants that should be deployed indoors for effectively removing PM2.5, and protecting people from its adverse health effects. Thus, the investigation will help towards improving the health conditions of millions of people in the country

Dr. Hitesh Datt Mathur

33. Title: Management of Distributed energy resources in smart cities: Challenges and Advanced control strategies

Thrust Area: Electrical Engineering

Key words: Distributed Energy Resources, Smart Cities, Energy Storage, Vehicle to Grid

Abstract: This project aims to develop an intelligent energy management system to provide balanced and quality power supply to consumers connected in Community Microgrid (CMG). The focus of project will be on design and development of comprehensive model of CMG at pilot scale in laboratory with solar, wind, battery energy storage and diesel generators. It is also proposed to Integrate Electric Vehicles (EVs) with CMG and study the dynamic behaviour as well as implement advanced intelligent control strategies to maintain optimal balance in generation and load where most of the sources are intermittent in nature. The intelligence may be achieved through fuzzy logic and/or various machine learning algorithms along with recent forecasting techniques. Some bio inspired optimization techniques may also be used to optimally tune various control parameters

PI: Dr. Hitesh Datt Mathur

34. Title: Development of Improved Design and Control Techniques for Unified Power Quality Conditioner with Distributed Generation (UPQC-DG)

Thrust Area: Electrical Engineering

Key words: Distributed Generation, Unified Power Quality Conditioner, Active power filters

Abstract: This project focuses to devise optimum design method for UPQC-DG for sizing series and shunt inverters and passive components with Real-time simulation and power-hardware development of UPQC alone and integrated with DG. Project will also aim to develop improved control strategies for UPQC-DG to effectively utilize series and shunt inverters of UPQC-DG, and to provide reactive power support to grid. Experimental validation of developed controller using laboratory based hardware setup of PV integrated UPQC-DG is also planned along with estimation and measurement of power losses in converters of UPQC-DG

PI: Dr. Geetilaxmi Mohapatra

35. Title: Measuring the Vulnerability of Agricultural Households to Climate Change in Arid and Semi-Arid Regions of Rajasthan - A Capacity to Adapt Perspective

Thrust Area: Agriculture and Rural Development

Key words: Climate change, vulnerability, adaptability, arid and semi-arid, Rajasthan, agricultural households

Abstract: Climate change is a serious concern and efforts are being undertaken to promote adaptation as a tool to minimize its adverse effects. For identifying the socio-economic factors affecting the choice of the rural households to analyze the adaptation strategy adopted in arid and semi-arid regions of Rajasthan, field survey

will be conducted. Logistic Regression will be applied to analyze the decision of households related to whether to adapt or not to adapt. Estimations will be undertaken in a two-step Heckman framework to control the selection bias. Lastly Household Adaptive Capacity Index (HACI) will be calculated to suggest vulnerability to climate change

PI: Dr. Kamlesh Tiwari

36. **Title**: Development of real-time multi objective route recommender system using AI

Thrust Area: Software

Key words: Artificial Intelligence, Machine Learning, Deep Learning

Abstract: Given an origin and destination point finding a route on a map is one of the important problems that need to be solved for any in-vehicle navigation. The task is not straightforward when we bring optimality and real-timeliness into consideration. For example, only considering the distance between the two stations is not sufficient to calculate the time required to reach the destination starting from the source accurately. The system should also consider factors like the current average vehicle speed and the current traffic density at different segments of the roads etc. Additionally, minimizing the travel time may not be the only objective of the route selection algorithm. The user may prefer a safer and comfortable route than the route which takes lesser time. Objective of the current project is to develop a routing engine for turn-by-turn route calculation using MapmyIndia's exclusive vector maps with features such as 1) Fast 2) Real-time 3) AI-Based 4) Dynamic 5) Objective/Constraint satisfying

PI: Dr. Tanu Shukla

37. **Title**: An Empirical Study on Accountability and Learning Outcomes in Public School Systems in Rajasthan

Thrust Area: Science and Education

Key words: Accountability, learning outcomes, quality education

Abstract: As the latest trends reflect on the decline of inadequate improvements in learning outcomes of children, the Indian the education system is facing the massive challenge in achieving the goals of focusing and channelizing teaching resources in achieving equitable and quality learning among children. The background of this study is contextualized to study in-depth and deal with the accountability of teachers as one of the systemic inputs that hinder or contribute in the process of imparting quality education by translating effective and justifiable learning outcomes to maximize student learning

PI: Dr. Prabhat Nath Jha

38. **Title**: Development of sensors for blast and blight diseases and stomatal activity measurement in rice

Thrust Area: Microbial Biotechnology

Key words: Xanthomonas oryzae, bacterial blight, rice, biosensor

Abstract: By an estimate, up to 30% of the worldwide rice yield is lost every year due to diseases. Major bacterial rice diseases include bacterial blight (Xanthomonas oryzae pv. oryzae), bacterial leaf streak ((Xanthomonas oryzae pv. oryzicola), sheath brown rot (Pseudomonas fuscovaginae) and foot rot (Erwinia chrysanthemum). The current proposal aims to design a opto-electric biosensor device for early detection of Xanthomonas oryzae. The project component at BITS Pilani aims to identify signature molecule (proteins, pigment, or metabolites) which will be used for developement of receptor and biosensor device. The later part of the project will be executed at Shivnadar university

PI: Dr. Smita Raghuvanshi

39. **Title**: Process Development for Bio-Mitigation of Flue Gases (CO2, Sox and NOx) using Chemolithotrophs and Production of value-added Products

Thrust Area: Engineering Sciences & Sub Area: Chemical Engineering

Key words: Flue gases, chemo lithotrophs, bio-reactor, integrated process development

Abstract: Flue gases are typically generated by the burning of fossil fuels. The project aims at economical, efficient, and effective biological alternative for mitigation and utilization of CO2, SOX, and NOX using chemolithotrophs. The integration of developed bio-mitigation system with industrial liquid effluent containing inorganic chemicals (Fe[II], S2O32-, heavy metal ions in reduced form, NO3-, etc.) which act as a liquid media for chemotrophic growth can further reduce the cost of bio-mitigation system and can simultaneously address the problem of water pollution. Hence, the integration of CO2, SOx, NOx mitigation, waste water treatment and downstream processing for the product recovery envisage the idea of bio-refinery

PI: Dr. Ashis Kumar Das

40. **Title**: Antisense, Sense and Epigenetics in Severe Malaria

Thrust Area: Molecular Parasitology

Abstract: Malaria, caused by protozoan parasites, Plasmodium falciparum and P.vivax,, are still the cause of significant mortality and morbidity in India. Complicated malaria by these parasites cause changes in the transcriptomic expression pattern and one possible mechanism for such change, is through Natural Antisense Transcripts (NATs). Our previous study indicated differential NATs expression based on disease outcome. However, how NATs are regulated and which downstream mechanisms are modulated in malaria is not explored.

Novelty: This study would be the first to investigate whether the state of DNA methylation in human malaria parasites is linked with NATs and transcriptomic changes. Further, by investigating possible binding partners for NATs, we will demonstrate underlying mechanisms of NAT mediated regulation of gene expression.

PI: Dr. K. K. Gupta

41. Title: Structural Health Assessment and Rehabilitation Framework based on Cyber Physical System

Thrust Area: Cyber Physical System

Abstract: Today there is an increasing demand for structural health assessment (SHA) and detect the potential damage in the structures and / or structural element during service life of structures so that preventive measures could be taken to avoid their sudden failure. Hence there is wide spread interest to monitor a structure and detect damage at the earliest possible within the civil, mechanical, and aerospace engineering communities. The SHA process involves the observation of a system over time using periodically sampled dynamic response measurements from an array of sensors, the extraction of damage-sensitive features from these measurements and statistical analysis of these features to determine the current state of system health. For long term SHA, the output of this process is periodically updated information regarding the ability of the structure to perform its intended function in light of the inevitable aging and degradation resulting from operational environments. After extreme events, such as earthquakes etc., SHA is used for rapid condition screening and aims to provide, in near real time, reliable information regarding the integrity of the structure.

PI: Dr. K. K. Gupta

41. Title: Development of a cyber-physical system based smart water grid for community usage

Thrust Area: Cyber Physical System

Abstract: A smart water grid, conceptually, involves elements related to sources of water (e.g. lakes, wells, rivers, etc.), water collection systems (e.g. reservoirs, tanks), water treatment systems and water pumping and distribution systems. Data obtained from primary sources of information indicating pressures, temperatures, flow rates, vibrations and water level fluctuations, as captured at selected points in different physical structures (components) of a smart water grid, can be transmitted in real-time and might be subsequently handled through an intelligent control and data analytics process involved in Cyber Physical Systems.

PI: Dr. Arnab Hazra

42. Title: Development of 1-D Nanomaterials based Selective Sensor System for Non-Invasive Detection of Diabetes Mellitus and Asthma by Breath Analysis Technique

Thrust Area: Nano-biotechnology

Abstract: Current project has four different aspects i.e. (i) synthesis and characterizations of one dimensional (1-D) metal oxide nanostructures (e.g. nanotube, nanorod) and fabrication of sandwich structured gas or vapor sensor devices for lower ppb detection of breath markers; (ii) Selection of breath markers and their detection range for Diabetes Mellitus and Asthma affected individuals; (iii) selective detection of specific breath marker in the exposure of interfering vapors and gases using resistive and capacitive mode analysis of sensors; and (iv) correlation of sensor data with standard laboratory test results for both healthy and disease affected individuals

PI: Dr. Arnab Hazra

42. Title: Carbon nanomaterials for chemical sensing applications

Thrust Area: Innovation-Driven Sub-domain: Nano, Biotechnology and Applications

Abstract: Current research proposal concerns fabrication and testing of carbon nanomaterials based sensors devices for the detection of chemical compounds in gaseous and liquid phase for medical diagnosis, food quality monitoring and agricultural applications in collaboration with Tel Aviv University, Israel. Targeted carbon nanomaterials like graphene, reduced graphene oxide, charcoal and carbon nanotubes will be used to fabricate

planer (resistive) and field effect transistor type sensor structure. Other techniques like defect formation, functionalization, hybridization, surface modifications and device structure modulation technique will be used to enhance the performance of carbon nanomaterial based chemical sensors

PI: Dr. Inamur Rahaman Laskar

43. Title: Sensitive explosive detection in vapor phase with cyclometalated iridim (III), Platinum (II) and Conjugated Hyperbranched polymer based aggregation induced emission active nanoprobes

Thrust Area: Detonics/Explosive sensing

Key words: Aggregation Induced Emission; 2. Explosive sensing; 3. Luminescence; 4. Iridium(III)

Abstract: Most of the explosive materials commonly used for evil purposes are small organic molecules. The vapour pressure of these explosive materials is observed to be very low. Such property of explosive materials poses a challenge in onsite and real time detection of explosive materials. Sensitive detection of the nitro based explosives will be carried out through strategic design and syntheses of Ir(III) and Pt(II) and conjugated hyperbranched polymer based 'Aggregation Induced Emission (AIE)' active materials and the work will be extended to fabrication of prototype development of sensoric platform

PI: Dr. Sudeshna Mukherjee

44. Title: Analyzing the crosstalk between autophagy, cytosketal and mitochondrial dynamicity regulating epithelial to mesenchymal transition (EMT) in human glioblastoma cells

Thrust Area: Cancer Biology

Key words: Brain Tumor, Epithelial to Mesenchymal transition(EMT), Autophagy, Mitochondrial dynamics, Cytoskelatal dynamics

Abstract: Autophagy and EMT are two major biological processes that play a crucial role in cancer. In this proposal we plan to explore the role of cytoskeleton elements and mitochondria in mediating the functional crosstalk between autophagy and EMT in glioblastoma multiforme (GBM). GBM is characterized by lethal aggressiveness and patients with GBM are in urgent need for new therapeutic avenues to improve quality of life. Autophagy is emerging as a critical factor in aggressive behaviors of cancer cells; however, the relationship between autophagy and EMT in GBM is poorly understood. Hence in this proposal, the major open ended questions that we intend to address are: What is the crosstalk between structural proteins and autophagy in response to EMT activation in GBM?; How mitochondrial dynamics affect cellular architecture during EMT and metastatic spreading in GBM? Our results shall provide critical cues on how GBM cells alter their metabolic and structural reprogramming for metastatic spread and progression, which shall be valuable for future therapeutic strategies

PI: Dr. Shibashis Chowhdury

45. Title: Repurposing of CNS accumulating drugs as autophagy modulators for potential treatment against glioblastoma: as in-silico, in-vitro and in-vivo study

Thrust Area: Cancer, Non-Communicable Disease

Key words: Glioblastoma, Drug-repurposing, autophagy

Abstract: Glioblastoma multiforme (GBM) is the most aggressive brain tumor. As per existing studies, a majority of conventionally used anti-cancer drugs are ineffective against GBM, due to their inability to cross the blood-brain barrier and/or internal resistance. In this study, computational based initial screening of drugs shall be performed to identify possible targets from GBM patient datasets; selection of de-regulated networks obtained from transcriptomic data of drug-treated cells; screening of drugs based on enhanced lipophilicity coupled with autophagy modulating properties. Finally, with a set of selected drugs we shall perform in vitro efficacy analysis, in-vivo pharmacokinetics and bio-distribution study to decipher actual brain concentration of drugs and finally to evaluate their therapeutic potential against orthotopic GBM rodent model

Dr. Vinay Chamola

46. Title: Resource dimensioning and management of smart and sustainable 5G small cells for rural broadband

Thrust Area: Communication engineering, networks

Key words: Cellular networks, Resource management, Solar energy, Netowork optimization

Abstract: This project is a dedicated effort towards introspecting and solving key issues that would facilitate enabling rural broadband. Specifically, this project would address resource dimensioning and management of rural solar powered 5G small cell base station networks. Some key questions which would be addressed through the research are a. Cost optimal sizing of PV panels and battery for solar powered base stations b. Energy management for cost-optimal and sustainable operations of 5G small cell network and c. Spectral resource management and pricing models for rural markets

PI: Dr. Anil Jindal

47. Title: Rod-shaped polymeric nanoparticles for targeted delivery of artemisinin-derivatives to plasmodium-infected erythrocytes for improved intravenous therapy of cerebral malaria

Thrust Area: Nano drug delivery systems

Key words: Rod-shaped, Malaria, Nanoparticles, Artemisinin derivatives

Abstract: Malaria, a prevalent parasitic disease caused due to the Plasmodium parasite is responsible for around 1 to 3 million deaths annually around the globe. Currently, a number of conventional drugs available in market suffer from drug resistance developed by the malarial parasites. Drugs like artemisinin and its derivatives show poor bioavailability and pharmacokinetic properties. Hence newer approaches like nanotechnology should be considered while developing new formulations. In malaria, the differentiated pathophysiology of the RBCs unlike the normal ones can be advantageous in targeting them. Spherical nanoparticles have been pretty much exploited in malarial treatment unlike non-spherical nanoparticles. Non-spherical nanoparticles have shown promising results in cancer targeting. Hence the objective of the research is to formulate non-spherical nanoparticles and to study their cellular uptake, pharmacokinetics and efficacy in malarial treatment

KK Birla Goa Campus

Brief Description of some of the projects sanctioned in 2019-2020

1) PI: Dr. Anil Kumar Pundir

I) Title: A Theoretical and Numerical Study of the Control Problems Involving Differential Equations with memory term (approved and implemented, Funding agency: SERB under MATRICS-2018)

Thrust Area: Control Theory

Keywords: Controllability, Impulsive Control, Integro-Differential Equations, Perturbed Systems

Abstract: In the theory of dynamical systems, the problems of fundamental importance are the ones related to the basic properties of the systems such as controllability and optimality. They arise naturally in various areas of science and technology. The concept of the controllability denotes the ability to move a system around in its entire configuration space using only certain admissible manipulations. During this project, we shall study certain classes of equations that serve as realistic models that arise in nuclear dynamics, biological or economic processes.

II) Title: Numerical Approximation of Optimal Control Problems Using Virtual Element Method.(Approved, Funding Agency: DST-SERB under Core Research Grant)

Thrust Area: Optimal Control Theory

Keywords: Optimal Control, Virtual Element Method, Partial Differential Equations, Calculus of Variation, Optimality Conditions.

Abstract: In view of various applications of optimal control problems in the industry and medical sector, the aim of this project is to develop efficient and robust numerical schemes that would provide the best approximation of optimal control problems governed by specific PDEs. Many existing numerical schemes such as Finite Difference Methods, Finite Element Methods, Mixed Finite Element Methods, and Finite Volume Methods have been used to approximate optimal control problems numerically. However, each scheme has its own limitations while dealing with complicated geometry or looking for the best approximation (higher-order convergence). The recently introduced numerical techniques named as Virtual Element Methods (VEMs) have certain computational advantages in terms of computational cost, mesh refinement, higher-order convergence and geometry of the domain in which the problem is defined. We shall extend the VEMs analysis (available in the literature) to approximate optimal control problems governed linear/semilinear elliptic/parabolic/hyperbolic problems where control may appear as a distributed control or a boundary control and to design and analyze suitable new virtual element schmoes for the approximation of control problems which are more application-oriented.

2)   PI: Dr. Vinayak Naik

Title: Mobile App for improving survival in fires through efficient egress: The role of impromptu indoor WiFi localization and georeferenced building maps

Thrust Area: Cyber-physical systems, IoT, Mobile Computing, and GIS

Keywords: WiFi localization, indoor localization, emergency egress, 3D topology, voice guidance and navigation

Abstract: During fires, smoke inside a building may become so thick and dense that occupants become quickly disoriented and unable to exit it. We propose development of a Mobile App to assist in emergency evacuations from public buildings, made possible with convergence of three new technologies. The first is WiFi based indoor localization. GPS technology is an example of "outdoor localization", which accurately locates users outdoors.

With the widespread adoption of smartphones with GPS-receivers, online mapping and localization on handheld devices (e.g., Google Maps) alongwith calculating best routes to a destination have become routine activities. However, GPS receivers do not work inside buildings. Indoor localization uses the principles of GPS triangulation, but instead relies on "wi-fi" routers and their received signal strength (RSS) to identify the precise 3D location of a smartphone user within a building. The second technology is georeferenced buildings combined with 3D topology (i.e., network) of exit routes, which allows buildings and their exit routes to be precisely mapped in three dimensions (3D topology is necessary as buildings have a vertical dimension). The third is way finding using shortest path algorithms on 3D topology, which when combined with visual and oral guidance identifies the quickest and easiest way to exit the building. The app will also use a heuristic to estimate number of people who will use each pathway, and re-route individuals to alternate exits to reduce stampede conditions. We plan to test the app for a community building in partnership with the First Nations community of Wemindji.

3) PI: Dr. Devendra Gokul Patil

Title: 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

Thrust Area: Mechanical Engineering - Design - Structural Health Monitoring

Key words: Active Sensing, Structural Health Monitoring, Composite Delamination, Piezoelectric Transducer

Abstract: With advances in field of chemical and manufacturing engineering, newer, tougher and lighter multi-layer composites are being developed to replace their traditional counterparts. The contribution of these composites to national economy, security and overall quality of everyday life is undeniably recognized. For developing country like India it is crucial to induct this kind of technology in various manufacturing fields for its rapid growth towards 'developed' status. Although lot of study has been done in the field of development of these composites, very less attention has been given to investigating its reliability. Most of failures such as intra-laminar (fiber and matrix crack) & inter-laminar (delamination) damages in these composites have received lot of attention from fracture mechanics branch in material sciences and very little efforts have been taken from field of engineering. These efforts from engineering have been limited to development and testing of structural heath monitoring (SHM) techniques in controlled laboratory environment only. Very few SHM techniques such as probe based acoustic emission (AE) and ultrasonic testing are used along with visual inspection by operators. These techniques depend on skillset of operator, detect only intra-laminar damages close to surface and require stop of operations, making them costly. Failure to detect initiation and growth of delamination also makes them unreliable and may cause catastrophic failure. Several studies with their own shortfall have been performed by researchers in academia & industry to detect delamination in multi-layer composites using piezo. Most of these studies installed piezo patch on coated surfaces to perform impedance or stress wave based active sensing. It was observed that the coating acts as damper and filter to reduce the energy of stress wave for applied frequency spectrum, and fails to detect delamination. A passive SHM study by NASA with embedded piezo transducer relied on monitoring the delamination through vibratory response of composite. The study seemed not practical for real-time assessment. The research proposed will overcome the shortfalls of above studies and will perform a piezo based SHM of multi-layer composite specimens under various loading conditions for delamination detection. Study performs, active sensing using semi-embedded & embedded piezo transducer with wavelet packet analysis to analyze the data and to indicate severity of damage through Damage Index. The proposed study will guide researchers and manufacturers towards development of a new smart composites structures (SCS), who can remotely & autonomously perform self-health assessment with help of embedded system at programmed time intervals. These SCS's will also wake up in event of sudden impacts during idling to trigger a SHM & report damage severity & location to authorities. These autonomous systems can be useful in developing safe and reliable structures to assist development of India.

4) PI: Tusar Tirtha Saha

Title: Fine mapping of the chromatin structure of key genes involved in reproductive maturation and egg production in dengue vector mosquito, Aedes aegypti

Thrust Area: Disease Vector Biology, Insect Molecular Biology

Key Words: Dengue mosquito, Reproductive maturation, Post eclosion development, Chromatin remodeling, Juvenile hormone, Disease vector control

Abstract: One of the major modes of mosquito borne disease management involves controlling the vector population. However the traditional methods have failed to deliver the desirable results and efforts are on to engineer novel mosquito birth control strategies. Development of these strategies relies heavily on a thorough understanding of the molecular mechanisms reproductive development in mosquitoes. By mapping the chromatin structure of key genes involved in vector mosquito reproductive maturation and fecundity, this project aims to broaden our general understanding of mosquito reproduction and take us a step closer towards novel long term and sustainable vector control methods. The major scientific objectives of the project are mentioned in bullet points as follows- • To determine the overall chromatin accessibility map of key reproductive genes in vector mosquitoes. • Detailed mapping of the specific histone tail modifications linked with active chromatin state

on the target genes. • Analyzing the effect of JH on the chromatin landscape of the target genes. This study plans to provide the platform for further in-depth investigation about the mechanism of JH mediated chromatin remodeling. .

5) PI: Anjan Chattopadhyay

Title: A computational investigation on the reaction paths and spectroscopic properties of crown ethers

Thrust Area: Computational Chemistry

Key words: Photochemistry, quantum mechanics, crown ethers, reaction paths

Abstract: Quantum mechanical studies on the mechanism of the reaction paths of different crown ethers and their behavior under photo-irradiation are the subject of interest of this project work. High-level computational investigations are employed to study these features of some experimentally studied crown ethers and their metal ion complexes.

6) PI: Sarang C Dhongdi

Title: Flying Ad hoc Network for disaster rescue operations

Thrust Area: Wireless Sensor Networks, Airborne Networks

Keywords: FANET, Networking protocols, NS-3

Abstract: During the disaster rescue operations, such as fires in building spaces or natural calamities such as floods and earthquakes, mini-UAV's can be deployed which can fly at much lower altitudes. At times, multiple mini-UAVs are required in the network formation for improving capabilities, reducing completion time of mission, and for allowing sharing of tasks among themselves. In this project, an autonomous network of multiple mini-UAVs will be deployed for an example of disaster rescue operations. Set of protocols will be developed for distributed operations of UAVs with analytical modelling and verified with simulations in NS-3 and ROS platforms. These protocols will be deployed on hardware processing systems connected to individual drones.

7) PI: Siddhartha Tripathi

Title: Microfluidics sperm cell sorting device: addressing male infertility factor

Thrust Area: Bio-microfluidics

Key words: Fluid mechanics, microchannel, sperm manipulation, separation

Abstract: Male infertility has become a subject of immense economical and medical importance. Assisted reproductive technologies (IVF etc) are currently utilized to help infertile couples. However, the success rate of these technologies is dependent on selection of high quality sperms in an efficient way. Though commonly applied, the conventional sorting methods suffer from major drawbacks. This project aims towards designing, fabricating, testing and developing a novel microfluidic device which can effectively separate high quality sperms from a raw sample of semen to address male infertility issues.

8) PI: Basabdatta Bhattacharya

Title: Low-power Deep Spiking Neural Network for Forest Surveillance

Thrust Area: Cognitive Machines

Key words: Spiking Neural Networks, Neuromorphic devices, SpiNNaker, Biologically plausible Neural Networks

Abstract: We propose a brain-inspired Deep Spiking Neural Network on the SpiNNaker, a neuromorphic hardware built with very-low-power ARM processors, that will be capable of visual learning, memorising and recall. The dynamic visual scene will be captured by a Dynamic Vision Sensor (DVS)-based camera, another low power neuromorphic device. After an initial period of training corresponding to a predetermined set of environmental conditions, the network will adapt and act by recalling prior experience, alleviating the need for human intervention. We have been using the SpiNNaker neuromorphic computer to build spiking neural network models, computed in real time at a resolution of millisecond. SpiNNaker server is available for academic research free of cost, either directly from the University of Manchester, or via the Human Brain Project funded by European Union Horizon 2020) portal; further, boards with 48 SpiNNaker chips are available on loan as well as for sale at affordable prices. DVS-based camera will be available on loan from Teresa Serrano-Gotarredona's lab at the Instituto de Microelectronica de Seville (IMSE) Spain. We will be using the interface of DVS and SpiNNaker to build our low power device for forest surveillance and monitoring.

9) PI: Dr. Rajorshi Sen Gupta

Title: Impact of "Make in India" and new IPR Policy on Innovation of MNCs and Indian MSMEs in Medical Device Sector

 Thrust Area: Innovation, Intellectual Property Rights Protection. Impact of Policy

Abstract: Currently India meets almost 80% of its demand for Medical Device equipment through imports. This high import dependency eventually leads to high cost of healthcare provision. The study proposes to address the following issues: How effective has been Make in India (2014) and new IPR Policy (2016) in terms of addressing the problems faced by Medical Device industry? Are these policies equipped to increase the affordability and access of Medical Devices? The study aims to assess the impact of these policies on a) innovation strategies of domestic and multinational firms and b) innovation outcome in terms of affordable Medical Device products in India.

10)   PI: Dr. Sumit Biswas

I)Title: Development of Novel Biofilm Resistant Coat for Implant Devices from *Moringa oleifera* Leaf Extracts

Abstract: Background: The spectre of the formation of bacterial biofilm on implant devices remains a looming threat. Almost 60% of internal implants have been shown to be prone to bacterial biofilm formation. Resistant to antibiotics and the host defence mechanism, there is very limited scope to combat biofilms at present. Hence, expensive and painful repeat surgery and re-implantation remains the only choice, which however doesn't eliminate recurrence. Therefore, there is an unmet clinical need that this proposal is trying to address.

Novelty: This new approach aims to immobilize extracts from *Moringa oleifera* leaf on nanospheres and develop this as a coating material for implant devices. Not only is the *M. oleifera* leaf a natural product, but is also very inexpensive and the method-of-immobilization that has been proposed is time-tested.

Expected Outcomes: This novel anti-biofilm coat will not only address the unmet clinical need, but will also serve to bring down the expense of surface coated implants. Successful implementation of this concept will revolutionize the present implants-based transplantation regime.

II)Title: Restoration of windowpane oyster (*Placuna placenta* Linnaeus, 1758) population following sea ranching practices for their long term conservation.

Abstract: The windowpane oyster in Goa, significantly supported the fishery industry at the Nauxim Bay of Zuari estuary. These oysters (locally known as 'Bhilgaci' in Konkani or 'Mendio') were reported in Goa as early as the 16th century. A large number of windowpane oysters were traditionally harvested for livelihood by the fishing community of Siridao and Chicalim villages of the Zuari river estuary in Goa. Around 8-10 years back, they were harvested by the local fishermen and meat of this bivalve was sold in the market for local consumption. However, over the last few years, they have completely disappeared from the fish markets. The species been included in Schedule IV under the amended Protection of Wildlife Act, 1972 as per Ministry of Environment, Forests and Climate and the Goa Biodiversity Board has put a complete ban on their commercial exploitation. In the proposed proposal, good quality brooders will be collected and bred artificially under simulated conditions in backyard hatcheries following standard protocol developed   for other molluscan bivalves. The fragile larvae will be maintained in specially designed re-circulating type seawater incubators up to certain stage.

11)   PI: Mohan Kumar Bera

Title: Coping with Displacement due to River Erosion in the Indian Sundarban and Lower Assam

Thrust area: Disaster Management

Abstract: Rapid river erosion in the Sundarban islands and Brahmaputra River basin directly affects river bank and increases the frequency of flooding. River erosion forces the settlers to move away from the affected village. However, such movement does not occur immediately after a disaster. Rather, it is influenced by the socio-economic condition of the people, nature of disasters, and the extent of government intervention. This research will be investigating the impacts of river erosion and associated displacement, particularly in relation to the impoverishment and marginalisation of settlers living at the river bank. It will analyse the trends of spatial movement among affected households to cope with river erosion and explores alternative strategies to support the potential increase in future displacements due to river erosion.

12)   PI: Dr. Amrita Chatterjee

Title: A polydiacetylene-based fluorescent sensor for the detection of arsenic species and uranyl ion in water by conventional and nuclear analytical methods.

Thrust Area: Water and Waste Management

Abstract: Water pollution, which is one of the major environmental concerns, is basically the introduction of contaminants into the natural waters that cause adverse change of environment and has severe effect on human health. Water pollution by arsenic and radioactive metal toxins (e.g., UO22+) is a major global problem which

requires immediate evaluation and revision of water resource policy at all levels. Several techniques that are used for analytes quantization such as voltametric or chromatographic methods. However, these techniques can hardly be used for in situ analysis and low-cost screening procedures. Fluorescent probes are powerful tools for analytical sensing and optical imaging, which allow direct visualization of analytes at the molecular level and offer useful insights into complex structures and processes. Polydiacetylenes (PDAs), a family of conjugated polymers, have very unique electrical and optical properties. In this proposal we propose to develop PDA based liposomes for the selective and sensitive detection of arsenic and uranyl ions. Efforts will be made to utilize radiotracers of As and U for method standardization at BARC and also for low level detection of As and U by Nuclear methods like NAA and SSNTD,respectively.

PI: Dr. Shibu Clement

Title: Drag reduction by suppressing the Bi-stability character of the wake in bluff body vehicles

Thrust Area: Experimental Aerodynamics

Keywords: Passive flow control, bi-stability, wake topology, base pressure, drag

Abstract: The conventional method of streamlining the vehicles for drag reduction has reached a matured state. In this scenario, alternate ways should be explored to reduce drag and stretch the fossil fuel reserve that is under the threat of extinction. In view of this, a comprehensive physical understanding of the transient wake is required to develop flow control strategies. One of the transient behaviour of the wake is the bistability where the wake randomly shifts between two equilibrium states. This phenomenon gives rise to additional resistance forces thereby increasing drag. So, suppressing the bistability might lead to drag reduction.

13)   PI: Dr. Sharad M. Sontakke

Title: Development of bimetallic catalysts for direct non-oxidative conversion of methane to higher hydrocarbons

Keywords: Methane conversion; non-oxidative; direct; bimetallic catalyst; metal-oxide; combustion synthesis

Abstract: The direct non-oxidative conversion of methane is considered as an economic as well as environment friendly option. Among the reported materials, zeolite HZSM-5 supported molybdenum is considered as a promising catalyst. However, formation of large amount of carbonaceous products is the major limitations with this material. Further, the reported literature majorly focuses on the conversion of methane to aromatics and there   is   very limited work on the conversion towards high value chemicals such as ethylene. Thus, development of suitable catalysts for reducing formation of carbonaceous products and increasing ethylene yield is considered as one of the demanding area of research in this field. In order to address the above issues, the proposed work aims for development of bimetallic catalysts on high surface area metal oxides supports.

14)   PI: Dr. Pradeep Kumar Sow

Title: Continuous Flow Oil-Water Separation System Using Smart Separators Capable of Low-Voltage Wettability Switching

Thrust Area: Environment, Oil-water separation, Material Science

Key words: Oil-water separation, dynamic wettability, smart separators, continuous flow, wettability switching

Abstract: Industries including petrochemicals, automotive, shipping, etc. produce large volumes of oily wastewater, of which significant amount ends up in water bodies posing a serious environmental threat. Therefore, effective treatment of oily water is one of the major challenges towards environmental protection. The traditional approaches for o/w separation suffers from various limitations such as low separation efficiency, long processing times, large sizes, generation of secondary pollutants, and high energy consumption. The development of materials with extreme wettability (superhydrophobic or superhydrophilic) is a promising approach for the treatment of oily water. A porous separator fabricated out of such materials can allow the wetting phase (either "oil" or "water") to permeate selectively with higher separation efficiencies and lower energy consumption compared to the conventional methods. However, utilizing separators with fixed wettability restricts their function only as "oil-removing" or "water-removing". This places a constraint of pre-selecting the separator type (–philic or –phobic) before operation based on the anticipated feed properties, in particular the type and state of the o/w mixture (heavy or light o/w mixture, oil-in-water or water-in-oil emulsions). Moreover, a vast majority of the o/w separation has been demonstrated in a batch scale filtration assembly, with very few reports on the continuous operation. Addressing these challenges, this project aims to develop and optimize a scalable continuous flow o/w separator system with a smart and durable dual-functional separator which can switch on-demand between "oil-removing" and "water-removing" modes. . In this project, consistent testing protocols in-line with the o/w separation requirement will also be developed based on which the material properties will be optimized for the maximum effectiveness and performance. It is expected that the development of such a continuous o/w separation system can facilitate lab-to-market transition.

15)   PI: Anushaya Mohapatra

Title: Partial Migration Phenomenon: A Game-Theoretic Approach to Causes and Environmental Effects

Thrust Area: Mathematical Biology, Dynamical Systems

Keywords: Partial Migration, Global Stability, Evolutionary Stable Strategy, Ideal Free Distribution, Evolutionary Game theory

Abstract: Partial migration is a phenomenon occurring in populations in which some individuals migrate during their lifetime, but others do not. This proposal addresses questions on why and how it has evolved from an evolutionary perspective by constructing and analyzing nonlinear discrete-time population models in the context of Game Theory and invasion analysis. The focus is to understand how various biological features such as negative density dependence –including where and how it acts-, Allee effects, and fluctuating environmental variables caused by climate change, can affect the evolutionary stable allocation strategy (ESS) adopted by a population. A remarkable preliminary result is that for a specific population model, both adaptive dynamics and evolutionary game-theoretic approaches predict the same ESS value. More ever recently, we found out that for the same population model of partial migration, ESS value corresponds to a distribution of population, which is the same as Ideal Free Distribution used in the context of habitat selection game. This raises the question of how general this observation is? What are the underlying mechanisms that guarantee that both methodologies essentially predict the same outcome which again coincides with ideal free distribution? This could potentially lead to a deeper understanding of the connections between partial migration behavior and habitat selection game and may turn out to be useful for other problems that have an evolutionary character.

16)   PI: S D Manjare

Title: Design and Development of cost-effective sustainable approach to produce carbon-silica dual phase filler for application in rubber compounds

Thrust Area: Process Design and Development

Key words: Carbon Black, Silica, Liquid spray pyrolysis, Process, Tyre

Abstract: As per the current polymer industrial practice, the maximum utilized material after polymers are the reinforcing material mainly carbon black. Carbon black due to their unique properties to produce good thermal, mechanical and ease of processing during mixing with polymer makes it very natural filler material for the polymer and especially elastomeric components. The major portion of carbon black goes into making of tyres and related products. Numerous researches have been done in past and presently going on to produce alternative to replace carbon black with silica. But the complete replacement is not possible due to hydroscopic nature of silica which makes it difficult to mix as well disperse in polymer matrix. Although the use of silica in place of carbon black gives good results by improving the dynamic mechanical properties of the polymer material but with lesser interaction and poor dispersion without coupling agent resulted in having poor mechanical properties of the material. The utilization both silica and carbon black in single material has not been explored so far.   The current research is focused in designing and developing the methods to produce carbon-silica dual phase filler in cost effective and environment friendly way and overcoming the drawback associated with the existing method.

17)   PI: Dr. D M Kulkarni

Title: Evaluation of Mechanical Performance of the 3-D Printed PEEK Polymer used in Space Applications.

Thrust Area: Additive Manufacturing

Key words: 3D printing, FDM, anisotropy, mechanical properties

Abstract: The additive manufacturing (3-D printing) industry is developing at an exciting pace with a wide variety of 3D-printing techniques, raw materials, and design tools. Till date, the 3-D printing is primarily employed for rapid prototyping. However, for space industries that can derive value from highly complex part geometries and promising polymers, the true goal remains to employ the 3-D printing for the production of reliable end-use parts. Out of the available techniques, fused deposition melting (FDM) technique is a low cost and a rapid manufacture solution which can improve the overall efficiency in the manufacturing sector as compared to others. A key challenge of 3-D printing polymers is accounting for their anisotropic mechanical properties. The products of all techniques: SLA (Stereo-lithography), SLS (Selective Laser Sintering), FDM (Fused Deposition Modeling), and LOM (Laminated Object Manufacturing) show anisotropy. However, FDM, which is the low cost and rapid manufacture technique, exhibits maximum anisotropy. The polymeric materials frequently fail more easily when loaded along the build direction due to weak interlayer bonding. An engineer could conservatively assume the weakest properties for every orientation, but this assumption counters the goal of using 3-D printing to enable highly-optimized part geometries. Therefore, maximizing 3-D printing part performance requires a detailed understanding of the mechanical anisotropy exhibited by polymers and optimized process parameters, which bring homogeneity. Therefore, the sole objective of the research proposal is to recommend for space applications, an additive manufacturing technique, which is cost-effective, rapid to manufacture and exhibits mechanical performance that is independent of the printing direction. The research work focuses on 3D-printing high melting-point space polymer like PEEK (MP: 360oC) with isotropic mechanical properties.

18)   PI: Dr. Srikanth Mutnuri

I) **Title:** Bioremediation and Digital Documentation towards the conservation of Cultural Heritage

Thrust Area: Bioremediation

Key words: Bioremediation, Heritage, Architectural Documentation, Sulphate reducing bacteria.

Abstract: Cultural heritage is invaluable and it provides an understanding of our past. The State of Goa has got long historical and cultural tradition. The cultural heritage of Goa draws millions of visitors each year to monuments, archaeological sites, museums and galleries and contributes significantly to tourism and business. The conservation- restoration of cultural heritage is thus of primary interest for the custodians of heritage. Harmful effects of climate change and pollution makes the above mentioned cultural heritage items more vulnerable and protecting them is of prime importance. Any treatment proposed should be in accordance with the International Charters of Conservation. In the present work, Bacterial Enzymes like proteases, amylases and lipases, either alone or in combination with viable cells will be used for cleaning of artworks and Viable cells of Sulphate reducing bacteria will be used for cleaning of stone works specially Laterite monuments. Architectural documentations will be used to identify the extent and types of biodegradation that have happened. Digital documentation before and after will be used to measure the way in which proposed bioremediation works which will be carried out.

II) **Title:** Bioleaching of limestone and clay to remove iron and other transition elements (Titanium, chromium, manganese, nickel and zinc)

Thrust Area: Bioremediation

Key words: Bioremediation red mud, Alumina Industry, Sulphate reducing bacteria

Abstract: Red Mud is produced during the Bayer process for alumina production. It is the insoluble product after bauxite digestion with sodium hydroxide at elevated temperature and pressure. It is disposed as a slurry having a solid concentration in the range of 10-30%, pH in the range of 13 and high ionic strength. It is a complex material whose chemical and mineralogical composition varies widely, depending upon the source of bauxite and the technological process parameters. It contains six major constituents, namely, Fe_2O_3, Al_2O_3, SiO_2, TiO_2, Na_2O and CaO and small quantities of minor/trace elements (as oxides). Its brick red color is due to the iron oxides. At all alumina plants, 1.0–1.6 tons of red mud is generated per ton of alumina and it is estimated that over 66 million tons of this waste is impounded annually in the world. The disposal of such a large quantity of this alkaline waste sludge is expensive, as it requires a large disposal area and causes a number of environmental problems. The neutralization of red mud and its adequate treatment to allow its reuse seem to be the realistically convenient steps for the disposal of this industrial residue and we are exploring Bioremediation for the same.

19) Dr. Ramprasad S Joshi

Title: Consultant for Implementation of Artiflcial Intelligence Use-Cases in Yard Operations and Onboard Ship Operations

Thrust Area: Artificial Intelligence.

Key words: Artificial Intelligence, Data-driven Prediction and Decision Support, Condition Monitoring, Predictive Maintenance.

Abstract: Among the myriad operations ongoing in the shipyard and on the ships built and maintained therein, certain potential application areas were identified as the first year targets for AI-use-cases, for data-driven predictive modelling. Concrete projects were formulated and operationalized around engine-health monitoring, chatbots for internal operations personnel, and smart yard security with CCTV cameras. We (BITS Pilani K K Birla Goa Campus, CS-IS Dept) are the knowledge partner, whereas GSL, the business partner, identifies technology partners from industries and start-ups with our help to design and implement the conceived projects.

Description of some of the projects sanctioned in 2019-2020

Hyderabad Campus

1. Dr. A Sajeli Begum

1. Title of the Project: Agro-homeopathy: Potential of homeopathy as a tool to manage stem rot pathogen complex for a sustainable agriculture

2. Funding Agency: CCRH-AYUSH

3. Total Sanctioned amount: 30.3258 L

4. Sanctioned date: 17.01.2019

5. Duration: 3 years

6.Thrust Area of the project: Potential of homeopathy for sustainable agriculture

7. Keywords 3/4: Homeopathy, Stem rot, groundnut pathogen, agriculture

8. Abstract: 4/5 lines (Max.100 words):

This is a joint project between PJTSAU, Telangana State and BITS-Pilani Hyderabad Campus. It involves evaluation of some homeopathic drugs and their active molecules for the integrated management of stem rot of groundnut. A low cost alternative to chemical fungicides for groundnut stem rot management is an expected outcome through this research. This novel approach of applying homeopathic principles to agriculture will improve the nutritional properties and in addition to their resistance to biotic (pathogens) and abiotic stress.

2. Dr. Soumya J

1. Title of the Project: Indo-Norwegian collaboration in Autonomous Cyber-Physical Systems

2. Funding Agency: Norwegian Research Council

3. Total Sanctioned amount: INR 477,00,000

4. Sanctioned date: 29-01-2019

5. Duration: 4 years

6. Thrust Area of the project: Cyber Physical Systems

7. Keywords 3/4: Education, Collaboration, Workshop, Cyber Physical Systems

8. Abstract: The key objectives of the INCAPS project is to: I). Strengthen collaborative network between industry (both public and private enterprises, small and medium sized enterprises and multi-national companies) and academia. II). Increased value creation and enhanced innovation by using smart sensing, machine and deep learning techniques in autonomous cyber-physical systems. III). Facilitate education and knowledge sharing through better mobility for students and researchers. IV). Create an

arena for generation of research and innovation projects. V). Increased utilization of research and educational infrastructure both in Norway and India. VI). Integrate professionals from industries and academics through workshops, seminars, webinars and summer/winter schools.

3. Dr. Sandip S Deshmukh

1. Title of the Project: Design & Development of an Automated flow calibration system for fuel & oxidizer injectors of reaction control system

2. Funding Agency: CAS, DRDO

3. Total Sanctioned amount: Rs.1000000/-

4. Sanctioned date: 01/02/2019

5. Duration: 18 Months

6.Thrust Area of the project: Flow Calibration System
7. Keywords 3/4: control valve, orifice size, machine learning model, automated flow control
8. Abstract: The proposed research work aimed at developing a prototype plant with fitted proportionate control valve components that achieves regulated pressure flow for the calibration process. It is also aimed at proposing a mathematical model with certain input parameters that help in predicting the orifices for adjusting the pressure flow. Finally, a completely automated tool kit with hardware setup for automating the flow calibration system will be developed.

4. Dr. Kurra Suresh

1. Title of the Project: Development of Image Processing based portable device to measure surface strains in sheetmetal forming

2. Funding Agency: DST

3. Total Sanctioned amount: 1585700/-

4. Duration: 3years

Dr. Soumya J

1. Title of the Project: Development of Methodologies for Self-Aware Network-on-Chip Design

2. Funding Agency: DST (International Bilateral Cooperation Division)

3. Total Sanctioned amount: INR 8,89,000

4. Sanctioned date: 21-02-2019

5. Duration: 2 years

6. Thrust Area of the project: Embedded Systems

7. Keywords 3/4: Network-on-Chip, Self-Aware Design, Optimization

8. Abstract: In this project we plan to work in developing the following modules. A methodology for on-line learning of application traffic patterns in NoCs. Learning model to gather fault behaviour of links and routers of

mesh based NoC. Prediction model based on learning to provide solutions for link or router faults to make No C self-aware Architecture solutions for learning and prediction models.

5. Ms. Khairunnisa Amreen

1. Title of the Project: National Post-Doctoral Fellowship

2. Funding Agency: National Post-Doctoral Fellowship

3. Total Sanctioned amount: 1920000/-

4. Duration: 2years

6. Dr. Santosh Kumar Mohapatra

1. Title of the Project: Assistant Coordinator for Aptis Action Research Mentoring Scheme

2. Funding Agency: British Council

3. Total Sanctioned amount: 10000 per day (received for 8 days till now)

4. Sanctioned date: March 19, 2019

5. Duration: 1 year

6.Thrust Area of the project: Teacher Development7. Keywords 3/4: Professional development, teacher research

8. Abstract: The Action Research Mentoring Scheme (ARMS project) supports teacher educators and academics as they mentor small groups of English language teachers through classroom-based research projects. This scheme aims to create an environment and framework that enables teachers to:

- try out different approaches and ideas
- develop their reflective practice
- make choices and decisions about their teaching styles
- develop their confidence
- improve their student learning.

7. Dr. Mini Thomas P

1. Title of the Project: Financial Inclusion through Urban Cooperative Banks: An Exploratory Study of Telangana State

2. Funding Agency: ICSSR-IMPRESS

3. Total Sanctioned amount: 560000/-

4. Duration:1years

8. Dr. Vivek Sharma

1. Title of the Project: Elucidating the role of long non coding RNAs (lncRNAs) in neuronal cell death during Japanese Encephalitis (JE)

2. Funding Agency: DBT

3. Total Sanctioned amount: 68.76 lakhs

4. Sanctioned date: 5 March 2019

5. Duration:3 years

6.Thrust Area of the project: Neuroscience

7. Keywords 3/4: lncRNA, JEV, Neurons, Cell death

8. Abstract:This project aims to explore in an unbiased and genome-wide manner the role of lncRNAs in JE pathogenesis. The discovery of a novel class of lncRNAs involved in JEV infection will not only increase our understanding of host response to JEV infection but will also help us identify novel targets for treatment of JE.

9. Dr. Srinivas Appari and Dr. Bahurudeen A(Co-PI) & Dr. Prassanta Kumar Sahoo (Co-PI)

1. Title of the Project: Prevention of Hazardous field -firing of bagasse and its sustainable utilization as a raw material in an innovative industrial process

2. Funding Agency: SPARC

3. Total Sanctioned amount: 2879650/-

4. Duration:2years

10. Dr. Durgesh Chandra Pathak

1. Title of the Project: "Does Financial Awareness lead to Better Financial Inclusion Outcomes? An Investigation

2. Funding Agency: IMPRESS-ICSSR, New Delhi

3. Total Sanctioned amount: Rs4,50000

4. Sanctioned date: March 15, 2019

5. Duration: 12 months

6.Thrust Area of the project: Governance, Innovation, and Public Policy

7. Keywords 3/4: Financial inclusion, Training, Jan Dhan Yojana, Innovations in Public Policy

8. Abstract: The literature on financial inclusion suggests that the spread of financial awareness, education and literacy play an important role in encouraging use of the formal financial sector, thereby contributing to larger cause of economic growth, development as also addressing inequalities based on gender, rural-urban backgrounds, socio-economic status. In the present project, effort will be made to understand how the intervention in form of increasing financial awareness in the rural setting impacts use of saving accounts and other formal financial products and services. The research will follow the longitudinal design with 'before-after' approach. We will do a baseline survey in rural area to measure the access to the financial services and awareness by gathering data on availability of accounts, kind of transactions carried out, frequency of use, adoption of digital payments and also the information on socio-economic background of the households. This will be followed by training to increase financial awareness about the uses and advantages of using formal financial products. After some time lapse a follow-up survey will be done to understand if the training translated into increased usage of formal finance channels. Besides providing useful insights about the use, pattern and determinants of the adoption of financial products by households, the research will help the involved households in term of increased financial literacy, the research community and the policy makers

11. Dr. Prassanta Kumar Sahoo

1. Title of the Project: Congestion Pricing: Planning for optimal strategies and commuters behavioral implications under different pricing schemes.

2. Funding Agency: SPARC

3. Total Sanctioned amount: 2939493/-

4. Duration:2years

12. Dr. Hitesh Datt Mathur & Dr. Alivelu Manga Parimi

1. Title of the Project: Management of Distributed Energy Resources in Smart Cities: Challenges and Advanced Control Strategies

2. Funding Agency: Scheme for Promotion of Academic and Research Collaboration (SPARC)

3. Total Sanctioned amount: 42,55,900

4. Sanctioned date: 15.03.2019

5. Duration: 2 years

6.Thrust Area of the project: Convergence, Energy and Water Sustanibility

7. Keywords 3/4: Microgrid, Distributed Energy Resources, Electric Vehicle, Machine

learning,Intelligent Control

8. Abstract:

Smart cities are being planned and promoted in significantly large scale by not only the Government of India but also the Governments across the globe. A major challenge in executing the smart city project comes from devising a smart plan to cater to the energy need of the city. Efficient management of distributed energy resources (DERs) through the Community Micro- Grid (CMG) offers a potential means towards meeting such challenges. Community Microgrids connect critical loads and distributed energy resources multiple owners, There by presenting significantly new design goals, operating constraints and new business models. It integrates advanced sensing technologies, control methodologies and communicationtechnologies into current power distribution systems to provide electricity to the residents of the smart cities in the most efficient way.In the present project, an intelligent energy management system is proposed to provide balancedand quality power supply to consumers connected in CMG.

13. Dr. Thota Nagaraju

1. Title of the Project: Impact of the ex-gratia for farmers' suicide on the surviving family member of the deceased   farmers in Telangana

2. Funding Agency: ICSSR-IMPRESS

3. Total Sanctioned amount:420000/-

4. Duration:1years

14. Dr. Shaikshavali Chitraganti

1. Title of the Project: Feedback control of stochastic hybrid systems with state-dependent noise

2. Funding Agency: DST-Matrix

3. Total Sanctioned amount:660000/-

4. Duration:3years

15. Dr. K V S Shiva Chaitanya

1. Title of the Project: "Exceptional polynomials and their applications to Wigner Function

2. Funding Agency: SERB DST MATRICS

3. Total Sanctioned amount: 6.6 Lakhs

4. Sanctioned date: 22-Mar-2019

5. Duration: 3years

6.Thrust Area of the project: Mathematical Physics

7. Keywords 3/4: Differential equations, Exceptional polynomials and Wigner function

8. Abstract: 4/5 lines (Max.100 words): To construct a coherent state operator for the exceptional potential Harmonic oscillator Wigner function

16. Dr. Pavan Kumar Penumakala

1. Title of the Project: 3D printing of graphene nanocomposites for energy storage applications.

2. Funding Agency: DST

3. Total Sanctioned amount: 2430040/-

4. Duration:3years

5. Status: ongoing

17. Dr. Piyush Khandelia

1. Title of the Project: 'Probing the functional and regulatory role of m6A reversible RNA methylation in skeletal myogenesis and muscle wasting'

2. Funding Agency: DST-SERB

3. Total Sanctioned amount: 55.58 lakhs

4. Sanctioned date: 27th March 2019

5. Duration: 3 years (2019-2022)

6.Thrust Area of the project: Human Diseases

7. Keywords 3/4: Skeletal muscle, muscle wasting, RNA modifications, m6A RNA methylation

8. Abstract: The proposed project aims to undertake an unbiased transcriptome-wide interrogation of the role of m6A RNA methylation in skeletal muscle biology and associated disorders like muscle wasting.

Dr. Manab Chakravarty

1. Title of the Project: In search of unsymmetrically substituted anthracenyln π -conjugates as tunable mechanofluorochromic small molecules

2. Funding Agency: DST

3. Total Sanctioned amount: 2825160/-

4. Duration: 3years

18. Dr. Santanu Koley

1. Title of the Project: DST Inspire Faculty

2. Funding Agency: DST Inspire Faculty

3. Total Sanctioned amount: 3500000/-

4. Duration: 5years

19. Dr. Harish Dixit

1. Title of the Project: Studies and multiphysics simulation of mode converters for applications in Directed Energy Weapons (DEWs)

2. Funding Agency: DRDO

3. Total Sanctioned amount: 417720/-

4. Duration: 1years

20. Dr. Bandhan Bandhu M

1. Title of the Project: Development of Pedestrian Facility Assessment Tool for Improving Pedestrian's safety condition in Hyderabad

2. Funding Agency: AIA

3. Total Sanctioned amount: 100000/-

4. Duration: 1year

21. Dr. Biswanath Dash

1. Title of the Project: AP HRDI - Entrustment of Studies - Cyclone Titli

2. Funding Agency: Cyclone Titli

3. Total Sanctioned amount: 100000/-

4. Duration: 1years

22. Dr. Sounak Roy

1. Title of the Project: Zn Air Battery

2. Funding Agency: HBL

3. Total Sanctioned amount: 1350000/-

4. Duration: 2years

23. Dr. Arkamitra Kar

1. Title of the Project: Evaluation of the efficiency of bacterial inclusions in concrete

2. Funding Agency: Aliens Group Pvt. Ltd

3. Total Sanctioned amount: 1100000/-

4. Duration: 2years

24. Dr. Anasua Guha Ray

1. Title of the Project: 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)
2. Funding Agency: Indo-Austria Scientific and Technological Cooperation between WTZ (Austria) and DST (India)
3. Total Sanctioned amount: Rs. 6,39,500/
4. Sanctioned date: 07/05/2019
5. Duration: 2 years
6.Thrust Area of the project: Slope stabilisation : strength and erosion control
7. Keywords 3/4: Alkali Activated binder, Natural geotextile, tensile strength, surface erosion

8. Abstract: 4/5 lines (Max.100 words): · Testing a new Alkali Activated Binder (AAB) treatment method for natural fibers for improving their strength and durability. Carrying out geotechnical and material characterization of AAB treated natural fibers, plant roots and locally available soft soil.Comparing relative soil reinforcing efficiency of plant roots and AAB treated natural fiber, both individually and in combination. Evaluating the reduction of surface erosion and increase in strength of soft soil reinforced with treated natural fibers – plant root using a laboratory scale prototype of an embankment.

25. Dr. Swati Biswas

1. Title of the Project: Near-Infrared Light Degradable Nanomicellar Chemo-Photodynamic Therapy using AerobicChlorin e6 Conjugate for Oropharyngeal Carcinomas

2. Funding Agency: DST

3. Total Sanctioned amount: 3072360/-

4. Duration: 3years

26. Dr. Durba Roy

1. Title of the Project: High potency of complex dietary β-glucan fibers as Cholesterol and Low-Density Lipoprotein lowering agents: A comprehensive mechanistic investigation through advanced dynamical simulations.

2. Funding Agency: SERB-Core Grant

3. Total Sanctioned amount: INR 36.66 Lakhs

4. Sanctioned date: May 9, 2019

5. Duration: 3 years

6.Thrust Area of the project: : Modeling and Simulation of Carbohydrates to combat dyslipidemia, health, Swasth Bharath

 7. Keywords 3/4: *beta* -glucan, polysaccharides, cholesterol, molecular dynamics

8.Abstract: Carbohydrates and other complex polysaccharides feature more than 50% of our daily dietary intake. Apart from being the primary source of energy, certain forms of carbohydrate, like *b* -glucan having (1,3), (1,4) or (1,6) glycosidic linkages are also extremely beneficial in combating chronic diseases and modulating/blocking metabolic pathways, otherwise detrimental to health, e.g., cholesterol / LDL absorption in gut. Usually, *b* -glucan is a linear β -1,3 or β -1,4 linked polysaccharide, occasionally with β-1,6 side chains and composed solely of β-D-glucopyranosyl units. It is a natural ingredient of cell walls of cereals, e.g. oats and barley, bacteria and fungi with significantly varying chemical and physical diversity, depending on the source of extraction. *b* -glucan is widely investigated at the clinical level owing to its myriad of health benefits including lowering of serum cholesterol in the blood along with reduced glycemic and insulin responses. Owing to their high viscosity, these water-soluble polysaccharides are believed to trap cholesterol globules or Low Density Lipoprotein (LDL) entrapped cholesterol thereby preventing lipid absorption. Although clinical studies have proven beyond doubt the health benefits of *b*-glucan, the nonexistence of detailed molecular level studies of interaction of these polysaccharides with cholesterol or LDL particles, both experimentally and computationally, seems to be a major void in the current understanding of the mechanism. With an eye to contribute in this untapped area of fundamental biophysical chemistry, this project is aimed towards studying the complex carbohydrates extensively along with their interaction with cholesterol and other LDL particles using advanced molecular dynamics simulation techniques. Thrust will be given to investigate comprehensively the structure and physico-chemical characteristics of the complex ensemble of polysaccharides and lipid molecules in relation to the former's blood-glucose and cholesterol-lowering efficacy.

29. Dr. Santanu Prasad Datta

1. Title of the Project: Investigation on an Energy Efficient Regenerative Thermal Management Technique for Hybrid Electric Vehicles.

2. Funding Agency: DST

3. Total Sanctioned amount:2793710 /-

4. Duration: 3years

30. Dr. Balaram Ghosh

1. Title of the Project: Bifunctional Gene-Expression Modulating Chemotherapeutic Agents as Improved Treatment Strategy for Cancer.

2. Funding Agency: CSIR

3. Total Sanctioned amount: 2900000/-

4. Duration: 3years

31. Dr. Trinath Jamma

1. Title of the project: Deciphering the role of host-microbiota derived bile acids in programming immune cell function during intestinal inflammation

2. Funding Agency: CSIR

3. Total Sanctioned amount: 19,65,000 INR

4. Sanctioned Date: 17/05/2019

5. Duration: 3 years

6. Thrust area: Immunology, Cell Signaling and Metabolic Inflammation

7. Keywords: Colitis, dysbiosis, secondary metabolites

8. Abstract: Hyperactivation of intestinal immune cells due to environmental insults drive acute/chronic damage to gut epithelium. As a result, a breach in the barrier integrity if the gut leads to overall failure in gut immune homeostasis and inflammation associated malignancies. Interestingly, naturally occurring derivatives from bot the gut microbiota and host origin have been shown to exhibit immunomodulatory functions. So, we proposed to understand the functional role of one such group of metabolites in the context of monocyte-macrophage differentiation and effector functions.

32. Dr. Anupam Bhattacharya

1. Title of the Project: Design and synthesis of diverse pyrrole pyridine based molecules as selective sensors for Zn2+AND F-

2. Funding Agency: CSIR

3. Total Sanctioned amount: 1652940/-

4. Duration: 3years

33. Dr. Sabareesh G R

1. Title of the Project: Benchmark studies of tornado induced wind loads between different tornado simulators wordwide

2. Funding Agency: Research center of wind engineering

3. Total Sanctioned amount: 900000/-

4. Duration: 1years

34. Dr. Archana Srivastava

1. Title of the Project: Sustainability of Cashless Banking in Unorganized Retail Sector: A comparative study of two districts of Telangana

2. Funding Agency: IIBF (Indian Institute of Banking and Finance)

3. Total Sanctioned amount: 250000/--

4. Duration: 6months

35. Dr. Amrita Priyadarshini

1. Title of the Project: Machinability assessment and material characterization of tungsten heavy alloys used in defense applications as KE penetrators

2. Funding Agency: DRDO ARB

3. Total Sanctioned amount: 1478900/--

4. Duration: 3years

36. Dr. Jagadeesh Anmala

1. Title of the Project: Experimental and Computational Studies of Surface Water Quality Parameters from Morphometry and Spectral Characteristics

2. Funding Agency: CSIR

3. Total Sanctioned amount: 42.0 lakhs

4. Sanctioned date: 22/7/2019

5. Duration: 3 years

 6.Thrust Area of the project: Environmental Engineering

7. Keywords 3/4: water quality, morphometry, spectral characteristics, GIS, neural networks

8. Abstract: The modeling of stream water quality of Indian rivers have been a serious concern due to the contribution of domestic sewage and untreated effluent discharges in spite of regulations. A solution to this problem could be to predict the water quality from easily measurable parameters from the source area. The present proposal envisages a modeling framework to predict stream water quality for typical Indian streams/rivers using morphological characteristics of the basin and spectral parameters (information from Satellite imagery) using wavelet neural networks.

37. Dr. Balaji Krishna Murthy

1. Title of the Project: Modelling the capacity loss in lithium ion batteries during cycling

2. Funding Agency: CSIR

3. Total Sanctioned amount: 1800000/--

4. Duration: 3years

38. Dr. I Sreedhar

1. Title of the Project: Waste Minimization and Carbon Capture with Coal Flyash Doped Sorbents- A Two Edged Sword

2. Funding Agency: CSIR

3. Total Sanctioned amount: 2000000/--

4. Duration: 3years

5. Status: ongoing

39. Dr. K S Raju

1. Title of the Project: Rainfall-Runoff modelling for lower godavari basin in a changing climate

2. Funding Agency: CSIR

3. Total Sanctioned amount: 1600000/-

4. Duration: 3years

40. Dr. Y V D Rao

1. Title of the Project: Automation of sample preparation process for   pharmaceutical Applications

2. Funding Agency: Aizant Drug Research Solutions Pvt. Ltd.

3. Total Sanctioned amount: 1548000/--

4. Duration: 8months

41. Dr. Sujith R

1. Title of the Project: Lithium-ion batteries based on Si anodes

2. Funding Agency: HBL Power Systems Ltd

3. Total Sanctioned amount: Rs. 11,90,000/-

4. Sanctioned date: 26/06/2019 (Started on 1st August 2019)

5. Duration: 2 years

6.Thrust Area of the project: Energy.

7. Keywords 3/4: Lithium-ion batteries, Graphene, Energy.

8. Abstract: 4/5 lines (Max.100 words): In this project, we are exploring the possibility of using Si-based anode for lithium-ion batteries. The anode materials will be synthesized via polymer to the ceramic route. The ceramics will have an amorphous structure with inherent free carbon. Additionally, graphene is added to the system to improve the overall electrical conductivity of the ceramic anode. This new material system is expected to enhance the charge capacity of the existing system. Also, it is expected to overcome the concern of large volume expansion in silicon systems due to its essential open structured nature.

42. Dr. Sridhar Raju

1. Title of the Project: Field evaluation studies to study the effect of bitumen aging on the quality and quantity of bitumen over passage of time in bituminous pavement

2. Funding Agency: Department of Roads & Buildings, Government of Telangana

3. Total Sanctioned amount: Rs. 9,90,000/- (Rupees Nine lakhs and ninety thousand only)

4. Sanctioned date: 27th May 2018

5. Duration: 2 years

6. Thrust Area of the project: Bituminous materials for long lasting pavements.

7. Keywords 3/4: Aging, bitumen, aggregates, gradation.

8. Abstract: 4/5 lines (Max.100 words)

   Premature failure of bituminous pavements has been observed in a few of the bituminous pavements due to aging of bitumen. The contractors are of the opinion that the bitumen is reducing over the passage of time and that is the cause of the premature failure. The road researchers have concluded that the effect of premature failure is due to aging of bitumen. Hence, to understand the effect of aging on quality and quantity of bitumen over passage of time and traffic, the study has been taken up. The cores shall be taken from three road sections and analyzed.

43. Dr. Sridhar Raju

1. Title of the Project: Semi field study to evaluate the efficacy of Geocomposite layer in place if conventional Granular Sub-base layer

2. Funding Agency: M/s Strata Geosystems, Mumbai

3. Total Sanctioned amount: Rs. 4,00,000/- (Rupees four lakh only)

4. Sanctioned date: 16 th December 2019

5. Duration: 1 year

6. Thrust Area of the project: Cost effect sub-surface drainage layer.

7. Keywords 3/4: drainage, water damage, long lasting pavement.

8. Abstract: 4/5 lines (Max.100 words)

Premature failure of bituminous pavements has been observed in most of the flexible pavements due to poor sub-surface drainage layer. Generally, the granular sub-base(GSB) is used as the sub-surface drainage layer in most of the highway pavements. In this study, a 20 mm thick geo-composite layer (GCL) shall be used in place of GSB as a sub-surface drainage layer. The experimental studies shall be carried out to demonstrate the advantages of GCL over GSB. Also, a semi field studies shall be carried to find the effect of wheel loads on the sub-grade and 20 mm GCL.

44. Dr. Punna Rao Ravi

1. Title of the Project: Pharmacokinetic Evaluation of Ocular In-Situ Gelling Systems Loaded with treatment of posterior uveitis.

2. Funding Agency: BMS

3. Total Sanctioned amount: 340000 /--

4. Duration: 1years

45. Dr. Pradyumn Kumar Sahoo

1. Title of the Project: Cosmic acceleration with observation constraints of the universe in modified gravity

2. Funding Agency: CSIR

3. Total Sanctioned amount: 2040528 /--

4. Duration: 3 years

46. Dr. Sanket Goel

1. Title of the Project: Cardiac-Organ -On-Chip: Integrated microfluidic cardiac platform for drug screening and toxicity detection

2. Funding Agency: DST

3. Total Sanctioned amount: 4375800/--

4. Duration: 3years

47. Dr. Onkar Kulkarni P

1. Title of the Project: Functional role of histone deacetylase 6(HDAC6) in the progression of oral squanous cell carcinoma: regulation of II beta expression /autophagy and epithelial mesenchymal transition

2. Funding Agency: ICMR

3. Total Sanctioned amount: 3500000/--

4. Duration: 3years

48. Dr. Mohan S C

1. Title of the Project: Seismic certilication for our rangb of racks based on certification of 3 step 2 tier rack

2. Funding Agency: HBL

3. Total Sanctioned amount: 118000/-

4. Duration: 1years

49. Dr. Himanshu Aggarwal

1. Title of the Project: Synthesis of highly stable Zr-based mixed -linker metal-organic frameworks (MOFs) for humidity control and gas separation

2. Funding Agency: DST

3. Total Sanctioned amount: 2198183/-

4. Duration: 2years

50. Dr. Nirmal J

1. Title of the Project: Pharmacokinetic and pharmacodynamic evaluation of new chemical entities for ocular diseases

2. Funding Agency: Incilia Therapeutics Pvt.Ltd

3. Total Sanctioned amount: 814200/ --

4. Duration: 1years

6.Thrust Area of the project:

Project 1 New drug development

Project 2 Drug delivery

7. Keywords 3/4:

Ocular drug delivery, diabetic retinopathy, new chemical entity

8. Abstract: 4/5 lines (Max.100 words)

Our research focus is to understand the biological barriers and to overcome it using drug delivery

systems for delivering "Right concentration of drug at right site of action (Optimum Therapeutics)".

51. Dr. Angan Senguta

Title: "Designing of Potential Adsorbents via Molecular Modelling and Simulations for the High Temperature Carbon Dioxide Capture"

Funding Agency: DST-SERB

Total Sanctioned Amount: 2195220 INR

Sanctioned Date: 05/12/2019

Duration: 24 months

Thrust Area: Molecular Modelling and Simulations for material development

Keywords: Carbon capture, Environment, Energy

Abstract: Present work contributes to the estimation of adsorption capacity of CO_2 inside various modified adsorbents at elevated temperature and pressure conditions using molecular simulation approaches. This work will shed light for material scientists to develop material for CO_2 capture from flue gas mixtures.

52. Dr. Bandhan Bandhu M

1. Title of the Project: Development of a comprehensive methodology to improve traffic safety in Indian urban roadways based on advanced statistical techniques

2. Funding Agency: DST

3. Total Sanctioned amount: 1139880/--

4. Duration: 2years

53. Dr. Suchismita Satpathy

1. Title of the Project: Structured Dialogues for Sustainable Urban Water Management

2. Funding Agency: Department of Science and Technology (DST) India

3. Total Sanctioned amount: INR 57,26,400/

4. Sanctioned date: 28th November 2019

5. Duration: 5 years

6. Thrust Area of the project: Anthropology of water

7. Keywords 3/4: urban water, water treatment, quality assessment, life cycle analysis, ethnographic

understanding of water resource etc.

8. Abstract: 4/5 lines (Max.100 words):

The project titled Structured Dialogues for Sustainable Urban Water Management (SDSUWM) aims to examine the water related issues in Indian cities specifically Jaipur, Visakhapatnam, Madurai. These cities are fast-growing with constrained capacities to plan and manage access to quality drinking water. Water being a part of culture; scarcity and abundance of this resource need attention from multiple stakeholders and researchers to ensure preparedness for future uncertainties. This work package focuses on developing an ethnographic understanding of the urban water management, taking into account access, equity, quality, awareness, and participation aspects of urban water issues. It involves identification of local technologies and replicability, dissemination of best practices, area-wise capacity building, providing quality report in the water bills, expenditure recovery techniques. It will use inter-disciplinary methods to co-create mechanisms to deal with urban water problems.

54. Dr. Jabez Christopher

1. Title of the Project: Interpretation of Tuberculin Reaction Using Medical Photography and Computer Aided Diagnosis

2. Funding Agency: DST-SERB

3. Total Sanctioned amount: 9,94,000

4. Sanctioned date: 19 November, 2019

5. Duration: 2 years

6.Thrust Area of the project: Image Processing in Clinical Diagnosis

7. Keywords: Medical Photography, Mantoux Test, Mobile App Development

8. Abstract:

In this project, Medical photography (not medical imaging) is primarily used to record Tuberculin skin test images. The images captured from the forearm are processed for extracting relevant features. The image of the forearm and the relevant features are recorded twice: first, at the time of injecting the tuberculin fluid into the skin; finally, after 48 hours from the time of injection.The patient sends the image and the extracted Geometric features of the wheal to the health care worker who analyses the difference in the wheal. Using CAD would eliminate the error and bias involved in the process of medical observation; moreover, the patient need not report to the health centre in person.

55. Dr. P K Sahoo

1. Title of the Project: Cosmic acceleration with observational constraints of the universe in modified gravity

2. Funding Agency: CSIR

3. Total Sanctioned amount: 20,40,528

4. Sanctioned date: 02-08-2019

5. Duration: 3 years

6.Thrust Area of the project: Study of the universe

7. Keywords 3/4: Cosmic aceleration, modified gravity, Dark energy, Observational parameters

8. Abstract: 4/5 lines (Max.100 words) Cosmology at present is going through an interesting phase. A large number of precise data related to SNe Ia, BAO, CMBR and large scale structures is pouring in. In the near future, it is expected that it would be able to pinpoint the precise role of Dark Energy in cosmic acceleration. Hence, the Dark Energy model building and observational constraints acquire a special importance. In this project we propose to put observational constraints on Dark Energy cosmological models using the following observational tools: Luminosity distance of SNe Ia, BAO, CMBR, Look back time of old high redshift objects and age of the Universe.

9. RESEARCH RELATED SEMINAR/ WORKSHOP CONDUCTED DURING THE YEAR 2019.

Pilani Campus

1. Mini-colloquium on Emerging and Interdisciplinary Areas of Biological Science Research, organised by Department of Biological Sciences on 2nd March 2019.

2. Department of Mathematics organized Indo-French Research Workshop on "Theory and Simulation of Hyperbolic PDEs arising in Mathematical Biology and Fluid Flow" on January 05th -11th , 2019

3. Department of Mathematics organized International Workshop on Stochastic Simulation and its Applications (WSSA 2019) on December 24-27, 2019

4. Department of Mathematics organized International Conference and 22nd Annual Convention of Vijnana Parishand of India on Advances in Operations Research, Statistics and Mathematics (AOSM 2019) December 28-30, 2019

5. Department of Mechanical Engineering organized 3rd Indo-German Conference on Sustainability in Engineering: Enhancing Future Skills and Entrepreneurship, Pilani on 16 to 17, Sept., 2019.

6. Carbon Nanomaterial Electronics organized by Department of EEE on 8th – 9th November, 2019

7. Department of Chemical Engineering organized 4th Workshop on Analytical Instruments for Chemical and Environmental Engineers (WAICEE-2019) on March 25-26, 2019.

8. 2nd International Workshop on Applied Machine Learning organized by Dept. of CSIS on February 04-08, 2019.

9. 3rd Indian Workshop on Applied Deep Learning organized by Dept. of CSIS on Dec 15-18, 2019.

10. Blockchain Technology and Applications organized by Dept. of CSIS on Nov. 10, 2019.

11. One Day Symposium on National Mathematics Day organized by Department of Mathematics on December 22, 2019.

12. National Workshop on Power Electronics Applications and Real-time Implementation organized by Dept. of EEE on 18th – 19th January, 2019

Goa Campus:

1. Dr. Parichay Patra and Dr. Amitendu Bhattacharya: International Conference on 'Region/Nation/Trans-Nation: Literature-Cinema Interface' Department of Humanities and Social Science BITS Pilani K K Birla Goa Campus from 31st Jan - 2nd Feb 2019.

2. Dr. Veeky Baths: 3rd International Conference of 'ARWA: Association for Reading and Writing in Asia', Department of Biological Sciences BITS Pilani K K Birla Goa Campus from 27th Feb - 1st March 2019.

3. Dr. Veeky Baths: 2nd workshop on 'Open Innovation in Community Based Rehabilitation (CBR) for People with Disabilities (PWD)' and an Interdisciplinary Design Hackathon Department of Biological Sciences BITS Pilani K K Birla Goa Campus from 5th to 17th March 2019

4. Dr. Rajiv Kumar Chaturvedi & Prof. Reena Cheruvalath: Conference on Role of forest ecosystems in meeting SDGs and Climate Goals in South Asia, Department of Humanities and Social Sciences, BITS Pilani K K Birla Goa Campus on 9th May 2019.

5. Prof. Mridula Goel: A roundtable of Startup Promotion Cell and Incubation Managers in Goa, BITS BIRAC BioNEST, BITS Pilani K K Birla Goa Campus on 15th May 2019.

6. Prof. Mridula Goel: A workshop on BIRAC's Biotechnology Ignition Grant (BIG) scheme, BITS BIRAC BioNEST, BITS Pilani K K Birla Goa Campus on 17th May 2019.

7. Prof. Mridula Goel: Workshop on Basic Molecular Biology Laboratory Tools and Techniques, BITS BIRAC BioNEST, BITS Pilani K K Birla Goa Campus 9th to 13th July 2019.

8. Prof. Mridula Goel: A three-day workshop on 'Industrial Bioprocess and Bioreactor Operations' BITS BIRAC BioNEST, BITS Pilani K K Birla Goa Campus from 25th – 27th July 2019.

9. Prof. Veeky Baths: Sixth Annual conference of the Association for Cognitive Science 2019, Department of Biological Sciences, BITS Pilani K K Birla Goa Campus from 10th - 12th Dec 2019.

10. Prof. K R Anupama: IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS) 2019 on "BCET- Bridge to Connect EveryThing" Department of Electrical & Electronics Engineering, BITS Pilani K K Birla Goa Campus from 16th - 19th Dec 2019.

11. Prof. Arun V Kulkarni: Workshop - IAPT-UGCP (Indian Association of Physics Teachers) Undergraduate Camp in Physics, Department of Physics, BITS Pilani K K Birla Goa Campus from 19th - 22nd Dec 2019.

12. Prof. Mainak Banerjee & Prof. Amrita Chatterjee: New Frontiers in Chemistry- from Fundamentals to Applications (NFCFA 2019) Department of Chemistry, BITS Pilani K K Birla Goa Campus from 20th - 22nd Dec 2019.

13. Prof. Sanjay K. Sahay (General Chair): International Conference on Secure Knowledge Management in Artificial Intelligence Era Department of CS&IS BITS Pilani K K Birla Goa Campus from 21st - 22nd Dec 2019.

14. Dr. Rajorshi Sen Gupta: Faculty Development Program(FDP) at BITS Pilani Goa Campus from FDP 1 from 13th – 14th September 2019 & FDP II from 20th – 21st September 2019

Hyderabad Campus

1. Sustainable Processes in Civil and Chemical Engineering (SPCCE 2019) organized by Department of Civil Engineering, BITS Pilani, Hyderabad Campus, November 15-16, 2019.

2. International Conference on Drug Discovery 2020, by Department of Pharmacy, BITS Pilani Hyderabad Campus, Feb 29-March 02, 2020

3. The 30th meeting of the Indian Association for General Relativity and Gravitation" 3-5 Jan 2019, Department of Physics Hyderabad Campus

4. Jointly organized by HSS Hyderabad and NALSAR, Hyderabad at NALSAR Hyd. Campus winter School on Fostering Research in Disability 16-21 DEC 2019, by Department of Humanities and Social Sciences, BITS Pilani Hyderabad

5. Chemistry Day (in-house symposium) was celebrated 5-Jan 2019 by Department of Chemistry, BITS Pilani Hyderabad Campus

6. National Symposium on Convergence of Chemistry and Materials 2019, Dec 17-18,2019, by Department of Chemistry, BITS Pilani, Hyderabad Campus.

7. A RSC workshop on "RSC - Meet the Editor" 1st Nov 2019, by Department of Chemistry, BITS Pilani, Hyderabad Campus.

8. Technology in the Service of Mind, Body, and Spirit- A Perspective on Disease Prevention 7-16Jan 2019, by Department of Biological Sciences, BITS Pilani, Hyderabad Campus.

9. Biopsychosocial, Cultural, Political, and Spiritual Perspectives on Food for the Mind, Body, and Spirit 8-17 Jan 2019 by Department of Biological Sciences, BITS Pilani, Hyderabad Campus

10. Workshop on Refrigeration & Air-conditioning (ISHRAE –AICTE) 16-20 Dec 2019, by Department of Mechanical Engineering, BITS Pilani, Hyderabad Campus.

11. A Workshop on Fuzzy Logic & Applications in Civil Engineering 15-16 March 2019, by Department of Civil Engineering   Hyderabad Campus.

12. Department of Pharmacy organized Current trends in Pharmaceutical sciences 2019 (CTPS-2019) on. Four industrial experts were invited for presentations during CTPS-2019.19-20 October 2019.

13. BITS Pilani Hyderabad-Department of Pharmacy & SHIMADZU Organized 4 days' workshop on Exploring Chromatography & Mass Spectrometry from 16-19th Dec 2019.

Dubai Campus

1. Dr.Abdul Rajak, Dr.Jagadish Nayak, Dr.Vilas H Gaidhane, Dr.Raja Muthalagu &Dr.Nilesh Goel of EEE department along with student volunteers conducted a one day workshop for school students on Feb 3rd 2018 from 9 am to 3 pm and the topic was "Build and Control your own robot" . The school students were given hands on training of building a Robot from the scratch and controlling a Robot using Arduino board in signal processing and simulation lab.

2. MATLAB workshop was conducted by Dr.V.Kalaichelvi on 1.03.2018 from 4.30 pm to 6 pm in the signal processing and Simulation Lab.

3. For Institution of Engineers Series Workshop, Dr.V.Kalaichelvi has conducted SIMULINK workshop in the Signal Processing and Simulation Lab on March 20th 2018 from 1 pm to 1.50 pm.

4. EEE dept conducted a comprehensive workshop for school children on 28.3.3018. Dr.Abdul Rajak, Dr. Chattopadyay, Dr.Jagadish Nayak, Dr.V. Kalaichelvi, Dr.Swarnalatha, Dr.Vilas, Dr.Shazia & Dr.Sunil Thomas along with AOEE student volunteers have engaged all school students for the demonstration of hands on experiments: Wheel-E: Bluetooth Controlled Arduino based Obstacle Avoidance Robot (Instrumentation Lab); Flashing of LEDs using Arduino (Instrumentation Lab); Side Band Transmission and Reception (Communication Lab); Dancing Lights using IC 74LS74 (DD lab); Testing of ping Sensor using IC555 in Astable Mode (DD Lab); No Load Test on Three Phase Induction Motor (Electrical Machines Lab).

5. Dr. A.B.Chattopadyay, Dr.Abdul Rajak, Dr.Jagadish Nayak, Dr. V.Kalaichelvi, Dr.Swarnalatha Dr.Vilas, Dr Raja Muthalagu, Dr.Sunil Thomas along with student volunteers conducted school students' workshop and the hands on experiments were demonstrated from all EEE labs on 16.04.2018 from 1 pm to 3.40 pm: Wheel-E:Bluetooth Controlled Arduino based Obstacle Avoidance Robot(Instrumentation Lab); Four way Traffic signal using Arduino UNO (Instrumentation Lab); Single Side Band Transmission and Reception (Communication Lab); Lights using IC 74LS74 (DD lab); Testing of ping Sensor using IC555 in Astable Mode (DD Lab); No Load Test on Three Phase Induction Motor (Electrical Machines Lab).

6. The following workshops were conducted in student preparation for job interviews.
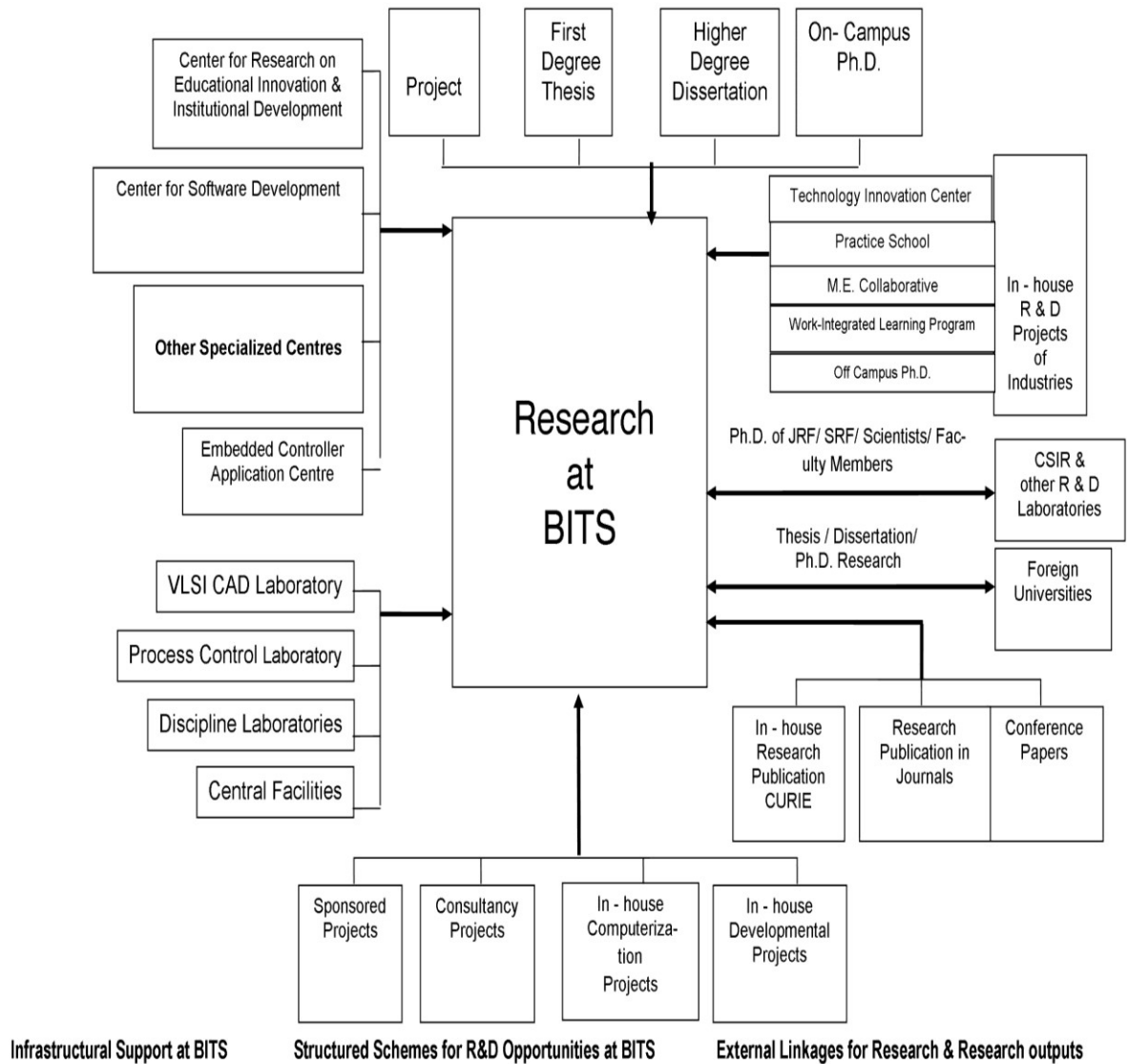
Date	Faculty	Topic
24th March 2018	Dr Shazia Hasan	Digital Electronics and Microprocessors
	Dr Mary Lourde	Mathematics for Electrical Engineers - A network analysis perspective
	Dr Jagadish Nayak	Signal and Image Processing Applications
31st March 2018	Dr A.B. Chattopadhyay	Applications of Electrical Machines and Drives
	Dr Gomathi Bhavani	Sustainable Buildings
	Dr Nilesh Goel	Solar Photovoltaic Systems
7th April 2018	Dr R. Swarnalatha	PLC, Conventional & Intelligent Controllers
	Dr V. Kalaichelvi	Process Control,Neural Networks and Fuzzy Logic for modeling and control
14th April 2018	Dr Sunil Thomas	Basic Electrical Engineering Concepts
	Dr Vilas Gaidhane	Analog Electronics
	Dr Abdul Rajak	Microelectronic Circuits, EM theory, communication Systems
17th March 2018	Dr Anand Kumar	Data Analytics
	Dr Anand Kumar/Dr Raja M	Comp. Networks(CCNA Based)

7. Dr. Anand Kumar, Dr.Jagadish Nayak, Dr.V.Kalaichelvi, Dr.Vilas, Dr.Raja Muthalagu & Dr.Shazia organized a school students workshop along with student volunteers and the following hands on experiments were demonstrated from EEE department on.17.10.2018 from 1pm to 3.40 pm: Build your own drones (Power Electronics Lab and Signal Processing and Simulation Lab); Single Side Band Transmission and Reception (Communication Lab); Dancing Lights (Instrumentation Lab); Level Process Control (Instrumentation Lab).

8. Dr. Anand Kumar, Dr.Jagadish Nayak, Dr.V.Kalaichelvi, Dr.Vilas, Dr.Raja Muthalagu & Dr.Shazia along with student volunteers have actively involved for one day workshop conducted for school students on "Build and Control your own robot" The workshop was conducted in Signal Processing and Simulation Lab on Nov 3rd 2018 (Saturday) from 9 am to 3 pm.

9. International conference on Recent Advances in Fluid and Thermal Sciences 2018 (iCRAFT2018), Dec 5-7, 2018 (Dr Shashank Khurana, Dr R Udayakumar and Dr MVN Sankaram)

10. BITS Pilani, Dubai campus invites delegates from academia and industry to be a part of two days of International Conference on Recent Advances in Fluid and Thermal Sciences (iCRAFT 2018), which started from 5th December 2018 and ended on 7th December at their Dubai Campus.

11. The conference aimed to bring together the leading academic scientists, researchers and research scholars to exchange and share their experiences and research results about all aspects of Mechanical Engineering. It also provides the premier interdisciplinary forum for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns, practical challenges encountered and the solution adopted in the field of Mechanical Engineering. The Conference covered various topics of interest including Bluff Body and High-speed Flows, Microscale Transport, Hydraulics and Turbomachinery, Conduction and Convection, Renewable Energy, Alternate Fuels and Sustainability.

12. Over the course of 3 days, 5 Speakers of Eminence marked their presence, together with the presentation of 76 technical papers and 22 Posters, by delegates from key universities of USA, UAE, India, Russia, Saudi Arabia, and South Africa, with an overall participation of more than 120 delegates.

13. School Workshop, Discovering DNA conducted on 18th October, 2018

10. Patents filed/published and granted during 2019.

S.No.	Application Number	Title of Application	Inventors	Campus
1	201941002679	Compounds for use as anti-cancer agents and a process for synthesizing the same	Jayanti Subbalakshmi	Hyderabad
2	201911003889	Larvicidal Formulation And A Process For The Preparation Thereof	Aatish Paul, Pracheta Sengupta, Sanjeev Kumar	Pilani
3	201911004346	Sorally Active Nanoformulation Of Lisofylline And Composition Thereof	Anupama Mittal, Kishan Shamjibhai Italiya, Samrat Mazumdar	Pilani
4	201911004347	Microfluidics Based Integrated System For Nittrite And Nitrate Detection And Analysis	Sanket Goel	Hyderabad
5	201911006301	Synthesis Of New Triazolyl Linked Bile Acid Aryl Ketones	Rajeev Sakhuja, Devesh S Agarwal, Deepak Chitkara, Samrat Mazumdar	Pilani
6	201911008791	An apparatus for determining gas permeability of concrete and method thereof	Bahurudeen	Hyderabad
7	201911011317	A Lyotropic Liquid Crystalline Nanoparticles Based Hydrogel Of Voriconazole For Topical Application	Gautam Singhvi; Patil Shalini; Rapalli Vamshi Krishna; Dubey Sunil Kumar; Girdhar Vishal	Pilani
8	201911011261	A Co-Chlorination Process For Paraffins And Poly-Olefins	SRINIVAS KRISHNASWAMY: MORE VINOD KADU :SINGH MADAN KUMAR : GANVIR VIVEK :PONNANI KRISHNASWAMY	Goa
9	201911011318	Lipidic Nanocarriers Embedded Topical Preparation Of Pde4 Inhibitors	Gautam Singhvi; Rapalli Vamshi Krishna; Dubey Sunil Kumar; Saha Ranendra Narayan	Pilani
10	201921011315	A laptop bag with an integrated laptop stand	Rathnagiri Sairam Kaushik	Goa
11	201911012057	An Apparatus For Turning A Page of A Book	Pravin Singh	Goa
12	201921013172	Method and apparatus for measuring the water-permeability of concrete	Abdul Salam, Bahurudeen: Ravichandran, Anand Kumar:Gopinath, Athira: V Sukumar, Vishnu	Hyderabad
13	201921016099	A process and an apparatus for continuous freeze crystallization	Srinivas Krishnaswamy: Parul Sahu: Dr. Krishnaswamy Neelakantan Ponnani: Nawal Kishore Pande: Parivesh Chugh	Goa
14	201911018953	A method for determining A1/A2 genotype of milch animals	Yadav Sushil Kumar: Radhakrishnan Mahesh: Saxena Vishal	Pilani
15	201911016252	A load simulator for testing winch machine	Vishweshwar Samba: Kesar Mal Kothari: Dr. R. Udayakumar: Dr. R. Karthikeyan	Dubai
16	201911020063	Novel rhodamine B amides and processes for preparing the same	Jayanty Subbalakshmi: B. Himabindu: Ghosh Balaram: Bobde Yamini	Hyderabad
17	201911031680	System and method for embedding knowledge in an image database	Poonam Goyal	Pilani
18	201911031681	System and method for embedding knowledge in an image database	Poonam Goyal	Pilani
19	201911034573	A portable handheld electrochemical discharge machining device	Sachin Waigaonkar	Goa
20	201911034571	Compounds for the treatment of inflammation and processes for preparing the same	Yogeeswari	Hyderabad
21	201911034570	A muco-adhesive polymeric micellar structure and process for preparing the same	Swati Biswas	Hyderabad
22	201911034572	A liquid volume regulating apparatus comprising a novel valve	Bahurudeen	Hyderabad

S.No.	Application Number	Title of Application	Inventors	Campus
23	201911049248	Smartphone enabled Miniaturized Viscometer with Paper Microfluidic strip	Sanket Goel	Hyderabad
24	201911050058	A porous scaffold composition for tissue regeneration and method of preparing the same	Aniruddha Roy Swati Sharma	Pilani

Infrastructural Support at BITS   Structured Schemes for R&D Opportunities at BITS   External Linkages for Research & Research outputs

IV. INFRASTRUCTURE FOR RESEARCH

The Institute over the years has built up a moderate infrastructure for research work. Apart from the normal laboratory facilities in all the disciplines, the Institute has also built up centralized infrastructural facilities for the support of research work across the Institute. Some of these are described below:

Each department has been allotted budget for purchasing equipment/develop ICT infrastructure etc. These are required to cater to the specific needs of the department. The details are elaborated in the departmental evaluative reports.

Central Analytical Lab

The Institute provides budget for a central instrumentation facility named as Central Analytical lab (CAL lab) in each campus. This houses the major research equipment's needed in sciences and engineering disciplines. The equipment purchased through this fund are utilized by multiple departments and hence housed at a central Approximately, 15 crores have been allotted to the 3 Indian campuses in the recent past for procurement of high end equipment's and for improving the research infrastructure. University has also allocated funds for each campus for high cost, sophisticated equipment under the Central Instrumentation facility like NMR, SEM, AFM, XRD, confocal microscope, Raman Spectroscopy,LC-MS etc.

High Performance Computing Facility & Cloud Computing

Kosambi: A University-wide Internet-accessible High Performance Computing Facility at BITS Pilani, K K Birla Goa Campus. It currently comprises of 96 cores HPC machine from IBM with one head node and 6 compute nodes. Currently faculties will have login (on request basis) and can manage their account through remote login. Faculty colleagues in K. K. BIRLA Goa campus are already using this facility, along with a few from other campuses. The HPC Admin Team at Goa campus will be enabling this as a cloud computing facility to Pilani and Hyderabad shortly. Software(s) currently available in Kosambi are: OS - Red Hat Enterprise LINUX - 6.3 IBM CMM (Cluster Management Module) Mathematica 9.0 and other regular default RHEL open source software(s).

ICT Facility

Information Processing Center takes care of the IT related requirements of the entire campus. IPC maintains terminal rooms (Labs) to provide centralized computing facilities to the students and laboratories for teaching and research needs of Computer Science Department. These labs/terminal rooms are well equipped with desktops and work stations. Campus-wide network with dataports, wired and Wifi connectivity is maintained so as to ensure internet facility at all hostel rooms, cafeteria, library, staff quarters, and all laboratories within the campus. Some departments have independent computational labs with network clusters to take care of their specific research needs. For eg: Chemistry/Pharmacy/Biological Sciences have labs for research work pertaining to computer aided drug design and Bioinformatics etc..

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, electroconvulsiometer, 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.

The Institute has set up a number of centers and laboratories of research & development as given below-

S.No	Name of the Centre	Description
1.	Anuradha and Prashanth Palakruthi Center for Artificial Intelligence Research (APPCAIR)	AI as an idea goes back at least two millenia, and can trace its modern roots to pre-1950 work on computation and mathematical models for neuroscience. Since then, the field has overcome great challenges and we are now at a point where AI techniques-especially data-driven ones-are expected to play an important role in the Sciences, Engineering, Business and the Humanities. APPCAIR's research will be lo looking to make conceptual contributions to AI; and to the application of AI to problems of industrial, scientific and social importance.
2.	Center for Biotechnology	The Centre has in-house facilities of Genetic Engineering and Recombinant-DNA Technology. This Centre aims at taking up research and development projects from various sponsoring organizations, (establishments of University-Industry linkage) through various R&D contract projects and conducting periodic Workshops and hands-on training for faculty members, industry personnel and students in the area of advanced molecular biology/biotechnology and bioinformatics.
3.	Centre for Desert Development Technologies (CDDT)	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.
4.	Centre for Educational Technology (CET)	Its focus is on E-learning delivery systems, related web-services, live and stored video streaming as current thrust areas. Its mandate is to identify suitable educational technology solutions for on-campus, as well as off-campus, operations of the Institute and helps in their deployment.
5.	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.
6.	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 the Indian Industry competitive by developing indigenous technical skills, manpower and innovative spirit.
7.	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.
8.	Centre for Software Development (CSD)	The Centre for Software Development (CSD) is the first of the two major centres that comprise the newly formed Software Development and Educational Technology Unit (SDET Unit) at BITS-Pilani. The CSD has two wings, namely, the Media Laboratory and the Laboratory for Open Source Computing. Recently, as part of restructuring, the erstwhile Laboratory for Mobile Computing was made a constituent research laboratory of the Department of Computer Science & Information Systems., under the new name of Wearable, Pervasive Computing Networking Research Laboratory.
9.	Embedded Controller Application Centre	This Centre was 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 of 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 by developing course modules for these courses

S.No	Name of the Centre	Description
10	Technology Business Incubator (TBI)	TBI promotes developing technology- enabled ventures in the areas of Information and Communication Technologies for telemedicine and healthcare, Biotechnology/Pharmaceutics Embedded systems, VLSI and other areas. Also TBI, supports entrepreneurial leadership across all disciplines, facilitates entrepreneurial activity amongst students, and invites entrepreneurs to use TBI services so as to develop end-products for commercialization
11	CORE	A virtual centre on interdisciplinary research in waste, water and energy management has been created to encourage technology/product development, real life problem solving in comprehensive manner. Internal fund is provided to 5 projects comprising research teams of cross campus and multidiscipline researchers.
12	TLC	TLC has been formed for the professional development of BITS faculty as well as non- teaching academic staff associated with teaching activities (laboratory technicians, demonstrators). The TLC also aims to engage research in various aspects in teaching and learning. Further, to bring best practices in teaching and learning across the globe, and share their experiences through direct or indirect modes are some objectives of this centre.
13	Centre for water resources	The centre for excellence in water resources management (CEWRM) was established in Hyderabad campus as national regional/ international centre to provide innovation in sustainable research, education and training in water resources management and allied fields.
14.	Rotational Moulding Centre for Education and Research (RMCER)	To provide for and promote education and research through joint industry-academia partnership in the area of rotomoulding, undertake industry relevant R&D projects, solve industry problems provide testing services, undertake consultancy, develop innovative prototype and products, new design and developments.

Completed Doctoral Theses 1964-2019

This annexure presents discipline wise classification of various Ph.D. theses and the number of Ph.D. degrees awarded year wise since 1964.

Discipline wise classification of Doctoral Degrees Completed:

S.No.	Discipline	Total
1.	Biological Sciences	251
2.	Chemical Science & Engineering	43
3.	Civil Engineering	52
4.	Computer Science	102
5.	Economics	25
6.	Educational Development	16
7.	Electrical, Electronics, Communication & Instru. Engineering	114
8.	Humanities & Social Sciences	60
9.	Management	107
10.	Mathematics	41
11.	Mechanical Engineering	104
12.	Pharmacy	178
13.	Physics	84
14.	Chemistry	136
15.	Hospital and Health System Management	04
	Total	**1317**

Number of Ph.D. degrees submitted and awarded year-wise:

Year	No. of PhD's	Year	No. of PhD's	Year	No. of PhD's
1965	3	1984	6	2003	18
1966	5	1985	3	2004	23
1967	5	1986	2	2005	26
1968	8	1987	0	2006	36
1969	16	1988	3	2007	32
1970	13	1989	2	2008	37
1971	13	1990	8	2009	36
1972	17	1991	7	2010	33
1973	7	1992	7	2011	35
1974	13	1993	17	2012	37
1975	11	1994	12	2013	46
1976	14	1995	15	2014	54
1977	16	1996	23	2015	81
1978	13	1997	21	2016	115
1979	10	1998	15	2017	105
1980	5	1999	7	2018	106
1981	11	2000	9	2019	121
1982	7	2001	11	**Total**	**1317**
1983	6	2002	15		

Completed Higher Degree Dissertations - 2019

HDD

SEM-II 2018-19

Pilani Campus

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2017H1290014P	Mansi Tiwari	Study in metabolic memory in diabetes	Syamantak Majumder	Biological Sciences
2	2017H1290019P	Sayan Basu	Study the effect of pulsatile glucose in diabetes progression	Syamantak Majumder	Biological Sciences
3	2017H1290013P	Arushi Rai	Neurodegenerative disease and drosophila as fly model	Meghana Tare	Biological Sciences
4	2017H1290007P	Anisha Ramdas	Molecular mechanisms associated with anti-cancer properties associated with camel milk	Uma S Dubey	Biological Sciences
5	2017H1290021P	Shivangi Mishra	Study of cancer stem cell inhibitors in brain cancer cell: understanding its functional implications	Sudeshna Mukherjee	Biological Sciences
6	2017H1290009P	Praneeta P	Infection studies of SBP-8 in C. elegans and the role genes involved in pathogenicity	Prabhat N Jha	Biological Sciences
7	2017H1290022P	Vishakha Bambroo	Understanding the biophysical properties of cancer cell under diverse stress	Rajdeep Chowdhury	Biological Sciences
8	2017H1300091P	Furoan Ahmed Bhat	Modeling spatial Transferability of urban freight Demand Model	Prasant K Sahu	Civil Engineering
9	2017H1300081P	Aitichya Chandra	Development of effective zoning schemes for freight	Prasant K Sahu	Civil Engineering
10	2017H1430072P	Ramanand Shukla	Investigation of effect of Infill wells on seismic response of structure (Structural Dynamics & Engineering)	Dipendu Bhunia	Civil Engineering
11	2017H1430076P	Banuru Raghavender	Emulation of fire rating of FRP Composite	Shamsher Bahadur Singh	Civil Engineering
12	2018H1430410P	T Naveen Kumar	Failure analysis of laminated composite plates under different types of Mechanical load.	Rajesh Kumar	Civil Engineering
13	2017H1300083P	Kapil M Dhabu	Optimization Engineering	Priyansh Singh	Civil Engineering
14	2017H1440061P	Varun Jain	Dynamic Instability of Composite Plates	Rajesh Kumar	Civil Engineering
15	2013HS030073P	Shivin Srivastava	Enhancing Cyber Security Techniques using Deep Learning	Pratik Narang	Computer Science and Information Systems
16	2017H1030121P	Vinit Kumar Siriah	Brain Computer Interface Based Systems with Applications in Robotics and Embedded Systems	Vinay Chamola	Computer Science and Information Systems
17	2017H1010029P	Amit Kumar	Bio-mitigation of CO_2 using algal species in pilat scale developed reactor.	Smita Raghuvanshi	Chemical Engineering
18	2017H1010030P	B. Sai Hitesh	Hydrolysis of agricultural waste to sugars using solid acid catalyst.	Banasri Roy	Chemical Engineering
19	2017H1010032P	Neha Jadhav	Preparation of mixed-matrix membrane for biogas upgradation.	Bhanu Vardhan Reddy	Chemical Engineering
20	2017H1010035P	Devesh Saxena	CFD Analysis of bioreactor: Experimental and Theoretical investigations.	Suresh Gupta	Chemical Engineering
21	2017H1010036P	Prasad Sudhir Ingle	CFD Modelling of Catalysis poisoning using detailed kinetics for biogas reforming.	Bhanu Vardhan Reddy	Chemical Engineering
22	2017H1010037P	Sampada Mahajan	Hydrolysis of agricultural waste to sugars using solid acid catalyst.	Banasri Roy	Chemical Engineering
23	2017H1010038P	Hemanand T	Development of a soft sensor for a Reactive distillation column using WNN	Hare Krishna Mohanta	Chemical Engineering
24	2017H1010040P	Veeturi Uma Varun	Epoxy nanocomposites for EMI shielding applications.	Krishna C Etika	Chemical Engineering

S.No	BITS ID	Name	Topic	Supervisor	Department
25	2017H1010041P	Akshya Khandelwal	Development of continuous bio-mitagion of CO2 & recovery of product (fatty acids & alcohol) from leactiate.	Smita Raghuvanshi	Chemical Engineering
26	2017H1010042P	Devendra Purbia	Dual Bed Catalytic - Bio gas reforming using monalith reactor	Srinivas Appari	Chemical Engineering
27	2017H1010045P	Adwait Nagarkar	Identification & Isolation of waste engine oil (WEO) degrading bacteria from oil contaminated soil-water.	Amit Jain	Chemical Engineering
28	2017H1010046P	Vennu Revanth	Modeling and Simulation of a bioreactor in production of bio surfactant.	Amit Jain	Chemical Engineering
29	2017H1010047P	K. Karthik	Flow pattern and transport of mass in jet loop reactors	Arvind Kr. Sharma	Chemical Engineering
30	2017H1010048P	G. Kameshwar Sharma	Lynthesis of Nano particles for the removal of zinc from industrial waste water.	Suresh Gupta	Chemical Engineering
31	2017H1010050P	Itishree Panda	Design and development of noval biomass cookstove using experimental and CFD simulation.	P N Sheth	Chemical Engineering
32	2017H1490319P	Chasetti Manozna Satyyendra	R&D Management: A Review Study	Jyoti	Management
33	2017H1490315P	Ayush Verma	Social Media	Nirankush Dutta	Management
34	2017H1420179P	Mohit Sharma	Development of machine learning algorithm for controlling welding process	Prateek Kala	Mechanical Engineering
35	2017H1410148P	Bhure Swapnil Shadanan	Microstructure perdition in additive Manufacturing with metals alloy simulations	Murali Palla	Mechanical Engineering
36	2017H1060198P	Dhruv Tiwari	Modeling and simulation of a vibrating branched structure in a wiscorn medium	J.S. Rathore	Mechanical Engineering
37	2017H1420190P	Gaurav Sushant	Supply chain management	Srikanta Routroy	Mechanical Engineering
38	2017H1420184P	Bala Karthikeya Nandula	Robotics- Design of un-manned guided vehicle (UGV) to explore unknown enemy terrains	B.K. Rout	Mechanical Engineering
39	2017H1420189P	Lokesh Kumar Patel	Engineering education in India: joint indo-German experience lab	K.S. Sangwan	Mechanical Engineering
40	2017H1410153P	Srihari S.	Study of fluid-solid interaction between blood and vein	S. S. Yadav	Mechanical Engineering
41	2017H1410146P	Hara Prakash Mishra	Bearing misalignment and condition monitoring	Arun Kumar Jalan	Mechanical Engineering
42	2017H1060200P	Amol Swaroop	Development of a framework for rams model considering multi-failure modes	R.P. Mishra	Mechanical Engineering
43	2017H1470269P	Tejashree V. W.	Design and Characterization of Nano-carrier embedded topical drug delivery systems.	Gautam Singhvi	Pharmacy
44	2017H1460280P	Munnagi Sivaram	Development and evaluation of polymer based nanoparticle for dual-drug delivery for cancer therapy	Sunil K Dubey	Pharmacy
45	2017H1470274P	Dileep P. S.	Natural product Chemistry-Phytochemical investigation os Astonia Scholaris	Atish T. Paul	Pharmacy
46	2017H1470271P	Shaksam Palawat	Natural product Chemistry-Phytochemical investigation on Tabernaemontana divericata	Atish T. Paul	Pharmacy
47	2017H1470269P	Ramanathan A.	Nano-carrier based drug delivery systems for the treatment of AD	Rajeev Taliyan	Pharmacy
48	2017H1460282P	R. Pranav	Development and evaluation of drug loaded Nano-carrier for the treatment of Brain Stroke	Rajeev Taliyan	Pharmacy
49	2017H1460272P	Nancy Tripathi	Predicting Modeling and Chemo informatics analysis of antimicrobials.	Sandeep Sundriyal	Pharmacy
50	2017H1290003P	R. Sinduja	Characterization of sea plant explants & development of related applications	Hemant Giri Rao V. V.	Biological Sciences
51	2017H1290016P	Dhulika Ravinuthala	Mechano biology of cell- substrate interaction under shear	Namrata Gundiah	Biological Sciences
52	2017H1460279P	Jeevan Patra	Bioanaltytical Method Development	Puran Singhal	Pharmacy

K.K.Birla Goa Campus

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2017H1410049G	Chetan Kushwaha	CFD simulation of bluff body aerodynamics	Pritanshu Ranjan	Mechanical Engineering
2	2017H1030036G	Anand Vijayan	Modelling & Simulation of DNA Computing	A. Baskar	Computer Science and Information Systems
3	2017H1290006G	Sharvari S. Gadegaonkar	Monitoring of pathogens in Waste water	Srikanth Mutnuri	Biological Sciences
4	2017H1290016G	Anviksha	Exploration on the functional characterization of anti-fungal lipopeptide fractions isolated from Bacillus Subtilis	Utpal Roy	Biological Sciences
5	2017H1410061G	Ratnagiri Sairam Kaushik	Analysis of Advanced Structures	Sandeep Jose	Mechanical Engineering
6	2017H1410054G	Daniel Mathews	Structural Analysis	Sandeep Jose	Mechanical Engineering
7	2017H1290005G	Rajarshi Bhowal	The efficacy of the petal extract of catharanthus roseus on human lung cancer cells invitro	Angshuman Sarkar	Biological Sciences
8	2017H1010029G	Shubham Namdeorao Lanjewar	Thermodynamics of membrane formation and its Applications	Anirban Roy	Chemical Engineering
9	2017H1010026G	Prabhudesai Vallabh Sudhir	Photocatalytic degradation of Agrochemicals	Sharad M. Sontakke	Chemical Engineering
10	2017H1010028G	Harshavardhan T.	Flow and lubrication of greases	Asima Shaukat	Chemical Engineering
11	2017H1010027G	K. Janaki	UV/vis light driven photocatalytic degradation of organic pollutants from industrial waste water using composite catalyst	Saroj S. Baral	Chemical Engineering
12	2017H1010017G	Rhea Mariam John	Material Development for low voltage alteration of surface wettability	Pradeep K. Sow	Chemical Engineering
13	2017H1010024G	Aastha	Modelling & simulation of fluid flow and heat transfer in monolith based multiphase systems	Amol Deshpande	Chemical Engineering
14	2017H1010022G	Divya Joslin Mathias	A Feasibility study on citrus peel as lignocellulosic feedstock for birth and production	Vivek Rangarajan	Chemical Engineering
15	2017H1010021G	Shree Sharan	Degradation of 2,4-dichlorophenol in water using photocatalysis & fenton-like Advanced Oxidation process	S. D. Manjare	Chemical Engineering
16	2017H1010020G	Pooja Paul Chowdhury	Continuous oscillatory baffled reactor assembly. Design and Development	Srinivas Krishnaswamy	Chemical Engineering
17	2017H1010023G	Sachin Gautham M.B.	Investigation of polymer Nano composite membranes for desalination	Jegatha Nambi Krishnan	Chemical Engineering
18	2017H1010019G	Mitali A. Waghmare	Reactive Extraction of pyruvic acid using a suitable extractant-diluant system	Saroj Baral	Chemical Engineering
19	2017H1010025G	Pranjali Ranade	Using bio-mass as low cost feedstack for synthesizing high efficient supercapacitors	Richa Singhal	Chemical Engineering
20	2017H1410058G	Deeksha Mishra	Aero Engine Producibility Design Requirement	Veeresh Vastrad	Mechanical Engineering
21	2017H1410059G	Vikram Kumar	Aero Engine Producibility Design Requirement	Veeresh Vastrad	Mechanical Engineering
22	2017H1290008G	Soniya Shende	Analysis of Cancer Hallmarks by q.PCR	Indraneel Mittra	Biological Sciences
23	2017H1290002G	Abhinav Panday	Applicability of human induced pluripotent stem cells in the understanding of developmental Neurotoxicity mechanisms	Aditya Bhushan Pant	Biological Sciences
24	2017H1290004G	Aparna Pradeep	Colorectal Cancer & Prognosis	S. Asha Nair	Biological Sciences
25	2017H1290010G	Aachal Verma	Leaf Morphogenesis for a training Programme	Utpal Nath	Biological Sciences
26	2017H1290009G	Vanshika Saxena	Extraction and characterization of proteins from vegetable origin material	Prasad Thakurdesai	Biological Sciences

S.No	BITS ID	Name	Topic	Supervisor	Department
27	2017H1290015G	Bhavya Nair	Development of Striga Resistance Sorghum lines	Srinivas Reddy	Biological Sciences
28	2017H1290003G	Akshay S.	Investigation of the role of Sigma! Receptor in the progression of Alzheimer's Disease	Richard Begeron	Biological Sciences
29	2017H1290011G	Janani Sankar	Use of cell based arrays for identification of NCE's in a drug discovery program	Sasirekha Sivakmar	Biological Sciences
30	2017H1290013G	Joel D. Souza	Evaluation of Anti-cancer potential of New chemical entities Various Cancer cell lines	Mahaboobi Jaleel	Biological Sciences

Hyderabad Campus

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2013HS430820H	B. Sriman Pankaj	Investigation of crushed concrete aggregates as a replacement for natural aggregates in concrete	Arkamitra Kar	Civil Engineering
2	2016H3130077H	Kounteya Sarkar	A robust tripartie quantum key distribution with mutually shared Bell states and classical hash values using a complete-graph network architecture	Prasanta K. Panigrahi, Suvadip Batabyal	Computer Science and Information Systems
3	2017H1010019H	Pula Bhargavi	Nano cellulose Synthesis and Characterizations and its applications	D. Purnima	Chemical Engineering
4	2017H1010020H	Madduri Prithvinath	Two Dimensional Modelling of Rising Thermal Plume	Angan Sengupta, Vikrant Kumar Surasani	Chemical Engineering
5	2017H1010022H	Ware Snehal Vinayak	Coalbed Methane Extraction Using CO_2 Sequestration	Vikrant Kumar Surasani, Srikanta Dinda	Chemical Engineering
6	2017H1010023H	Hithessh Augustus	Fabrication of Nanocomposite Catalysts for Value Added Products	Satyapaul A. Singh	Chemical Engineering
7	2017H1010024H	Pichkari Saikiran	Paper Based Microfluidic Microbial Fuel cell	Balaji Krishnamurhty, Sanket Goel	Chemical Engineering
8	2017H1010025H	Seemarekha Das	Isolation and screening of rock phosphate solubilizing microbes: An In vitro stud	Nabin Kumar Dhal, Srikanta Dinda & Nandini Bhandaru	Chemical Engineering
9	2017H1010026H	Sharon Mariam Varughese	Chemical Durability of Biometric super Hydrophobic surfaces on Polymers	Nandini Bhandaru	Chemical Engineering
10	2017H1010027H	Sayyed Sheraj Zulfekher	Cracking of Toluene and n-Heptane to find endothermic heat sink at elevated temperature and pressure	Srikanta Dinda	Chemical Engineering
11	2017H1060103H	Sohan Dudala	Microfluidic Platform for Soil Testing	Satish K Dubey, Sanket Goel	Mechanical Engineering
12	2017H1060114H	Peri Arun	Laminar fluid flow past two side-by-side elliptical cylinders at 0o angle of attack having two different aspect ratios with varying centre to centre distance.	K. Ram Chandra Murthy	Mechanical Engineering
13	2017H1290001H	Dibyasree Biswas	Molecular cloning of Japanese Encephalitis Virus (JEV) Non-structural protein NS2A and Its expression from Mammalian expression Vector	Krishnan H Harshan, Vivek Sharma	Biological Sciences
14	2017H1290002H	Garima Singh	Manipulating Flowering with the Use of Gibberellins in Huanglongbing-affected Sweet Orange	Tripti Vashisth, Piyush Khandelia	Biological Sciences
15	2017H1290006H	Dilena Dilip	Understanding the effect of mycobacterial proteins on immunological functions of macrophages	Trinath Jamma	Biological Sciences

S.No	BITS ID	Name	Topic	Supervisor	Department
16	2017H1290007H	Nishtha Kushwaha	Correlation of Urinary Biomarkers With The Physiological States Of Body i.e. Fasting and Feeding in Individuals of varying Body Mass Index (BMI)	Suman Kapur	Biological Sciences
17	2017H1290008H	Aveepsha Bera	Role of Chromatin Assembly Factor-1 in maintaining Genomic Stability in Arabidopsis thaliana	Gireesha T. M.	Biological Sciences
18	2017H1290011H	Snigdha Ghosh	To establish a novel role for Chromatin Assembly Factor 1 (CAF1) in ribosomal DNA (r DNA) instability - mediated rRNA gene regulation in Arabidopsis thaliana	Gireesha T. M.	Biological Sciences
19	2017H1290012H	Nandini E.	Metabolite profiling for the evaluation of urinary biomarkers in Autism Spectrum Disorder patients from India	Vidya Rajesh, N. Rajesh	Biological Sciences
20	2017H1290013H	Nikhariya Yamini Rakesh	Lipase mediated polymer degradation derived from probiotic sources	Jayati Ray Dutta, Piyush Khandelia	Biological Sciences
21	2017H1290014H	Monalisa Nameirakpam	Examining the role of circRNAs in skeletal muscle atrophy	N. Sadananda Singh, Piyush Khandelia	Biological Sciences
22	2017H1290015H	Monica	Impact of DNA - methylation variation in humans	Naga Mohan	Biological Sciences
23	2017H1300043H	Waim Akshay Ravindra	Use of Fractionated Rap (F-Rap) To Increase The Rap Content	Sridhar Raju	Civil Engineering
24	2017H1300047H	Mohammad Aqeel Ahamad	Development of Maintenance Tool for Rural Roads	Sridhar Raju, K. Sitaramanjaneyulu & Pradeep Kumar	Civil Engineering
25	2017H1300048H	Vendoti Nikitha	An user perception based analysis of factors influencing safety and walkability of pedestrian facility in Indian Urban settings	Bandhan Bandhu Majumdhar	Civil Engineering
26	2017H1410095H	Hayalam Akshay Kumar	Numerical simulation of Frictional stir spot welding in ABAQUS software	Jeevan Jaidi	Mechanical Engineering
27	2017H1410097H	Durgavajhala Pavan Kumar	Thermal Modelling of Industrial Baking Oven	Jeevan Jaidi, Anurag Nandwana	Mechanical Engineering
28	2017H1430032H	Chakravarthula B. Ajay Mani Teja	Two Stage Damage Assessment of Structure with Minimal Structural Data through Dynamic Analysis of Categorized Building	Mohan S. C.	Civil Engineering
29	2017H1430037H	Bezawada Vamsi Krishna	Performance Based Design of Irregular RC Building	Kalyana Rama J.	Civil Engineering
30	2017H1430038H	Mandapaka Ram Sagar	Predictine the Parameters for Fracture Mechanics Based Design of RC Beams	Kalyana Rama J., A. Ramachandra Murthy	Civil Engineering
31	2017H1430040H	Ajinkya Sanjay Desai	Service Life Prediction of Rice Husk Ash Blended Cement Concrete In Off-Shore Bridge Structure	Bahurudeen A.	Civil Engineering
32	2017H1460147H	Deshpande Vibha Sanjay Vaishali	Formulation and Development of Microemulsion of Acyclovir	Punna Rao Ravi, Ram Reddy	Pharmacy
33	2017H1460148H	Mahajan Radhika Rajiv	To Formulate and Characterize Room Temperature Stable Product for A Thermolabile Chemical Entity	Ashish A Dubewar, Akash Chaurasiya	Pharmacy
34	2017H1460149H	Bankar Neha Gajanan	Preparation and Characterization Of Drug Loaded Temperature Sensitive Liposomes	V. Vamsi Krishna Venuganti	Pharmacy
35	2017H1460150H	Mrunal Vijay Kulkarni	Exploring Film Coatings for Enhanced Tablets Appearance	Khan Mohammed Majed, V. Vamsi Krishna Venuganti	Pharmacy
36	2017H1460152H	Kale Suvarna Rajaram	Formulation of intranasal Mucoadhesive temperature-mediated in situ gel for Antiparkisonism drug Piribedil	Punna Rao Ravi	Pharmacy
37	2017H1460153H	Shaikh Shafik Shakil	Formulation and Evaluation Of Nasal In-Situ Gel System Of Rufinamide as a Nose To Brain Delivery For The Treatment Of Epilepsy	Punna Rao Ravi	Pharmacy
38	2017H1460156H	Vidushi Aggarwal	Design of Polyherbal Formulation Based On Consumer Insights For Lung Detoxification	Sandeep Paranjape, Punna Rao Ravi	Pharmacy

S.No	BITS ID	Name	Topic	Supervisor	Department
39	2017H1460157H	Abdul Nazeem Baig	Understanding of Regulatory Submissions For United States of America	Sanjay Kumar, V. Vamsi Krishna Venuganti	Pharmacy
40	2017H1460160H	Katke Sumeet Vaibhav	Formulation, development and evaluation of an injectable product of drug molecule A	Monika Srivastava, Punna Rao Ravi	Pharmacy
41	2017H1460161H	Bojja Javali Sumagathri	Development, Optimization and Characterization of Erlotinib Hydrochloride-Hybrid Nanoparticle Using Qbd Approach	Punna Rao Ravi	Pharmacy
42	2017H1460163H	Veda Suresh Thorat	Guidelines for Regulatory Submissions For European Union	Nagamani Sribuddharaju, V. Vamsi Krishna Venuganti	Pharmacy
43	2017H1460165H	Galigama Rohini Devi	Ocular Drug Delivery by Using Microneedles	V. Vamsi Krishna Venuganti	Pharmacy
44	2017H1480142H	Bhambure Ajit Namdeo	Multi-physics Modelling of Fuel Cells	Jeevan Jaidi, Mahesh Vaze	Mechanical Engineering
45	2017H1480143H	Deepak V.	Laminar flow past two side by side elliptical cylinders of different aspect ratios at 900 angle of attack	K. Ram Chandra Murthy	Mechanical Engineering
46	2017H1480145H	Ram Mohan Kartha	Analysis of Thermal Management in 100kW PMSM SEMA Motor	Jeevan Jaidi, Rakesh Bardepur	Mechanical Engineering

Dubai Campus

S.No.	BITS ID	Name	Topic	Supervisor	Department
1	2016H1230910U	Ansha Noushad	Multiplier Algorithm for FFT implementation in VLSI	Abdul Rajak	Electrical and Electronics Engineering
2	2017H1120002U	A. Abirami	Securing Stock Market Transaction on Block Chain	J. Angel Arul Jothi	Computer Science
3	2017H1230007U	Prasannan Chippy	Stability Analysis of Different Op-Amp Circuits	Vilas Haridas Gaidhane	Electrical and Electronics Engineering
4	2017H1230014U	Raj Akhila	Modelling of an Efficient Maximum Power Point Tracking Algorithm of a Solar Photovoltaic Cell using FPGA	Mary Lourde R.	Electrical and Electronics Engineering
5	2016H1490013U	V. Pavankumar	Challenges of Women Entrepreneurs in UAE	Natesa Prasad	MBA
6	2017H1490004U	Ajmal Mohammed	Business Model Innovation and Financial Performance: SMEs in Dubai	Shazi Shah Jabeen	MBA
7	2017H1490005U	P. K. Anupama.	Competitive Advantage of Online Branding in the Digital Era: Case of the Energy Industry	Shazi Shah Jabeen	MBA
8	2017H1490006U	Thampi Aravind M.	Artificial Intelligence and its Transforming Power in Industrial Marketing	Sujala D Shetty	MBA
9	2017H1490008U	Pinjani Kirti	Impact of Innovative Practices on Performance of Small and Medium Enterprises - Dubai	Shazi Shah Jabeen	MBA
10	2017H1490016U	Chaitanya Tata	Relationship between Inflation and Unemployment – Evidence from India	Sartaj Rather	MBA

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Pilani Campus

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2018H1010027P	Dandigunta Babuji	Judicious engineering of microbiomes for effective bioprocess development and enhance valorisation of agro industrial resources.	Abhishek S Dhoble	Chemical Engineering
2	2018H1010028P	Mehta Harshil Amitbhai	Catalytic monolith reactor for hydrogen production.	Srinivas Appari	Chemical Engineering
3	2018H1010029P	Janani K.	CFD investigation on dense fluidized bed.	Priya C Sande	Chemical Engineering
4	2018H1010030P	Krithika B.	Hybrid polymer nanocomposites for EMI shielding applications.	Krishna C Etika	Chemical Engineering
5	2018H1010032P	Avinash Maran Beena	Fault detection & diagnosis of tenesse eastman process	Ajaya Kr. Pani	Chemical Engineering
6	2018H1010034P	Balivada Kusum Kumar	Integrated approach for the removal of zinc from textile industry effluent.	Suresh Gupta	Chemical Engineering
7	2018H1010035P	Shrinidhi Sambamurthy	An integrated biorefinry approach for the removal of CO_2, No_x and SO_X from flue gases using chemolithotrophs.	Smita Raghuvanshi	Chemical Engineering
8	2018H1010037P	S. Nirmal Kumar	Hydrogen/syngas production from natural gas steam reforming using in-situ sulphur passivated Ni catalysts.	Bhanu V. Reddy	Chemical Engineering
10	2016H1240062P	Shivam Goel	Modelling & simulation of Dielectric resonator antennas	Navneet Gupta	Electrical and Electronics Engineering

K.K.Birla Goa Campus

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2018H1010020G	Rohit Thakran	Synthesis of Metal organic framework and it's application	Srinivas Krishnaswamy	Chemical Engineering
2	2018H1010021G	Lubna Muzamil Rehman	Production, Purification and Characterization of Biopolymers from Thermophilic Bacteria for Cosmetic Applications	Anirban Roy	Chemical Engineering
3	2018H1010022G	Dolly Saxena	Electrochemical Alteration Of The Surface Wettability	Sharad M. Sontakke	Chemical Engineering
4	2018H1010023G	Partha Sarathi Kalita	Modelling and CFD Simulation of fire tube Steam boiler system to predict the water level fluctuations in the steam drum.	Vivek Rangarajan	Chemical Engineering
5	2018H1010026G	Kumar Vishwa Ranjan	Design of a recognition site for insulin for self-fluorescent Hydroxyapatite nanoparticle	Pradeep K. Sow	Chemical Engineering
6	2018H1010027G	P. Sai Pavan Kalyan	Investigation on effect of surfactants on gas hydrates formation / dissociation kinetics.	Amol Deshpande	Chemical Engineering
7	2018H1010028G	Anegondi Nateri Achyuth	Understanding and developing Thermodynamic models for Salt water systems	Jegatha Nambi Krishnan	Chemical Engineering
8	2018H1010030G	Pruthivi G.	Investigation of thin film nanocomposite Membranes	Saroj Sundar Baral	Chemical Engineering
9	2018H1010031G	Akshay Gaikwad	Experimental and theoretical investigation of photocatalytic activity on composite materials	Paramita Haldar	Chemical Engineering
10	2018H1010029G	Rishi Raj Tripathi	First principle study of graphene supported bimetallic catalyst for improved hydrogen generation and storage	Sutapa Roy Ramanan	Chemical Engineering
11	2018H1010032G	Kishlay Bhaskar	Elastohydrodynamic Lubrication of Novel Biogrease Formulation	Srinivas Krishnaswamy	Chemical Engineering
12	2018H1010024G	V. Sree Kavya	Removal of emerging contaminants from wastewater using adsorption	S.D. Manjare	Chemical Engineering

Hyderabad Campus

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2018H1010021H	Supriya B.	Development Of Three-Dimensional Lattice Boltzmann Model For Film Evaporation In A Square Capillary Tube	Vikranth Kumar Surasani	Chemical Engineering
2	2018H1010022H	Meghana Kotla	Pattern Directed Ordering of Dewetting in Ultra-thin Polymer Films	Nandini Bhandaru	Chemical Engineering
3	2018H1010024H	Pakala Himavarsha	CFD Simulation Of Endothermic Fuel Production For Hypersonic Vehicles	Vikranth Kumar Surasani, Srikanta Dinda	Chemical Engineering
4	2018H1010025H	Shradha Ramesh	Preparation of Nano Cellulose using Biological routes and its Application Postgraduate	D. Purnima, Lakshmi Shirisha	Chemical Engineering
5	2018H1010026H	Nilanjana Panda	Morphologically Tuned Nanoparticles Synthesis for Environmental and Energy Applications	Satyapaul A. Singh	Chemical Engineering
6	2018H1010028H	Ipsita Sahoo	Influence Of Super Masscolloider And Lab Valley Beater On The Morphology Of Sapwood Pulp Fibres	Ramesh Babu A.	Chemical Engineering
7	2018H1010029H	Sunetra Venkat Chituru	Two-Dimensional Modelling of Rising Thermal Jet Plume	Angan Sengupta	Chemical Engineering
8	2018H1430050H	Sistla Saiteja	Performance of bagasse ash blended mortar against fire	Bahurudeen A.	Civil Engineering
9	2018H1430051H	Ansuman Panda	Rheological Modelling of Pumpable Concrete	Bahurudeen A.	Civil Engineering

DUBAI CAMPUS

S.No.	BITS ID	Name	Topic	Supervisor	Department
1	2017H1490903U	Anooj Jacob Panicker	Studying the Sustainability of Hospital Efficiency for Khoula Hospital	Pazisad Dungore	MBA
2	2017H1490904U	Maharoof P.	5G Network Slicing Challenges & Opportunities	Anand Kumar	MBA
3	2017H1490905U	Veena E.	Effect of Sustainable HR Practices on Employee Wellbeing	Shazi Shah Jabeen	MBA
4	2017H1490906U	Manoj Malik	Business Applications for Artificial Intelligence: A Case Based Review	Nitin Simha Vihari	MBA
5	2017H1490907U	Taha Murtuza Safdari	Internal Determinants of the Job Shop Sales - An empirical analysis	Sartaj Rasool Rather	MBA
6	2017H1410901U	Sagar Dipak Zinzuvadiya	Design an Energy-Efficient Thrust Vectored Steering System For Yawing A 1.5m By 1m Catamaran With Electric Propulsion.	Ram Karthikeyan	Mechanical Engineering
7	2017H1410902U	Ashwin Suresh	Flow Analysis Around a Scaled-Down Catamaran using a CFD Software	Snehaunshu Chowdhury	Mechanical Engineering
8	2017H1410908U	Mohommad Shapheek	Optimization of Cooling Time for Polyethylene Fusion Joints	Naveen Shrivastava	Mechanical Engineering

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PILANI CAMPUS

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2014B1A10221P	Suhail Khan	Control and human interface if an automated hydroponics plant.	Prabhat N Jha	Biological Sciences
2	2014B1AB0054P	Rajaram Arun	Pharmacokinetic pharmacodynamics modelling and simulation of selected anti-microbial drugs	Prabhat N Jha	Biological Sciences
3	2014B1AB0350P	Yash Jakhete	The characterization of hypothetical / putative protein from plasmodium	Shilpi Garg	Biological Sciences
4	2014B1A30245P	Rajat Pandey	Tubulin isolation & effect of different compounds on tubulin	Shilpi Garg	Biological Sciences
5	2014B1A40847P	Sahil Tyagi	Study of contribution of life style habits on type 2 diabetes	Shibashish Chowdhury	Biological Sciences
6	2014B1A80260P	Palash Sethi	In silico characterization of crispr-cas targets in salmonella	Sandhya Marathe	Biological Sciences
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	Biological Sciences
8	2014B1A20345P	Shivangi Arora	Application of ml/ neural network techniques	Shibashish Chowdhury	Biological Sciences
9	2014B1A10510P	Kriti Khandelwal	Machine learning for epigenetics and further medical applications	Syamantak Majumder	Biological Sciences
10	2014B1A10470P	Nipun Vats	Image processing using classification techniques to detect malaria parasites or stages	A K Das	Biological Sciences
11	2014B1A40552P	Sahil Sharma	Mosquito habitat prediction	Vishal Saxena	Biological Sciences
12	2014B1TS0169P	Anurag	Design activities and other initiatives to invoke environmental awareness in community.	Pankaj K Sharma	Biological Sciences
13	2014B1A20655P	Sanyukta Singhal	Characterization of high temperature tolerant mutants in crop plants	B. Vani	Biological Sciences
14	2014B1A30373P	Rachit Agarwal	Effect of high glucose on pancreatic cancer cells	Rajdeep Chowdhury	Biological Sciences
15	2014B1A10846P	Ayush Gupta	Analysis of antophagy proteins in uninfected and infected rbcs	Vishal Saxena	Biological Sciences
16	2014B1A10492P	Aeshvarya Mittal	Studying of effect of differential hemodynamics on epigenetic mechanism of endothelial infection	Syamantak Majumder	Biological Sciences
17	2014B1AB0777P	Keerti P	Analysis & date meaning of by hub genes from a transcriptomic network	A K Das	Biological Sciences
18	2014B1A20347P	Maram Reddy Rahul Reddy	Molecular dynamics simulations of mi-rna	Shibashish Chowdhury	Biological Sciences
19	2014B1AB0058P	Atul Jala	Design & data acquisition of an automated hydroponics plants	Prabhat N Jha	Biological Sciences
20	2015B1TS0977P	Harshita Verma	Metabolic effect of apicoplast mediated delayed death in toxoplasma gondii	Dhanasekaran Shanmugam	Biological Sciences
21	2014B1A80472P	Mihir Deshmukh	Deep learning of diabetic retinopathy & other related pathologies	Chandra Sekhar Seelamantula	Biological Sciences
22	2014B1A10422P	Stuti Maheshwari	Using deformability cytometry for studying mechanical properties of various cells & their response to commercial drugs	Prosenjit Sen	Biological Sciences
23	2014B5A20872P	Rounak S Suranshe	Static and dynamic response of trip-chip reinforced soil and waste mine products	Ravikant Mittal	Civil Engineering
24	2014B3A20741P	Ashima Ailwadi	Earthquake analysis of buildings with wall stiffness	Dipendu Bhunia	Civil Engineering

S.No	BITS ID	Name	Topic	Supervisor	Department
25	2014B2A20150P	Abshishek Singh	Predictive modelling of building fire risks	G Muthukumar	Civil Engineering
26	2015A2PS0510P	Aditya Choudhary	Solid waste management of a metropolitan	Anupam Singhal	Civil Engineering
27	2014B4A20610P	Navandar Vedant Shrihari	Design and analysis of a net zero energy building	Dipendu Bhunia	Civil Engineering
28	2014B4A20558P	Rohit Gupta	Analysis of cement characteristics upon changes in quality of fly ash with concrete in cement.	Dipendu Bhunia	Civil Engineering
29	2014B2A20692P	Tanmay Jaiswal	Stress sensor using aggregation induced emission active mechanoluminescence material for structural health monitoring	Dipendu Bhunia	Civil Engineering
30	2014B2A20806P	Aditya Sharma	Assessment of non-point source of pollution in ganga river basin	Ajit Pratap Singh	Civil Engineering
31	2015A2PS0812P	Dhananjay Nahata	Machine learning application in civil engineering	G Muthukumar	Civil Engineering
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	Civil Engineering
33	2014B1A10297P	Umang Garg	Treatment of waste water bio filtration	Suresh Gupta	Chemical Engineering
34	2014B3A10709P	Ashit Shrivastava	Deep convolutional neural network model based chemical process fault diagnosis.	Ajaya KR. Pani	Chemical Engineering
35	2015A1TS0509P	Anindya Sen	Optimal design of paper-based biosensor for enhanced capture of antigens.	Arvind KR. Sharma	Chemical Engineering
36	2014B1A10636P	Sharad Yadav	Biomitigation studies of flue gases using algae.	Smita Raghuvanshi	Chemical Engineering
37	2014B2A10888P	Kreeti Jha	Extraction studies of products obtained from biomitigation of co2.	Smita Raghuvanshi	Chemical Engineering
38	2015A1PS0372P	Rahul Daswani	Conventional methods of petroleum demotalization and upgradation technologies.	Priya C Sande	Chemical Engineering
39	2015A1TS0722P	P. Abhinav	Chemical engineering, using microfluidic devices to study response of signals on cells.	A Jayaraman	Chemical Engineering
40	2015A1PS0768P	Sahil Desai	Development of numerical dynamic and one dimensional reactor model for the electrolysis of hydrogen chloride to chlorine.	Ing.Tanja Vidakovic-Koch	Chemical Engineering
41	2015A1PS0561P	Raghavendra Nimiwal	Numerical simulation of explosions and fluid structure interaction	Michel Arrigoni	Chemical Engineering
42	2014B2A80410P	Vaibhav Tayal	Development of web based tools for chemistry lab.	Bharti Khungar	Chemistry
43	2014B2A10019P	Nikhil Sanghi	Development of integral libraries for electronic structure programs.	Prashant U Manohar	Chemistry
44	2014B2A10309P	Kunal Sharma	Development of integral libraries for electronic structure programs.	Prashant U Manohar	Chemistry
45	2014B2A10616P	Vishal Mishra	Solid state ionic conduction studies of alkali metal ion-ionic liquid silica composites prepared through sol-gel process.	S C Sivasubramanian	Chemistry
46	2014B2A10618P	Harsha Panda	Iro nanomaterials for her and oer applications.	Surojit Pande	Chemistry
47	2014B2A10828P	Abhishek Bhardwaj	Catalytic application of metal complexes.	Bharti Khungar	Chemistry
48	2014B2A30156P	Samarth Sharma	Synthesis and characterization of some nitrogen containing heterocyclic derivatives as anti-Alzheimer's drugs.	Paritosh Shukla	Chemistry
49	2014B2A40133P	Aniket Agrawal	Design and synthesis of aggregation induced emission mechano lumimsent materials for structural health monitoring.	Inamur R Laskar	Chemistry

S.No	BITS ID	Name	Topic	Supervisor	Department
50	2014B2A40875P	Nirmit Gupta	Catalytic study of c-c bond reaction using metal catalyst.	Bibhas R Sarkar	Chemistry
51	2014B2A70358P	Aman Gupta	Synthesis of Schiff based ligands containing sugar and their metallo-chemistry.	Ajay KR. Sah	Chemistry
52	2014B2A80057P	Chinmay Udar	Study of inorganic materials	Madhushree Sarkar	Chemistry
53	2014B2A80535P	Dhruv Pandia	Explosive sensing by aggregation induced emissive materials.	Inamur R Laskar	Chemistry
54	2014B2A80584P	Anukriti Gupta	Tacrine derivatives as new chemical entities against neurological disorders synthesis and characterization.	Paritosh Shukla	Chemistry
55	2014B2A80737P	Jayshil Joshi	Catalysis driven b host-guest systems.	Saumi Ray	Chemistry
56	2014B2AB0176P	Satvir Adash Praween Kumar	Studies in transfer hydrogenation using transition metal catalysts.	Bibhas R Sarkar	Chemistry
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	Chemistry
58	2013B5PS0769P	Pradeep Kumar	Ground water flow modelling using mudflow in shekhawati region of Rajasthan.	Bharti Khungar	Chemistry
59	2014B2A70885P	Tushar Dhalwani	Deep learning for visual scene understanding	Kamlesh Tiwari	Computer Science and Information system
60	2014B3A70640P	Harsh Goynka	Feature mining and classification of sentimental opinion using nlp & machine learning alogos	Vaibhav Soni	Computer Science and Information system
61	2014B4A70805P	Dakshesh Mehta	Application of block chain technology in real life scenario	Amit Dua	Computer Science and Information system
62	2014B5A70779P	Harshita Goyal	Implementation of a parallel algorithms for de-novo whole genome assembler	Poonam Goyal	Computer Science and Information system
63	2014BSA70681P	Shetgaonkar Hrishikesh Digambar	Quantum computing	Abhishek Mishra	Computer Science and Information system
64	2015A7PS0005P	Saikrishna Kondameedi	Stochastic demand response management of smart grid using lattice-based cryptography	Amit Dua	Computer Science and Information system
65	2014B1A70213P	Richa Patel	Making technical diagrams accessible to visually impaired people	Gopal Srinivasa	Computer Science and Information system
66	2014B1A70319P	Satwik Bhattamishra	Natural to formal language translation	Navin Goyal	Computer Science and Information system
67	2014B4A70530P	Govind Mittal	Security evaluations of smart city environment	Nasir Memon	Computer Science and Information system
68	2014B4A70821P	Amrit Kochar	Deep learning techniques to enhance robotic applications for a cognitive grasping	Cristina Cristalli	Computer Science and Information system
69	2014B4A70867P	Karan Makhija	Text imputation using recurrent neural networks	Chng Eng Siong	Computer Science and Information system

S.No	BITS ID	Name	Topic	Supervisor	Department
70	2014B5A70833P	Anubhav Garg	Neural architecture search and hyper parameter tuning	Xinyuan Huang	Computer Science and Information system
71	2014B5A70849P	Naman Jain	Keyword generation from url nlp, deep learning	Mayur Gajabi	Computer Science and Information system
72	2015A7PS0042P	Vikram Nitin	Deep learning for natural language processing	Partha Pratim Talukdar	Computer Science and Information system
73	2015A7PS0057P	Fauzan Zaid	Deept learning approach for activity recognition in surgical videos	Nicolas Padoy	Computer Science and Information system
74	2015A7PS0068P	Sameer Jain	Morphological segmentation using sequence to sequence methods	Tanja Samardžić	Computer Science and Information system
75	2015A7PS0069P	Anmol Singhal	Anomaly action detection in surveillance videos	Alex Kot	Computer Science and Information system
76	2015A7PS0078P	Naveen Venkat	Unsupervised domain adaptation: an online learning scenario	R. Venkatesh Babu	Computer Science and Information system
77	2015A7PS0081P	Anirudh Krishna L	Path optimization for reconfigurable cleaning robots using deep reinforcement learning	Mohan Rajesh Elara	Computer Science and Information system
78	2015A7PS0088P	Partho Sarthi	Scalable and maintainable structure extraction	Suresh Parthasarthi	Computer Science and Information system
79	2015A7PS0109P	Rajat Prince Thakur	Computer vision, deep learning modelling of muscle driven activations in humans	Sergi Pujades	Computer Science and Information system
80	2015A7PS0163P	Rahul Chand	Self-supervised depth map out painting using 3d scene	Venkatesh Babu	Computer Science and Information system
81	2015A7TS0090P	Anvita Srinivas	A deep learning approach for object tracking in the operating room	Nicolas Padoy	Computer Science and Information system
82	2014B3A10703P	Vaibhav S Sinha	Energy economics & policy of India	A K Giri	Economics & Finance
83	2014B3A20693P	Soumil Gupta	Composite structures	N V M Rao	Economics & Finance
84	2014B3A30426P	Yash Joshi	Micro finance's impact on poverty in rural India	A K Vaish	Economics & Finance
85	2014B3A30727P	Saylee M Kanadje	Behavioural finance	Arya Kumar	Economics & Finance
86	2014B3A40592P	Vyankatesh S Marathe	Higher education microeconomics analysis	A K Vaish	Economics & Finance
87	2014B3A80539P	Dhiren Goyal	Cashless economy in India	A K Vaish	Economics & Finance
88	2014B4A70428P	Jai Agarwal	Gans for noisy signal enhancement	Chng Eng Siong	Electrical and Electronics Engineering
89	2014B1A70408P	Aditya Chauhan	Computer based analysis of geet probes for pathogen detection	Dheerena Singh	Electrical and Electronics Engineering
90	2015A8TS0337P	Raveesh Garg	Processor architecture of deep learning/big data for computer vision applications	Chandra Shekhar	Electrical and Electronics Engineering
91	2015A8PS0323P	Manas Gupta	High bitratc telemetry subsystem for a 10kg. Class nanasatelite.	Sainath Bitragunta	Electrical and Electronics Engineering
92	2015A3TS0148P	Garvit Sharma	IoT based smart environment.	V K Chabuey	Electrical and Electronics Engineering
93	2014B4A30754P	Arjun Gupta	3D domain adaptation for object detection	K K Gupta	Electrical and Electronics Engineering

S.No	BITS ID	Name	Topic	Supervisor	Department
94	2014B5A30706P	Shrey D Shah	Prevention of spoofing in facial identification using machine learning and neural networks	Surekha Bhanot	Electrical and Electronics Engineering
95	2015A3PS0268P	Prasad Chandrashekhar Deshmukh	Stochastic computing and neural network	Abhijit Asati	Electrical and Electronics Engineering
96	2015A8TS0413P	Shrija Majumder	Biometric system design	Pawan Kumar Ajmera	Electrical and Electronics Engineering
97	2015A3TS0020P	Bilwasiva Base Mallick	Brain computer interface & its applications in real time systems	Vinay Chamola	Electrical and Electronics Engineering
98	2014B2A30500P	Brahmkeeshwar Shukla	Deep learinig based interference cancellation schemes for mimo wireless communication	S M Zafaruddin	Electrical and Electronics Engineering
99	2015A3TS0178P	Siddhant Gangwal	Modelling and design of advance cmos circuits for artificial intelligence	Anu Gupta	Electrical and Electronics Engineering
100	2014B5A30850P	Raja Shukla	5g cellular networks	Vinay Chamola	Electrical and Electronics Engineering
101	2014B4A80810P	Siddhant Narula	Business applications of IoT	Vinay Chamola	Electrical and Electronics Engineering
102	2014B1A30284P	Surbhit Johri	Fabrication & characterization of g-fet based bio sensor	Dheerena Singh	Electrical and Electronics Engineering
103	2014B2A80349P	Tushar Kaushik	Hardware in loop studies on sliding mode control	Ankush Chanakant	Electrical and Electronics Engineering
104	2014B3A80721P	Rishabh Saxena	Study of biometrics indexing algorithm	K K Gupta	Electrical and Electronics Engineering
105	2014B5A30882P	Abhinav Gupta	Real time implementation of an isolated grid.	H D Mathur	Electrical and Electronics Engineering
106	2014B3A80545P	Teja Vardhan	Failure analysis of instrument based on ml	K K Gupta	Electrical and Electronics Engineering
107	2015A8TS0334P	Shraddha Maslekor	(Power systems) transmission and conversion of energy in electrical machines & power systems	Tomislav Dragicevic	Electrical and Electronics Engineering
108	2014B1A80899P	Anshumala Balu	Development of experimental and computational tools for time resolved fluorescence tomography	Anand Kumar	Electrical and Electronics Engineering
109	2015A3TS0213P	Anubhav Sachan	Broadband excitation of acoustic ducts (signal processing)	Chen-Jer Ming	Electrical and Electronics Engineering
110	2015A3TS0087P	Penta Srujan	Gan based high electron mobility transistors	K. Radhakrishnan	Electrical and Electronics Engineering
111	2015A3TS0271P	Arkid Kalyan Bera	Hardware implementation of machine learning ring implementation(Verilog) and synthesis (synopsis design compiler) of kohomen self-organizing Mao; implementation of other machine learning algorithms	Hussam Amrouch	Electrical and Electronics Engineering
112	2015A3PS0062P	Abhinav Bhansali	Use of silicon carbide for harsh environment electronics.	Shin-Ichiro-Kuroki	Electrical and Electronics Engineering
113	2015A3TS0231P	Mohit Garg	Aces: anomaly classification for embedded system.	Siew Kei Lam	Electrical and Electronics Engineering
114	2015A8TS0310P	Lavanya K	Embedded system control of reconfigurable robots	Mohan Rajesh Elara	Electrical and Electronics Engineering

S.No	BITS ID	Name	Topic	Supervisor	Department
115	2014B2A30153P	Karthik Suresh	Fabrication of graphene hbn heterostructures with supexconducting contacts.	Jayanta Sarkar	Electrical and Electronics Engineering
116	2014B1A30632P	Anubhuti Mishra	Imaging and neural networks	Reinhard Schneider	Electrical and Electronics Engineering
117	2015A8TS0301P	Rajat Khandelwal	Characterization of thin-film on silicon tandem solar cells	Serena Lin Fen	Electrical and Electronics Engineering
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	Electrical and Electronics Engineering
119	2015A3TS0137P	Mohit Padhye	Joint data sensing and analysis for fast medical tests (smart sensors)	Chen-Yi Lee	Electrical and Electronics Engineering
120	2015A8PS0488P	Mayank Raj	Natural language processing and deep learning for regional language processing	Lu Wei	Electrical and Electronics Engineering
121	2015A3PS0186P	Tushar Goyal	Open source software for space object modelling and simulation	Moriba Jah	Electrical and Electronics Engineering
122	2015A8TS0336P	Garv Sharma	Image processing	Idaku Ishii	Electrical and Electronics Engineering
123	2015A8TS0486P	Sahil Gupta	Advanced driver assistance system	Antonio Lopez Pena	Electrical and Electronics Engineering
124	2015A3TS0276P	Aakriti Agrawal	A deep learning approach for human pose estimation in rgbd surgical videos	Nicols Padoy	Electrical and Electronics Engineering
125	2015A8TS0666P	Rohit Lumar Arasanipalai	Machine learning for elasticity imaging in biological soft tissue.	Nicols Padoy	Electrical and Electronics Engineering
126	2014B5A30858P	Sumit Godara	Cinematic techniques in filmmaking (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	Mathematics
128	2014B4A10804P	Shivam Anand	Mathematical modelling	B K Sharma	Mathematics
129	2014B4A20758P	Gadekar Sachin Appasaheb	Mathematics of climate change	Sumanta Pasari	Mathematics
130	2014B4A30502P	Hemant Kumar	Application of the radial basis functions for the numerical solutions for pde's	Devendra Kumar	Mathematics
131	2014B4A30542P	Bandaru Mokshagnya	Two fluid model of blood flow using numerical techniques and non-Newtonian fluid flow through a curved tubes	Ashish Tiwari	Mathematics
132	2014B4A30642P	Imiteshwar Singh Benipal	Portfolio optimization	Rakhee	Mathematics
133	2014B4A30731P	Nayan Gupta	Portfolio optimization of volatile market using neural networks	C B Gupta	Mathematics
134	2014B4A40657P	Shubham Garg	Decision theory in supply chain management	Chandra Shekhar	Mathematics
135	2014B4A70727P	Naman Udasi	Algebraic coding theory	P H Keskar	Mathematics
136	2014B4A80512P	Piyush Ranjan	Modelling of fluid flow	B K Sharma	Mathematics
137	2014B4A80785P	Utkarsh Sirpurkar	A litrature survey of floor planning problems using graph theoretic approach	Krishnena Shekhawat	Mathematics
138	2014B4A80801P	Rasal Kumar	Computational fluid dynamics	B K Sharma	Mathematics
139	2014B4AB0588P	K Motheesh	Supply chain performance evaluation using dea	Shivi Agarwal	Mathematics

S.No	BITS ID	Name	Topic	Supervisor	Department
140	2014B4AB0808P	Vibhav Anand	Investigation of effect of component commonality on stochastically variable product demand through supply chain simulations	Chandra Shekhar	Mathematics
141	2014B4A80757P	C Pranay Reddy	Applications of number theory	Ashish Tiwari	Mathematics
142	2014B4A40567P	Ashwin Gupta	Supply chain management	Rakhee	Mathematics
143	2014B4A70637P	V Gautham	Image reconstruction and comparison for forensic footwear analysis	Martin Herman	Mathematics
144	2015B4PS0451P	Awais Ahmed	A study of elliptic boundary value problems	Gaurav Dwivedi	Mathematics
145	2014B4A40812P	Rishabh Gupta	Study on failure analysis techniques for reliability availability maintainability and safety (rams) modelling.	Rajesh P. Mishra	Mechanical Engineering
146	2014B4AB0507P	Nikhil Biyani	Design & development of mcdm modulo based software for application in manufacturing industries.	Abhijeet K. Digalwar	Mechanical Engineering
147	2014B2A40611P	Simantini Huchche	Design of supply chain management for value added products	Girish Kant	Mechanical Engineering
148	2014B5A40866P	Akash Sharma	Toward multi-spacecraft planetary exploration: adapting mutual impedance experiments to Nano satellites	Bijoy Kumar Rout	Mechanical Engineering
149	2014B4A40641P	Srishti Goel	Effect of skin friction with respect to various materials due to normal force, sliding speed and humidity	Sharad Shrivastava	Mechanical Engineering
150	2014B4A40778P	Nihal Chandak	Modelling and simulation of skin friction on various materials	Sharad Shrivastava	Mechanical Engineering
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	Mechanical Engineering
152	2014B1AB0823P	Saloni Sinha	Life cycle assessment of a 3-d printing process	Prateek Kala	Mechanical Engineering
153	2015ABPS0790P	Siddartha Idukuda	Engineering education in India joint indo-German experience lab.	K.S.Sangwan	Mechanical Engineering
154	2015ABPS0879P	Tanmay Sanjay Dalare	Design & development of mcdm models based software for application in manufacturing industries.	Abhijeet K. Digalwar	Mechanical Engineering
155	2015A4TS0371P	Bharath R. Nair	Development of smart robotic skin with embedded cognition and perception	Richard M. Voyles	Mechanical Engineering
156	2014B1A40764P	Priyam Shrikant Ambastha	Micro fluidic human organ-on-chips	Rachelle Prantil-Baun	Mechanical Engineering
157	2015ABTS0641P	M. Avadesh	Developing control algorithms to create dynamic behaviours on a custom made quadruped	Lludovil Righetti	Mechanical Engineering
158	2014B5A4815P	Sanaa Agarwal	Non-linear dynamics and chaos, and its applications.	Manas Kulkarni	Mechanical Engineering
159	2014B3A40581P	Rishabh Jain	Lean and industry 4.0 assessment of production line at astron buildings s.a.	Robert Francois	Mechanical Engineering
160	2015A4PS0294P	Jai Agarwal	Sensors and actuators for soft robotics	Pablo Valdivia Alvarado	Mechanical Engineering
161	2014B4A40694P	Divyanshu Goyal	Supply chain	Satyena KR. Sharma	Management
162	2014B3A10747P	Sameer Kumar Singh	Marketing/entrepreneurship-launching a b2c product/service in a market and documenting the important steps	Praveen Goyal	Management
163	2014B3A20690P	Gargi Gupta	Supply chain sustainability	Styena Kumar Sharma	Management
164	2014B3A30723P	Aditya Agarwal	Application of machine learning in	Satyena Kumar	Management

S.No	BITS ID	Name	Topic	Supervisor	Department
			supply chain management	Sharma	
165	2014B3A80660P	Anjul Mishra	E-waste management in India	Satyena Kumar Sharma	Management
166	2014B3A80697P	Aditya Saraswat	Evaluation of barriers in development of private/public sector using fuzzy logic	Praveen Goyal	Management
167	2014B3A80707P	Mayur Krishna Gupta	An empirical study and analysis on performance of ipos in India	Rajan Pandey	Management
168	2015A5TS0954P	Vedhant Kaul	Design, characterization and scale up of cucumin loaded lipid nano-carrier using quality by design approach	Gautam Singhvi	Pharmacy
169	2015A5TS0921P	Subham Choudhary	Phytochemical investigation of selected Indian medicinal plants	Atish T Paul	Pharmacy
170	2015A5TS0923P	Shriyansh Srivastava	Pancreatic lipase inhibitors of natural origin	Atish T Paul	Pharmacy
171	2015A5TS0956P	Goutam Aditya	Modelling and synthesis of newer agents for antituberclosis	Murugesan S	Pharmacy
172	2015A5TS0908P	Shruti Shah	Development and evaluation of drug/mrna loaded nano-carrier for treatment of Glioblastoma mutiforma	Deepak Chitkara	Pharmacy
173	2015A5TS0943P	Krishna Chaitanya M	Dissolution enhancement of poorly soluble drugs	M M Pandey	Pharmacy
174	2015A5TS0949P	Nikhita Anand	Deciphering hepatocytes death in fatty liver disease	Julie Anderson	Pharmacy
175	2015A5TS0896P	Siddarth Uppal	Mehanobiology of stem cells	Henry Yu	Pharmacy
176	2015A5TS0938P	Puneet Pareek	Exploring the synaptic mechanisms of subcortical and cortical interaction	Peter Somagyi	Pharmacy
177	2015A5PS0925P	Punit Harish Batra	Biodegradable polymer and their composting: an alternative compound to single use polymer	Akshay Varma	Pharmacy
178	2014B5AB0596P	Ajay Nathawat	Application of electromagnetic theory	J N Bandyopadhyay	Physics
179	2014B5A80876P	Udyan Mahajan	Electro-photon interaction in length, velocity	Rakesh Choubisa	Physics
180	2014B5A40799P	Naman Mishra	Sensing through quartz crystal	Manjuladevi V	Physics
181	2014B5A40825P	Aditya Joshi	Electron phenol interaction in solids for all dimensionalities	Rakesh Choubisa	Physics
182	2014B5A10881P	Nitin Mankani	Dft study of hybrid- Nano clusters	Debashis Bandyopadhyay	Physics
183	2014B5A80864P	Utkarsh Jain	Dft study of Nano clusters	Debashis Bandyopadhyay	Physics
184	2014B5A30600P	Prabhat Kumar Singh	Dft study of nanotubes	Debashis Bandyopadhyay	Physics
185	2014B5A40565P	A Ananthraman	Sensing for environmental monitoring	Manjuladevi V	Physics
186	2014B5A80848P	Ashish Bansal	Study of neutrino hierarchical problem	Madhukar Mishra	Physics
187	2014B5A40564P	Sangeet Sourav Sunder Roy	Laser propagation in cylindrical plasma	Amol Holkundkar	Physics
188	2014B5A40860P	Akshay Katta	Density functional theory based study of nano clusters and nanotubes	Debashis Bandyopadhyay	Physics
189	2014B5A30822P	Adit Aggarwal	Density functional theory based study of nano clusters and nanotubes	Debashis Bandyopadhyay	Physics
190	2014B5A80841P	Chirag Khatri	Study on debye screening in qed plasma and its implication	Madhukar Mishra	Physics
191	2014B5A20827P	Prateek Bhutani	High energy physics and high energy collisions	Madhukar Mishra	Physics
192	2014B5A30752P	Shubham Gupta	Hydrodynamics of the quark-gluon plasma	Madhukar Mishra	Physics

S.No	BITS ID	Name	Topic	Supervisor	Department
193	2014B5A10845P	Raghav Sharma	A gala based study of star clusters	Kaushar Vaidya	Physics
194	2015B5TS0209P	Aditya Vaswani	Mathematical physics -some studies in ergodicity in stochastic models	T G Sarkar	Physics
195	2014B5A30514P	Smriti Sharma	Classical field theory: a symmetry appraisal	Rishikesh Vaidya	Physics
196	2014B5A10874P	Pranati Jain	Quantum field theory :a path integral approach	Rishikesh Vaidya	Physics
197	2014B5A40831P	Prayag R Katta	Investigation of spiral galaxies in Virgo cluster	Sudhanshu Barway	Physics
198	2015A4PS0395P	Tejaswi B H	Modelling, design and manufacture of a nano-satellite	M. Krishnaswamy	Mechanical Engineering
199	2015A4PS0314P	Neeraj Gadi	Toward multi-spacecraft planetary exploration: adapting mutual impedance experiments to Nano satellites	Pierre Henri	Mechanical Engineering
200	2015A4TS0220P	Agarwal Vaibhav Sunil Kumar	Design and engineering of bi-and multistable shape memory micro actuators	Manfred Kohl	Mechanical Engineering

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S.No	BITS ID	Name	Topic	Supervisor	Department
1	2014B5A80967G	Vakharia Pujan A	Use cases of Block chain Consensus in Cognitive Science	Gaurav Dar	Physics
2	2014B5A40543G	Vaibhav Gupta	Collective dynamics of neurons & their synchronization	Gaurav Dar	Physics
3	2014B4A40307G	Anirudh Nanwal	Analytical Solution for beams reinforced with carbon nanotubes	Sandeep Singh	Mechanical Engineering
4	2015A8PS0533G	Akhil Kamath	Random Access Communication in IOT devices	Nitin Sharma	Electrical and Electronics Engineering
5	2015A3PS0253G	Ashish Phogat	Optimisation in Communication in IOT devices	Nitin Sharma	Electrical and Electronics Engineering
6	2014B3A80794G	Kshitiz Agarwal	Energy , environment and economic impact assessment of photovoltaic	M. K. Deshmukh	E&I
7	2014B2A30859G	Sumegha Singhania	Design of Lens Antenna	Asish Chittora	Electrical and Electronics Engineering
8	2014B5A80634G	Vaibhav Sanghi	Designing a low profile microstrip patch antenna for multiple wireless applications	Sudeep Baudha	E&I
9	2015A8PS0468G	Namya Sharma	Development of IOT system for monitoring of gases	Sarang C Dhongdi	Electrical and Electronics Engineering
10	2015A8PS0447G	Gurdain Singh Madan	Medical Electronics	Dipankar Pal	Electrical and Electronics Engineering
11	2014B3A80579G	Chetan Swaroop Tiwari	Role of R&D and Innovation in an organisation	Aswini K Mishra	Economics
12	2014B3A80541G	Vedant Bhardwaj	Wealth Inequality and its consequences	Aswini K Mishra	Economics
13	2014B4A80478G	Siddharth Shenoy	Hamiltonian Problem of weighted gmph	Himadri Mukherjee	Mathematics
14	2014B4A30406G	Anish Kumar	3D reconstruction from 2D images using deep learning	Bijil Prakash	Mathematics
15	2015B4PS0438G	Nupur Kokate	Improved Coleman Index	Himadri Mukherjee	Mathematics
16	2015A7PS0034G	Shrehal Bohra	Detecting Human activities using Deep Learning	Vinayak Naik	Computer Science
17	2014B5A40607G	Swarit Kohil	Simulation of crack propagation on coated sample subject to heat	G Karthikeyan	Mechanical Engineering
18	2015A4PS0336G	Satyam Gupta	Discrete Event Simulation based Investigation & improve Operations	Varinder Singh	Mechanical Engineering
19	2015A4PS0319G	Gaurav Patil	Microfluidics for agricultural Applications	Siddhartha Tripathi	Mechanical Engineering
20	2014B1A80724G	Katyayan Anand	Gold Nano particle mediated drug delivery in vitro studies using oral cancer cell lives	Vijayashree Nayak	Biological Sciences

S.No	BITS ID	Name	Topic	Supervisor	Department
21	2014B1A10869G	Harsh Vimal	Behavioural Economics, Finance & Investing: Heuristics & Biases	Veeky Baths	Biological Sciences
22	2014B5A10898G	Mayank Surendra Bhandarkar	Analysis of the use of computational physics in film making for special effects and CGI	Radhika Vathsan	Physics
23	2014B2A40783G	Aditya Kamath	Machine Learning to Predict fracture in materials	D. M. Kulkarni	Mechanical Engineering
24	2014B2A10788G	Chitaluri Krishna Rohit	Lipopeptides for cosmetic emulsions	Vivek R	Chemical Engineering
25	2014B3A10553G	Arpit Mathur	Electrospun nano-fiber based air filters for capturing particulate matter	Richa Singhal	Chemical Engineering
26	2014B4A10235G	Gandhi Prasheel Chetan	Lipopeptides for cosmetic emulsions	Vivek R	Chemical Engineering
27	2014B3A10656G	Devesh Rawat	Design a prototype for water purifier for rural areas	Anirban Roy	Chemical Engineering
28	2015A1TS0135G	Sharangdhan S Bhave	CFD modelling of asphaltene deposition rate from refinery streams	Srinivas Krishnaswamy	Chemical Engineering
29	2014B2A80964G	Mehul Kaushik	EEG Signal Processing	Veeky Baths	ENI
30	2014B2A30958G	Atish Kumar Sinha	EEG Signal Analysis & Consumer Neuroscience	Veeky Baths	Electrical and Electronics Engineering
31	2014B4PS0586G	Nimish Atul Wagh	Application of voting genes to International relations	Himadri Mukherjee	Mathematics
32	2015B4PS0406G	Ashwary Sharma	Smooth Manifolds and Associated Structures	Shilpa Gondhali	Mathematics
33	2015B4PS0779G	Sumeet Kundnani	Speech to sign language through neural networks	J K Sahoo	Mathematics
34	2014B3A80593G	Piyush Pahwa	Machine Learning-based fall detection in geriatric health care systems	K R Anupama	Electrical and Electronics Engineering
35	2014B1A40864G	Aman Garg	Role of liraflutide in cancer Management	Arnab Banerjee	Biological Sciences
36	2014B3A10533G	Tadanki Joy Stephen	Application of mHealth for the improvement of chil; immunization coverage in India	Partha Saha	Economics
37	2013B1A80774G	Vishal Lavani	Neuroeconomics: Understanding consumer behaviour for isolating effective marketing stimulation	Veeky Baths	Biological Sciences
38	2014B5A40790G	Samyak Jain	Two-Phase flow analysis for nanofluid in a microchannel	Ranjit Patil	Mechanical Engineering
39	2014B4A70914G	Yash Pandya	Application of Machine learning for language agnostic knowledge extraction	Shailesh Kumar	Mathematics
40	2014A8B50373G	Shivan Khullar	Gravitational De coherence	Joseph Samuel	Physics
41	2014B5A70808G	Akshay Jagatap	Deep Learning in Cognitive Neuroscience	Sridhar Devavajan	Physics
42	2014B5A40695G	Rohit Shekhar	Aspects of Quantum Gravity	Chethan Krishnan	Physics
43	2014A7B50087G	Annie Ray	Quantum Error Correction	Raymond Laflamme	Physics
44	2014B5A40523G	Kishore Gopalakrishnan	Properties of stochastic interacting particles in low dimension	Anupam Kundu	Physics
45	2014B5A40469G	Rachith Aiyappa	Modelling Behavioural Cascades on Adaptive Networks	Pawel Romanczuk	Physics + Mechanical
46	2015B5PS0574G	Soumil Maulick	Aspects of quantum field theory in cosmology and/ or black hole physics	Timm Wrase	Physics
47	2014B3A70419G	Amith P	Learning & Generalizing Task-Oriented Grasping	David Held	Computer science& Economics
48	2014B4A70427G	Ashutosh Saboo	Rhythm Detector: A digital Tool to Identify free verse prosody	Timo Baumann	Computer Science and Information system & Mathematics
49	2014B5A70369G	Abhik Ray	Theoretical Analysis of Convergence in reinforcement learning	Harshad Khadilkar	Computer Science and Information system & Physics
50	2014B5A70598G	Nikhil Ramesh	Dynamics of gene regulation networks: The role of structural balance and frustation	Sitabhra Sinha	Computer Science and Information system & Physics

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51	2014B1A70697G	Urvashi Jain	To Study the role of DNA methylation in regulating inflammatory gene expression in macrophages using computational techniques and data analysis	Siddhartha Jaiswal	Computer Science and Information system
52	2014B1A30937G	Glenn Jacob Fernandes	ECG & EEG system for personalized active learner	Mina Khan	Biological Sciences
53	2015A4PS0241G	Ishaan Kohli	Automation of micro manufacturing process	Sunil Jha	Mechanical Engineering
54	2014B3A70484G	Piyush Gupta	Power law in Firms	Shashwat	Economics
55	2014B5A10679G	Prathamesh Bodhankar	Effect of heat treatment on the microstructures & mechanical properties of commonly used carbon steel	Supratik Roychowdhury	Chemical Engineering
56	2014B2A10678G	Wahiduddin Patel	Catalytic Oxidation Reactions	Marisa C Kozlowski	Chemistry & chemical
57	2015A4PS0223G	Atharva Vaidya	Graphene Growth system development	Shobha Shukla	Mechanical Engineering
58	2015A4PS0307G	Abhimanyu	Control & Design of Walking Robot Accessories	Shishir NY	Mechanical Engineering
59	2015A4PS0362G	Ameya Shah	Computational Fluid Dynamics(Multi-fluid plasma models, Magnetic reconnection & high-order Flux Reconstruction methods	Stefaan Poedts	Mechanical Engineering
60	2015A4PS0279G	Chetan Gour	Effect of Methanol on low temperature combustion Engine: Spray Characterization	Devendra Deshmukh	Mechanical Engineering
61	2015A4PS0387G	Surendra Padamata	Modelling of Cosmic ray accelerator	Francis Halzen	Mechanical Engineering
62	2014B1A40939G	Nissim Gore Datar	Design & Development of a Flow-through System for Continuous Disinfection of Domestic Waste water	Michael R Hoffman	Mechanical Engineering
63	2015A8PS0425G	Vashisht G Anand	Applications of Machine learning in Power supply of Palm oil Processing	Vankina Naga Srinivasa Prasad	E&I
64	2014B5A30906G	Akash Navani	Internet of things interoperability Framework	Hakima Chaouchi	EE&I
65	2015A3PS0224G	Adithya Narayanan	Enhancing Processor Designs for Efficiency and Performance	Trevor E Carlson	Electrical and Electronics Engineering
66	2015A8PS0445G	Abhishek Moitra	Hardware implementation of Neuromorphic Circuits	Chetan Singh Thakur	Electrical and Electronics Engineering
67	2014B5A30449G	Lucky N Kapoor	Nanoscale mechanics with magnetism	Mandar M Deshmukh	Electrical and Electronics Engineering
68	2014B5A30599G	Deshpande Sanket Sushil	Design of electronic system for magneto-optical trap for cold atom-interferometry	Ravi Kumar	Electrical and Electronics Engineering
69	2015A3PS0219G	Anirudh Dwarakanath	Integrated circuits and systems for structural health Monitoring	Soumyajit Mandal	Electrical and Electronics Engineering
70	2014B5A30677G	Pratik Manwani	Beam Instrumentation and Physics of Plasma based Accelerators	James Rosenzweig	Electrical and Electronics Engineering
71	2014B2A30889G	Piyashi Biswas	Novel Biosensing Strategies to quantitate procoagulant and anti-coagulant factors associated with blood clotting	Abhishek Jain	Electrical and Electronics Engineering
72	2014B1A30933G	Evam Gilotra	FPGA based reconfigurable embedded systems for mixed criticality	Lars Bauer	Biological Sciences
73	2015A4PS0249G	Smit Himanshu Shah	Soft Robots Design and Manufacture	Pablo Valdivia Y Alvarado	Mechanical Engineering
74	2014B5A40644G	Prashant Solanki	Optical Fibre Designing & Manufacturing	Manoj Kumar Singh	Mechanical Engineering
75	2014B2A70959G	Atul D Shanbhag	Semi-Conductor process Development Optimization Using Deep Learning	Li Joel	Chemistry & Computer Science and Information system

S.No	BITS ID	Name	Topic	Supervisor	Department
76	2014B3A70938G	Shivam Agarwal	Computer vision based demographic analysis of crowds	Noel o Connor	Economics & Computer Science and Information system
77	2014B4A40896G	Smith Sen	Application of the theory of modular forms in factorization of integers	Sanoli Gun	Mathematics& Mechanical
78	2014B4A40337G	Divya Mishra	Prediction of airfoil performance using Machine Learning	Xiangyu Hu	Mathematics
79	2014B4A70526G	Sanyam Mehta	Post Quantum Cryptographic Protocols	Vishal Saraswat	Mathematics
80	2014B4A70782G	Manu Saraswat	Using Deep Learning to infer Parameters of Probabilistic models in Population Genetics	Stephane Guindon	Mathematics & Computer Science and Information system
81	2014B4A70595G	Bauskar Await Jitendra	Design, implementation and evaluation of a novel storage controller for cloud of things	Adrien Lebre	Mathematics & Computer Science and Information system
82	2014B4A40555G	Rathi Shubham Pawan	Development of Xsolar-Hetero, a web based photovoltaic simulation platform	Rolf Stangi	Mathematics
83	2015B4TS0444G	Saloni Singh	Implement new statistical or other mathematical methodologies as needed for specific models or analysis	Sanjay Patwandhan	Mathematics
84	2014B4A30692G	Shourya Bose	Design and Analysis of Networked control systems	Panankumar Tallapragada	Mathematics
85	2014B4A30909G	Sammit Jain	Geometrical descriptors of Cell distributions	Jean Christophe Olivo Marin	Mathematics
86	2014B4A70623G	Apeksha Jain	Derivatives Modelling	Sriram Kovil	Mathematics
87	2015A7PS0023G	Samarth Mittal	Deep Learning based Scene Text Detection	Lu Shijian	Computer Science and Information system
88	2015A7PS0083G	Siddhant Jain	Multi-Modal Sentiment Analysis	Soujanya Poria	Computer Science and Information system
89	2015A7PS0108G	Mugdha Mohapatra	The analysis and visualisation of tweets and social activities by Indian politicians	Joyojeet Pal	Computer Science and Information system
90	2015A7PS0033G	Shreyas N Bhat	A cryptographically secure two-party computation backend for machine learning tasks	Nisanth Chandran	Computer Science and Information system
91	2015A7PS0105G	Ria Arora	Generative Adversarial Network(GAN) for image generation	Luigi Malago	Computer Science and Information system
92	2015A7PS0003G	Wazeer Zulfikar	Development of Generative models of MR images of the brain and tumor development using Deep Learning.	Satrajit Ghosh	Computer Science and Information system
93	2015A3PS0192G	Sahith N D	Mutual Information Maximization for multi-agent Reinforcement Learning	Jian Tang	Electrical and Electronics Engineering
94	2015A7PS0053G	Devvrit	Approximation Algorithms	Ravishankar Krishnaswamy	Computer Science and Information system
95	2015A1PS0705G	Onkar More	Synthesis and Process development of Dapagliflozin	Vijaykumar Pawar	Chemical Engineering
96	2015A1PS0442G	Prathmesh M Vinze	Modelling Multiphase flows in micro fluidic systems	S Pushpavanam	Chemical Engineering
97	2014B5A30401G	Jaychandran Padayasi	Numerical studies of surface states of Weyl Semimetals	Andre-Marie Tremblay	Electrical and Electronics Engineering

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98	2014B4A70603G	Aaditya Vikas Vaze	New Techniques for interactive visualization, linking and navigation	Karan Singh	Computer Science and Information system
99	2015A3PS0295G	Pranav Garg	Neuro computational approaches to studying selective attention	Sridharan Devarayan	Computer Science and Information system
100	2014B3A70415G	Rohan Gajendragadkar	Understanding the impact of conflict on human displacement	Joshua Blumenstock	Economics
101	2014B1A30875G	Jain Honey Ashok	Fragment based docking and combinatorial assembly of intrinsically disordered proteins	Chauvot de Beauchene, Isaure	Biological Sciences
102	2014B4A70894G	Akhilesh Siddhanti	Cryptoanalysis of Stream and block ciphers	Subhamoy Maitra	CS & Mathematics
103	2014B1A30709G	Heer Vipul Joisher	Investigating the functional consequences of mutations at the Rev7 interface of Rev 1 Translesion synthesis polymerase	Graham C. Walker	Electrical and Electronics Engineering
104	2014B5A40609G	Tejas Ajay Zodage	Design and Manufacturing of hybrid robot wrist mechanism	Howie Choset	Physics & Mechanical Engineering
105	2014B1A30663G	Shabad Lamba	Generate music using procedural content generation for game and test the useability of the generated music in the different genre of games	Vinoo Alluri	Biological Sciences

HYDERABAD CAMPUS

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2013AATS0278H	MV Vamshi Krishna	Women's employment and empowerment-An impact assessment of TSRTC's policy to employ female bus conductors	BVVSN Prabhakar Rao, Sunny Jose	Electrical and Electronics Engineering
2	2013B3A20574H	NVCM Reddy	Structural health monitoring using wireless sensor network	Mohan S C	Civil Engineering
3	2014A4B50369H	Saaransh Singhal	Sedimentation of objects in viscous fluid	Rama Govindarajan, Aravinda R	Physics
4	2014B1A20784H	Kunal Agarwal	Optimization of waste water treatment plants using Machine Learning	Sankar Ganesh	Biological Sciences
5	2014B1AB0902H	Paran Goel	Bio-chemical bio-physical and Immunological characterization of DT mutant CRM197	Sujit R, Suman Kapur	Mechanical Engineering
6	2014B1TS0914H	Ashish Apkari	Understanding the effects of mediator molecules made by gut microbes	Suman Kapur	Biological Sciences
7	2014B2A10750H	Siddhant Kumar Patel	Molecular dynamics simulation of polysaccharides in water	Durba Roy	Chemistry
8	2014B2A10907H	P Rohan	Microbe immobilized on a carbonaceous matrix for the recovery of europium	N Rajesh, Vidya Rajesh	Chemistry
9	2014B2A20757H	Nitu Pandia	Synthesis of ferrite nano particles	Balaji G	Chemistry
10	2014B2A30782H	Aurnab M	Early detection & diagnosis of micro cardial infraction using U-fluidic paper based sensor and ECG signal processing	BVVSN Prabhakar Rao	Electrical and Electronics Engineering
11	2014B2A70975H	Anshal Mukhesh Lad	Block chains and electronic health records	Subhrakanta Panda	Computer Science and Information system
12	2014B2AA0795H	Parav Singla	Electronic band structure calculations of graphene based VDW layers	Sumithra	Chemistry
13	2014B3A10962H	KS Shivaram	Study on frequency and quality of antenatal care in India	Rishi Kumar	Economics & Finance
14	2014B3A70381H	Arvind AS	Use of time series analysis and machine learning for lie detection	Chng Eng Siong, Jabez J C	Computer Science and Information system
15	2014B3A70501H	Vaibhav Agrawal	A neural information extraction pipeline with recall-awareness	Simon Razniewski, Rishi Kumar	Economics & Finance

S.No	BITS ID	Name	Topic	Supervisor	Department
16	2014B3A70604H	Yash Raj Jain	Developing cognitively informed meta-level RL algorithms	Folk Lieder, NL Bhanumurthy	Computer Science and Information system
17	2014B3A70739H	Supriya Lakhtakia	Domain Specific Extractive Summerization	Vasudeva Varma, Aruna M	Computer Science and Information system
18	2014B4A10507H	G Tarun Sai	Flow past axi-symmetric bodies	TSL Radhika	Mathematics
19	2014B4A20523H	KVP Srikanth	Utilisation of reclaimed asphalt pavement with waste plastic	Sridhar Raju	Civil Engineering
20	2014B4A30655H	Subhaprada Chand	Dominating set problem and dynamic programming	M Alphonse	Mathematics
21	2014B4A30761H	I Anook	Mathematics of signal processing	TSL Radhika	Mathematics
22	2014B4A30981H	Prateek Jain	Dominating set problem and its applications	M Alphonse	Mathematics
23	2014B4A40543H	Tarun Kumar S	Detection of insurance fraud claims using data analysis	PTV Praveen	Mathematics
24	2014B4A40760H	Shubham Malani	Optimize an ideal evaporative cooling system based on climatic conditions	SP Datta	Mechanical Engineering
25	2014B4A40982H	Adnan Ahzam	Statistical prediction and its implication on Big data	V Hara Gopal, DK Satpathi	Mathematics
26	2014B4A70525H	Ahana Ghosh	Robust AI agents for human-AI partnerships	Adish Singla, NL Bhanumurthy	Computer Science and Information system
27	2014B4A70648H	Karran Pandey	Topological analysis of time varying scalar fields	Vijay Natarajan, Sharan Gopal	Mathematics
28	2014B4A70752H	Abhishek Singh	Study of Topological Dynamics with an emphasis on symbolic dynamics	Sharan Gopal	Mathematics
29	2014B4AA0745H	Vibhu Agrawal	Medical Image Segmentation using Deep Neural Networks	SK Chatterjee	Electrical and Electronics Engineering
30	2014B4AA0758H	Aditi Bodhankar	Fabrication and Characterization of Carbon Field Emitting Guns	Swati Sharma, J Jagan Mohan	Mathematics
31	2014B4AA0762H	Praful Gupta	New entropy measure for the analysis of physiological signals	Rajesh Kumar Tripathy	Electrical and Electronics Engineering
32	2014B4AA0929H	Utkarsh T	Analysis of spiking neural network	K Venkat Ratnam	Mathematics
33	2014B5A20641H	YSS Kashyap	Prediction of precipitation using Artificial Neural Networks	Anmala Jagadeesh	Civil Engineering
34	2014B5A20728H	Alam Hitendra Sai	Precipitation prediction using neural networks	Anmala Jagadeesh	Civil Engineering
35	2014B5A30740H	K Chandra Vardhan	Frequency resolved Terahertz Nonlinear characterization of semiconductor materials	G Ravindra Kumar, PK Pattnaik	Electrical and Electronics Engineering
36	2014B5A30766H	Mohit Upadhyay	Processor Microarchitecture Feature Exploration and Performance Evaluation using both Simulator and Hardware Systems	Anasua Bhowmik, Soumya J	Electrical and Electronics Engineering
37	2014B5A30774H	Yogesh Rajesh K	Using machine Learning for characterization at the gravitational wave observations	Sanjit Mitra, Rahul Nigam	Physics
38	2014B5A30925H	Avijit Singh	Artificial Neural Networks for Network-on-chip mapping	Soumya J, Thiruvikraman	Physics
39	2014B5A30996H	Suraj Partani	Validation of the prototype developed for detecting cancer biomarker	Yogeeswari, Sarmistha Banik	Physics
40	2014B5A40564H	Parakh M Gupta	Mod Quad: Flying modular structure that self-reconfigures mid-air	Vijay Kumar, Rahul Nigam	Physics
41	2014B5A40676H	Vivek Vardhan M	Study of radiative and optical properties of nanofluids for application in PV/T solar panels	Kannan R, N Jalaiah	Physics
42	2014B5A40712H	Ebenzer Prasanna	Investigation into fabrication of Hybrid solid electrolyte for Li metal battery	MB Sahana, Kannan R	Physics
43	2014B5A70770H	Kshitij	Image processing	Rahul Nigam	Physics
44	2014B5A70775H	Aditya Vidhate	Impact of the Cosmic Web on the properties of Damped Lyman Alpha systems	Aseem Paranjape, Aruna M	Computer Science and Information system
45	2014B5A70932H	Meghana K	Exploitation of Data Redundancy for Traffic sign Detection	Horst Bischof, PK Thiruvikraman	Physics

S.No	BITS ID	Name	Topic	Supervisor	Department
46	2014B5A80725H	B Om Subham	Theoretical study on structure formation & spherical collapse for f(R) models	Rahul Nigam, PK Pattnaik	Electrical and Electronics Engineering
47	2014B5A80767H	Ashutosh Kumar	Microfluidics in Y-Channel	Meenakshi V/Sanket Goel	Electrical and Electronics Engineering
48	2014B5AA0771H	VR Dinesh Kumar	Antenna Design for UAV Applications	Runa Kumari, Sourav Nandi	Electrical and Electronics Engineering
49	2014B5AA0961H	Ebin Philip	Dynamics & Control of Biped Robotics	SK Sahoo, Kannan R	Physics
50	2014B5AA0992H	D Raghu Vamshi	Fast multipole method & its applications	PK Thiruvikraman	Physics
51	2014B5AB0658H	CH Jagadeep	Algorithms in Quantum Computing	KVS Shiv Chaitanya	Physics
52	2014B5AB0716H	Rajat Bansal	Development of spectrofluoro meter	Suman Kapur, VSN Murthy	Physics
53	2015A1TS0670H	Shivansh	Improving yield of articles of production	Vedant K, Satya Paul Singh	Chemical Engineering
54	2015A1TS0728H	Arvind Hrishikesh T	Lean manufacturing practice in operations of production unit	Vedant K, Nandini	Chemical Engineering
55	2015A1TS0751H	S Raguvaran	Modelling & Simulation of CO2 Sequestration	Vikranth Kumar S	Chemical Engineering
56	2015A1TS0770H	Mohit Agrawal	Reduction of wastage from production unit	Vedant K, Lakshmi Sirisha P	Chemical Engineering
57	2015A2TS0445H	Nitin Kumar	Optimisation of reservoir operations using non-stationery conditions	KS Raju	Civil Engineering
58	2015A2TS0496H	Himakar S A N	Seismic performance of irregular buildings using buckling restrained braces	Kalyana Rama J	Civil Engineering
59	2015A2TS0526H	B Atul Singh	Precipitation prediction using ANN	Anmala Jagadeesh	Civil Engineering
60	2015A2TS0530H	Arijit Sarkar	Stabilization of black cotton soil with biochar & water hyacinth fibre mix	Anasua Guharay	Civil Engineering
61	2015A2TS0550H	Kartik Narula	Robustness and efficiency of our transport networks	A Vasan, Prasanta Kumar Sahu	Civil Engineering
62	2015A2TS0576H	Avanindra Singh R	To study and build a frame work for measuring the LOS of Hyderabad Metro	Bandhan B M	Civil Engineering
63	2015A2TS0581H	Vashistha Dewangan	Numerical study of structural responses of flexible pavement overload with thin white tapping	V Vinayaka ram	Civil Engineering
64	2015A2TS0628H	Sumeet Mohanty	Numerical study of structured responses of rigid pavements with changing load patterns	V Vinayaka Ram	Civil Engineering
65	2015A2TS0643H	Charu Srivatsava	Dynamic analysis of pile foundations by FEA	Anasua Guharay	Civil Engineering
66	2015A3TS0320H	KVVS Trinadh	Implementation of Arthmetics in Digital image processing	Syed Ershad A	Electrical and Electronics Engineering
67	2015A3TS0328H	Ishaan Dewangan	ECG signals & heart diseases prediction	BVVSN Prabhakar Rao	Electrical and Electronics Engineering
68	2015A3TS0352H	Madhav Singh	Designing a system prototype of recommendation system for virtual labs software	Venkatesh Ch, Jabez Christopher	Electrical and Electronics Engineering
69	2015A4PS0847H	Vivek Sharma	Developing simulator for commulation process	Sabareesh, GK Anantha Suresh	Mechanical Engineering
70	2015A4TS0275H	K Sai Manoj	Enhancement of mechanical properties of Titanium alloys using Themo-Mechanical processes	AK Gupta	Mechanical Engineering
71	2015A4TS0315H	Sandeep Kumar S	Numerical simulations & parametric investigations during RFA of breast tumor	Satish Dubey	Mechanical Engineering
72	2015A4TS0319H	Shah Akshat Hitesh Kumar	Design and Analysis of Cryostate	HB Naik, R Parameshwaran	Mechanical Engineering
73	2015A4TS0329H	Manish Rudraraju	Achieving Resetting Excellence and Poka Yoke	Manohara Reddy, YVD Rao	Mechanical Engineering
74	2015A4TS0393H	Kush Dwivedi	Wind load mitigation on low rise buildings (LIGO-India observatory)	KRC Murthy, Sabareesh	Mechanical Engineering
75	2015A4TS0395H	Vaibhav Sharma	Shape optimization of MEMS Heaters	Satish Dubey, Saurabh K	Mechanical Engineering

S.No	BITS ID	Name	Topic	Supervisor	Department
76	2015A4TS0403H	Anadi Prakhar	Micro channel simulation	Satish Dubey	Mechanical Engineering
77	2015A4TS0416H	K Uday Kiran	To study & analyse the machinability of Mg. Alloy to carryout surface characteristics	NSK Reddy	Mechanical Engineering
78	2015A4TS0423H	Murtaza Bohra	Propagation of wave in meta material for vibration attenuation	Sabareesh	Mechanical Engineering
79	2015A4TS0440H	Jayesh Sanwal	Analysis of 2DE turbulence in Taylor-Couette Flows	Gregory Falkovich, KRC Murthy	Mechanical Engineering
80	2015A4TS0851H	Kartik Bali	Development of ALF solves for moving mesh problems	Supradeepan	Mechanical Engineering
81	2015A4TS0987H	Bharat Reddy CH	Design and Fabrication of Micro fuel cells	Satish Dubey	Mechanical Engineering
82	2015A5TS0852H	Debolina S	Development of resistant oral cancer cell and estimation of biomakers	Swati Biswas	Pharmacy
83	2015A5TS0854H	Apporva A	Market research of Gabapentin and Lidocaine Gel as supportive therapy for Diabetes	Ravikanth D, D. Sriram	Pharmacy
84	2015A5TS0856H	Akshay S	Effect of Silymarine in the progression of chronic kidney disease	Onkar K, VV Krishna	Pharmacy
85	2015A5TS0857H	Prachi Mehta	Polymer Based Targeted Delivery Systems for Anti-Cancer Drug Delivery	Ashok M R, D. Sriram	Pharmacy
86	2015A5TS0860H	Pooja Mani	role of lipid droplets in bacterial control in macro pharms	Sheetal Gandotra, D. Sriram	Pharmacy
87	2015A5TS0863H	Srividya Bharathi B	Synthesis of anti-cancer agents	Balaram Ghosh	Pharmacy
88	2015A5TS0869H	Gajraj Singh R	Explaining mechanisms to identify response to immune checkpoint inhibitors	Balaram Ghosh	Pharmacy
89	2015A5TS0871H	K Shanmukhi	Pharmacokinetic & Pharmacodynamic correlation	Punna Rao R	Pharmacy
90	2015A5TS0872H	Sowmya T	Characterization and phenotyping of cell specific NLRP3 inflammasome knockout and overactivation in TG animals	Hans-Joachim Anders, Onkar K	Pharmacy
91	2015A7TS0023H	Hitesh V Bhachandani	User modelling through Microsoft products' usage logs	Shwetabh K, Jabez J C	Computer Science and Information system
92	2015A7TS0044H	Ajaykrishna Karthikeyan	Data driven software development using Reinforcement Learning	Nagarajan N, Aruna M	Computer Science and Information system
93	2015A7TS0052H	CH Rakesh	Smart file layout for efficient analytic query processing	Bhargav Gulavani, Jabez J C	Computer Science and Information system
94	2015A7TS0056H	Keyur Jain	RPM Prediction	Paras Malik, Lov Kumar	Computer Science and Information system
95	2015A7TS0077H	Amey Athale	Deep learning on IOT system	Chittaranjan Hota	Computer Science and Information system
96	2015A7TS0106H	Tarun Raheja	Tailoring DMRGalgorithm to study Potts' Model	Sreejith GJ, Suvadip Batabyal	Computer Science and Information system
97	2015A7TS0116H	Bhavesh	Optimize ML algorithm of low power devices	Chittaranjan Hota	Computer Science and Information system
98	2015A7TS0119H	Afroz Ahamad S	Improving programming accessibility	Suresh Parthasarathy, Aruna M	Computer Science and Information system
99	2015A7TS0142H	V Thejas	Approximate Optimizations for Training deep Neural Networks	Nipun Kwatra, G Geethakumari	Computer Science and Information system

S.No	BITS ID	Name	Topic	Supervisor	Department
100	2015A7TS0143H	Keval Morbia M	Learning Network Embedding for Enterprise Applications	Arun Iyer, NL Bhanumurthy	Computer Science and Information system
101	2015A7TS0145H	Ankit Anand	Recommendation models in enterprise social networks	Ayush Choure, Jabez J C	Computer Science and Information system
102	2015A7TS0175H	Aditya Kumar	Improvements in Project Sankie at Microsoft Research	Sonu Mehta, Lov Kumar	Computer Science and Information system
103	2015A7TS0382H	Anirudh Srinivasan	Grounded Language Learning (Baby AI Game)	Yoshua Bengio, Aruna M	Computer Science and Information system
104	2015A7TS0952H	Gaurang Vichare	Web service anti-pattern prediction	Lov Kumar, NL Bhanumurthy	Computer Science and Information system
105	2015A7TS0954H	Arnav Dhamija	Disruption tolerant networks for Underwater Apps	Mandar Chitre, Suvadip Batabyal	Computer Science and Information system
106	2015A8TS0398H	S Sandeep Kalyan	Stae of the Art of Penetration Testing	Subhrakanta Panda/Sayan Kanungo	Electrical and Electronics Engineering
107	2015A8TS0476H	Rajbir Singh M	Statistical models and methods to analyze immunization	Sanket Goel/Rishi Kumar	Electrical and Electronics Engineering
108	2015AATS0246H	DS Siddharth	Analysis of R-R time series and EDR for prediction of cardiovascular events	Rajesh Tripathy	Electrical and Electronics Engineering
109	2015AATS0263H	Bharat Raghunanthan	Information extraction from Clinical Text	Babu Ozhur N/Sudha Radhika	Electrical and Electronics Engineering
110	2015AATS0269H	MES Srikar	Applications of Beamforming in New Age Communications	Runa Kumari	Electrical and Electronics Engineering
111	2015AATS0979H	Karthik N	ECG Signal Detection & Processing	BVVSN Prabhakar Rao	Electrical and Electronics Engineering
112	2015ABTS0641H	Sreeram Rajesh	Design of Microfluidic channel for Micro-G Bio Experiments	KRC Murthy, Aloke Kumar	Mechanical Engineering
113	2015ABTS0752H	Nikhil Sharma	Fabrication of a mode of lithium ion battery	Sujit R	Mechanical Engineering
114	2015ABTS0754H	Rishabh Jain	Lean production and supply chain management	Daniel Fries, Sujit R	Mechanical Engineering
115	2015B2TS0804H	Krishna Patil	Synthesis and characterization of Polyazine Ligands and Heteroleptic Complexes	R Krishnan	Chemistry
116	2015B4TS0606H	M Nischay Ram	A GPU accelerated meshfree solver for compressible fluids flows	N. Anil	Mathematics
117	2015B4TS0661H	R Saikrishna	Solutions to D.E using Lie Group theory	TSL Radhika	Mathematics

DUBAI CAMPUS

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2015A7TS0198U	Mihir Prabhudesai	Machine Learning for Unstructured Data Analysis	Nandkumar	Computer Science
2	2015A7TS0171U	Keshav Maheshwari	Design and Implementation of Customer Targeted E-Commerce Using	Sujala Shetty	Computer Science
3	2015A7TS0142U	Ishan Shastri	Analysing and Exploring Different Ledgers of Block chain by Using Artificial Intelligence and Data Science Techniques	Santhosh Kumar	Computer Science
4	2015A7TS0328U	Shaleen Bengali	Deep Learning for Enhancing Smartphone Photography	S. Vadivel	Computer Science
5	2015A7PS0273U	P Sai Sudharshan	A Framework for Distributed Storage, Indexing and Retrieval for Document Centric XML	B. Vijayakumar	Computer Science

S.No	BITS ID	Name	Topic	Supervisor	Department
6	2015A7TS0403U	Vanshika Sharma	Mobile Robot Path Planning and Area Mapping: Feature Extraction on LiDAR	Santhosh Kumar	Computer Science
7	2015A7TS0302U	Rohit Beriwal	Analysis of Quantum Circuit with Faulty Gates	Angel Arul Jothi	Computer Science
8	2015A3TS0141U	Indraneel Patil	Real-Time Intelligent Path Planning in the 3D Workspace for the Robotic Control of a 6 DOF AMM 1410 Industrial Manipulator	V. Kalaichelvi	Electrical & Electronics
9	2015A4TS0452U	Gayathri Hariharan	A Micromechanical Model to Predict Elastic/Viscoelastic Behavior of Syntactic Foams	Priyank Upadhyaya	Mechanical Engineering
10	2015A4TS0433U	Zoheb S. Razak	Optimization of Transpiration Cooled Gas Turbine Blades at Maximum Temperatures	Shashank Khurana	Mechanical Engineering
11	2015A4TS0293U	Rishabh Aggarwal	Study and Analysis of Polymer Based Extrusion Moulding Machine	C. Perisamy	Mechanical Engineering
12	2014A3A40001U	Shamith Louis Saldhana	Control of Autonomous Ground Vehicle for Pipeline Monitoring	R Karthikeyan	Mechanical Engineering
13	2015A9TS0304U	Rubitha Souresh	Exploring the Versatility of Cyanobacteria as Host and Substrate for Hydrogen Production	Namita Khanna	Biotechnology
14	2015A9TS0239U	Namisha Bohara	Cloning, Expression and Purification of Human Hair Keratin in E.coli	Pallab Sanpui	Biotechnology
15	2015A9TS0353U	Sidra Raihan	Meta-Analysis of Association Studies for CAPNIO Gene Polymorphisms with Polycystic Ovarian Syndrome	D. J. Shariff	Biotechnology
16	2015A7TS0427U	Yuvraj Borkade	Understanding the Role of Blockchain Technology in Recent Financial Disruptions and Anticipating its Future Impacts and Opportunities	Natesa Prasad	Humanities

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PILANI CAMPUS

S.NO	BITS ID	Name	Topic	Supervisor	Department
1	2015B1A30325P	Bhavesh Munot	Genomic analysis of plasmodium	Vishal Saxena	Biological Sciences
2	2015B1A70854P	Shrey Bipin Shah	Biomedical image analysis lung cancer detection using CT and pet images	Takio Kurit	Biological Sciences
3	2015B1A30652P	Akshit Deep Singh	Joint data sensing and analysis for cell biology applications	Chen-Yi-Lee	Biological Sciences
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	Biological Sciences
5	2015B1A40694P	Animesh Jain	Bio robotic butler pickpal, a mechanical hand to pick and progress	Naveen Boppan	Biological Sciences
6	2016A2PS0868P	Vighnesh Mahak	Application of artificial neural network in rock mechanics and landslide prediction	Nishant Roy	Civil Engineering
7	2016A2PS0823P	Ashutosh Kumar Gupta	Analysis of behaviour of base-isolated structures.	Dipendu Bhunia	Civil Engineering
8	2016A2PS0631P	Abhishe Anand	Non-linear dynamic time history analysis of tall buildings.	G. Muthukumar	Civil Engineering
9	2015B2A20705P	Kavish Gupta	Study the behaviour of concrete	Manoj Kumar	Civil Engineering
10	2016A2PS0869P	Mahesh Kaushik	Static and dynamic behavior of footing resting on reinforced soil	Ravikant Mittal	Civil Engineering
11	2016A2PS0798P	Raghav Agrawal	Modern drainage systems in urban planning and designing	A.K. Gosain	Civil Engineering
12	2016A2TS0515P	Aditya Shashikant Katyayan	Controlling swelling of expansive soil using compressible inclusion	Dasaka S. Murty	Civil Engineering
13	2014B1A20755P	Abhinav Singh	Real time monitoring of surface water resources using data acquisition system with optimization tech.	Sanjay Kumar Agarwal	Civil Engineering
14	2015B1A10540P	Sanchit Bajaj	Applications of machine learning in chembio system engineering	Abhishek S Dhoble	Chemical Engineering
15	2016A1PS0399P	Rishank Pandey	Simulation studies on fermenter for mitigation of co2	Smita Raghuvanshi	Chemical Engineering
16	2016A1TS0383P	Ashwin S Sudarshan	Data mining and data analytics	Sanjay Swarup	Chemical Engineering

S.NO	BITS ID	Name	Topic	Supervisor	Department
17	2016A1PS0503P	P.S.S.B.R. Rahul	Evaluation of co poisoning in pemfc electro catalysts	Vladimir Matolin	Chemical Engineering
18	2016A1PS0794P	Apoorva Gupta	Development of a near field infrared spectroscopy system	Andrej Lenert	Chemical Engineering
19	2016A1PS0539P	Rahul Dua	Radio astronomical observations with meerkat and vlbi observations	Michael Bietenholz	Chemical Engineering
20	2015B2A10839P	Sneha Kumari	Synthesis and study of shape dependent metal nano-particles (a_u & a_g) for biological activity.	Surojit Pande	Chemistry
21	2015B2A70813P	Harsh Sheth	Developing open source software of molecular drawing tool.	Bharti Khungar	Chemistry
22	2015B2A70842P	Ritaban Roy	White emission for single organic molecule: a theoretical study.	Ram Kinkar Roy	Chemistry
23	2015B2A70859P	Somksha Bhardwaj	Generating qualitative trend of the rate of electron transfer reactions using dfrt and cdase scheme.	Ram Kinkar Roy	Chemistry
24	2015B2A70881P	Muskaan Chugh	Theoretical study on the plea valves from halo chromic organic molecules.	Ram Kinkar Roy	Chemistry
25	2015B2A10783P	Shivam Khandelwal	Life cycle assessment of chemicals related from chemistry laboratory.	Bharti Khungar	Chemistry
26	2015B2A70848P	Aditya Goyal	Creation of java based molecular drawing software.	Prashant U. Manohar	Chemistry
27	2015B2PS0882P	Poonam Mishra	Image based analysis of plasmedium infected blood samples.	Rajesh ChandramohanaDas	Chemistry
28	2015B2A30792P	Tanuj Kumar	Smart threads for sensing and drug delivery with closed loop electronic control.	Sameer Sonkusale	Chemistry
29	2015A7PS0092P	Ashutosh Birla	Ml based automatic personalised academic content collector	Navneet Goyal	Computer Science and Information system
30	2015A7PS0131P	Archit Jain	Data extraction from solid state lidar for autonomous localization & naugation in indoor environment	Avinash Gautam	Computer Science and Information system
31	2016A7TS0015P	Rahul Bothra	Clustered orientateering problem	Abhishek Mishra	Computer Science and Information system
32	2015B1A70873P	Kumar Shreshtha	High resolution CT generation from low resolution cbct for adaptive radiation therapy	Nikos Paragios	Computer Science and Information system
33	2015B3A70626P	Anirudha K	Discovering decision strategies using meta-level reinforcement learning and Bayesian program induction	Falk Lieder	Computer Science and Information system
34	2016A7PS0036P	Megh Thakkar	Advanced language modelling architectures for speech signal processing recognition and enhancement	Chng Engsiong	Computer Science and Information system
35	2016A7PS0108P	Rishav	Deep learning for scene flow estimation using image fusion+lidar	Didier Stricker	Computer Science and Information system
36	2016A7PS0339P	Alex Mathai	Real-time telemetry of network traffic using sdn technology and deep learning techniques	Vijay Sivaraman	Computer Science and Information system
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	Computer Science and Information system
38	2015B1A70773P	Nikhil Ranjan	Automatic speech recognition for Finnish language	Nidhi Singh	Computer Science and Information system
39	2015B5A70191P	Sarvesh Srinivasan	Computational applications of quantum walks	C M Chandrashekar	Computer Science and Information system

S.NO	BITS ID	Name	Topic	Supervisor	Department
40	2015B3A70553P	Sanskriti Sharma	Visual meta-analysis of impact of marketing mix variables on firm performance in emerging markets	Abhishek Borah	Computer Science and Information system
41	2015B3A40533P	Rutuj Kishore Sagane	Credit risk models for smes: Indian case	Arya Kumar	Economics & Finance
42	2015B3A70613P	Parth Sethi	Analysis of volatility and risk of Indian stock market versus developed economies	A K Giri	Economics & Finance
43	2015B3A70655P	Hitesh Sagtani	Impact of fdi and other economic reforms on Indian economy	A K Giri	Economics & Finance
44	2015B3A70713P	Prateek Agarwal	Fraud detection analysis in financial transactions and deals	N V M Rao	Economics & Finance
45	2015B3A40483P	Devanshu Tak	Empirical elevance of bootstrap funding in India	Jyoti Anup Vishnoi	Economics & Finance
46	2015B3A40539P	Vibhas Jaiswal	Prediction models on bank notes and cash processing machines: cost benefit analysis	Heidi Schneider	Economics & Finance
47	2015B3AB0634P	Jayesh Sanjay Masand	Alternative finance funding behaviour and fundraising process analysis	Rui Hao	Economics & Finance
48	2015B3A70456P	Srishti Banzal	Time series analysis with deep learning techniques and beyond	Tong Ping	Economics & Finance
49	2015B3A70616P	Mrigankshi Kapoor	Now casting of cpi inflation	Rudrani Bhattacharya	Economics & Finance
50	2015B3A70640P	Aman Gupta	Summarization of business meeting transcript	Chang Eng Siong	Economics & Finance
51	2016A8PS0326P	Amlan Routray	Retrieval of knuckle & palm based on human identity over biometric databases using deep learning	K.K Gupta	Electrical and Electronics Engineering
52	2015B3A30609P	Parth Ajay Mache	Design and development of bidirectional converters for hybrid electric vehicle application	Hari Om Bansal	Electrical and Electronics Engineering
53	2015B5A30415P	Deepak Vasudevan	Application of wireless power transfer in co-operative and/or cognitive systems: information theory perspective.	Sainath Bitragunta	Electrical and Electronics Engineering
54	2016A8PS0453P	Aditya Sharma	Economic analysis of electric vehicle and its components	Sujan Yenugamti	Electrical and Electronics Engineering
55	2016A8PS0449P	Aman Mudgal	Economic analysis of electric vehicle and its components(4 wheelers)	Sujan Yenugamti	Electrical and Electronics Engineering
56	2016A3PS0180P	Lakshay Gahlawat	Internet of things(IoT) security	Vinay Chamola	Electrical and Electronics Engineering
57	2015B5A30384P	Mitul Sharma	Design and analysis of high speed communication modules for 5g technologies	Anu Gupta	Electrical and Electronics Engineering
58	2015B5A80499P	Anubhav Elhence	Analysis of electromagnetic radiation in IoT systems	Vinay Chamola	Electrical and Electronics Engineering
59	2015B5A30547P	Naren	Analysis of electromagnetic radiation in cellular networks & associated health hazards	Vinay Chamola	Electrical and Electronics Engineering
60	2016A3PS0225P	Vidit Jha	Optical communications	Varun Ragunathan	Electrical and Electronics Engineering
61	2016A8PS0396P	Shrihari Viswanath	Fabrication of reference materials to calibrate z-values in digital holographic microscopy	Oliver Hayden	Electrical and Electronics Engineering
62	2016A3PS0242P	Nithin Rahav JK	Implementations of hybrid communication sayten (rf/ optical) on fpga	Kambiz Janshidi	Electrical and Electronics Engineering
63	2015B2A30841P	Ujjwal Panda	Searching for slow pulsars using fast folding algorithm for the ghrss survey	Jayanta Roy	Electrical and Electronics Engineering
64	2015B4A30698P	Jyotishmaan Tripathi	Geometry estimation of laparoscopic from training video filmed in real organ	Masahiro Furukawa	Electrical and Electronics Engineering
65	2016A3PS0165P	Sombuddha Chakravarty	Mechanisms to validate the integrity of code and data stored in industrial IoT devices	Biplab Sikdar	Electrical and Electronics Engineering

S.NO	BITS ID	Name	Topic	Supervisor	Department
66	2016A3PS0182P	Aditya Sangram Singh Rana	Deep learning in advanced driver assistance systems	Antonio M. Lopez Pena	Electrical and Electronics Engineering
67	2016A3PS0136P	Joy Vrajesh Parikh	Aces: anomaly classification for embedded systems	Lam Siew Kei	Electrical and Electronics Engineering
68	2016A3PS0171P	Akul Malhotra	Neuromorphic computing: devices, circuits and systems	Abhronil Sengupta	Electrical and Electronics Engineering
69	2016A8TS0142P	Yash Akhauri	Co-designing deep neural network and re-configurable hardware	Yaman Umuroglu	Electrical and Electronics Engineering
70	2016A8PS0185P	Vishnu P Kashyap	Auto annotation tool for dataset preparation for autonomous vehicle.	K.V.S Hari	Electrical and Electronics Engineering
71	2015B4A20593P	Akshit Bordia	Leveraging deep learning for anomaly detection to predict insurance raond	Sumanta Pasari	Mathematics
72	2015B4A20628P	Nitant Upasani	Optimization techniques for floor planning	Krishnendra Shekhawat	Mathematics
73	2015B4A70423P	Vivek Nayak	Designing a peer prediction mechanism for assignment evaluation	Rakhee	Mathematics
74	2015B4A70426P	Nandit Bansal	Harnessing renewable energy resources effectively by leveraging deep-learning and data mining techniques	Sumanta Pasari	Mathematics
75	2015B4A70551P	Garv Sachdeva	Graph theoretical techniques for floor planning	Krishnendra Shekhawat	Mathematics
76	2015B4A70590P	Rinkesh Jain	Large scale graph analytics	Rajiv Kumar	Mathematics
77	2015B4A70594P	Vedant Baghel	Commuting graphs associated with algebraic structures	Jitender Kumar	Mathematics
78	2015B4A70602P	Abhinav Gupta	Real time earthquake game competition and building based damage detection due to earthquake	Sumanta Pasari	Mathematics
79	2015B4A70619P	Rashmi Lathi	Applications of fuzzy logic in image processing	Chandra Shekhar	Mathematics
80	2015B4A70620P	Yajat Dawar	Large scale graph mining and social network analysis	Rajiv Kumar	Mathematics
81	2015B4A70631P	Akhil Agarwal	Enhanced power graph associated with algebraic structures	Jitender Kumar	Mathematics
82	2015B4A70650P	Rajat Jain	Developing graph theoretic tools for generating rectangular floor plans	Krishnendra Shekhawat	Mathematics
83	2015B4A70815P	Harshit Goyal	Connected dominating sets in graphs	Rajiv Kumar	Mathematics
84	2015B4A70835P	Anmol Naugaria	Detection and mitigation of ddos attacks in sdn environment	Rakhee	Mathematics
85	2015B4A70567P	Tanay Agarwal	Mathematical analysis and correlation between behavioural approach and multiple intelligence	B K Sharma	Mathematics
86	2015B4A30565P	Vaibhav Mathur	Effective deep techniques for domain adaptation	KE Yiping	Mathematics
87	2015B4A70342P	Vignesh Hege	2d-shape registration and comparison in image analysis	Martin Herman	Mathematics
88	2015B4A70407P	Nalin Mittal	Triangular discrete metric spaces	Hartmut Prautzsch	Mathematics
89	2015B4A70436P	Achal Agarwal	High performance deep reinforcement learning	Bruno Raffin	Mathematics
90	2015B4A70454P	Vikram Waradpande	Deep learning for graph structured data	Avishek Anand	Mathematics
91	2015B4A70557P	Prashant Rangarajan	Mathematical investigations of natural language processing	Partha Pratim Talukdar	Mathematics
92	2015B4A70777P	Vaishnavi Bhargava	Automatic neighbourhood design for localised model interpretation	Luis Gatarraga	Mathematics
93	2016B4TS0953P	Akshit Achara	Development of a machine learning strategy using regression and stochastic processes for benchmarking micro rna target prediction methods	Markus list	Mathematics
94	2015B4A80567P	Tanay Agarwal	Mathematical modelling of human perception and attention	Sridharan Devarajan	Mathematics
95	2015B4TS0534P	Himujjal Upadhyaya	Indoor location tracking and floor planning using Bluetooth low energy (ble) beacons using the method of triangulation	Krishanu Dey	Mathematics

S.NO	BITS ID	Name	Topic	Supervisor	Department
96	2016A4PS0404P	Devendra Pratap Singh	Maintenance strategies selection in rolling stock	Rajesh Prasad Mishra	Mechanical Engineering
97	2016A4PS0387P	Siddhant Jain	Transition curves of various nonlinear and non-smooth mathieu-like oscillators using homotopy analysis & galerkin projections	Amol A Marathe	Mechanical Engineering
98	2015B3A40359P	Kulkarni Aditya Yogesh	Waste management in pickling process using value stream mapping	Srikanta Routroy	Mechanical Engineering
99	2015B2A40829P	Abhay Kumar Gupta	Application of artificial neural networks in supply chain management	Girish Kant	Mechanical Engineering
100	2016A4PS0670P	Anirudh Ranawat	Value stream mapping of waste generated in steel power plant: a case study	Srikanta Routroy	Mechanical Engineering
101	2015B4A40693P	Manal Garg	Reverse logistics optimization	Srikanta Routroy	Mechanical Engineering
102	2016A4PS0288P	Ankush kumar	Development of navel design applications utilizing compliant mechanics concepts	Ashok Midha	Mechanical Engineering
103	2016ABPS0833P	Shruti Sharma	Model based design and control of a pneumatic robot joint	Rainer Nitsche	Mechanical Engineering
104	2015B2A40868P	Anshu Agrawal	Researching upon 2 ofl the 6 supply chain drivers namely pricing and information to remove supply chin inefficiencies	Ashray Iyengar	Mechanical Engineering
105	2016ABPS0842P	Mrudula N.	Mechanism of therapeutic resistance in cervical cancer	Sudhir Krishna	Mechanical Engineering
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 archaie lending mechanism for Indian smes	Siddharth Seth	MGTS
111	2016A5TS0418P	Srinivash M.	Characterization of epigenetic changes in plasmodium contributing to drug resistance	Rajeev Taliyan	Pharmacy
112	2016A5TS0586P	Riya Aggarwal	Design and development of polymeric nanoparticles of selected drugs for management of diabetes	Sunil Kumar Dubey	Pharmacy
113	2016A5PS0659P	Srijan Verma	Machine learning based phase i and ii drug metabolism prediction	Suman Sirimulla	Pharmacy
114	2016A5TS0818P	Vignesh Jayaraman	Isolation and reprogramming of human monocytes for selected therapeutic applications	Pramod K Upadhyay	Pharmacy
115	2016A5PS0732P	Vipin Arora	A study on the impact of compressibility of powders on tablet formation	Paul W S Heng	Pharmacy
116	2016A5TS0431P	Rishal Aggarwal	Application of deep learning to structure based drug design	David Koes	Pharmacy
117	2015A5TS0900P	Saumitra Kapoor	Player-control parameters of the erhu and collection of cardiac parameters	Jer-Ming Chen	Pharmacy
118	2016A5PS0630P	Siddarth Goel	Connected healthcare & integrated care: exploring new models of gamification and rewards for chronic disease management	Malvika Sharma	Pharmacy
119	2015B5A30724P	Aditya Venikar	Metal oxide thin films as gas sensing materials	S Gangopadhyay	Physics
120	2015B5A30490P	Abhinav s	Study of dephasing mechanisms	Niladri Sarkar	Physics
121	2015B5A40582P	K Pavithran	Liquid associated cd SC nano clusters	Debashis Bandyopadhyay	Physics
122	2015B5A70671P	Deep Vikash Kulkarni	Constraining dark energy models using cosmological matter power spectrum	T G Sarkar	Physics
123	2015B5A40621P	S Kaushik Srinivasan	Studies on physics of quark - gluon plasma	Madhukar Mishra	Physics
124	2015B5A30742P	Ritik Jain	Quantum transport in field- effect transistors	R R Mishra	Physics

S.NO	BITS ID	Name	Topic	Supervisor	Department
125	2015B5A10417P	Shubham Jain	Optimization of a new data	Silvia Colabrese	Physics
126	2016B5TS0685P	Somil Sharma	Tustic through science: a qualitative study of the roll of physics in forensic science	Shri Navin Chandra pant	Physics
127	2015B5A80442P	Ishan Ahuja	Phi-meson production in Alice experiment	Martin Wala	Physics
128	2015B5A70350P	Soorya Rethinasamy	Numerical simulations for quantum information applications	Mark M Wilde	Physics
129	2015B5A70550P	Rishabh Jain	Numerical simulation of the belgarin marwell system for ultrafat out of equillibrium dynamics	Marco Battiato	Physics
130	2015B5A40532P	Siddharth Singh	Deposition of ultra-thin superconducting film using sputter deposition technique	Dondu Sahin	Physics
131	2015B5A30581P	Gokul Srinivasan	Wave based numerical simulation of head related transfer function using finite difference time domain method	Stiffen Bilbao	Physics
132	2015B5A40758P	Divya Rathore	Heat and flow analysis of fuel all's.	Chung-Jen Tseng	Physics
133	2015B5A30429P	Harsh Grover	Machine learning applications in radio astronomy	Yogesh Wadadekar	Physics
134	2015B3A30525P	Harsh Jaiswal	Interpretable ai for prediction in medical imaging and mental health, using reward and loss functions	Sushmita Mitra	Electrical and Electronics Engineering

GOA CAMPUS

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2015B3A30550G	Abhishek Kumar	Digitisation Of Healthcare	Partha Saha	Economics
2	2015B5A30565G	Anshul Khambalkar	Deep learning applications for spatially correlated data and spatio temporal data	Ashish Chittora	Electrical and Electronics Engineering
3	2015B5A80525G	Archit Saxena	Analysis of modulation techniques on underwater acoustic modem	Sarang C. Dhongdi	Electrical, Electronics and Instrumentation
4	2016A3TS0206G	Ashutosh Tripathi	Smart Traffic Light System using Image Processing	Ashish Chittora	Electrical and Electronics Engineering
5	2014B2A80785G	Devesh Lohia	HPLC method development for analysis of pollutants in water	Halan Prakash	Chemistry
6	2015B5A40560G	George T Saju	Buckling of cylindrical shells	Sandeep Jose	MSc. (Hons.) Physics + BE (Hons.) Mechanical Engineering
7	2015B4A70481G	Gurukiran V	Development of AI based mental health application	Veeky Baths	Mathematics
8	2014B1A10869G	Harsh Vimal	Photocatalytic Degradation of Pollutants in Industrial Wastewater	Saroj Sundar Baral	Chemical Engineering
9	2015B3A70410G	Ishan Tyagi	Reinforcement Learning for Option Pricing	Sanjay K. Sahay	Computer Science and Information system
10	2015B2A40678G	Jayant Jhamb	CFD Simulation Of Horizontal Axis Augmented Wind Turbine	Pritanshu Ranjan	Mechanical Engineering
11	2015A7PS0088G	K Sai Charan Reddy	Security in Data-Sharing Healthcare Systems	Partha Saha / Co-Supervisor: Biju K R	Computer Science & Information Systems
12	2013b5a80458g	Kesani Meher Manoj	Developing prediction tools for predicting physico-chemical and QM properties of small molecules	Raviprasad Aduri	Physics
13	2015B4A70708G	Manu Singh	Network Security	Vinayak Naik	Computer Science + Mathematics
14	2015B5A40553G	Mehta Yash Hasmukh	Buckling of cylindrical shells	Sandeep Jose	B.E. Mechanical Engineering + MSc. Physics
15	2016A1PS0561G	Pranav Murdeshwar	Hydroxyapatite and its various biological applications	Sutapa Roy Ramanan	Chemical Engineering

S.No	BITS ID	Name	Topic	Supervisor	Department
16	2015B1A10814G	Prateekraj Shekharan	Application of Graph Theory based methods to understand Protein/Gene networks	Raviprasad Aduri	Biological Sciences
17	2015B3A30541G	Pratyush Pradhan	analysis of consumer behaviour using behavioural economics	Aswini Kumar Mishra	Economics
18	2015B5A40827G	Priyank Sharma	Quantum Information Theory	Radhika Vathsan	Physics
19	2015B1A80763G	Raghav Maheshwari	IOT application for healthcare monitoring	K.R. Anupama	Biological Sciences
20	2015B1A10738G	Rhythem Agrawal	Towards understanding the consequences of predicted potential targets for known drugs	Sukanta Mondal	Biological Science
21	2016A3PS0228G	Rohan Chhibba	GPS simulator development	Nitin Sharma	Electrical and Electronics Engineering
22	2015B5A40603G	Rohit Bajirao Patil	CFD study of Phase Changing Material	Pritanshu Ranjan	Mechanical Engineering
23	2015B2A70747G	Ronak Agarwal	Mining Discussion Threads on Social Media	Swati Agarwal	Computer Science and Information system
24	2015B1A40803G	Sahil Rana	Plane Stress-Plane Strain Fracture Behaviour In Steel Sheets.	D.M. Kulkarni	Mechanical
25	2015B5A30578G	Salil Jain	GNSS Signal Processing	Nitin Sharma	Electrical and Electronics Engineering and Physics (Thesis in Electrical and Electronics Engineering)
26	2015B5A70831G	Samarth Gupta	Use of Machine Learning in Internet of Things	Vinayak Naik	Computer Science and Information system
27	2015B4A70556G	Sanyukta Sinha	Network Security	Vinayak Naik	BE Computer Science and MSc Mathematics
28	2014B5A70701G	Sarthak Munjal	Machine Learning Approaches to Smart Grid Networks	Neena Goveas	Computer Science and Information system
29	2015B5A30534G	Sayantan Ghosh	Relic Density Constraints on Dark Matter in Effective Model.	Prasanta Kumar Das	Physics
30	2015B3A70488G	Shikhar Jain	Analysing The Relationship Between Inflation & Stock Market Returns	Aswini K. Mishra	Economics
31	2015B5A40404G	Shivam Khare	shape morphing of structures using piezo-electric actuators	Sandeep Jose	Physics and Mechanical Engineering
32	2015B2A70644G	Shubh Jain	Testing And Development Of Models For Prediction Of Thermodynamic And Transport Properties	Ranjan Dey	Computer Science and Information system
33	2014B5A40633G	Shubham Jain	Modal Analysis of Saraswati Veena	PM Singru	Mechanical
34	2015B3A70403G	Varun Yeligar	Smart Sensing using IoT	Vinayak Naik	Computer Science and Information system
35	2015B4A70469G	Vineet Agarwal	Development of AI based mental health App	Veeky Baths	Mathematics
36	2015B5A70599G	Vishwajeet Singh	Multidimensional Graphs and their Application in User Profiling	Bharat M. Deshpande	Computer Science and Information system
37	2015A7PS0046G	Mahima Samant	Using game theory models for real world design and simulation of sustainable tourist experiences and creation of digital ethnography.	Solano Jose Da Silva	Computer Science and Information system
38	2014B5A10898G	Mayank Surendra Bhandarkar	Impact assessment of chemical industries on Food Security at district level	Vivek R	Chemical Engineering

S.No	BITS ID	Name	Topic	Supervisor	Department
39	2015A3TS0219G	Anirudh Dwarakanath	Study of FPGA	Anita Agrawal	Electrical and Electronics Engineering
40	2016A4PS0150G	Mihir Vinay Kulkarni	Motion Planning for Aerial Robots	Konstantinos Alexis	Mechanical Engineering
41	2016A7PS0722G	Parv Dani	Real-Time Systems	Alan Burns	Computer Science and Information system
42	2016A3PS0168G	Rushabh Patel	RF Oscillator Concept	Mark Oude Alink	Electrical and Electronics Engineering
43	2015B5A40608G	Nikhil Junnarkar	Design Optimisation of the 7 Speed transmission system to minimise transmission errors	Sushil S Ramdasi	Mechanical Engineering
44	2016A3TS0192G	Aditya Dwivedi	Signal processing techniques in quantitative finance: application of Hilbert transform in generating HFT signals	Shashi Jain	Electrical and Electronics Engineering
45	2015A1B50701G	Ish Mohan Gupta	Testing nonlinear gravity with gravitational waves observations	B.S. Sathyaprakash	Physics
46	2015B2A70642G	Jasmeet Kaur	Search Based Path Planning For High Dimensional Planning	Maxim Likhachev	Computer Science + Chemistry
47	2016A3TS0222G	Meet Desai	Mind controlled game	Salil Kanhere	Electrical and Electronics Engineering
48	2015B2A70711G	Vedant Kumar	NMR Spectroscopy Of Paramagnetically labelled Proteins	Gottfried Otting	Chemistry
49	2016A8PS0393G	Amogh Dabholkar	Implementation and Evaluation of a Controller Integrating Modern Nonlinear Control with Modern Neuro-Adaptive Control	Patricio A. Vela	Electronics and Instrumentation Engineering
50	2014B5A80671G	Akshay Kumar	Efficient Signal Processing and analysis using Machine Learning	Virendra Singh	Physics
51	2016A8PS0616G	Dharmadhikari Mihir Rahul	Subterranean Aerial Robotics	Konstantinos Alexis	Electrical and Electronics Engineering
52	2016A8PS0374G	Atharva Pradhan	Fabrication and Characterization of devices for simultaneous optical and electrical biological recordings	Mary J. Donahue	Electronic and Electrical Engineering
53	2016A8PS0331G	Awani Ramdas Khodkumbhe	Implementing a 2.5 GHz self-healing RF-PA	IR. Bram Nauta	Electronic and Electrical Engineering
54	2015B3A30414G	Mohammad Abid	Empirical relationship between health expenditure and health outcomes	Ravindra Kumar Garg	Economics
55	2016A7TS0665G	Arkil Patel	Semantic Parsing	Navin Goyal	Computer Science and Information Systems
56	2016A1TS0771G	Chakraborty Arijit Gautam	Process Optimization by Application of Reactive Distillation Techniques for Yield Enhancement	Iftekhar Abubakar Karimi	Chemical Engineering
57	2015B4A70350G	Shivin Thukral	Distributional Modelling of Cross-Cultural Judgment of Food Terms	Sebastian Padó	Computer Science and Information system
58	2015B5A30426G	Alok Gokhale	Quantum Sensing Using Color Centers in Diamond	Kasturi Saha	Physics
59	2015B1A30810G	Arnav Gupta	Identification of microbial metabolic pathways associated with inflammation using Shotgun Metagenomic sequencing of faecal microbiota	Ashutosh K. Mangalam	Biological Sciences
60	2016A4TS0273G	Kamdi Krishna Rajendra	Fracture And Contact Mechanics	Gaurav Singh	Mechanical Engineering
61	2016A3PS0657G	Devam Awasare	Control over Automated Vehicles using Control Network	Himanshu Tyagi	Electrical and Electronics Engineering
62	2016A3PS0183G	Patel Pragnesh Rasiklal	Hardware Acceleration of Emerging Applications	Lizy John	Electrical and Electronics Engineering

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63	2015B3A70477G	Shreesh Keskar	Unsupervised Disentangled Representation Learning	Venkatesh Babu	Computer Science and Information system
64	2015B4A70292G	Saloni Dash	Synthetic Health Data Generation	Kristin P Bennett	Dual Degree Mathematics and Computer Science
65	2015B4A70594G	Kshitij R Dani	Exploring a method to reduce number of channels in Brain Computer Interface Devices	Salil Kanhere	Mathematics
66	2015B5A70656G	Esha Swaroop	Quantum Error-Correction and Quantum Computing	Raymond Laflamme	Computer Science and Information system
67	2015B5A70600G	Nayana B	Neural Mechanisms of selective attention	Sridharan Devarajan	Physics
68	2015B2A10744G	Abhineet Nigam	Hybrid electrolytes for solid state lithium Sulfur Batteries	Georg Garnweitner	Chemical Engineering
69	2016A1PS0403G	Rohan Ranganath	Characterising and optimising reverse osmosis membrane preservation	Marie Laure Pype	Chemical Engineering
70	2015B2A10748G	Prakhar Aggarwal	Future of Water Dispensers/ Coolers	Syrish Raghuyal	Chemistry
71	2015B5A40500G	Ajay Mohan	Aspects of Quantum Gravity	Chethan Krishnan	Mechanical Engineering + Physics
72	2015B2A70650G	Apoorva Gondimalla	Studying reactions to human activity recognition	Ravi Kiran Sarvadevabhatla	Computer Science and Information system
73	2015B3A70405G	Archit Bhargava	Machine learning in neuromorphic images	Chetan Singh Thakur	Computer Science and Information system
74	2015B3A70546G	Shreya Arora	Decision making under stress	Christiane Schwieren	Economics
75	2016A7PS0006G	Joshi Ravishankar Pankajbhai	Distributed Graph Processing and Big Data platforms	Yogesh Simmhan	Computer Science and Information system
76	2015B3A70530G	Aakanksha Sanctis	Application and Evaluation of Machine learning algorithms to predict tumors in medical images annotated using crowdsourcing	Amrapali Zaveri	Computer Science and Information system
77	2015B5A70559G	Raghav Arora	Stochasticity in Nebular Line Emission: Implications for Metallicity	Mark Krumholz	Physics and Computer Science and Information system
78	2015B4A70379G	Priyanshu Jain	Protecting Data in Decentralized Mobile Vehicular Ad-Hoc Networks (VANETs)	Sanjay Jha	Mathematics and Computer Science
79	2015B4A80518G	Mihir Naik	Class Field Theory	CS Rajan	Mathematics
80	2016A3TS0219G	Ranade Kavita Abhiram	Sensor Cloud Resource Allocation Using Coalition Games	Chandramani Singh	Electrical and Electronics Engineering
81	2016A3PS0127G	Sonali Gupta	Thermal Object Tracking	A.V. Subramanyam	Electrical and Electronics Engineering
82	2015A7B40001G	Sudeep S Katakol	Deep Image Compression	Joost van de Weijer	Mathematics
83	2016A7PS0097G	Siddhinita Wandekar	3D Pose Estimation using Deep Neural Networks	R. Venkatesh Babu	Computer Science and Information system
84	2016B5PS0435G	K Pratyush Kumar	Meta-materials composed of coupled oscillators	Shashi Thutupalli	Physics
85	2015B4A70536G	M.V.S. Chaitanya	Development of Coding Theoretic techniques for Systems	Rashmi K. Vinayak	Computer Science and Information Systems
86	2016A1PS0706G	Yashwant Singh	Investigation of the effects of Waxy Oil non-Newtonian Characteristics on Wax Deposition	H. Scott Fogler	Chemical Engineering

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87	2016A8PS0343G	Sneha Shah	Automatic Tuning of Piano Tones	Vesa Valimaki	Electrical and Electronics Engineering
88	2016B5PS0467G	Shreyansh Singh	Emergent Theories of gravity	Tejinder Singh	Physics
89	2016A3PS0163G	Ayush Mall	Development and implementation of pattern recognition algorithms	Olivier Berder	Electrical and Electronics Engineering
90	2015A7A30039G	Akshay Dharmavaram	Actor-Critic algorithms using options	Shalabh Bhatnagar	Computer Science and Information system + EEE
91	2016B5PS0431G	Pavan Chawhan	Advanced Seismic Isolation Techniques involving Machine Learning and Neural Networks	Tarun Souradeep	Physics
92	2015B3A70159G	Rohan James	Snake robotics	Howie Choset	Computer Science and Information system
93	2016A7PS0719G	Sachita Nishal	Application of Machine Learning to the investigation of the efficiency of the United States research enterprise	Luis A. Nunes Amaral	Computer Science and Information system
94	2016A1PS0559G	Rochit Sinha	13C Metabolic Flux of Cyanobacteria	Pramod P. Wangikar	Department of Chemical Engineering
95	2015B3A30418G	Lokesh Garg	Optical hand written text recognition using Digital Image Processing and Neural Networks	Narayan Bhutada	Electrical and Electronics Engineering
96	2015B3A70400G	Adit Vinay Deshmukh	3D Pose Estimation using Deep Neural Networks	R. Venkatesh Babu	Computer Science and Information Systems
97	2015B1A80805G	Shivani Mansingh	Elucidating cardiac trabeculation patterning	Didier Stainier	Biological Sciences
98	2016A7PS0009G	Revanth Reddy	Quantum Computation	Francesco Petruccione, R. Srikanth	Computer Science and Information system
99	2015B4A70585G	Aiswarya Subramanian	Neural Network Architectures For Predictive Learning Of Dynamic Environments	Nikolaus Kriegeskorte	Computer Science and Information system
100	2015B5A70178G	Sumangala Patki	Deep Neural Networks based Online Handwriting Recognition System	A G Ramakrishnan	Physics, Computer Science and Information system
101	2016B5PS0421G	J Hareesh	Non Linear Dynamics of Complex System	Sitabhra Sinha	Physics
102	2015B3A70348G	Shubhransh Jagota	Big data analytics for business applications	Fethi Rabhi	Economics
103	2016A3TS0653G	Pujika Kumar	Research on image/video creating using AI/ML techniques, their underlying models, and performance profiling of Tensor Flow/Windows software stack through benchmarks	Andrew Kuzma	Electrical and Electronics Engineering
104	2015B2A30671G	Adhithya R	Automated resonance assignments of methyl groups by paramagnetic NMR spectroscopy	Gottfried Otting	Chemistry
105	2015B1A40802G	S Siddharth Kumar	3D printed actuator with stiffening structure, to reduce out of plane deformation and improve grasping performance. Optimisation of the said actuator design.	Jun Wu	Mechanical Engineering
106	2015B5A30453G	Shashank Sharma	Computational Neuroscience	ADRIENNE FAIRHALL	Physics
107	2015B3A70423G	Simran Khanuja	Natural Language Processing	Sunayana Sitaram	Economics and Computer Science
108	2015B1A80743G	Sai Krishna Teja Sadhu	Analysis of wide field calcium imaging data from awake mice.	Carl Petersen	Biological Sciences

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109	2015B2A30715G	Kushav Choudhary	Leaf Classification using Image Processing and Machine Learning	Rahul Miglani	Electrical and Electronics Engineering
110	2015B5A40327G	Chinmay Nitin Gandevikar	Post Newtonian Formalism for Gravitational Collapse and Gravitational waves	Pankaj Joshi	Physics
111	2015B4A30823G	Prahalad Atreyaa A	Machine Learning in digital pathology	Ramesh Hariharan	Mathematics
112	2015B4A70572G	Rusaifd Mirza Pottengad	Machine Learning in Digital Pathology and Genomics	Ramesh Hariharan	Computer Science & Information Systems
113	2015B3A70474G	Aravind Venugopal	Real time motion compensation of brain vasculature movements in a surgical robot application	Elena de Momi	Economics + Computer Science and Information system
114	2015B2A10816G	Aviral Aggarwal	Towards Artificial Enzymes: Bio inspired oxidations for Metal Organic Frameworks	Wolfgang Schmitt	Chemistry
115	2015B5A70626G	Aman Agarwal	Relativistic Quantum Information	C.M. Chandrashekar	Physics and Computer Science
116	2016B4TS0637G	Vedashree D. Kulkarni	Machinery Prognostics using Machine Learning	Makarand S. Kulkarni	Mathematics
117	2016A3PS0191G	Mahima V	Signal Processing: Respiratory disease classification using Multichannel Recording	Prasanta Kumar Ghosh	Electrical and Electronics Engineering
118	2016A7PS0723G	Utkarsh Rai	Water-to-Cloud Dashboard: Cyberphysical Network System for Water Quality Mapping and Monitoring	Priyank Hirani	Computer Science and Information system
119	2016A3TS0167G	Kushagra Shah	Intelligent Design Exploration and Customisation Tool for FPGA based CSoC Platform Generation	Lam Siew Kei (Asst. Prof)	Electrical and Electronics Engineering
120	2015B4A70317G	Shubhi Jain	Combinatorial Optimization and Scheduling Algorithms	Amitava Bhattacharya	Mathematics and Computer Science
121	2015A7B40104G	Sarthak Moorjani	Combinatorial Optimisation and Scheduling Algorithms	Amitava Bhattacharya	Computer Science + Mathematics
122	2016A8PS0378G	Priyal Chhatrapati	Cache coherence for servers	Djordje Jevdjic	Electrical and Electronics Engineering
123	2014B1TS0946G	Pranaydeep Singh	Sentiment Analysis of Low Resource Languages	Els Lefever	Biological Sciences
124	2015B1A40807G	Taha Faraz	Immuno engineering	Siddharth Jhunjhunwala	Biological Sciences
125	2015B4A70571G	Aviral Agrawal	Membership Inference and Attribute Inference Attacks in Machine Learning Services	Dali Kaafar	Mathematics
126	2015B5B40064G	Roshan Jaisimha Dattatri	Aspects of Black Holes and gauge/gravity duality	K. Narayan	Mathematics
127	2016A7PS0669G	Tejal Wakchoure	Detecting the emotive content in broadcast news	Andrew B. Lippman	Computer Science and Information system
128	2015B5A30506G	Divyanshu Gupta	Actions of self-dual p-forms	Sujay K Ashok	Physics
129	2015B1A10641G	Mridul S Kaimal	Dry storage and stabilization of dna amplification reagents in paper analytical devices	Bhushan Toley	Chemical Engineering
130	2016A1PS0703G	Rijubak Karmakar	Modelling and State Estimation of Batch Digesters for pulping of wood using Kraft Process	Sharad Bhartiya	Chemical Engineering
131	2015B5A80515G	B. Aravindh Shankar	Topology in spintronics and its applications	Pramey Upadhyaya	Electrical and Electronics Engineering
132	2015B4A70366G	Pushpendu Ghosh	Deep Learning approach to solve portfolio optimization problems in financial markets	Ariel Neufeld	Mathematics
133	2015B3A70352G	Aditya Sinha	Deep Learning for Natural Language Processing	Ayush Choure	Computer Science and Information system
134	2015B4A30591G	Mayank Jhamtani	Applications of Coding Theory	P Vijay Kumar	Electrical and Electronics Engineering
135	2015A7PS0082G	Mayank Manuja	Inspiring positive behaviour change through personalized active learner	Mina Khan	Computer Science and Information system

S.No	BITS ID	Name	Topic	Supervisor	Department
136	2013B2A10685G	Sourayan Basu Bal	Synthesis, characterization and application of metal oxide based nanostructured supercapacitor materials for energy storage	Ashok K Ganguli	Chemistry
137	2016B5PS0385G	Vibha Balaji	Investigation of failure modes of nano-pillars due to elastocapillarity coalescence	Deepan Balakrishnan	Physics
138	2016A7PS0670G	Nithya Nadig Shikarpur	Working on machine learning challenges for cyber security products	Abhishek Tripathi	Computer Science and Information system
139	2015B4A70706G	Akash Vaish	Personalized Active Learner(PAL)	Mina Khan	Computer Science and Mathematics
140	2016A4PS0339G	Mohnish Wadhwa	computational Fluid Dynamics	Rajaram Lakkaraju	Mechanical Engineering
141	2016A4PS0716G	Heli Parikh	Formulation of numerical simulation method for prediction of turbulent flows	Matthias Meinke	Mechanical Engineering
142	2015B4A40579G	Arko Probho Kundu	Experimental Skin Friction Measurement set-up and validation	Jonathan Tay Chien Ming	Mechanical Engineering
143	2015B5A30330G	Komal Gupta	Distributed deep learning on satellite formations	Russell Boyce	Computer Science and Information system
144	2015B3A70544G	Rishi Raj Grandhe	Program Synthesis using Machine Learning	Nagarajan Natarajan	Computer Science and Information system
145	2016A7PS0005G	Alish Dipani	Machine Learning applications in genetics	Charles Henri Lecellier	Computer Science and Information system
146	2014B4A70805G	Mehul Garg	Machine learning in solar energy	Rolf Stangl	Computer Science and Information system
147	2014B4A40337G	Divya Mishra	Applications of Machine Learning in Fluid Mechanics	Xiangyu HU	Mathematics
148	2014B4A30692G	Shourya Bose	Event Triggered control in network control Systems	Pavan Kumar	Electrical and Electronics Engineering

HYDERABAD CAMPUS

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2014B4A20661H	John Vikas Kotaru	Fluid Flow in Elastic Pipes	TSL Radhika	Mathematics
2	2014B4A20985H	KN Ganesh	Fluid Flow in Pipes	TSL Radhika	Mathematics
3	2014B5A20994H	Hakeem Hadi Maqbool	Application of AI in Hydrology	K Rajitha, Jagadeesh A	Civil Engineering
4	2015A2A40618H	Pritish Dey Sarkar	Rotation lapoeity of pre-stressed beams	Mohan SC	Civil Engineering
5	2015AATS0216H	D Anand Sagar	Flood Mapping using SAR Imagery	Sudha Radhika	Electrical and Electronics Engineering
6	2015B1A0828H	Piyush Soni	Exploiting digital platform for health awareness	Suman Kapur	Biological Sciences
7	2015B1A10699H	Shagun Srivastava	Theoretical Understanding of Stability Lassies state in Superaleophobic surfaces	Nandini B	Chemical Engineering
8	2015B1A10817H	Shobhit Jain	Docking and Molecular dynamic simulation of small molecule assessing their role in amyloids	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	Sridhar Raju	Civil Engineering
10	2015B1A20825H	Pradeep Reddy S	Response of secondary object on seismic structure	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	Kumar Pranav N	Biological Sciences
12	2015B1A70823H	Shubham Paliwal	To design user friendly interface for image analysis pipeline for detection of DNA damage	Vivek Sharma	Biological Sciences

S.No	BITS ID	Name	Topic	Supervisor	Department
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, Manab C	Chemistry
14	2015B2A80803H	Disha Gupta	Study of malochite Green adsorption by microwave assisted synthesis of actinatecl carbon	N Rajesh	Chemistry
15	2015B3A20553H	G Sri Bhargav	Essays in Corporate Finance	Nivedita Sinha, Shreya Biswas	Economics & Finance
16	2015B3A70491H	Vijitha Gunta	Improving stock trend prediction using text analysis	Rishi Kumar, NL Bhanumurthy	Economics & Finance
17	2015B3A70531H	R Shivani Reddy	Feature extraction and TEM Alignment	Phaneendra Y, CR Hota	Computer Science and Information system
18	2015B3AA0562H	Risheek Sood	Modelling of waveguide of waveguide joints	Harish V Dixit	Electrical and Electronics Engineering
19	2015B3AA0907H	Shantanu Upadhyaya	Development of Verilog AMS Code for the Dataflow Modelling of Novel Gate Overlap TFET in Ultra-low Power Applications	S. S. Dan	Electrical and Electronics Engineering
20	2015B3AB0582H	Pranjul Purohit	New product research, development and release	Balakumaran P/Swati Alok	Economics & Finance
21	2015B4A30391H	Meesala Smruthi	Nable calculus for Solviris Boundan Value Problems	J Jagan Mohan	Mathematics
22	2015B4A40541H	Abhilash Verma	Implementing Delaunay based Mesh Generation in SD for Point Cloud	Pardha Saradhi, Tathagata Ray	Mechanical Engineering
23	2015B4A40635H	Devyesh Shrivastava	Green's function for Boundary Value Problem	J Jagan Mohan	Mathematics
24	2015B4A70482H	Prateek Gupta	Information Security	Manish Kumar	Mathematics
25	2015B4A70649H	Aditi Sharma	Probabilistic modelling of swarachakra keyboard	Anirudha Joshi, Aruna M	Computer Science and Information system
26	2015B4A70701H	Aditi Sharma	Information extraction with meta-patterns in Biomedical Literature	H.V.Jagadish, NL Bhanumurthy	Computer Science and Information system
27	2015B4A70845H	Kumar Prasun	Julia Based Hybrid Parallel Meshfree Solyer for Compressible Flows	N Anil	Mathematics
28	2015B5A30673H	Akshay Asthana	Spherical Collapse in F (R) Gravity	Rahul Nigam	Physics
29	2015B5A40499H	Mayank Agrawal	Strengthening Government Capacities to use Data for Decision Making	Neeraj Trivedi, Amrita P	Mechanical Engineering
30	2015B5A70460H	Shivam Bhagat	Human Emotion Analysis using Machine Learning	Chng Eng Siong, PK Thiruvikraman	Physics
31	2015B5A70674H	Abhinav Kumar	Fine Tuning Word Embedding	Partha Talukdar, Sashideep Gutti	Physics
32	2015B5AA0600H	AVS Dheeraj	Study of Biomechanics of Human Neck using VR Tools	Tathagata Ray, PK Thiruvikraman	Physics
33	2015B5AA0620H	Archit Mittal	Virtual Lab for EM Fields	Harish V Dixit	Electrical and Electronics Engineering
34	2015B5AB0686H	DJ Rama Krishna	Designing and Implementing SHPB to test Material Behaviour	Aloke Kumar, NSK Reddy	Mechanical Engineering
35	2016A1TS0493H	Shakti Raj Singh Bawal	Residual Trapping of CO_2 in Deccan Volcani Province	Satyapaul Singh	Chemical Engineering
36	2016A1TS0587H	Ayushi Srivastava	Parallelization of Lattize Boltz Mann Code	Vikranth Kumar S	Chemical Engineering
37	2016A1TS0629H	Pranav Raj	Modelling of Solid Oxide Fuel Cell Systems	Balaji K	Chemical Engineering
38	2016A1TS0631H	Debashis Panda	Non-isothermal implementation of drying in Lattice Boltzmann Methods	Vikranth Kumar S	Chemical Engineering
39	2016A1TS0660H	Siddharth Singh Tomer	Modelling of Solid Oxide Fuel Cell Systems	Balaji K	Chemical Engineering
40	2016A2TS0484H	Agam Sachan	Wavelet neural networks and other Machine Learning techniques	KS Raju, Aruna M	Civil Engineering
41	2016A2TS0514H	B Sai Phaneendra	Chemical and geotechnical characterization of Biochar Treated Black Cotton Soil	Anasua G/Arkamitra Kar	Civil Engineering

S.No	BITS ID	Name	Topic	Supervisor	Department
42	2016A2TS0539H	Chetan Waingankar	Modelling in Environmental Engineering & Hydrology	Jagadeesh A	Civil Engineering
43	2016A2TS0556H	Hardik Jaiswal	Reservoir Planning	A Vasan	Civil Engineering
44	2016A2TS0603H	Nikhil Gupta	Investigation of CRUMB Rubber-Plastic Modified Bitumen	Vinayaka Ram	Civil Engineering
45	2016A2TS0608H	Himanshu Singh	Earth pressures on retaining wall: A laboratory model scale study	Anasua G	Civil Engineering
46	2016A2TS0617H	A Sri Sai Praneeth	Non-linear finite element analysis of flexural member	PN Rao	Civil Engineering
47	2016A2TS0815H	Ritika Sridharan	ANFIS & ANN implementation for modelling water quality	Jagadeesh A	Civil Engineering
48	2016A3TS0253H	Pranav Jadhav	SEAL: Security for Automotive using Light Weight Analysis	Siew-Kei Lam, Rajesh Kumar T	Electrical and Electronics Engineering
49	2016A3TS0260H	Akkulu Reddi Gari Pragnya	Visual Object Tracking using Reconfigurable Accelerators	SK Nandy, Sudha Radhika	Electrical and Electronics Engineering
50	2016A3TS0275H	Shrey Thakker	Design of High Power Microwave (HPM) Devices	Harish V Dixit	Electrical and Electronics Engineering
51	2016A3TS0301H	Tarunbir Singh Gambhir	Multi-Channel Acoustic Source Localization	Prasanta Kumar G, Soumya J	Electrical and Electronics Engineering
52	2016A3TS0814H	Raahul Jagannathan	Design next generation magnetic memory circuitry	Kang L Wang, S S Dan	Electrical and Electronics Engineering
53	2016A3TS0836H	Roshan Sivakumar	Brain Computer Interface- Sequential Decoding	Elahe Abdi, BVVSN Prabhakar Rao	Electrical and Electronics Engineering
54	2016A4TS0169H	Akula Sai Pratyush	Design of Architected Material with High Stiffness and Zero Thermal Expansion	Atieh Moridi, Sujith R	Mechanical Engineering
55	2016A4TS0213H	Jaya Aadityaa G	Simulation and Realization of a Mecanum Wheeled Robot	P Muralikrishna, Arshad Javed	Mechanical Engineering
56	2016A4TS0268H	Mihir Ojha	Thermomechanical Processing and Characterization of Nitinol Alloy for Damping Applications	AK Gupta	Mechanical Engineering
57	2016A4TS0349H	Vikranth Sagar Reddy Gadi	Mesh Generation for FE on Cellular Solids	Narayan K Sundaram, Pavan Penumakala	Mechanical Engineering
58	2016A4TS0353H	Akhil Agnihotri	Indoor Localisation and Navigation of Turtlebot3 using ArUco Markers (Till now)	Ding Zhao, Pavan Penumakala	Mechanical Engineering
59	2016A4TS0358H	Harsha Sista	Numerical Simulation of the Aerodynamic and Aero acoustic Performance of Rotorcraft Blades in a Helicopter	Luigi Vigevano, Supradeepan K	Mechanical Engineering
60	2016A4TS0362H	Gokul CS	Numerical Simulation of Viscoelastic Fluids in a Micro Channel	Aloke Kumar, KRC Murthy	Mechanical Engineering
61	2016A4TS0371H	Aditya Singh	Development of Carbon Fiber based Toughened Composites for Automobile and Aerospace Applications	Karthik Chetan V, Pavan Penumakala	Mechanical Engineering
62	2016A4TS0403H	Kavadapu Rohit Kalyan	Impact Analysis on Natural Fibre (Flax) Reinforced Composites	Pavan Penumakala	Mechanical Engineering
63	2016A5PS0729H	Shivani Naik	Research on Nanomedicine and Drug Delivery Technology for Cancer Diagnosis/Imaging and Therapy	Arun K Iyer, Balaram Ghosh	Pharmacy
64	2016A5TS0738H	Shilpa Elsa George	Spectroscopic Characterisation of Nano-Particle Molecule Interactions	Alison Rodger, Balaram Ghosh	Pharmacy
65	2016A5TS0746H	Pratistha Verma	Development of microfluidic platform for 3D cell culture using native tissue-derived hydrogel	Lianmei Jiang, Vamsi Venuganti	Pharmacy
66	2016A5TS0748H	Tania Dutta	Epigenetic Regulation of NF-kB in Cancer	Li Yinghui, Balaram Ghosh	Pharmacy

S.No	BITS ID	Name	Topic	Supervisor	Department
67	2016A7TS0050H	Bharat Malhan	Video streaming over MPTCP	Paresh Saxena, Thomas Dreibholz	Computer Science and Information system
68	2016A7TS0236H	Skanda Vaidyanath	Chatbot personalization via personal knowledge bases	Andrew Yates, NL Bhanumurthy	Computer Science and Information system
69	2016A7TS0803H	Vamsi Krishna Aribandi	Neural language processing for mental health assessment	Amit Sheth, NL Bhanumurthy	Computer Science and Information system
70	2016A7TS0809H	Deeksha Kartik	Prediction of embryo development outcome at a single time point using Artificial Intelligence	Hadi Shafiee/Tathagatha Ray	Computer Science and Information system
71	2016A7TS0810H	Mathangi Sundar	Summary Generation for Datasets	Brain Davison, Jeff Heflin, Lov Kumar	Computer Science and Information system
72	2016A8TS0426H	Aditya Singh Thakur	Linearizing Digitizer for Wheatstone Bridge based Conditioning for Resistive Sensors	RN Ponnalagu	Electrical and Electronics Engineering
73	2016A8TS0448H	V Jeffry Louis	Design and Evaluation of In-Memory Logic Gates	Shahar Kvatinsky, Souvik Kundu	Electrical and Electronics Engineering
74	2016AATS0165H	Vaibhav Balloli	Acceleration of Autonomous Driving	Sparsh Mittal, Rajesh Kumar T	Electrical and Electronics Engineering
75	2016AATS0180H	Shreyas Ravishankar	Hardware Acceleration of Algorithms used on Autonomous Driving	Sparsh Mittal, Chetan Kumar	Electrical and Electronics Engineering
76	2016AATS0203H	Shaik Imam Farooq Shanawaz	Frequency Selective Surfaces	Harish V Dixit	Electrical and Electronics Engineering
77	2016AATS0226H	Bharathwaj S	Approximate Computing Circuit for Neuromorphic Computing	Souvik Kundu	Electrical and Electronics Engineering
78	2016AATS0239H	S Anantharaman	Development of an improved method for detecting chromosomal anomalies in whole genome sequencing data for non-invasive prenatal diagnosis (NIPD)	RN Ponnalagu/ Sridhar S, Vinod S	Electrical and Electronics Engineering
79	2016AATS0812H	Daanish M Mohammed	Analysis of PCG signals using VMD based WVD Approach	Rajesh Kumar T	Electrical and Electronics Engineering

DUBAI CAMPUS

S.No	BITS ID	Name	Topic	Supervisor	Department
1	2016A7PS0241U	Nikita Bhargava	Secure System using Blockchain-based on RWFM Model for Hippocratic Database.	Sujala Shetty	Computer Science
2	2016A7TS0062U	Vijaya Gajanan Buddhavarapu	Convolutional Auto encoders for Segmentation and Classification of Histopathology Images: An Experimental Study	Angel Arul Jothi	Computer Science
3	2016A7TS0078U	Sara Tabassi	Big Data Analytics Using Apache Spark And Hadoop.	Sujala Shetty	Computer Science
4	2016A7PS0024U	Aakansha Mathur	Analysing Yelp Reviews of Restaurants in USA	Angel Arul Jothi	Computer Science
5	2015A7TS0218U	Mohammed Ghulam Nabi Rayyan	Converting Traditional Contracts into Smart Contracts Using Blockchain Technology	Santhosh Kumar	Computer Science
6	2016AATS0079U	Patil Vrushali Bhausaheb	Comparison and Evaluation of Controllers for the BalanceBot	V. Kalaichelvi	Electrical and Electronics Engineering

S.No	BITS ID	Name	Topic	Supervisor	Department
7	2016A3PS0212U	Shivani Sivakumar	Automization and Analysis of Mechanical Bounces in a Real Time system	Shazia Hasan	Electrical and Electronics Engineering
8	2016A4TS0254U	Adithya Pradeep Nair	Synthesis of Metallic Glasses and its Properties Evaluation	Vincent S Kumar	Mechanical
9	2015A4TS0424U	Yashodhan Naik	Drone Management Platforms: The future of Urban Air Mobility	Vincent S Kumar	Mechanical
10	2016A9TS0170U	Chandrasen Mohite	Nir Active Palladium Nanocapsules For Potential Application In Photo thermal Therapy	Pallab Sanpui	Biotechnology
11	2016A9TS0156U	Safiya Aafreen	Cloning of Human Keratin 35 in E. coli	Pallab Sanpui	Biotechnology
12	2016A9TS0234U	Simran Nirmal Arora	Hydrogen production from algal biomass	Namita Khanna	Biotechnology

List of Research Publications in SCOPUS indexed journals

Pilani Campus

S.No	Title	Publication	Author	Indexed	Level
1	Modeling expressway lane utilization and lane choice behaviour: a case study on Delhiâ€"Gurgaon Expressway	Transportation Letters Vol_No 11 Issue_No 5 P_Page 263	Shirke C., Sumanth N., Arkatkar S., Bhaskar A., Joshi G.	SCS WOS GSC	International
2	Telmisartan and thiorphan combination treatment attenuates fibrosis and apoptosis in preventing diabetic cardiomyopathy.	Cardiovascular Research Journal	Malek V., Bhanudas Gaikwad A	SCS WOS PUBMED GSC	International
3	Globalization, role of institutions and economic performance in Indian economy: Empirical evidence	Journal of Financial Economic Policy	Sehrawat M., Giri A.K.	SCS GSC	International
4	Scientific Writing: The Predicament of Weather and Climate Scientists in India	Bulletin of the American Meteorological Society	Abhay Sd Rajput	SCS WOS GSC	International
5	Simplified Apparatus for CRS Consolidation Testing of Soils	Geotechnical Testing Journal	G. Sridhar., M. Raheena., R. G. Robinson	SCS WOS GSC	International
6	Stem cell-based therapies: A New ray of hope for diabetic patients	Current Stem Cell Research & Therapy	Khan J., Alexander A., Agrawal M., Ajazuddin., Dubey Sk., Siddique S., Saraf S., Saraf S	SCS WOS PUBMED GSC	International
7	Aggression-annotated Corpus of Hindi-English Code-mixed Data	Computation and Language P_Page 1431	Ritesh Kumar., Aishwarya N. Reganti., Akshit Bhatia., Tushar Maheshwari	SCS GSC	International
8	Confronting nuclear equation of state in the presence of dark matter using GW170817 observation in relativistic mean field theory approach	High Energy Physics - Phenomenology P_Page 17	Arpan Das., Tuhin Malik., Alekha C. Nayak	SCS WOS GSC	International
9	Vignette Methodology: An Illustration From Conflict Research	Qualitative Techniques for Workplace Data Analysis	Swati Alok	GSC	International
10	Direct saponification of wet microalgae by methanolic potassium hydroxide using acetone as co-solvent	Bioresource Technology Reports	Senthil Nagappan., Rajendra Kumar R., Rupesh Balaji J., Shachi Singh., Sanjay Kumar Verma	SCS GSC	International
11	Impact of services trade on economic growth and current account balance: Evidence from India	The Journal of International Trade & Economic Development	Mini P. Thomas	SCS WOS GSC	International
12	Soret and Dufour Effects in Biomagnetic Fluid of Blood Flow Through a Tapered Porous Stenosed Artery	JOURNAL OF NANOFLUIDS Vol_No 8 Issue_No 2 P_Page 336	Sharma, Madhu., Sharma, Bhupendra K., Gaur, R. K., Tripathi, Bhavya	SCS WOS GSC	International
13	Hybrid Bilayer Gate Dielectrics Based Organic Thin Film Transistors (OTFTs)	RESEARCH ARTICLE Vol_No 42 Issue_No 1 P_Page 18	Karri Babu Ravi Teja., Navneet Gupta	SCS WOS GSC	National
14	Prototype 1 MeV X-band linac for aviation cargo inspection	Physical Review Accelerators and Beams Vol_No 22 Issue_No 2	Jenkins M., Burt G., Kumar A.V.P., Saveliev Y., Corlett P., Hartnett T., Smith R., Wheelhouse A., McIntosh P., Middleman K.	SCS WOS GSC	International
15	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_No 78 P_Page 149	Mishra S., Sahu P.K., Sarkar A.K., Mehran B., Sharma S.	SCS WOS GSC	International
16	Binding Interaction of Gemini Surfactants with Nanotubes of Î²-Cyclodextrin and Controlled Release of Guest Molecules: Effect of Spacer Chain Length and Concentration of Surfactants	ChemistrySelect Vol_No 4 Issue_No 14 P_Page 4202	Kumari S., Sundar G., Saha S.K.	SCS WOS GSC	International

S.No	Title	Publication	Author	Indexed	Level
17	Decomposing the Role of Different Factors in CO 2 Emissions Increase in South Asia	Studies in Business and Economics Vol_No 14 Issue_No 1 P_Page 86	Gupta M.	SCS WOS GSC	International
18	Universality in distribution of monogamy scores for random multiqubit pure states	Physical Review A Vol_No 99 Issue_No 4	Rethinasamy S., Roy S., Chanda T., Sen A., Sen U.	SCS WOS GSC	International
19	Optimal ordering policy for short life-cycle products under credit financing with dynamic adoption in supply chain	Journal of Management Analytics	Chanda U., Kumar A.	SCS WOS GSC	International
20	Electronic substituent effect on Se-Hâ¯N hydrogen bond: A computational study of para-substituted pyridine-SeH2 complexes	Chemical Physics Letters: X Vol_No 4	Jaju K., Pal D., Chakraborty A., Chakraborty S.	SCS GSC	International
21	Multimodal biometric systems: A brief study	International Journal of Innovative Technology and Exploring Engineering Vol_No 8 Issue_No 7 P_Page 111	Purohit H., Ajmera P.K.	SCS GSC	National
22	Exploring the factors responsible in predicting entrepreneurial intention among nascent entrepreneurs: A field research	South Asian Journal of Business Studies	Tiwari P., Bhat A.K., Tikoria J., Saha K.	SCS GSC	International
23	High Performance Robust Keeper Design Technique for Wide Fan-In Domino OR Logic Using CNTFET 16nm Node Technology	International Journal of Recent Technology and Engineering Vol_No 8 Issue_No 2 P_Page 1158	Balaji Ramakrishna S., Aswatha A.R.	SCS	National
24	Self-attention based visual dialogue	International Journal of Recent Technology and Engineering Vol_No 8 Issue_No 3 P_Page 8795	Mathur V., Jha D., Kumar S.	SCS	National
25	Porous Cupric Oxide: Efficient Photocathode for Photoelectrochemical Water Splitting	CHEMPHOTOCHEM	Basu, Mrinmoyee	WOS GSC	International
26	Distributed Energy Efficient Channel Allocation	IEEE Transactions on Green Communications and Networking Vol_No 3 Issue_No 4 P_Page 1166	Naparstek O., Zafaruddin S.M., Leshem A., Jorswieck E.A.	SCS IEEE GSC	International
27	Predicting Banking Sector Crisis using ANNs: Indian context	Research Article P_Page 19	Neha Gupta., Arya Kumar	GSC	National
28	A Two-Phase Scheme for Distributed TDMA Scheduling in WSNs with Flexibility to Trade-off between Schedule Length and Scheduling Time	arxiv	Ashutosh Bhatia., R C Hansdah	GSC	National
29	Research-based Learning for Skill Development of Engineering Graduates: An empirical study	Procedia Manufacturing Vol_No 31 P_Page 329	Rajni Singh., Devika., Christoph Herrmann., Sebastian Thiede., Kuldip Singh Sangwan	SCS GSC	International
30	Delog: A Privacy Preserving Log Filtering Framework for Online Compute Platforms	arXiv P_Page 9	Amey Agrawal., Abhishek Dixit., Darshil Kapadia., Rohit Karlupia., Vikram Agrawal., Rajat Gupta	GSC	International
31	Dark sector interaction: a remedy of the tensions between CMB and LSS data	arXiv P_Page 5	Suresh Kumar., Rafael C. Nunes., Santosh Kumar Yadav	SCS WOS GSC	International
32	Testing warmness of dark matter	arXiv P_Page 13	Suresh Kumar., Rafael C. Nunes., Santosh Kumar Yadav	GSC	International
33	A review paper on behavioral finance: study of emerging trends	Qualitative Research in Financial Markets	Aditya Sharma., Arya Kumar	SCS GSC	International
34	Dual Role of Glyoxal in Metal-Free Dicarbonylation Reaction: Synthesis of Symmetrical and Unsymmetrical Dicarbonyl Imidazoheterocycles	ACS Omega Vol_No 4 Issue_No 6 P_Page 10150	Nitesh Kumar Nandwana., Om P S Patel., Anil Kumar., Manu R. Srivathsa	SCS WOS GSC	International

S.No	Title	Publication	Author	Indexed	Level
35	Constraints on Dark Matter-Photon Coupling in the Presence of Time-Varying Dark Energy	ArXiv.org P_Page 11	Santosh Kumar Yadav	SCS GSC	International
36	Self-Assessment for Image Building	IUP Journal of Soft Skills Vol_No 13 Issue_No 2 P_Page 54	Sakshi Sharma., Sangeeta Sharma	GSC	National
37	At the Crossroads of the Body and the Word: Interrogating Culture Through a Performance Paradigm	Sage Open Vol_No 9 Issue_No 2 P_Page 10	Sushant Kishore	SCS WOS GSC	International
38	SciPy 1.0â€"Fundamental Algorithms for Scientific Computing in Python	Arxiv.org	Evgeni Burovski., Pearu Peterson., Pauli Virtanen., Ralf Gommers., Aditya Vijaykumar., Travis E. Oliphant., Matthew Brett	GSC	International
39	Constraining warm dark matter power spectrum using the cross-correlation of HI 21 cm signal and the Lyman-Î± forest	Arxiv.org	Tapomoy Guha Sarkar ., Ashis Kumar Pal., Anjan Kumar Sarkar,	GSC	International
40	A Bayesian network model on the interlinkage between Socially Responsible HRM, employee satisfaction, employee commitment and organizational performance	Journal of Management Analytics P_Page 34	Praveen Goyal., Udayan Chanda	SCS WOS GSC	International
41	SP-NET: One Shot Fingerprint Singular-Point Detector	arXiv.org P_Page 10	Kamlesh Tiwari., Akash Agrawal., Ranjeet Ranjan Jha., Aditya Nigam., Geetika Arora	GSC	International
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44	Floquet analysis of periodically driven kicked systems	Indian Academy of SCiences Conference Series Vol_No 2 Issue_No 1 P_Page 149	Rashmi Jangid Sharma., Tapomoy Guha Sarkar., Jayendra Nath Bandyopadhyay	GSC	National
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48	Livelihood Diversification into NFEs and Poverty Alleviation Among Farm Households in Rural India	Small Enterprises Development, Management and Extension Journal Vol_No 46 Issue_No 3 P_Page 178	Zeeshan., Geetilaxmi Mohapatra., Arun Kumar Giri	GSC	National
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50	Escherichia coli (E. coli) as an indicator of fecal contamination in water: A review	PREPRINTS.ORG P_Page 11	Farhan Mohammad Khan., Rajiv Gupta	GSC	International
51	Does accessibility to water and sanitation improves household wellbeing in India?	Journal of Income and Wealth Vol_No 40 Issue_No 2 P_Page 210	Zeeshan., Geetilaxmi Mohapatra., Arun Kumar Giri	GSC	National
52	Capital budgeting practices: a survey in the selected Indian manufacturing firms	International Journal of Indian Culture and Business Management Vol_No 18 Issue_No 4	Saurabh Chadha., Satyendra Kumar Sharma	GSC	International

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58	Energy and Latency Aware Resource Management for Solar Powered Cellular Networks	RESEARCHGATE.NET P_Page 8	Biplab Sikdar., Neeraj Kumar., Nirwan Ansari., Vinay Chamola., Vikas Hassija	GSC	International
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61	Appraisal of Temporal Transferability of Cold Region Winter Weather Traffic Models for Major Highway Segments in Alberta Canada	Geosciences Vol_No 9 Issue_No 137 P_Page 20	Orlando Rodriguez., Furqan A Bhat., Prasanta Kumar Sahu ., Satish Sharma., Babak Mehran ., Hyuk-Jae Roh., Ata M Khan	SCS WOS GSC	International
62	Simultaneous Inhibition of Neprilysin and Activation of ACE2 Prevented Diabetic Cardiomyopathy	Pharmacological Reports P_Page 24	Gaikwad Anil Bhanudas ., Vajir Malek., Nisha Sharma	SCS WOS GSC	International
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67	Extraction of cellulose from renewable resources and its application in leather finishing	Journal of cleaner production Vol_No 230 P_Page 699	Bindia sahu., Glandstone christopher jayakumar., K sri charan., A Tamilselvi., J Kanagaraj., P R Deepa ., Swarna V Kanth	SCS WOS GSC	International
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70	Pressure–Settlement Characteristics of Strip Footing Resting on Randomly Distributed Fibre‘Reinforced Sand Using Constitutive Law	International Journal of Geosynthetics and Ground Engineering Vol_No 5 Issue_No 13	Sanket Rawat ., Swami Saran., Ravi Kant Mittal ., Satyendra Mittal	SCS WOS GSC	International

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79	Impact of Plant-Associated Microbial Communities on Host Plants Under Abiotic Stresses	Microbial Interventions in Agriculture and Environment P_Page 340	Saumya Arora., Prabhat Nath Jha	GSC	International
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91	WRITING THE PERIPHERY: INDIRA GOSWAMI ANDTHE ECONOMICALLY MARGINALIZED	Research article P_Page 88	Kumar Sankar Bhattacharya	GSC	National
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107	Nowcasting Earthquakes in the Bay of Bengal Region	Pure and Applied Geophysics P_Page 16	Sumanta Pasari	SCS WOS GSC	International
108	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	bioRxiv P_Page 19	Monika M Jangir., Vani Bhagvatula., Shibasish Chowdhury	SCS WOS GSC	International
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110	Intercultural Education in Engineering Curriculum: A Review of Communication Courses for Undergraduate Students in India	Journal of Engineering Education Transformations Vol_No 32 Issue_No 2 P_Page 99	Priyanka Kumari., Virendra Singh Nirban	SCS GSC	International
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112	Sustainable Utilization of Waste Tire Chips Reinforced Copper Tailings as Structural Fill	Environment, Development and Sustainability P_Page 21	Ravi Kant Mittal ., Nilesh Purohit., Gourav Gill., Rahul Dandautiya	SCS GSC	International
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119	Post impact droplet hydrodynamics on inclined planes of variant wettabilities	European Journal of Mechanics, B/Fluids Vol_No 79 P_Page 37	Nilamani Sahoo., Gargi Khurana., A R Harikrishnan., Devranjan Samanta., Purbarun Dhar	SCS WOS GSC	International
120	NH4OAc-Promoted Cascade Approach towards Aberrant Synthesis of Chromene-Fused Quinolinones	European Journal of Organic Chemistry	Kumari S., Shakoor S.M.A., Markad D., Mandal S.K., Sakhuja R.	SCS WOS GSC	International

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122	Ionization energies and structures of small lanthanum oxide clusters (La2O3)n.LaO (n = 1â€"3)	European Physical Journal D Vol_No 73	Debashis Bandyopadhyay ., Sanjay G Nakhate., Prasenjit Sen., Sheo Mukund., Soumen Bhattacharyya., Suresh Yarlagadda	SCS WOS GSC	International
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124	Effect of varying viscosity on a two-layer model of the blood flow through porous blood vessels	The European Physical Journal Plus Vol_No 134 Issue_No 1	Ashish Tiwari., Satyendra Singh Chauhan	SCS WOS GSC	International
125	Stability of DNA passing through different geometrical pores	Europhysics Letters Vol_No 127 Issue_No 2 P_Page 7	Amar Singh., Arghya Maity., Navin Singh	SCS WOS GSC	International
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129	Amplifying thermal conduction calibre of dielectric nanocolloids employing induced electrophoresis	EXPERIMENTAL THERMAL AND FLUID SCIENCE Vol_No 106 P_Page 147	Dhar, Purbarun; Maganti, Lakshmi Sirisha; Raman, Harikrishnan Anilakkad; Rajput, Chandan	WOS GSC	International
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131	Creeping flow of micropolar fluid parallel to the axis of cylindrical cells with porous layer	Fluid Dynamics P_Page 29	D. Yu. Khanukaeva., A. N. Filippov., p. K. Yadav., a. Tiwari	SCS WOS GSC	International
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133	Stability of positive solution to fractional logistic equations	Funkcialaj Ekvacioj Vol_No 62 Issue_No 1 P_Page 73	Dwivedi G., Tyagi J., Verma R.B.	SCS WOS GSC	International
134	An optimal delay aware task assignment scheme for wireless SDN networked edge cloudlets	Future Generation Computer Systems	G S S CHALAPATHI., Vinay Chamola., Chen-Khong Tham., Sundaram Gurunarayanan., Nirwan Ansari	SCS WOS GSC	International
135	MAPK pathway: a potential target for the treatment of non-small-cell lung carcinoma	FUTURE MEDICINAL CHEMISTRY Vol_No 11 Issue_No 8 P_Page 795	Sunil Kumar Dubey ., Rajesh Pradhan., Gautam Singhvi ., Gaurav Gupta., Kamal Dua	SCS WOS PUBMED GSC	International
136	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	Zaiba Hasan Khan., Richa Patel., Sandhya Mehrotra., Rajesh Mehrotra	SCS GSC	International
137	Corrigendum to â€œConceptual modeling and characterization of Puga geothermal reservoir, Ladakh, Indiaâ€• (Geothermics (2018) 72	Geothermics Vol_No 82	Jha S.K., Puppala H.	SCS WOS GSC	International

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138	Conceptual modeling and characterization of Puga geothermal reservoir, Ladakh, India (vol 72, pg 326, 2018)	GEOTHERMICS Vol_No 82 P_Page 243	Jha, Shibani K.; Puppala, Harish	WOS GSC	International
139	An Empirical Analysis of Forecast Performance of the GDP Growth in India	Global Business Review Vol_No 20 Issue_No 2 P_Page 386	Monika Gupta., Mohammad Haris Minai	SCS GSC	International
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144	A Survey on IoT Security: Application Areas, Security Threats, and Solution Architectures	IEEE Access Vol_No 7 P_Page 82743	Hassija V., Chamola V., Saxena V., Jain D., Goyal P., Sikdar B.	SCS WOS IEEE GSC	International
145	Blockchain Applications for Industry 4.0 and Industrial IoT: A Review	IEEE Access Vol_No 7 P_Page 176951	REZA M PARIZI., Teja Alladi., Vinay Chamola., KIM-KWANG RAYMOND CHOO	SCS IEEE GSC	International
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148	Comparative Analyses of Circular Gate TFET and Heterojunction TFET for Dielectric-Modulated Label-Free Biosensing	IEEE Sensors Journal P_Page 1	Rupam Goswami ., Brinda Bhowmick	SCS WOS IEEE GSC	International
149	Heavy Metal Ion Sensing using Ultrathin Langmuir-Schaefer Film of Tetraphenylporphyrin Molecule	IEEE Sensors Journal P_Page 1	Parul Taneja., V Manjuladevi., Raj Kumar Gupta., Dalip Kumar., Khandagale Santosh Bhausaheb., Karunesh Kumar Gupta	IEEE GSC	International
150	1-D TiO_2 Nanorods Array based Parallel Electrode Sensor for Selective and Stable Detection of Organic Vapors	IEEE Sensors Journal	Prateek Bindra., Subhashis Gangopadhyay., Arnab Hazra	IEEE GSC	International
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153	Multilevel Event Detection, Storyline Generation, and Summarization for Tweet Streams	IEEE Transactions on Computational Social Systems P_Page 16	Poonam Goyal., Prerna Kaushik., Pranjal Gupta., Dev Vashisth., shavak Agarwal., Navneet Goyal	IEEE GSC	International
154	Erratum: A novel approach for computation of high-order axial modes in a gyrotron resonator(IEEE Transactions on Electron Devices (2018) 65:12 (5505â€"5510) DOI: 10.1109/TED.2018.2877843)	IEEE Transactions on Electron Devices Vol_No 66 Issue_No 3	Vishant, Bera A., Sinha A.K., Chandrashekhar	SCS WOS IEEE GSC	International
155	A Novel Approach for Computation	IEEE	Vishant; Bera, Anirban;	WOS IEEE	International

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156	High-Resolution AlGaN/GaN HEMT-Based Electrochemical Sensor for Biomedical Applications	IEEE Transactions on Electron Devices Vol_No 67 Issue_No 1 P_Page 295	C Periasamy., Dheeraj Kumar Kharbanda., Niketa Sharma., Shivanshu Mishra., Kuldip Singh., Ashok Chauhan., Nitin Chaturvedi	WOS IEEE GSC	International
157	High-Resolution AlGaN/GaN HEMT-Based Electrochemical Sensor for Biomedical Applications	IEEE Transactions on Electron Devices Vol_No 67 Issue_No 1 P_Page 295	Niketa Sharma., Shivanshu Mishra., Kuldip Singh., Ashok Chauhan., Nitin Chaturvedi., C Periasamy., Dheeraj Kumar Kharbanda	WOS IEEE GSC	International
158	Enhancing the Quality of Image Tagging Using a Visio-Textual Knowledge Base	IEEE Transactions on Multimedia	Chandramani Chaudhary., Poonam Goyal., Yi-Ping Phoebe Chen., Dhanashree Nellayi Prasad	IEEE GSC	International
159	Multi-layered TiO2 Nanotubes Array based Highly Sensitive Room Temperature Vapor Sensors	IEEE Transactions on Nanotechnology	Bindra P., Hazra A.	SCS WOS IEEE GSC	International
160	Hydrogen Sulfide Gas Sensing Capabilities of Solution Processed Vanadium Pentoxide Nanosheets	IEEE Transactions on Nanotechnology Vol_No 18 P_Page 939	Jha R.K., Sakhuja N., Jakhar S., Bhat N.	SCS WOS IEEE GSC	International
161	Integrated Cooperative Synchronization for Wireless Sensor Networks	IEEE Wireless Communications Letters	Chalapathi G.S.S., Etzlinger B., Gurunarayanan S., Springer A.	SCS WOS IEEE GSC	International
162	Upgrading security and protection in ear biometrics	IET Biometrics Vol_No 8 Issue_No 4 P_Page 266	Sinha H., Ajmera P.K.	SCS WOS GSC	International
163	Constant power consumption design of novel differential logic gate for immunity against differential power analysis	IET Circuits, Devices & Systems	Harjap Saini., Anu Gupta	SCS WOS GSC	International
164	A Microstrip Coupled Cylindrical Dielectric Resonator as a Displacement Sensor	IETE Journal of Research P_Page 7	AV Praveen Kumar., Anuj Kumar Ojha	SCS WOS GSC	National
165	Strength and durability parameters of carbonated mineral admixture concrete	Indian Concrete Journal Vol_No 93 Issue_No 4 P_Page 45	Hussain S., Bhunia D., Singh S.B.	SCS	National
166	INTERNATIONAL PERSPECTIVES ON INDUSTRIAL CONCRETE FLOORING AND THE WAY FORWARD IN INDIA	Indian Concrete Journal Vol_No 93 Issue_No 6 P_Page 75	Prafulla P S., Jittin varghese., Bahurudeen A., Athira Gopinath., Senthilkumar Rajendran	SCS	National
167	Expression, purification and characterization of a biologically active and thermally stable human lysyl oxidase	Indian Journal of Biochemistry and Biophysics Vol_No 56 Issue_No 2 P_Page 116	Bhuvanasundar R., Ragavachetty N.N., Singh N.K., Coral K., Deepa P.R., Sulochana K.N.	SCS GSC	National
168	Expression, purification and characterization of a biologically active and thermally stable human lysyl oxidase.	Indian Journal of Biochemistry and Biophysics Vol_No 56 P_Page 116	Naveen kumar singh., Karunakaran Coral., P R Deepa ., Renganathan Bhuvanasundar., Nareshkumar Nagaraj Ragavachetty., Konerirajapuram Natarajan sulochana	SCS WOS GSC	National
169	Unmet need of antenatal screening for asymptomatic bacteriuria: A risk factor for adverse outcomes of pregnancy	Indian Journal of Community Medicine Vol_No 44 Issue_No 3 P_Page 198	Nagamani Kammili., Sudha D Madhuri., Manish Gehani., Suman Kapur., Pankaj Bhardwaj., Vijayalakshmi Nag., Sudharsanam Manni Balasubramaniam	SCS WOS GSC	National
170	Barriers and enablers to low vision care services in a tertiary eye care hospital: A mixed method study	Indian Journal of Ophthalmology Vol_No 67 Issue_No 4 P_Page 540	Sarika G., Venugopal D., Sailaja M., Evangeline S., Krishna Kumar R.	SCS WOS PUBMED GSC	National

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172	Shape-Controlled Hematite: An Efficient Photoanode for Photoelectrochemical Water Splitting	Industrial and Engineering Chemistry Research	Sharma M.D., Mahala C., Basu M.	SCS WOS	International
173	Analysis of book sales prediction at Amazon marketplace in India: a machine learning approach	Information Systems and e-Business Management P_Page 24	Satyendra Kumar Sharma ., Swapnajit Chakraborti., Tanaya Jha	SCS WOS GSC	International
174	Palladiumâ€"Schiff Base Complexes Encapsulated in Zeolite-Y Host: Functionality Controlled by the Structure of a Guest Complex	Inorganic Chemistry Vol_No 58 Issue_No 2 P_Page 1540	Susheela Kumari., , Karthik Maddipoti., Bidisa Das., Saumi Ray	SCS WOS PUBMED GSC	International
175	A low power high speed MTJ based non-volatile SRAM cell for energy harvesting based IoT applications	Integration Vol_No 65 P_Page 50	Kanika., Prasad R.S., Chaturvedi N., Gurunarayanan S.	SCS WOS GSC	International
176	Graphene-water nanofluid in heat exchanger: Mathematical modelling, simulation and economic evaluation	International Communications in Heat and Mass Transfer Vol_No 108	Devendra Purbia., Akshya Khandelwel., Amit Kumar., Arvind Kumar Sharma	SCS WOS GSC	International
177	An improved micro analysis-based energy consumption and carbon emissions modeling approach for a milling center	The International Journal of Advanced Manufacturing Technology P_Page 17	Nitesh Sihag., Kuldip Singh Sangwan	SCS WOS GSC	International
178	Visual Inspection of the Aircraft Surface Using a Teleoperated Reconfigurable Climbing Robot and Enhanced Deep Learning Technique	International Journal of Aerospace Engineering P_Page 14	Balakrishnan Ramalingam., Vega-Heredia Manuel., Mohan Rajesh Elara., Ayyalusami Vengadesh., Anirudh Krishna Lakshmanan., Muhammad Ilyas., Tan Jun Yuan James	SCS WOS GSC	International
179	Radiation Effect on MHD Blood Flow Through a Tapered Porous Stenosed Artery with Thermal and Mass Diffusion	International Journal of Applied Mechanics and Engineering Vol_No 24 Issue_No 2 P_Page 423	M Sharma., RK Gaur., BK Sharma	SCS GSC	International
180	Modeling the Effect of Fear in a Preyâ€"Predator System with Prey Refuge and Gestation Delay	International Journal of Bifurcation and Chaos in Applied Sciences and Engineering Vol_No 29 Issue_No 14	Ankit Kumar., Balram Dubey	SCS WOS GSC	International
181	Biocompatible carbon dots derived from Î°-carrageenan and phenyl boronic acid for dual modality sensing platform of sugar and its anti-diabetic drug release behavior	International Journal of Biological Macromolecules Vol_No 132 P_Page 329	Das P., Maity P.P., Ganguly S., Ghosh S., Baral J., Bose M., Choudhary S., Gangopadhyay S., Dhara S., Das A.K., Banerjee S., Das N.C.	SCS WOS PUBMED GSC	International
182	Chitosan-Chondroitin sulfate based polyelectrolyte complex for effective management of chronic wounds	International Journal of Biological Macromolecules Vol_No 132 P_Page 108	Swati Sharma., K LaxmiSwetha., Aniruddha Roy	SCS WOS PUBMED GSC	International
183	TQM to business excellence: a research journey (1985-2018)	International Journal of Business Excellence Vol_No 19 Issue_No 3 P_Page 363	P M Unnikrishnan., Jyoti., Arun Kumar Agariya	SCS GSC	International
184	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	Bhardwaj R., Sinha S., Sahu N., Majumder S., Narang P., Mukhiya R.	SCS WOS GSC	International
185	Modeling and simulation of temperature drift for ISFETâ€¢ based pH sensor and its compensation through machine learning techniques	International Journal of Circuit Theory and Applications	Rishabh Bhardwaj., Soumendu Sinha., Nishad Sahu., Sagnik Majumder., Pratik Narang., Ravindra Mukhiya	SCS WOS GSC	International

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187	An integrative approach for tracking of mobile robot with vision sensor	International Journal of Computational Vision and Robotics Vol_No 9 Issue_No 2 P_Page 131	Sangram Keshari Das., Sabyasachi Dash., B.K. Rout	SCS GSC	International
188	Cloud-based electricity consumption analysis using neural network	International Journal of Computer Applications in Technology Vol_No 62 Issue_No 1 P_Page 56	Nand Kumar., Vilas Haridas Gaidhane., Ravi Kant Mittal	SCS GSC	International
189	A parameter-uniform method for singularly perturbed turning point problems exhibiting interior or twin boundary layers	International Journal of Computer Mathematics P_Page 18	Kumar D.	SCS WOS GSC	International
190	An efficient approach for cement strength prediction	International Journal of Computers and Applications P_Page 11	Vilas Haridas Gaidhane., Nand Kumar., Ravi Kant Mittal., V Rajevenceltha	SCS GSC	International
191	Modified Bessel series solution of the single server queueing model with feedback	International Journal of Computing Science and Mathematics Vol_No 10 Issue_No 3 P_Page 326	Amit Kumar., Shreekant Varshney., Chandra Shekhar	SCS GSC	International
192	Risk Enablers Modeling for Infrastructure Projects Using Bayesian Belief Network	International Journal of Construction Management P_Page 18	Vijay Kumar Sharma., Satyendra Kumar Sharma., Ajit Pratap Singh	SCS GSC	International
193	Design of a novel CMOS/MTJ-based multibit SRAM cell with low store energy for IoT applications	International Journal of Electronics P_Page 16	Kanika Monga., Nitin Chaturvedi., Sundaram Gurunarayanan	SCS WOS GSC	International
194	Establishing finance-growth linkage for India: a financial conditions index (FCI) approach	International Journal of Emerging Markets	Arun Kumar Giri., Deven Bansod	SCS WOS GSC	International
195	QbD-driven development and validation of HPLC method for determination of Bisphenol A and Bissulphone in environmental samples	International Journal Of Environmental Analytical Chemistry	Gautam Singhvi ., Rajesh Khadgawat., K V Krishna., Garima Kachhawa., Rajesh Pradhan., Geetika Wadhwa., Rajeev Taliyan ., Sunil Kumar Dubey	SCS GSC	International
196	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 P_Page 13	Rajesh Pradhan., KV Krishna., Geetika Wadhwa., Rajeev Taliyan., Rajesh Khadgawat., Garima Kachhawa., Gautam Singhvi., Sunil Kumar Dubey	SCS WOS GSC	International
197	Biomass gasification coupled with producer gas cleaning, bottling and HTS catalyst treatment for H2-rich gas production	International Journal of Hydrogen Energy	Patra T.K., Sheth P.N.	SCS WOS GSC	International
198	Recent progress in thermochemical techniques to produce hydrogen gas from biomass: A state of the art review	International Journal of Hydrogen Energy Vol_No 44 Issue_No 47 P_Page 25415	Bhoopendra Pandey., Yogesh K Prajapati., Sheth Pratik Nitinchandra	SCS WOS GSC	International
199	A Framework for Preserving the Privacy of Online Users Against XSS Worms on Online Social Network	International Journal of Information Technology and Web Engineering Vol_No 14 Issue_No 1 P_Page 27	Pooja Chaudhary., B. B. Gupta., Shashank Gupta	SCS GSC	International
200	Optimization of EOQ Model for New Products under Multi-Stage Adoption Process	International Journal of Innovation and Technology Management	Chanda U., Kumar A.	SCS GSC	International
201	Image integrity verification via reversible predictive hiding and elliptic curve Diffie-Hellman	International Journal of Innovative Computing and Applications Vol_No 10 Issue_No 43528 P_Page 163	Agarwal S., Jennifer Ranjani J.	SCS GSC	International
202	Benchmarking environmental performance of electric insulator supply chain in India using life cycle assessment	International Journal of Life Cycle Assessment P_Page 12	Sangwan K.S., Choudhary K.	SCS WOS GSC	International

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204	Synectics model applied in basic theory of computational fluid dynamics	International Journal of Mechanical Engineering Education	Priya Christina Sande., Sangeeta Sharma	SCS GSC	International
205	Lifshitz-type gauge theory with N=2 supersymmetry	International Journal of Modern Physics A	Akhila Mohan., Madhu Kallingalthodi., V. Sunilkumar	SCS WOS GSC	International
206	Functional autophagic flux regulates AgNP uptake and the internalized nanoparticles determine tumor cell fate by temporally regulating flux	International Journal of Nanomedicine Vol_No 14 P_Page 9076	Fageria L., Bambroo V., Mathew A., Mukherjee S., Chowdhury R., Pande S.	SCS PUBMED GSC	International
207	Entropy-based fuzzy SWOT decision-making for condition assessment of airfield pavements	International Journal of Pavement Engineering P_Page 12	Vidhi Vyas., Ajit Pratap Singh., Anshuman Srivastava	SCS WOS GSC	International
208	Optimal proportioning of grout constituents using mathematical programming for semi flexible pavement	International Journal of Pavement Research and Technology Vol_No 12 Issue_No 3 P_Page 306	Ranjeesh Radhakrishnan., Ankit Gupta., Nikhil Saboo., Vidisha Khalpada., Prasanta Kumar Sahu	SCS GSC	International
209	Maintenance prioritization of interlocking concrete block pavement using fuzzy logic	International Journal of Pavement Research and Technology P_Page 8	Ripunjoy Gogoi., Bhupali Dutta	SCS GSC	International
210	A systematic literature review of healthcare supply chain and implications of future research	International Journal of Pharmaceutical and Healthcare Marketing Vol_No 13 Issue_No 4 P_Page 435	Anuj Dixit., Srikanta Routroy., Sunil Kumar Dubey	SCS GSC	International
211	Performance enhancement in a multilevel inverter fed ptc induction motor drive by optimal voltage vector selection	International Journal of Power Electronics and Drive Systems Vol_No 10 Issue_No 2 P_Page 812	Himabindu T., Ravi Teja A.V., Bhuvaneswari G., Singh B.	SCS GSC	International
212	Correction to: Fabrication of Enzymatic Biofuel Cell with Electrodes on Both Sides of Microfluidic Channel (International Journal of Precision Engineering and Manufacturing-Green Technology, (2019), 6, 3, (511-520), 10.1007/s40684-019-00056-x)	International Journal of Precision Engineering and Manufacturing - Green Technology Vol_No 6 Issue_No 3	Khan H., Kim C.M., Kim S.Y., Goel S., Dwivedi P.K., Sharma A., Kim Y.H., Kim G.M.	SCS WOS GSC	International
213	Fabrication of Enzymatic Biofuel Cell with Electrodes on Both Sides of Microfluidic Channel (vol 6, pg 511, 2019)	INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING-GREEN TECHNOLOGY Vol_No 6 Issue_No 3 P_Page 665	Khan, Haroon; Kim, Chul Min; Kim, Sung Yeol; Goel, Sanket; Dwivedi, Prabhat K.; Sharma, Ashutosh; Kim, Young Ho; Kim, Gyu Man	WOS GSC	International
214	Fabrication of Enzymatic Biofuel Cell with Electrodes on Both Sides of Microfluidic Channel	International Journal of Precision Engineering and Manufacturing-Green P_Page 10	Haroon Khan., Chul Min Kim., Sung Yeol Kim., Sanket Goel., Prabhat K Dwivedi., Ashutosh Sharma., Young Ho Kim., Gyu Man Kim	WOS GSC	International
215	Parametric nonlinear programming for fuzzified queuing systems with catastrophe	International Journal of Process Management and Benchmarking Vol_No 10 Issue_No 1 P_Page 98	Chandra Shekhar., Amit Kumar., Shreekant Varshney	SCS GSC	International
216	Incorporating risks and costs into global sourcing decisions	International Journal of Procurement Management Vol_No 12 Issue_No 6	Satyendra Kumar Sharma., Ravinder Singh., Rajesh Matai	SCS GSC	International
217	Solvent effect on stabilization energy: An approach based on density functional reactivity theory	International Journal of Quantum Chemistry	Aabid Hamid., Ram Kinkar Roy	SCS WOS GSC	International
218	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	Mani Sankar Dasgupta ., Darmanaden Sooben., Nilesh Purohit., Romeela Mohee., Francis Meunier	SCS WOS GSC	International

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220	A reconfigurable microstrip cross parasitic antenna with complete azimuthal beam scanning and tunable beamwidth	International Journal of RF and Microwave Computer-Aided Engineering	Khairnar V.V., Kadam B.V., Ramesha C.K., Gudino L.J.	SCS WOS GSC	International
221	Development of an adapted framework for lean product development	International Journal of Services and Operations Management Vol_No 10 P_Page 32	Naga Vamsi Krishna Jasti., Srinivas Kota		International
222	An efficient portfolio management for trading under uncertain environment	International Journal of Supply Chain Management Vol_No 8 Issue_No 2 P_Page 283	Pritam K.S., Mathur T., Agarwal S.	SCS GSC	International
223	A new SRF-based power angle control method for UPQC-DG to integrate solar PV into grid	International Transactions on Electrical Energy Systems	Patel A., Mathur H.D., Bhanot S.	SCS WOS GSC	International
224	Frequency regulation in islanded microgrid considering stochastic model of wind and PV	International Transactions on Electrical Energy Systems	Kumar D., Mathur H.D., Bhanot S., Bansal R.C.	SCS WOS GSC	International
225	High voltage gain reduced current ripple switched coupled inductor quasiâ€• Zâ€• source inverter	International Transactions on Electrical Energy Systems	Heema B Dave., Dheerendra Singh., Hari Om Bansal	SCS WOS GSC	International
226	Realâ€• time implementation of adaptive PVâ€• integrated SAPF to enhance power quality	International Transactions on Electrical Energy Systems	Ravinder Kumar., Hari Om Bansal	SCS WOS GSC	International
227	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 and Interfaces Vol_No 11 Issue_No 34 P_Page 31282	Dineshkumar S., Raj A., Srivastava A., Mukherjee S., Pasha S.S., Kachwal V., Fageria L., Chowdhury R., Laskar I.R.	SCS WOS PUBMED GSC	International
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229	Dispersion of Li2SO4-LiPO3 glass in LiTi2(PO4)3 matrix: Assessment of enhanced electrical transport	Journal of Alloys and Compounds P_Page 298	Sharma N., Dalvi A.	SCS WOS GSC	International
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231	A lightweight ANN based robust localization technique for rapid deployment of autonomous systems	Journal of Ambient Intelligence and Humanized Computing P_Page 16	Meetha V Shenoy ., Anupama Karuppiah., Narayan Manjarekar	SCS GSC	International
232	Design and Biological Evaluation of Lipoprotein-Based Donepezil Nanocarrier for Enhanced Brain Uptake through Oral Delivery	ACS Chemical Neuroscience Vol_No 10 Issue_No 9 P_Page 4135	Krishna K.V., Wadhwa G., Alexander A., Kanojia N., Saha R.N., Kukreti R., Singhvi G., Dubey S.K.	SCS WOS PUBMED GSC	International
233	A parameter-uniform numerical scheme for the parabolic singularly perturbed initial boundary value problems with large time delay	Journal of Applied Mathematics and Computing P_Page 28	Kumar D., Kumari P.	SCS WOS GSC	International
234	Stokes Flow Through a Membrane Built up by Nonhomogeneous Porous Cylindrical Particles	Journal of Applied Mechanics and Technical Physics Vol_No 60 Issue_No 5 P_Page 826	P K Yadav., Ashish Tiwari., P Singh., S Deo	SCS GSC	International
235	Emerging nanoparticulate systems: Preparation techniques and stimuli responsive release characteristics	Journal of Applied Pharmaceutical Science Vol_No 9 Issue_No 8 P_Page 143	Jain S., Cherukupalli S.K., Mahmood A., Gorantla S., Rapalli V.K., Dubey S.K., Singhvi G.	SCS GSC	National

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237	Refined template selection and combination algorithm significantly improves template-based modeling accuracy	Journal of Bioinformatics and Computational Biology Vol_No 17 Issue_No 2	Ashish Runthala., Shibasish Chowdhury	SCS WOS PUBMED GSC	International
238	A novel triazole, NMK-T-057, induces autophagic cell death in breast cancer cells by inhibiting Î³-secretaseâ€"mediated activation of Notch signalling	Journal of Biological Chemistry Vol_No 294 Issue_No 17 P_Page 6750	Amlan Das., Maruthi Kuamr Narayanam., Urmi Chatterji., Mahadeb Pal., Suvranil Ghosh., Gopal Chakrabarti., Debabrata Ghosh Dastidar., Subhendu Chakrabarty., Arnab Ganguli., Biswarup Basu., Santanu Paul., Pritha Mukherjee., Parimal Karmakar., Dalip Kumar .,	SCS WOS PUBMED GSC	International
239	Impact of glycemic-index(GI) reduction on birthweight in overweight/obese pregnant women enrolled in a lifestyle program	American Journal Of Obstetrics And Gynecology Vol_No 220 Issue_No 1 P_Page S62	Facchinetti, Fabio; Vijay, Vidisha; Petrella, Elisabetta; Zoccoli, Sofia Gambigliani; Bertarini, Valentina; Di Cerbo, Lidia; Neri, Isabella	WOS GSC	International
240	Study on the Biocompatible Solvent Systems for the Reactive Extraction of Itaconic Acid	Journal of Chemical and Engineering Data	Dipaloy Datta., Neha Chomal., Hasan Uslu., Sushil Kumar	SCS WOS GSC	International
241	Surface-Enhanced Raman Scattering on Chemically Etched Copper Surface: An Upper-Level Spectroscopic Measurement and Analysis	Journal of Chemical Education	Siddhartha Kumar Pradhan., Umapathi Balaji., Soma Mishra., Manjaiah Jeevitha., Shubhashree Swain	GSC	International
242	Application of infrared thermography for debonding detection in asphalt pavements	Journal of Civil Structural Health Monitoring P_Page 13	Vidhi Vyas., Ajit Pratap Singh., Anshuman Srivastava	SCS WOS GSC	International
243	Impact of corruption in public sector on environmental quality: Implications for sustainability in BRICS and next 11 countries	Journal of Cleaner Production Vol_No 232 P_Page 1393	Sinha A., Gupta M., Shahbaz M., Sengupta T.	SCS WOS GSC	International
244	An evidence based integrated watershed modelling system to assess the impact of non-point source pollution in the riverine ecosystem	Journal of Cleaner Production	Srinivas R., Singh A.P., Dhadse K., Garg C.	SCS WOS GSC	International
245	Sustainable alternatives to carbon intensive paddy field burning in India: A framework for cleaner production in agriculture, energy, and construction industries	Journal of Cleaner Production Vol_No 236 Issue_No 1	G Athira., Bahurudeen A., Srinivas Appari	SCS WOS GSC	International
246	Nanosheets of MoSe2@M (Mâ€¯=â€¯Pd and Rh) function as widespread pH tolerable hydrogen evolution catalyst	Journal of Colloid And Interface Science Vol_No 534 P_Page 141	Sharma M.D., Mahala C., Basu M.	SCS WOS PUBMED GSC	International
247	Adaptation of a compact SPICE level 3 model for oxide thin-film transistors	Journal of Computational Electronics	Kandpal K., Gupta N.	SCS WOS GSC	International
248	TCAD calibration and performance investigation of an ISFET-based TNT (explosive) sensor	Journal of Computational Electronics	Saikia A., Raj A., Goswami R.	SCS GSC	International
249	Low-k polymer gate dielectric selection for organic thin-film transistors (OTFTs) using material selection methodologies	Journal of Computational Electronics P_Page 10	Karri Babu Ravi Teja ., Navneet Gupta	SCS WOS GSC	International
250	Capturing Variations in Nuclear Phenotypes	Journal of Computational Science	Shantanu Singh., Kun Huang., Jens Rittscher., Raghu Machiraju., Thierry Pécot., Sundaresan Raman ., Enrico Caserta., Gustavo Leone	SCS WOS GSC	International
251	Congestion-Adaptive and Delay-Sensitive Multirate Routing Protocol in MANETs: A Cross-Layer Approach	Journal of Computer Networks and Communications Vol_No 2019	Mahadev A Gawas., Lucy J Gudino ., Anupama Karuppiah	SCS GSC	International

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252	Voriconazole loaded nanostructured lipid carriers based topical delivery system: QbD based designing, characterization, in-vitro and ex-vivo evaluation	Journal of Drug Delivery Science and Technology Vol_No 52 P_Page 315	Waghule T., Rapalli V.K., Singhvi G., Manchanda P., Hans N., Dubey S.K., Hasnain M.S., Nayak A.K.	SCS WOS GSC	International
253	A novel PEGylated carbon nanotube conjugated mangiferin: An explorative nanomedicine for brain cancer cells	Journal of Drug Delivery Science and Technology	saurabh Sharma., Anupama Mittal ., Bhupinder Singh., Poonam Negi., Rajneet Kaur Khurana., Manish Kumar., P J Harsha., Nagarani Thotakura., Kaisar Raza	SCS WOS GSC	International
254	A fractional order parallel control structure tuned with meta-heuristic optimization algorithms for enhanced robustness	Journal of Electrical Engineering Vol_No 70 Issue_No 1 P_Page 24	Goyal V., Mishra P., Shukla A., Deolia V.K., Varshney A.	SCS WOS GSC	International
255	Gain enhancement in probe-fed hexagonal ultra wideband antenna using AMC reflector	Journal of Electromagnetic Waves and Applications P_Page 12	Abhishek Joshi., Rahul Singhal	SCS WOS GSC	International
256	Synthesis of GO Loaded TiO2 Nanotubes Array by Anodic Oxidation for Efficient Detection of Organic Vapor	Journal of Electronic Materials P_Page 6	Teena Gakhar., Arnab Hazra	SCS WOS GSC	International
257	Analyzing environment sustainability enablers using fuzzy DEMATEL for an Indian steel manufacturing company	Journal of Engineering, Design and Technology	Goyal S., Routroy S., Singhal A.	SCS WOS GSC	International
258	A review on the application of chemical surfactant and surfactant foam for remediation of petroleum oil contaminated soil	Journal of Environmental Management Vol_No 243 P_Page 205	Karthick A., Roy B., Chattopadhyay P.	SCS WOS PUBMED GSC	International
259	Comparison of zero-valent iron and iron oxide nanoparticle stabilized alkyl polyglucoside phosphate foams for remediation of diesel-contaminated soils	Journal of Environmental Management Vol_No 240 P_Page 107	Karthick A., Roy B., Chattopadhyay P.	SCS WOS PUBMED GSC	International
260	Optimization of bioactive compounds extraction assisted by microwave parameters from Kappaphycus alvarezii using RSM and ANFIS modeling	Journal of Food Measurement and Characterization P_Page 17	Selvaraj Kunjiappan., Uma Priya Mohan., Lokeshkumar Ramasamy., Suraj Baskararaj., Panneerselvam Theivendren., Ponnusamy Palanisamy., S Murugesan ., Parasuraman Pavadai., Sankarganesh Arunachalam., Suthendran Kannan	SCS WOS GSC	International
261	Roles of Nanofluids, Temperature of Base Fluids and Pressure Gradient on Heat Transfer Enhancement from a Cylinder: Uniformly Heated/Heat Flux	Journal of Heat Transfer	Dilip Kumar Maiti., Swati Sharma	SCS WOS GSC	International
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263	Real-time quality monitoring in debutanizer column with regression tree and ANFIS	Journal of Industrial Engineering International P_Page 11	Siddharth K., Pathak A., Pani A.K.	SCS GSC	International
264	Anopheles stephensi Dual Oxidase Silencing Activates the Thioester-Containing Protein 1 Pathway to Suppress Plasmodium Development	Journal of Innate Immunity P_Page 10	Kakani P., Kajla M., Choudhury T.P., Gupta L., Kumar S	SCS WOS PUBMED GSC	International
265	Development of fuzzy logic controller for photovoltaic integrated shunt active power filter	Journal of Intelligent and Fuzzy Systems Vol_No 36 Issue_No 6 P_Page 6243	Kumar R., Bansal H.O., Agrawal H.P.	SCS WOS GSC	International
266	A testbed validated simple time synchronization protocol for clustered wireless sensor networks for IoT	Journal of Intelligent & Fuzzy Systems P_Page 13	Chalapathi GSS., Chamola Vinay., Gurunarayanan S	SCS WOS GSC	International
267	Composite Sequential Modeling for Identifying Fake Reviews	Journal of Intelligent Systems	Bhargava R., Baoni A., Sharma Y.	SCS GSC	International

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268	Neural Network-Based Architecture for Sentiment Analysis in Indian Languages	Journal of Intelligent Systems	Bhargava R., Arora S., Sharma Y.	SCS GSC	International
269	Fuzzy approach to diagnosis and medication	Journal of International Pharmaceutical Research Vol_No 46 P_Page 15	Pradheep Kumar K., Srinivasan N.	SCS GSC	International
270	Butea monosperma reduces haloperidol and sulpiride induced hyperprolactinemia in rats	Journal of Krishna Institute of Medical Sciences University Vol_No 8 Issue_No 2 P_Page 52	Tiwari P., Dubey S.K., Sahu P.K.	SCS GSC	International
271	Wear of Electroplated Super Abrasive CBN Wheel during Grinding of Inconel 718 Super Alloy	Journal of Manufacturing Processes Vol_No 43 P_Page 8	Naik D.N., Mathew N.T., Vijayaraghavan L.	SCS WOS GSC	International
272	Analytical and Experimental Investigations on Using Waste Marble Powder in Concrete	Journal of Materials in Civil Engineering Vol_No 31 Issue_No 4 P_Page 13	Manpreet Singh., Anshuman Srivastava., Dipendu Bhunia	SCS WOS GSC	International
273	Insights of the role of shell closing model and NICS in the stability of NbGen (n = 7â€"18) clusters: a first-principles investigation	Journal of Materials Science Vol_No 54 Issue_No 1 P_Page 528	Triedi R.K., Bandyopadhyay D.	SCS WOS GSC	International
274	Li1.3Al0.3Ti1.7(PO4)3 reinforced hybrid polymer composites: assessment of enhanced Li+ ion transport and potential for solid-state supercapacitor applications	Journal of Materials Science P_Page 13	D M Phase., Yogesh Kumar., M Dinachandra Singh., Anshuman Dalvi	SCS WOS GSC	International
275	Fault diagnosis of rolling element bearing based on artificial neural network	Journal of Mechanical Science and Technology Vol_No 33 Issue_No 2 P_Page 511	Rohit S Gunerkar., Arun Kumar Jalan., Sachin U Belgamwar	SCS WOS GSC	International
276	Electrostatically tunable MOEMS waveguide Bragg grating-based DWDM optical filter	Journal of Micro/ Nanolithography, MEMS, and MOEMS Vol_No 18 Issue_No 1	Poorna Lakshmi Uppalapati., Balasubramanian Malayappan., Narayan Krishnaswamy., Prasant Kumar Pattnaik	SCS GSC	International
277	Investigation into gate dielectric material using different optimization techniques in carbon nanotube field effect transistors	Journal of Micromechanics and Microengineering Vol_No 29 Issue_No 9	Dixit A., Gupta N.	SCS WOS GSC	International
278	Investigation on gate dielectric material using different optimization techniques in carbon nanotube field effect transistors (CNFETs)	Journal of Micromechanics and Microengineering	Navneet Gupta ., Ankita Dixit	WOS GSC	International
279	Dielectric characterization of common edible oils in the higher microwave frequencies using cavity perturbation	Journal of Microwave Power and Electromagnetic Energy Vol_No 53 Issue_No 1 P_Page 56	Praveen Kumar A.V., Goel A., Kumar R., Ojha A.K., John J.K., Joy J.	SCS WOS GSC	International
280	Demand forecasting at retail stage for selected vegetables: a performance analysis	Journal of Modelling in Management Vol_No 14 Issue_No 4 P_Page 1063	Rahul Priyadarshi., Akash Panigrahi., Srikanta Routroy., Girish Kant Garg	SCS GSC	International
281	Modeling and classification of enablers of CSR in Indian firms	Journal of Modelling in Management	Divesh Kumar., Praveen Goyal., Vinod Kumar	SCS WOS GSC	International
282	A comprehensive review on hybrid electric vehicles: architectures and components	Journal of Modern Transportation P_Page 31	Dheerendra Singh., Krishna Veer Singh., Hari Om Bansal	SCS GSC	International
283	Creeping flow of micropolar fluid through a swarm of cylindrical cells with porous layer (membrane)	Journal of Molecular Liquids Vol_No 294	Khanukaeva D.Y., Filippov A.N., Yadav P.K., Tiwari A.	SCS GSC	International
284	Effect of gemini surfactants on binding interactions of Coumarin 485 with calf thymus deoxyribonucleic acid in presence of nanotubes of Î²-cyclodextrin	Journal of Molecular Liquids P_Page 111615	Rishika Aggrawal., Ganapathi Subramania Sundar., Sayantan Halder., Sunita Kumari, Subit Kumar Saha	SCS GSC	International
285	Refolding of protein unfolded by gemini surfactants using Î²-cyclodextrin and sodium dodecyl sulfate in aqueous medium: Study on role of spacer chain of surfactants	Journal of Molecular Liquids Vol_No 300	Vinod Kumar Aswal., Sunita Kumari., Sayantan Halder., Rishika Aggrawal., Ganapathi Subramania Sundar., Subit Kumar Saha	SCS GSC	International

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286	Topological Transition in a 3nm Thick Al Film Grown by Molecular Beam Epitaxy	Journal of Nanomaterials P_Page 6	Chi-Te Liang., Ankit Kumar., Guan-Ming Su., Chau-Shing Chang., Ching-Chen Yeh., Bi-Yi Wu., Dinesh K. Patel., Lee Chow., Yen-Ting Fan., Sheng-Di Lin	WOS GSC	International
287	The energetic brain â€" A review from students to students	Journal of Neurochemistry Vol_No 151 Issue_No 2 P_Page 165	Bordone M.P., Salman M.M., Titus H.E., Amini E., Andersen J.V., Chakraborti B., Diuba A.V., Dubouskaya T.G., Ehrke E., Espindola de Freitas A., Braga de Freitas G., Gonçalves R.A., Gupta D., Gupta R., Ha S.R., Hemming I.A., Jaggar M., Jakobsen E., Kumari	SCS WOS PUBMED GSC	International
288	How Co-creation Drives the Success of Public Service Initiatives? A Case-study Based Analysis	Journal of Nonprofit and Public Sector Marketing P_Page 21	Victor Saha., Praveen Goyal	SCS WOS GSC	International
289	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_No 2019	Heena Saini., Ifrah Hakeem., Sudeshna Mukherjee., Shibasish Chowdhury., Rajdeep Chowdhury	SCS WOS PUBMED GSC	International
290	Reading eye movements in traumatic brain injury [Movimientos oculares durante la lectura en lesiones cerebrales traumáticas]	Journal of Optometry	Reddy A.V.C., Mani R., Selvakumar A., Hussaindeen J.R.	SCS GSC	International
291	Enantio- and Diastereoselective Two-Pot Synthesis of Isoquinuclidines from Glutaraldehyde and N-Aryl Imines with DFT-Calculations	Journal of Organic Chemistry	Devinder Kumar Sharma., Rajni Kant., Sachin Choudhary., Eldhose Iype., Amol Prakash Pawar., Nisar A Mir., Indresh Kumar., Panduga Ramaraju	SCS WOS PUBMED GSC	International
292	UIISScan 1.1: A Field portable high-throughput platform tool for biomedical and agricultural applications	Journal of Pharmaceutical and Biomedical Analysis Vol_No 174 P_Page 80	Mukherjee S., Pal S., Pal A., Ghosh D., Sarkar S., Bhand S., Sarkar P., Bhattacharyya N.	SCS WOS PUBMED GSC	International
293	Development and validation of Reversed-phase high-performance liquid chromatography (RP-HPLC) method for quantification of Efavirenz in Efavirenz-Enfuvirtide co-loaded polymer-lipid hybrid nanoparticles	Journal of Pharmaceutical and Biomedical Analysis Vol_No 175	Dhanashree H Surve., Anil Jindal	SCS WOS PUBMED GSC	International
294	Development and validation of Reversed-phase high-performance liquid chromatography (RP-HPLC) method for quantification of Efavirenz in Efavirenz-Enfuvirtide co-loaded polymer-lipid hybrid nanoparticles	Journal of Pharmaceutical and Biomedical Analysis	Dhanashree H Surve., Anil Jindal	SCS WOS GSC	International
295	CRISPR/Cas system for genome editing: Progress and prospects as a therapeutic tool	Journal of Pharmacology and Experimental Therapeutics Vol_No 370 Issue_No 3 P_Page 735	Sahel D.K., Mittal A., Chitkara D.	SCS WOS PUBMED GSC	International
296	â€œAggregation-induced emissionâ€• of transition metal compounds: Design, mechanistic insights, and applications	Journal of Photochemistry and Photobiology C: Photochemistry Reviews Vol_No 41	Alam P., Climent C., Alemany P., Laskar I.R.	SCS WOS GSC	International
297	Aggregation-induced emission of transition metal compounds: Design, mechanistic insights, and applications	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY C-PHOTOCHEMISTRY REVIEWS Vol_No 41	Alam, Parvej; Climent, Claudia; Alemany, Pere; Laskar, Inamur Rahaman	WOS GSC	International
298	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 Vol_No 134 P_Page 272	Manohar Lal., Banasri Roy ., Uma Dubey., Anamika Tiwari., Padarthi Yashwanth., Ankit Rao., Shampa Aich., vijay singh	SCS WOS GSC	International

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299	An evaluation of tactile frictional behavior of the wooden material	Journal of Physics: Conference Series Vol_No 1240 Issue_No 1	Jain P., Srivastava A.K., Rathore J.S., Shrivastava S.	SCS GSC	International
300	Experimental investigations of TIG welding based additive manufacturing process for improved geometrical and mechanical properties	Journal of Physics: Conference Series Vol_No 1240 Issue_No 1	Gokhale Nitish P., Kala P., Sharma V.	SCS GSC	International
301	Optimization of process variables to improve the mechanical properties of FDM structures	Journal of Physics: Conference Series Vol_No 1240 Issue_No 1	Sharma M., Sharma V., Kala P.	SCS GSC	International
302	Selection of optimum Cutting Parameters for Minimization of Specific Energy Consumption during Machining of Al 6061	Journal of Physics: Conference Series Vol_No 1240 Issue_No 1	Pawanr S., Garg G.K.	SCS GSC	International
303	Simulation and Experimentation of Single Point Incremental Forming of Different Geometries	Journal of Physics: Conference Series Vol_No 1240 Issue_No 1	Gaira S., Theja V.S., Karthikeyan G.	SCS GSC	International
304	Passive solar design for energy efficiency in buildings in composite climate	Journal of Physics: Conference Series Vol_No 1276 Issue_No 1 P_Page 13	Meghana Charde., A Vemuri., Rajiv Gupta., S Bhati., A Kheterpal	SCS GSC	International
305	CFD analysis of the performance of different airfoils in ground effect	Journal of Physics: Conference Series Vol_No 1355 P_Page 7	Zubin Zaheer., K E Reby Roy., Gopakumar S Nair., Vineeth Ragipathi., U V Niranjan	GSC	International
306	High temperature PEMs developed from the blends of Polybenzimidazole and poly(azomethine-ether)	Journal of Polymer Research Vol_No 26 Issue_No 2	Balakondareddy Sana., Rambabu Koyilapu., Sengottuvelu Dineshkumar., Athianna Muthusamy., Tushar Jana	SCS WOS GSC	International
307	Application of photodynamic therapy drugs for management of glioma	Journal of Porphyrins and Phthalocyanines	Dubey S.K., Pradyuth S.K., Saha R.N., Singhvi G., Alexander A., Agrawal M., Shapiro B.A., Puri A.	SCS GSC	International
308	Two modified z-source inverter topologies-solutions to start-up dc-link voltage overshoot and source current ripple	Journal of Power Electronics Vol_No 19 Issue_No 6 P_Page 1365	Bharatkumar D.H., Singh D., Bansal H.O.	SCS WOS GSC	International
309	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	Saquib Hasnain., Vamshi Krishna Rapalli., Gautam Singhvi., Srividya Gorantla., Tejashree Waghule., Sunil Kumar Dubey., Ranendra Narayan Saha., Amit Kumar Nayak	SCS WOS GSC	International
310	Some Connections Between the Classical Calogeroâ€"Moser Model and the Log-Gas	Journal of Statistical Physics	Agarwal S., Kulkarni M., Dhar A.	SCS WOS GSC	International
311	Secure and Optimized Real-Time System for Internet of Medical Things Using MATuino and ThingSpeak Analytics	Journal of Testing and Evaluation Vol_No 47 Issue_No 6	Ranjani J Jennifer., Selvapriya A Shanthoshini., Vijayan E	SCS WOS GSC	International
312	Thin-walled metal deposition with GTAW welding-based additive manufacturing process	Journal of the Brazilian Society of Mechanical Sciences and Engineering Vol_No 41 Issue_No 12	Gokhale N.P., Kala P., Sharma V.	SCS WOS GSC	International
313	Optimization and analysis of ultrasound-assisted extraction of bioactive polyphenols from Garcinia indica using RSM and ANFIS modeling and its anticancer activity	Journal of the Iranian Chemical Society	Saravanan Govindaraj., Ponnusamy Palanisamy., Selvaraj Kunjiappan., Theivendren Panneerselvam ., Suthendran Kannan., Pavadai Parasuraman., Sankarganesh Arunachalam., S Murugesan., Suraj Baskararaj., Damodar Nayak Ammunje	SCS GSC	International
314	Mixed mode crack propagation in staggered biocomposites using phase field modelling	Journal of the Mechanical Behavior of Biomedical Materials	Kiran Raj., Murali Palla	SCS WOS GSC	International

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315	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	Malik N., Shrivastava S.	SCS WOS GSC	International
316	Thermohydraulic characteristics of inline and staggered angular cut baffle inserts in the turbulent flow regime	Journal of Thermal Analysis and Calorimetry	Bhattacharyya S., Benim A.C., Pathak M., Chamoli S., Gupta A.	SCS GSC	International
317	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	Suvanjan Bhattacharyya	SCS GSC	International
318	Bearing fault analysis using kurtosis and wavelet based multi-scale PCA	Journal of Vibroengineering Vol_No 22 P_Page 40	Satish Mohanty., Karunesh Kumar Gupta ., Ankush Chandrakant Jahagirdar	SCS GSC	International
319	Synthesis and characterization of ecofriendly silver nanoparticles combined with yttrium oxide (Ag-Y2O3) nanocomposite with assorted adsorption capacity for Cu(II) and Cr(VI) removal: A mechanism perspective	Journal of Water Process Engineering Vol_No 32	Suresh Gupta., Saswat Kumar Pradhan., Vikram Pareek., Jitendra Panwar	SCS WOS GSC	International
320	FRACTIONAL DIFFERENCE EQUATIONS OF VOLTERRA TYPE	Kragujevac Journal of Mathematics Vol_No 43 Issue_No 2 P_Page 237	Jagan Mohan Jonnalagadda	SCS GSC	International
321	Invariants of families of flat connections using fiber integration of differential characters	Letters in Mathematical Physics	Mata I.	SCS WOS GSC	International
322	Green synthesis, in-vitro antimicrobial evaluation, docking, and SAR studies of potent quinoline-4-carboxylic acids	Letters in Organic Chemistry Vol_No 16 Issue_No 11 P_Page 883	Pallavi B., Singh R.P., Jha P.N., Chander S., Murugesan S., Sharma P., Shukla P.	SCS WOS GSC	International
323	Angiotensin II type 2 receptor and angiotensin-converting enzyme 2 mediate ischemic renal injury in diabetic and non-diabetic rats	Life Sciences Vol_No 235 Issue_No 15	Vajir Malek., Nisha Sharma., Shrikant R Mulay., Gaikwad Anil Bhanudas	SCS WOS PUBMED GSC	International
324	Attributes of Alternatively Activated (M2) Macrophages	Life Sciences Vol_No 224 P_Page 231	Richa Shrivastava ., Nidhi Shukla	SCS WOS PUBMED GSC	International
325	Concurrent neprilysin inhibition and renin-angiotensin system modulations prevented diabetic nephropathy	Life Sciences P_Page 167	VajirMalek., NishaSharma., HimanshuSankrityayan., Anil BhanudasGaikwad	SCS WOS PUBMED GSC	International
326	Effect of functionalised silver nanoparticle on the elastic constants and ionic transport of a nematic liquid crystal	Liquid Crystals P_Page 9	Shivaraja S. J., R. K. Gupta., Sandeep Kumar., Manjuladevi V	SCS WOS GSC	International
327	Alignment of liquid crystals using Langmuirâ€'Blodgett films of unsymmetrical bent-core liquid crystals	Liquid Crystals P_Page 11	Keerti Choudhary., Raj Gupta., R Pratibha., BK Sadashiva., Manjuladevi V	SCS WOS GSC	International
328	Towards building circular economy: A cross-cultural study of consumersâ€¬â„¢ purchase intentions for reconstructed products	Management Decision Vol_No 57 Issue_No 4 P_Page 903	Gaur J., Mani V., Banerjee P., Amini M., Gupta R.	SCS WOS GSC	International
329	Evaluation and comparison of environmental performance for shackle insulators â€" a case study	Management of Environmental Quality: An International Journal	Choudhary K., Soherwordi S.A., Singh Y., Sangwan K.S.	SCS WOS GSC	International
330	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 Issue_No 6 P_Page 1296	Choudhary K., Sangwan K.S.	SCS WOS GSC	International
331	Heteroatom doped blue luminescent carbon dots as a nano-probe for targeted cell labeling and anticancer drug delivery vehicle	Materials Chemistry and Physics Vol_No 237	Das P., Ganguly S., Agarwal T., Maity P., Ghosh S., Choudhary S., Gangopadhyay S., Maiti T.K., Dhara S., Banerjee S., Das N.C.	SCS WOS GSC	International

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332	Novel Na3Zr2Si2PO12â€"polymer hybrid composites with high ionic conductivity for solid-state ionic devices	Materials Letters	Dinachandra Singh M., Dalvi A., Phase D.M.	SCS GSC	International
333	Electrical transport in PEO-NaI-NASICON nanocomposites: An assessment using impedance and X-Ray absorption spectroscopy	Materials Research Bulletin Vol_No 118	Dinachandra Singh M., Dalvi A., Phase D.M.	SCS WOS GSC	International
334	"Electrical Transport in PEO-NaI-NASICON nanocomposites: An Assessment using Impedance and X-Ray Absorption Spectroscopy	Materials Research Bulletin Vol_No 118	M Dinachandra Singh., Anshuman Dalvi ., D M Phase	SCS WOS GSC	International
335	Conductivity and capacitance studies of silica glass composites containing [BMIM]Br and LiCl	Materials Research Express	RAJINDER KASWAN., Yokesh Kumar., Anshuman Dalvi ., Seshadri Chandrasekara Sivasubramanian	SCS WOS GSC	International
336	An investigation on the performance of Di-isopropyl benzyl Derivative of Poly (3,4-propylene dioxythiophene) thin film based electrochromic pixels displays	Materials Research Express	C R Siju., V Hajeesh Kumar., Sindhu Sukumaran Nair., T S Nivin., P Aswathy Anil., N C Shivaprakash., Raja Lakshmanan., S Malavika Sunil	SCS WOS GSC	International
337	Design and fabrication of Al/Sr:SnO2/p-Si schottky barrier diode based on strontium-doped SnO2 thin film	Materials Research Express Vol_No 6 Issue_No 2	Ravikumar K., Agilan S., Raja M., Raja L., Gokul B., Ganesh R., Muthukumarasamy N.	SCS WOS GSC	International
338	Global analysis of a delayed stage structure preyâ€"predator model with Crowleyâ€"Martin type functional response	Mathematics and Computers in Simulation Vol_No 162 P_Page 84	Maiti A.P., Dubey B., Chakraborty A.	SCS WOS GSC	International
339	Quality monitoring in petroleum refinery with regression neural network: Improving prediction accuracy with appropriate design of training set	Measurement: Journal of the International Measurement Confederation Vol_No 134 P_Page 709	Singh H., Pani A.K., Mohanta H.K.	SCS WOS GSC	International
340	Hybrid effect of functionally graded hybrid composites of glassâ€"carbon fibers	Mechanics of Advanced Materials and Structures P_Page 14	Singh S.B., Chawla H., B. R.	SCS WOS GSC	International
341	Dynamic instability characteristic of damped laminated composite conical shell panel under periodic axial compression	Mechanics of Advanced Materials and Structures P_Page 16	Rajesh Kumar., LS Ramachandra., Biswanath Banerjee	GSC	International
342	Unfair promotion of whitening creams: Is beauty no more skin deep?	Media Watch Vol_No 10 Issue_No 2 P_Page 373	Chauhan G.S., Tiwari A.	SCS GSC	National
343	Fluoroquinolone-3-carboxamide amino acid conjugates: Synthesis, antibacterial properties and molecular modeling studies	Medicinal Chemistry	Abdel-Aal E H., Kashef M T., Al-Mahmoudy A M M., George R F., Bokhtia R M., Fayad W., Rajeev Sakhuja., Panda S S., Girgis A S., Honkanadavar H H., Ibrahim T S	PUBMED GSC	International
344	New fluoroquinolones/nitric oxide donor hybrids: design, synthesis and antitubercular activity	Medicinal Chemistry Research P_Page 12	Hossameldin A. Aziz., Gamal A. I. Moustafa., Samar H. Abbas., Glenn Hauk., Vagolu Siva Krishna., Dharmarajan Sriram., Gamal El-Din A. Abuo-Rahma., James M. Berger	SCS WOS GSC	International
345	Alterations in the Endophyte-Enriched Root-Associated Microbiome of Rice Receiving Growth-Promoting Treatments of Urea Fertilizer and Rhizobium Biofertilizer	Microbial Ecology P_Page 16	Tiffany M. Stedtfeld., Prabhat Nath Jha ., Syed A Hashsham., Stephan Gantner., Benli Chai., Robert D. Stedtfeld., Abd-Elgawad Y. El-Saadany., Youssef G. Yanni., James Cole., Abu-Bakr Gomaa., Frank B Dazzo	SCS PUBMED GSC	International
346	Microfluidic platform for dielectrophoretic separation of bio-particles using serpentine microelectrodes	Microsystem Technologies	Puri P., Kumar V., Belgamwar S.U., Ananthasubramanian M., N Sharma N.	SCS WOS GSC	International

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347	Optimal selection of dielectric film in piezoelectric MEMS microphone	Microsystem Technologies P_Page 9	Prashant Gangidi., Navneet Gupta	SCS WOS GSC	International
348	Effect of varying viscosity on two-fluid model of pulsatile blood flow through porous blood vessels: A comparative study	Microvascular Research Vol_No 123 P_Page 110	Tiwari A., Chauhan S.S.	SCS WOS PUBMED GSC	International
349	Magnetic quadrupole mode excitation of a cylindrical dielectric resonator antenna using planar feed	Microwave and Optical Technology Letters	Anuj K Ojha., Rutwik Jain., Praveen Kumar A V	SCS GSC	International
350	Scalable Self-Assembling Micellar System for Enhanced Oral Bioavailability and Efficacy of Lisofylline for Treatment of Type-I Diabetes	Molecular Pharmaceutics	Italiya K.S., Basak M., Mazumdar S., Sahel D.K., Shrivastava R., Chitkara D., Mittal A.	SCS WOS PUBMED GSC	International
351	Testing the warmness of dark matter	Monthly Notices of the Royal Astronomical Society Vol_No 490 Issue_No 1 P_Page 1414	Kumar S., Nunes R.C., Yadav S.K.	SCS	International
352	Star formation thresholds: real and illusory	Monthly Notices of the Royal Astronomical Society P_Page 9	Shivan Khullar., Mark R Krumholz., Christoph Federrath., Andrew J Cunningham	GSC	International
353	An optimized hierarchical encryption technique for tamper recognition	Multimedia Tools and Applications P_Page 20	Sudharshan Chakravarthy., Madhav Anand Jagannathan., J Jennifer Ranjani., Balamurugan Baluswamy., Seifedine Kadry	SCS WOS GSC	International
354	A novel multimodal clustering framework for images with diverse associated text	Multimedia Tools and Applications P_Page 30	Chandramani Chaudhary., Poonam Goyal., Siddhant Tuli., Shuchita Banthia., Navneet Goyal., Yi-Ping Phoebe Chen	SCS WOS GSC	International
355	Self-assembling lisofylline-fatty acid conjugate for effective treatment of diabetes mellitus	Nanomedicine: Nanotechnology, Biology, and Medicine Vol_No 15 Issue_No 1 P_Page 187	Italiya K.S., Mazumdar S., Sharma S., Chitkara D., Mahato R.I., Mittal A.	SCS WOS PUBMED GSC	International
356	Nanocarriers for topical drug delivery: Approaches and advancements	Nanoscience and Nanotechnology - Asia Vol_No 9 Issue_No 3 P_Page 336	Singhvi G., Patil S., Girdhar V., Dubey S.K.	SCS GSC	International
357	Design, insilico modelling and functionality theory of folate receptor targeted Myricetin -loaded bovine serum albumin nanoparticle formulation for cancer treatment	Nanotechnology	Ewa Babkiewicz., Piotr Maszczyk., Selvaraj Kunjiappan., Saravanan Govindaraj., Pavadai Parasuraman., S Murugesan., Sankarganesh Arunachalam., Ponnusamy Palanisamy., Uma Priya Mohan., Vellaichamy Sivakumar., Panneerselvam Theivendren	PUBMED GSC	International
358	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 Research	George G., P. S D., Paul A.T.	SCS GSC	International
359	Groundwater Quality Assessment in a Hyper-arid Region of Rajasthan, India	Natural Resources Research	Bhakar P., Singh A.P.	SCS WOS GSC	International
360	Real-time Yoga recognition using deep learning	Neural Computing and Applications P_Page 13	Santosh Kumar Yadav., Amitojdeep Singh., Abhishek Gupta., Jagdish Lal Raheja	SCS WOS GSC	International
361	Fingerprint Indexing Schemes-A Survey	Neurocomputing Vol_No 335 P_Page 365	Phalguni Gupta ., Kamlesh Tiwari, Geetika Arora	SCS WOS GSC	International
362	A simple route to tetracyclic oxazepine-fused pyrroles via metal-free [3+2] annulation between dibenzo[b,f][1,4]oxazepines and aqueous succinaldehyde	New Journal of Chemistry	Sachin Choudhary., Anoop Singh., jyothi Yadav., nisar A. Mir., sumati Anthal., rajni Kant., indresh Kumar	SCS WOS GSC	International

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363	ZnO@CdS heterostructures: An efficient photoanode for photoelectrochemical water splitting	New Journal of Chemistry Vol_No 43 Issue_No 18 P_Page 7010	Mahala C., Sharma M.D., Basu M.	SCS WOS GSC	International
364	A core@shell hollow heterostructure of Co3O4 and Co3S4: An efficient oxygen evolution catalyst	New Journal of Chemistry Vol_No 43 Issue_No 39 P_Page 15776	Mahala C., Sharma M.D., Basu M.	SCS WOS GSC	International
365	A water-soluble AIE-gen for organic-solvent-free detection and wash-free imaging of Al3+ ions and subsequent sensing of Fâˆ' ions and DNA tracking	New Journal of Chemistry Vol_No 43 Issue_No 13 P_Page 5227	Sharanabasava D Hiremath., Ram U. Gawas., Starlaine C. Mascarenhas., Anasuya Ganguly., Mainak Banerjee., Amrita Chatterjee	SCS WOS GSC	International
366	Core@ Shell Hollow Heterostructure of Co3O4 and Co3S4: An Efficient Oxygen Evolution Catalyst	New Journal of Chemistry	Chavi Mahala., Mamta Devi Sharma., Mrinmoyee Basu	SCS WOS GSC	International
367	Dynamics of preyâ€"predator model with stage structure in prey including maturation and gestation delays	Nonlinear Dynamics Vol_No 96 Issue_No 4 P_Page 2679	Dubey B., Kumar A.	SCS WOS GSC	International
368	Design, In Silico Modelling, 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	Theivendren Panneerselvam., Saravanan Govindaraj., Pavadai Parasuraman., Selvaraj Kunjiappan., S Murugesan., Aarthi Jeyakumar., Muthulakshmi Lakshmanan., Suraj Baskararaj., Ewa Babkiewicz., Sankarganesh Arunachalam	PUBMED GSC	International
369	Synthesis and Evaluation of 3-(1,3-dioxoisoindolin-2-yl)-N-substituted Phenyl Benzamide Analogues as HIV Integrase Strand Transfer Inhibitors	Anti-Infective Agents Vol_No 17 Issue_No 2 P_Page 114	Pankaj Wadhwa., Arpit Patel., Shantanu Shinde., Hemant Ramanlal Jadhav ., Priti Jain	SCS GSC	International
370	Synthesis and Evaluation of 3-(1, 3-dioxoisoindolin-2-yl)-N-substituted Phenyl Benzamide Analogues as HIV Integrase Strand Transfer Inhibitors	Anti-Infective Agents Vol_No 17 Issue_No 2 P_Page 114	Priti Jain., Arpit Patel., Hemant Ramanlal Jadhav ., Pankaj Wadhwa., Shantanu Shinde	SCS GSC	International
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384	Lifetime of a Nanodroplet: Kinetic Effects and Regime Transitions	Physical Review Letters Vol_No 123 Issue_No 15	Rana A.S., Lockerby D.A., Sprittles J.E.	SCS WOS PUBMED GSC	International
385	Laser pulse dispersion in underdense plasma and associated ion acceleration by relativistic self-induced transparency	Physics of Plasmas Vol_No 26 Issue_No 8	Choudhary S., Holkundkar A.R.	SCS WOS GSC	International
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393	Flexural Analysis of Functionally Graded thin Walled Beams	Proceedings of the Indian National Science Academy Vol_No 85 Issue_No 4 P_Page 842	S B Singh.,Himanshu Chawla.,Aditya Narkhede.	GSC	National
394	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	Joshua Amrith Raj., Bijay Kumar Rout ., Arshad Javed	SCS WOS GSC	International
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399	Design, synthesis and evaluation of 2-(4-(substituted benzoyl)-1, 4-diazepan-1-yl)-N-phenylacetamide derivatives as a new class of falcipain-2 inhibitors	Arabian Journal of Chemistry	Radhakrishnan Mahesh., Sourabh Mundra., Thangaraj Devadoss., Lakshmi P.kotra	SCS WOS GSC	International
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429	Stability and failure characterization of fiber reinforced pultruded beams with different stiffening elements, Part I: Experimental investigation	Thin-Walled Structures	Singh S.B., Chawla H.	SCS WOS GSC	International
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482	Investigation on electrical properties of Cu matrix composite reinforced by multi-walled carbon nanotubes	Materials Today: Proceedings Vol_No 18 Issue_No 7 P_Page 3208	Niti Nipun Sharma., Sachin Ulhas Belgamwar., Ajay D Pingale	GSC	International
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486	Assessment of geothermal reservoir temperature and energy fields based on resistivity data	IOP Conference Series: Earth and Environmental Science Vol_No 367 P_Page 9	Shibani Khanra Jha., Harish Puppala	SCS GSC	International
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488	Life Values and Subjective Well-being among Indian University Students: Scrutinizing the Omnipresent North-South Divide.	Journal of the Indian Academy of Applied Psychology Vol_No 44 Issue_No 2 P_Page 248	Eliska Cejkova., Dr Rajneesh Choubisa., V. Vijayalakshmi., Alena Slezackova	GSC	National
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504	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	Chemical Physics Letters Vol_No 730 P_Page 238	Dinesh Kumar., Prashant Uday Manohar	SCS WOS GSC	International
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520	Secure and efficient integration of settings of enhanced HTML5 XSS vector defensive framework on edge network of fog nodes	Concurrency Computation	Shashank Gupta., Monika Sharma., Dhrub Kumar	WOS GSC	International
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134	Improved efficiency of DSSC using combustion synthesized TiO2	Materials Research Bulletin Vol_No 109 P_Page 226	Umale S., Sudhakar V., Sontakke S.M., Krishnamoorthy K., Pandit A.B.	SCS WOS GSC	international
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155	Molecular interaction studies in binary mixtures of tetrahydrofuran with arene-substituted alcohols: acoustic and volumetric study	Physics and Chemistry of Liquids P_Page 17	A Shakila., R Raju., T Srinivasa krishna., Ranjan Dey., V Pandiyan	SCS GSC	international
156	Molecular cloning, expression analysis, and heterologous characterization of a novel sodium/hydrogen exchanger from a mangrove plant, Rhizophora apiculata	Plant Gene Vol_No 19	Saddhe A.A., Kumar K.	SCS GSC	international
157	Biokinetics of fed-batch production of poly (3-hydroxybutyrate) using microbial co-culture	Applied Microbiology and Biotechnology P_Page 19	Anusha Mohanakrishnan Subramanian., Sivanesh Easwaran Nanjan., Hariram prakash., Leelaram Santharam., Ankitha Ramachandran., Vignesh sathyaseelan., P R Deepa.,	SCS PUBMED GSC	international

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158	Synergistic action of the transcription factors Krüppel homolog 1 and Hairy in juvenile hormone/Methoprene-tolerant-mediated gene-repression in the mosquito Aedes aegypti	PLoS Genetics Vol_No 15 Issue_No 10	Sourav Roy., Wei Dou., Tusar T Saha., Gaofeng Pei., Zhen Zou., Alexander S Raikhel	SCS WOS PUBMED GSC	international
159	Effect of chemical treatment on mechanical properties and water diffusion characteristics of jute€• polypropylene composites	Polymer Composites	Harichandra Chandekar., Adlete Mascarenhas., Vikas Chaudhari., Sachin Damodharrao Waigaonkar	SCS WOS GSC	international
160	Copolymers with Pendant N-arylimide Groups via Atom Transfer Radical Polymerization: Synthesis, Characterization and Kinetic Study	Polymer Science, Series B Vol_No 61 Issue_No 2 P_Page 179	Chetana Deoghare., Vishnu S. Nadkarni., Raghu N. Behera., Rashmi Chauhan	SCS WOS GSC	international
161	Effect of Seawater Exposure on Impact Damping Behavior of Viscoelastic Material of Pounding Tuned Mass Damper (PTMD)	Applied Sciences Vol_No 9 Issue_No 4	Peng Zhang., Devendra Patil., Siu Chun MH	SCS WOS GSC	international
162	Synergistic effect of dual electron-cocatalyst modified photocatalyst and methodical strategy for better charge separation	Applied Surface Science P_Page 12	M Dileep., Saroj Sundar Baral	SCS WOS GSC	international
163	Nambu structures on Lie algebroids and their modular classes	Proceedings of the Indian Academy of Sciences: Mathematical Sciences Vol_No 129 Issue_No 4	Das A., Gondhali S., Mukherjee G.	SCS WOS GSC	international
164	Independent metric dimension of Mobius ladders	Proceedings of the Jangjeon Mathematical Society Vol_No 22 Issue_No 2 P_Page 336	Suganya B., Arumugam S.	SCS	international
165	Miniaturized Dual-Band Antenna with a Rectangular Patch and Symmetrically Placed Circles in the Partial Ground Plane	Progress In Electromagnetics Research Vol_No 78 P_Page 37	Baudha Sudeep., Aman K Goswami., Manish V Yadav	SCS WOS GSC	international
166	Cloning, overexpression and purification of a novel two-domain protein of Staphylococcus aureus phage Phi11	Protein Expression and Purification Vol_No 154 P_Page 111	Das A., Biswas M.	SCS WOS PUBMED GSC	international
167	Adaptive Distance Relaying for Grid-Connected Line with Consideration of Single-Phase Auto-Reclosing	Arabian Journal for Science and Engineering P_Page 13	Jitendra Kumar., Premalata Jena	SCS WOS GSC	international
168	Some Integral Inequalities for the Polar Derivative of Polynomials	Publications de l'Institut Mathematique Vol_No 106 Issue_No 120 P_Page 94	Prasanna Kumar Nekkare	SCS GSC	international
169	Modeling Three-Dimensional Fluid-Driven Propagation of Multiple Fractures using TOUGH-FEMM	Rock Mechanics and Rock Engineering	Tang X., Rutqvist J., Hu M., Rayudu N.M.	SCS WOS GSC	international
170	Does Studying â€˜Ethicsâ€™ Improve Engineering Studentsâ€™ Meta-Moral Cognitive Skills?	Science and Engineering Ethics P_Page 14	Cheruvalath R.	SCS WOS PUBMED GSC	international
171	Investigations on various characteristics of novel cyclone separator with helical square fins	Separation Science and Technology P_Page 18	Ranjit Shankarrao Patil., Mahesh Dasar	SCS WOS GSC	international
172	ALVEC: Auto-scaling by Lotka Volterra elastic cloud: A QoS aware non linear dynamical allocation model	Simulation Modelling Practice and Theory	Goswami(Mukherjee) B., Sarkar J., Saha S., Kar S., Sarkar P.	SCS WOS GSC	international
173	Consumption inequality in India after liberalization: a caste based assessment	Singapore Economic Review	KUMAR A.S., YAZIR P., GOPIKA G.G.	SCS WOS GSC	international
174	A nifty review to text summarization-based recommendation system for electronic products	Soft Computing P_Page 22	Rajendra Kumar Roul., Kushagr Arora	SCS WOS GSC	international
175	Alpha-amylase Production by Extremely Halophilic Archaeon Halococcus Strain GUVSC8	Starch/Staerke	Salgaonkar B.B., Sawant D.T., Harinarayanan S., BraganÃ§a J.M.	SCS WOS GSC	international
176	Inspection and monitoring systems subsea pipelines: A review paper	Structural Health Monitoring	Ho M., El-Borgi S., Patil D., Song G.	SCS GSC	international
177	Miniaturized Dual-Band Arrow Shaped Planar Antenna	Telecommunications and Radio Engineering (English translation of Elektrosvyaz and	S Baudha.,M V Yadav.,N Joshi.	GSC	international

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178	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	Tetrahedron Vol_No 75 Issue_No 27 P_Page 3732	Kumar V., Naik V.G., Das A., Basu Bal S., Biswas M., Kumar N., Ganguly A., Chatterjee A., Banerjee M.	SCS WOS GSC	international
179	The Role of Grease Composition and Rheology in Elastohydrodynamic Lubrication	Tribology Letters Vol_No 67 Issue_No 4 P_Page 104	Asima Shaukat., Mohammad Mubashshir	SCS WOS GSC	international
180	Simulating three dimensional hydraulic fracture propagation using displacement correlation method	Tunnelling and Underground Space Technology Vol_No 85 P_Page 91	Rayudu N.M., Tang X., Singh G.	SCS WOS GSC	international
181	Finding small molecules with pan-serotype activity to target Dengue non-structural protein 1	VirusDisease Vol_No 30 Issue_No 4 P_Page 489	Bibhudutta Mishra., Raaghavi Raghuraman., Arjun Agarwal., Raviprasad Aduri	SCS GSC	national
182	Nutrient recovery and microbial diversity in human urine fed microbial fuel cell	Water Science & Technology	Priya Sharma., Srikanth Mutnuri	SCS WOS PUBMED GSC	international
183	ESCBV: energy-efficient and secure communication using batch verification scheme for vehicle users	Wireless Networks P_Page 12	Trupil Limbasiya, Debasis Das	SCS GSC	international
184	Implications of multimorbidity patterns on health care utilisation and quality of life in middle-income countries: cross-sectional analysis	Journal of global health Vol_No 9 Issue_No 2	Sum G., Salisbury C., Koh G.C.-H., Atun R., Oldenburg B., McPake B., Vellakkal S., Lee J.T.	SCS WOS PUBMED GSC	international
185	Evidence for a Chandrasekhar-mass explosion in the Ca-strong 1991bg-like type la supernova 2016hnk	Astronomy & Astrophysics Vol_No 630	Galbany, L.; Ashall, C.; Hoflich, P.; Gonzalez-Gaitan, S.; Taubenberger, S.; Stritzinger, M.; Hsiao, E. Y.; Mazzali, P.; Baron, E.; Blondin, S.; Bose, S.; Bulla, M.; Burke, J. F.; Burns, C. R.; Cartier, R.; Chen, P.; Della Valle, M.; Diamond, T. R.; Gutie	WOS GSC	international
186	Dynamics of Two Dimensional Piecewise Smooth Maps with Stochastically Varying Border	ADVANCES IN DYNAMICAL SYSTEMS AND APPLICATIONS Vol_No 14 Issue_No 2 P_Page 255	Dhrubajyoti Mandal.	GSC	national
187	Structure of the active GGEEF domain of a diguanylate cyclase from Vibrio cholerae	Biochemical and Biophysical Research Communications	Chouhan O.P., Roske Y., Heinemann U., Biswas S.	SCS GSC	international
188	Spectroscopic and viscometric determination of DNA-binding modes of some bioactive dibenzodioxins and phenazines	Biochemistry and Biophysics Reports Vol_No 18	Phadte A.A., Banerjee S., Mate N.A., Banerjee A.	SCS GSC	international
189	Spectroscopic and viscometric determination of DNA-binding modes of some bioactive dibenzodioxins and phenazines	Biochemistry and Biophysics Reports Vol_No 18 P_Page 7	Arnab Banerjee., Apeksha Ashok Phadte., Subhadeep Banerjee., Nayan Anand Mate	SCS PUBMED GSC	international
190	Combination of hand-crafted and unsupervised learned features for ischemic stroke lesion detection from Magnetic Resonance Images	Biocybernetics and Biomedical Engineering Vol_No 39 Issue_No 2 P_Page 425	Gurunath Bharathi P., Agrawal A., Sundaram P., Sardesai S.	SCS WOS GSC	international
191	Combination of hand-crafted and unsupervised learned features for predicting ischemic stroke lesions from Magnetic Resonance Images	Biocybernetics and Biomedical Engineering Vol_No 39 P_Page 425	Praveen Gurunath Bharathi., Anita Bhagirathji Agrawal., Ponraj Sundaram., Sanjay Sardesai	SCS WOS GSC	international
192	Tertiary treatment of domestic wastewater by Spirulina platensis integrated with microalgal biorefinery	Biofuels P_Page 12	Chavan R., Mutnuri S.	SCS WOS GSC	international
193	UPLC-MS/MS method validation of Ciprofloxacin in human urine: Application to biodegradability study in Microbial Fuel Cell.	Biomedical Chromatography Vol_No 33 Issue_No 2	Sharma P., Kumar D., Kumar D	SCS WOS PUBMED GSC	international

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194	Design, synthesis and photoinduced DNA cleavage studies of [1,2,4]-triazolo[4,3-a]quinoxalin-4(5H)-ones	Bioorganic Chemistry Vol_No 88	Sumran G., Aggarwal R., Mittal A., Aggarwal A., Gupta A.	SCS WOS PUBMED GSC	international
195	Nanoimmunosensor based on ZnO nanorods for ultrasensitive detection of 17β-Estradiol	Biosensors and Bioelectronics Vol_No 126 P_Page 22	Singh A.C., Asif M.H., Bacher G., Danielsson B., Willander M., Bhand S.	SCS WOS PUBMED GSC	international
196	Investigating Prime Minister Narendra Modi Usage of Pathos in the Cyber-Physical Society- A Case of Public Relations Campaign	Procedia computer science Vol_No 162 P_Page 404	Shalini Upadhyay.	GSC	international
197	A novel method for rapid and sensitive detection of viable Escherichia coli cells using UV-induced PMA-coupled quantitative PCR	Brazilian Journal of Microbiology P_Page 6	Rehan Deshmukh., Sunil Bhand., Utpal Roy	SCS WOS PUBMED GSC	international
198	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 Vol_No 4 Issue_No 24 P_Page 20689	Manoj Kumar Patra., Priyanka Makkar., Madhurya Chandel., Narendra Nath Ghosh	SCS WOS GSC	international
199	Examining the initial usability, acceptability and feasibility of a digital mental health intervention for college students in India	International Journal of Psychology	Kanuri N., Arora P., Talluru S., Colaco B., Dutta R., Rawat A., Taylor B.C., Manjula M., Newman M.G.	SCS GSC	international
200	A Computational Study on the Photochemistry of 2,4,4 Trimethyl pyrroline Oxide and Investigation on the Reaction Paths of Its Photoproduct Oxaziridine	ChemistrySelect Vol_No 4 Issue_No 42 P_Page 12209	Sindhuja Sen., Anjan Chattopadhyay	SCS WOS GSC	international
201	Life Cycle Assessment of Tyre Manufacturing Process	Journal of Sustainable Development of Energy, Water and Environment Systems Vol_No 8 Issue_No 1 P_Page 34	Amit Shanbag., Sampatrao Dagu Manjare	SCS GSC	international
202	Experimental Investigation of High Speed Tool Rotation on Heat Affected Zone and Over Cut in ECDM	Materials Today: Proceedings Vol_No 18 Issue_No 3 P_Page 1478	Narayan Hargude., Mukund Harugade., Sachin Damodharrao Waigaonkar., Nikhil Mane	SCS GSC	international
203	Biodiesel production using prepared novel surface functionalised TiO2 nano-catalyst in hydrodynamic cavitation reactor	Materials Today: Proceedings P_Page 6	Abhijeet Patil., Prashant Dhanke., Vivek Kore., Saroj Sundar Baral	GSC	international
204	Effect of lubrication technique in tube drawing	Materials Today: Proceedings	Mahesh Patil.,Varinder Singh.,Bade Simhachalam.,Krishna Srinivas.	GSC	international
205	On zygmund-type inequalities involving polar derivative of a lacunary-type polynomial	Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie Vol_No 62 Issue_No 2 P_Page 172	Kumar P.	SCS WOS GSC	international
206	Realization of vertically aligned 1-D Ferrous nanorods using template assisted electrochemical deposition	IOP Conference Series: Materials Science and Engineering Vol_No 577 Issue_No 1 P_Page 8	R Anu Roshini., Senthamarai Kannan Ethirajulu	GSC	international
207	Machine learning based maximum power point tracking in solar energy conversion systems	International Journal of Smart Grid and Clean Energy Vol_No 8 Issue_No 6 P_Page 669	Memaya M., Balakrishna Moorthy C., Tahiliani S., Sreeni S.	SCS GSC	international
208	A New Functional Model for Prediction of Chaperone Activity of the Recombinant M. tb Acr (Crystallin) Using Insulin as Substrate	Canadian Journal of Infectious Diseases and Medical Microbiology Vol_No 2019 P_Page 18	Gautam Krishnan., Utpal Roy	SCS WOS GSC	international
209	Defect-induced enhanced dissociative adsorption, optoelectronic properties and interfacial contact in Ce doped TiO2: Solar photocatalytic degradation of Rhodamine B	Ceramics International	Dileep Maarisetty., Saroj Sundar Baral	SCS WOS GSC	international

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210	ChaosNet: A chaos based artificial neural network architecture for classification	Chaos Vol_No 29 Issue_No 11	Balakrishnan H.N., Kathpalia A., Saha S., Nagaraj N.	SCS PUBMED GSC	international
211	Key factors affecting photoelectrochemical performance of g-C3N4 polymer films	Chemical Communications Vol_No 55 Issue_No 50 P_Page 7194	Ruan Q., Bayazit M.K., Kiran V., Xie J., Wang Y., Tang J.	SCS WOS PUBMED GSC	international
212	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 Vol_No 355 P_Page 102	Ioannou-Ttofa L., Raj S., Prakash H., Fatta-Kassinos D.	SCS WOS GSC	international
213	Desublimation based separation of CO 2 inside a cryogenic packed bed: Performance mapping with the spatiotemporal evolution of CO 2 frost	Chemical Engineering Research and Design Vol_No 146 P_Page 181	Debnath B., Mukherjee A., Mullick A., Ghoshdastidar S., Ganguly S., Kargupta K.	SCS WOS GSC	international
214	Many unknowns below or close to the experimentally known cumulene carbene â€" A case study of C9H2 isomers	Chemical Physics Vol_No 527 P_Page 110496	Mayavan Viji., Garima Yadav., Tanmay G Netke., Baranitharan Sekar., Krishnan Thirumoorthy., Venkatesan S Thimmakondu., Aditya P Pandey., Saurabh Deshpande	SCS WOS GSC	international
215	An Auto-Calibrated Sense Amplifier with Offset Prediction Approach for Energy-Efficient SRAM	Circuits, Systems, and Signal Processing P_Page 24	Bhupendra Singh Reniwal., Vikas Vijayvargiya., Pooran Singh., Nand Kishor Yadav., Santosh Kumar Vishvakarma., Devesh Dwivedi	SCS WOS GSC	international
216	A Novel and Efficient Hardware Accelerator Architecture for Signal Normalization	Circuits, Systems, and Signal Processing P_Page 17	Gibin Chacko George., Abhishek Moitra., Sriyash Caculo., AMALIN PRINCE A., J J U Buch., Surya K Pathak	SCS GSC	international
217	Role of surface charges on interaction of rod-shaped magnetic hydroxyapatite nanoparticles with protein	Colloids and Surfaces B: Biointerfaces Vol_No 177 P_Page 369	Kavita Kadu, Goutam Ghosh., Lata Panicker., Meenal Kowshik., SutapaRoy Ramanan	SCS WOS PUBMED GSC	international
218	Preface	Communications in Computer and Information Science Vol_No 844 P_Page VI	Ganapathi G., Arumugam S., Graña M., Balusamy S., Rajamanickam N., Periakaruppan R.	SCS	international
219	Preface	Communications in Computer and Information Science Vol_No 844	Ganapathi G., Arumugam S., Graña M., Balusamy S., Rajamanickam N., Periakaruppan R.	SCS	international
220	On extension problem, trace hardy and Hardyâ€™s inequalities for some fractional Laplacians	Communications on Pure and Applied Analysis Vol_No 18 Issue_No 5 P_Page 2605	Boggarapu P., Roncal L., Thangavelu S.	SCS WOS GSC	international
221	A complete diagnosis of faulty sensor modules in a wireless sensor network	Ad Hoc Networks Vol_No 93	Rakesh Ranjan Swain., Tirtharaj Dash., Pabitra Mohan Khilar	SCS WOS GSC	international
222	Catalytic and Electron Conducting Carbon Nanotube "Reinforced Lysozyme Crystals	Advanced Functional Materials Vol_No 29 Issue_No 5	Rafael Contrerasââ‚¬Â• Montoya., Guillermo Escolano., Subhasish Roy., Modesto T. Lopezââ‚¬Â Lopez., Jose M. Delgadoââ‚¬Â López., Juan M. Cuerva., Juan J. Díazââ‚¬Â Mochón., Nurit Ashkenasy., José A. Gavira., Luis Álvarez de Cienfuegos	SCS WOS GSC	international
223	Improved production of two anti-Candida lipopeptide homologues co-produced by the wild-type Bacillus subtilis RLID 12.1 under optimized conditions	Current Pharmaceutical Biotechnology Vol_No 20	Ramya R., Ramesh S., Anviksha A., Thakur R., Chakrabarti A., Roy U	PUBMED GSC	international
224	Assessment and Interpretation of Surface Wettability Based on Sessile Droplet Contact Angle Measurement:	Advanced Materials Interfaces	Chun Haow Kung., Beniamin Zahiri., Pradeep Kumar Sow., Walter Merida	SCS WOS GSC	international

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225	Nanocarrier mediated siRNA delivery targeting stem cell differentiation	Current Stem Cell Research and Therapy Vol_No 14	Fernandes F., Kotharkar P., Chakravorty A., Meenal Kowshik., Indrani Talukdar	PUBMED GSC	international
226	TNF-alpha regulates alternative splicing of genes participating in pathways of crucial metabolic syndromes; a transcriptome wide study	Cytokine Vol_No 125	Jiss Maria Louis., Indrani Talukdar., Advait Balaji., Candida Vaz., Vivek Tanavde	SCS WOS GSC	international
227	Approximate Solution and its Convergence Analysis for Hypersingular Integral Equations	Defence Science Journal Vol_No 69 Issue_No 2 P_Page 178	Vaishali Sharma., Amit Setia	SCS WOS GSC	national
228	Collective efforts of people to reduce disasters in the Indian Sundarban islands	Disaster Prevention & Management	Mohan Kumar Bera	SCS GSC	international
229	Reflections on the Disciplinary Credibility of Business History	Economic and Political Weekly Vol_No 54 Issue_No 41 P_Page 22	Lakshmi Subramanian	SCS GSC	national
230	Inequalities in adolescent learning: Does the timing and persistence of food insecurity at home matter?	Economics of Education Review Vol_No 70 P_Page 108	Aurino E., Fledderjohann J., Vellakkal S.	SCS WOS GSC	international
231	Molecularly Imprinted Polyresorcinol Based Capacitive Sensor for Sulphanilamide Detection	Electroanalysis Vol_No 31 P_Page 13	Arun kumar Prusty., Sunil Bhand	SCS WOS GSC	international
232	Liraglutide modulates adipokine expression during adipogenesis, ameliorating obesity, and polycystic ovary syndrome in mice	Endocrine P_Page 18	Anusha Singh., Joseph RD Fernandes., Gagan Chhabra., Amitabh Krishna., Arnab Banerjee	SCS WOS PUBMED GSC	international

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2	Controllable nonlinear effects in a hybrid optomechanical semiconductor microcavity containing a quantum dot and Kerr medium	Mesoscale and Nanoscale Physics P_Page 27	Sonam Mahajan., aranya B Bhattacherjee	SCS WOS GSC	International
3	Enhanced Session Initiation Protocols for Emergency Healthcare Applications	Cryptography and Security	Saha Sourav., Vanga Odelu., rajendra Prasath	SCS GSC	International
4	Energy-momentum distribution in general relativity for a phantom black hole metric	Indian Journal of Physics P_Page 8	Pk Sahoo., I Radinschi., Kl Mahanta	SCS GSC	National
5	On Maximally Recoverable Codes for Product Topologies	Information Theory P_Page 6	D. Shivakrishna., V. Arvind Rameshwar., V. Lalitha., Birenjith Sasidharan	SCS IEEE GSC	International
6	Schwinger Pair Production in Hot Anti-de Sitter Space	High Energy Physics - Theory P_Page 11	Prasant Samantray., Suprit Singh	SCS WOS GSC	International
7	Towards single crystalline, highly monodisperse and catalytically active gold nanoparticles capped with probiotic Lactobacillus plantarum derived lipase	APPLIED NANOSCIENCE P_Page 9	Imran Khan., Ravikiran Nagarjuna., Jayati Ray Dutta., Ramakrishnan Ganesan	SCS WOS GSC	International
8	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_No 78 P_Page 149	Mishra S., Sahu P.K., Sarkar A.K., Mehran B., Sharma S.	SCS WOS GSC	International
9	First Report on 3-(3-oxoaryl) Indole Derivatives as Anticancer Agents: Microwave Assisted Synthesis, In Vitro Screening and Molecular Docking Studies	ChemistrySelect Vol_No 4 Issue_No 15 P_Page 4482	Patel T., Gaikwad R., Jain K., Ganesh R., Bobde Y., Ghosh B., Das K., Gayen S.	SCS WOS GSC	International
10	Binding Interaction of Gemini Surfactants with Nanotubes of β-Cyclodextrin and Controlled Release of Guest Molecules: Effect of Spacer Chain Length and Concentration of Surfactants	ChemistrySelect Vol_No 4 Issue_No 14 P_Page 4202	Kumari S., Sundar G., Saha S.K.	SCS WOS GSC	International

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11	Simulated annealing: An experimental application on pairwise testing	International Journal of Innovative Technology and Exploring Engineering Vol_No 8 Issue_No 6 P_Page 381	Prudhvi Raj M.V., Panda S.	SCS	National
12	Experimental Analysis of Strength and Deformation Behavior of Soils Reinforced with Building-Derived Materials	Indian Geotechnical Journal	Muktinutalapati J., GuhaRay A., Kar A.	SCS GSC	National
13	Design of experiments for structural model updating of steel structure using dynamic testing	International Journal of Recent Technology and Engineering Vol_No 7 P_Page 604	Panda A., Ganesh G.V., Panigavi S.K., Ajay Mani Teja C.B., Ramkrishna U., Kalyana Rama J.S., Mohan S.C.	SCS	National
14	Dual targeting of folate receptor-expressing glioma tumor-associated macrophages and epithelial cells in the brain using a carbon nanosphere-cationic folate nanoconjugate	Nanoscale Advances Vol_No 1 Issue_No 9 P_Page 3567	Elechalawar C.K., Bhattacharya D., Ahmed M.T., Gora H., Sridharan K., Chaturbedy P., Sinha S.H., Chandra Sekhar Jaggarapu M.M., Narayan K.P., Chakravarty S., Eswaramoorthy M., Kundu T.K., Banerjee R.	SCS WOS GSC	International
15	Utilisation of E-waste, fly ash in manufacturing of paver blocks and tiles	International Journal of Innovative Technology and Exploring Engineering Vol_No 8 Issue_No 10 P_Page 2396	Ingole A.R., Sonole N.N., Thakur C.R.	SCS	National
16	Data Services with Bindaas: RESTful Interfaces for Diverse Data Sources	ARXIV	Pradeeban Kathiravelu., Yusuf Nadir Saghar., Tushar Aggarwal., Ashish Sharma	GSC	National
17	Shared Autonomy in Web-based Human Robot Interaction	arxiv.org P_Page 3	Yug Ajmera	GSC	International
18	Influence of Temperature on Kraft Pulping of Whole Bagasse and Depithed Bagasse	Sugar Tech	Madhuri Pydimalla., Bhuvan Rohith Muthyala., Ramesh Babu Adusumalli	SCS WOS GSC	International
19	The Impact of Margin Changes on Commodity Futures Markets: Evidence From India	SSRN Electronic Journal	Nagaraju Thota.,Neel Shah.	GSC	International
20	Metal-Enhanced Fluorescence Study in Aqueous Medium by Coupling Gold Nanoparticles and Fluorophores Using a Bilayer Vesicle Platform	ACS Omega Vol_No 4 Issue_No 3 P_Page 5990	Shweta Pawar., Anupam Bhattacharya., Amit Nag	SCS WOS GSC	International
21	Wormholes in exponential f(R, T) gravity	European Physical Journal C Vol_No 79 Issue_No 8 P_Page 677	PHRS Moraes., P.K. Sahoo	SCS WOS GSC	International
22	Experimental studies on incremental hole flanging of steel sheets	Advances in Materials and Processing Technologies P_Page 11	G. Praveen., Ram Tarun Reddy., Kurra Suresh	SCS GSC	International
23	Synthesis of 1,2,3-triazole incorporated monocarbonyl curcumin analogues aspotent antitubercular, antifungal and antioxidant agents	Chemistry & Biology Interface Vol_No 9 Issue_No 1 P_Page 70	Tejshri R. Deshmukh., Smita P. Khare., Vagolu S. Krishna., Dharmarajan Sriram., Jaiprakash N.Sangshetti., Bapurao B. Shingate	GSC	National
24	Novel 3D Printed Microfluidic Paper-Based Analytical Device With Integrated Screen-Printed Electrodes for Automated Viscosity Measurements	IEEE Transactions on Electron Devices Vol_No 66 Issue_No 7 P_Page 3201	Puneeth SB., Sanket Goel	SCS WOS IEEE GSC	International
25	Effects of free patchy ends in ssDNA and dsDNA on gold nanoparticles in a colorimetric gene sensor for Hepatitis C virus RNA	Microchimica Acta Vol_No 186 Issue_No 8 P_Page 566	Almas Shamaila Mohammed., Jayati Ray Dutta ., Mahammad Nanne Khaja., Ramakrishnan Ganesan., Ravikiran Nagarjuna	SCS WOS PUBMED GSC	International
26	Parametric modeling of microbial fuel cells	Journal of Electrochemical Science and Engineering Vol_No	Amandeep Singh., Balaji Krishnamurthy	GSC	International

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27	Automatic calibration of SWMM using NSGA-III and the effects of delineation scale on an urban catchment	Journal of Hydroinformatics	S Sai Veena., Murari Raja Raja Varma., V Swathi ., Komaragiri Srinivasa Raju	SCS WOS GSC	International
28	Stability of Gluonic Systems with Multiple Soft Interactions	arvxiv.org	Bhupendra Nath Tiwari., Rahul Nigam., Rahul Thakur	SCS WOS GSC	International
29	Larval survey and spatial epidemiological analysis of vector Aedes aegypti to study the risk of dengue outbreak in India	Geojournal P_Page 12	A Sajeli Begum ., Swati Alok ., Samrun Nessa	GSC	International
30	Heavy metal removal from industrial effluent using bio-sorbent blends	SN Applied Sciences Vol_No 1	N Saketharam Reddy., Inkollu Sreedhar	WOS GSC	International
31	Carbon capture using amine modified porous carbons derived from starch (Starbons®)	SN Applied Sciences Vol_No 1 Issue_No 5	Aniruddha R., Shivani Malik., Inkollu Sreedhar	WOS GSC	International
32	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 P_Page 18	M M Prakash Mohan., K Rajitha., Murari Raja Raja Varma	SCS WOS GSC	International
33	Large Scale Solid-state Synthesis of Catalytically Active Fe3O4@M (M = Au, Ag and Au-Ag alloy) Core-shell Nanostructures	Scientific Reports Vol_No 9 Issue_No 1	Srinivasa Rao Nalluri., Ravikiran Nagarjuna., Dinabandhu Patra., Ramakrishnan Ganesan., Gopalan Balaji	SCS WOS PUBMED GSC	International
34	A solution to coincidence problem in f(R) gravity	Arxiv.org	S Bhattacharjee., Pradyumn Kumar Sahoo	GSC	International
35	Comparison of Smallest Eigenvalues for Nabla Fractional Boundary Value Problems	Preprints.org	Jaganmohan Jonnalagadda	GSC	International
36	On a Nabla Fractional Boundary Value Problem with General Boundary Conditions	arXiv.org	Jaganmohan Jonnalagadda	SCS WOS GSC	International
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38	A Short Note on Hilfer Fractional Derivative and its Nabla Analogue	ARXIV.ORG P_Page 6	Jaganmohan Jonnalagadda	GSC	International
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41	Vulnerability of roof and building walls under a translating tornado like vortex	Frontiers in Built Environment	SABAREESH G RAJASEKHARAN., MATSUI MASAHIRO., YUKIO TAMURA	SCS GSC	International
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44	Relativistic Potentials with Rational Extensions	ARXIV.ORG P_Page 18	Haritha K., Kamarajagadda Venkata Sesha Shiv Chaitanya	GSC	International
45	Broadcasting of NPT entanglement in two qutrit systems	arxiv.org	Rounak Mundra., Sabuj Chattopadhyay., Indranil Chakrabarty., Nirman Ganguly	GSC	International
46	A Remark on the Memory Property of Nabla Fractional Difference Operator	ARXIV.ORG P_Page 8	Jaganmohan Jonnalagadda	GSC	International
47	Integrated condition monitoring scheme for bearing fault diagnosis of a wind turbine gearbox	Journal of Vibration and Control Vol_No 25 Issue_No 12 P_Page	Supradeepan K., Pavan Kumar Penumakala., Vamsi Inturi., Sabareesh	SCS WOS GSC	International

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48	Appraisal of Temporal Transferability of Cold Region Winter Weather Traffic Models for Major Highway Segments in Alberta Canada	Geosciences Vol_No 9 Issue_No 137 P_Page 20	Orlando Rodriguez., Furqan A Bhat., Prasanta Kumar Sahu ., Satish Sharma., Babak Mehran ., Hyuk-Jae Roh., Ata M Khan	SCS WOS GSC	International
49	Studies on Synthesis of Environmentâ€"Friendly Products for Paint and Coating Applications	Journal Indian Chemical Engineer P_Page 14	Appala Naidu Uttaravalli., Srikanta Dinda	SCS GSC	International
50	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 P_Page 2	Sandip Shridharrao Deshmukh., Khalid Anwar	SCS WOS GSC	International
51	Influence of plastic viscosity of mix on Self-Compacting Concrete with river and crushed sand	Computers and Concrete Vol_No 1 P_Page 47	K. Sai Kubair., Sri Kalyana Rama J., M.V.N. Sivakumar., Vasan Arunachalam	SCS WOS GSC	International
52	Prominence of Bio-Fuels as an Alternate Fuel in CI Engines	International Journal of Engineering and Advanced Technology Vol_No 8 Issue_No 2S2 P_Page 71	Sama Sanghamitra., Sandip Shridharrao Deshmukh	SCS	National
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55	Privacy preserving solution to prevent classification inference attacks in online social networks	International Journal of Data Science Vol_No 4 Issue_No 1 P_Page 44	Agrima Srivastava., G Geetha Kumari	GSC	International
56	Accelerating models with a hybrid scale factor in extended gravity	arXiv.org	Bivudutta Mishra., S K Tripathy., Sankarsan Tarai	GSC	International
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58	Integrated Vibro-Acoustic Analysis and Empirical Mode Decomposition for Fault Diagnosis of Gears in a Wind Turbine	Procedia structural integrity Vol_No 14 P_Page 944	Vamsi Inturi., Sabareesh Geetha Rajasekharan., Vaibhav Sharma	SCS GSC	International
59	Phantom cosmology in an Extended Theory of Gravity	arXiv P_Page 12	SK Tripathy., B. Mishra	GSC	International
60	Effect of Side Friction Parameter on Urban Road Traffic: Under Mixed Traffic Scenario	Journal of the Eastern Asia Society for Transportation Studies Vol_No 13 P_Page 330	Ritvik CHAUHAN.,Ashish DHAMANIYA.,Shriniwas ARKATKAR.,Prasanta Kumar Sahu.,Durgesh Vikram.		International
61	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 Vol_No 13 P_Page 131	Sohan Dudala.,Satish Kumar Dubey.,Sanket Goel.		International
62	Investigation of latest techniques in carbon sequestration with emphasis on geological sequestration and its effects	MOJ ecology and environmental sciences Vol_No 4 Issue_No 1 P_Page 12	Boindala Sriman Pankaj., Jagadeesh Anmala	GSC	International
63	Performance Analysis of IC Engine by the Application of Alternative Fuel	International Research Journal of Engineering and Technology Vol_No 6 Issue_No 10 P_Page 890	Sarthak Mukund Shukrey., Omkar Sanjay Kale	GSC	National
64	Multi Modal Semantic Segmentation using Synthetic Data	arXiv.org	Kartik Srivastava., Akash Kumar Singh., Guruprasad M Hegde	GSC	International

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65	Investigation of thermal behavior of the selected latent heat storage materials for the temperature range of 40-80 ℃ of solar heating applications	International Journal of Applied Engineering research and Development Vol_No 9 Issue_No 1 P_Page 34	R Sanjay Kumar., R SRILAKSHMI	GSC	National
66	A posteriori error analysis of two-step backward differentiation formula finite element approximation for parabolic interface problems	MAFELAP 2019 P_Page 9	Jhuma Sen Gupta., Rajen K Sinha., G. M. M. Reddy., Jinank Jain	GSC	International
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68	Uniqueness and Stability of Solutions for a Coupled System of Nabla Fractional Difference Boundary Value Problems	ARXIV.ORG P_Page 10	Jaganmohan Jonnalagadda	GSC	International
69	Biochemical Characterization of Native Pseudomonas fluorescens Strains followed by their Compatibility with Agrochemicals and Phyto-extracts under in vitro	International Journal of Pure and Applied BioScience Vol_No 6 Issue_No 6 P_Page 124	Ragavendra G., Ameer Basha S., A Sajeli Begum	GSC	National
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71	Quality of service (QoS) parameters prediction for web services using hybrid neural network and ensemble methods	International Journal of System Assurance Engineering and Management Vol_No 10 Issue_No 6 P_Page 1614	Lov Kumar., Ashish Sureka	SCS GSC	National
72	Wormhole model with a hybrid shape function in f(R, T) gravity	ARXIV.ORG P_Page 5	Sanjay Mandal., Parbati Sahoo., Pradyumn Kumar Sahoo	GSC	International
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75	Nonlinear optical response properties of a quantum dot embedded in a semiconductor microcavity : possible applications in quantum communication platforms	ARXIV.ORG P_Page 19	Vijay Bhatt., Sabur A Barbhuiya., Pradip K Jha., Aranya Bhuti Bhattacharjee	GSC	International
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77	PCA based health indicator for remaining useful life prediction of wind turbine gearbox	Vibroengineering PROCEDIA Vol_No 29 P_Page 36	Hemanth Mithun Praveen., Divya Shah., Krishna Dutt Pandey., Vamsi I., Sabareesh Geetha Rajasekharan	GSC	International
78	Thermodynamical aspects of relativistic hydrodynamics in f(R, G) gravity	ARXIV.ORG P_Page 12	V R Chirde., S H Shekh., Simran Arora., Pradyumn Kumar Sahoo	GSC	International
79	Study of Radiation Damage Characterization in Metals	International Research Journal of Engineering and Technology Vol_No 6 Issue_No 3 P_Page 1127	Omkar Salunke., Gauri Mahalle	GSC	National
80	Existence Results for Solutions of Nabla Fractional Boundary Value Problems with General Boundary Conditions	Advances in the Theory of Nonlinear Analysis and its Applications Vol_No 4 Issue_No 1 P_Page 42	Jaganmohan Jonnalagadda	GSC	International

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82	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_No 78 P_Page 75	Agnivesh Pani., Prasanta K Sahu	SCS WOS GSC	International
83	The large contraction principle and existence of periodic solutions for infinite2 delay Volterra difference equations	TURKISH JOURNAL OF MATHEMATICS Vol_No 43 Issue_No 4 P_Page 1999	Paul ELOE., Jagan Mohan JONNALAGADDA., Youssef RAFFOUL	SCS GSC	International
84	Amperometric Automation and Optimization Paper Microfluidic Viscometer	IEEE Sensors Letters Vol_No 3 Issue_No 3 P_Page 4	Puneeth S B., Sanket Goel	IEEE GSC	International
85	Positional Variation of Monopyridyl-N in Unsymmetrical Anthracenyl ΐ€-Conjugates: Difference between Solution- and Aggregate-State Emission Behavior	ACS Omega Vol_No 4 Issue_No 3 P_Page 5063	Moghal Zubair Khalid Baig., Banchhanidhi Prusti., Durba Roy., Manab Chakravarty	SCS WOS GSC	International
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87	Cellulose and Saccharomyces cerevisiae Embark To Recover Europium from Phosphor Powder	ACS Omega Vol_No 4 Issue_No 1 P_Page 952	Balasubramanian Arunraj., Talasila Sathvika., Vidya Rajesh., N Rajesh	SCS WOS GSC	International
88	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 Vol_No 3 Issue_No 2 P_Page 63	Debananda Basua., Jagan Mohan Jonnalagadda., Dipak Kumar Satpathi	GSC	International
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94	Dynamics of endogenous hormone regulation in plants by phytohormone secreting rhizobacteria under water-stress	Symbiosis	Ghosh D., Gupta A., Mohapatra S.	SCS WOS GSC	International
95	Axially magnetized Dark Energy cosmological model	General Physics P_Page 9	B Mishra., PP Ray., SK Tripathy., Kazuharu Bamba	SCS WOS GSC	International
96	Phantom energy-dominated universe as a transient stage in ??(??) cosmology	International Journal of Modern Physics D Vol_No 28 Issue_No 10 P_Page 7	P.H.R.S. Moraes., P.K. Sahoo., Barkha Taori., Parbati Sahoo	SCS WOS GSC	International
97	Time, Philosophy, and Literature	JOURNAL OF INDIAN COUNCIL OF PHILOSOPHICAL RESEARCH P_Page 14	AK Jayesh	SCS GSC	National
98	Input Size Independent Efficient Quality Meshing of the Interior of 2D Point Cloud Data	Journal of Computational Design and Engineering	Neha Singh., Tathagata Ray., Chandu Parimi., Srivastava Kuchibhotla	SCS WOS GSC	International

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102	Synthesis and evaluation of alpha-aminoacyl amides as antitubercular agents effective on drug resistant tuberculosis	EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY Vol_No 164 P_Page 677	Makane, Vitthal B.; Krishna, Vagolu Siva; Krishna, E. Vamshi; Shukla, Manjulika; Mahizhaveni, B.; Misra, Sunil; Chopra, Sidharth; Sriram, Dharmarajan; Dusthackeer, V. N. Azger; Rode, Haridas B.	SCS WOS PUBMED GSC	International
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105	Design, synthesis, biological evaluation and molecular docking study of arylcarboxamido piperidine and piperazine-based hydroxamates as potential HDAC8 inhibitors with promising anticancer activity	European Journal of Pharmaceutical Sciences Vol_No 138 P_Page 105046	Tarun Jha., Nilanjan Adhikari., Yamini Bobde., Prakruti Trivedi., Routholla Ganesh., Sk Abdul Amin., Balaram Ghosh	SCS WOS PUBMED GSC	International
106	Observational constraint on interacting Tsallis holographic dark energy in logarithmic Bransâ€"Dicke theory	European Physical Journal C Vol_No 79 P_Page 13	Y Aditya., D R K Reddy., Sanjay Mandal., Pradyumn Kumar Sahoo	SCS GSC	International
107	Arrested fungal biofilms as low-modulus structural bio-composites: Water holds the key	European Physical Journal E Vol_No 42 Issue_No 10	Aravinda Narayanan Raghavan., Asma Ahmed	SCS WOS PUBMED GSC	International
108	Novel drug delivery methods for the treatment of keratitis: moving away from surgical intervention	Expert Opinion on Drug Delivery	Garg P., Venuganti V.V.K., Roy A., Roy G.	SCS WOS PUBMED GSC	International
109	Phosphorylation of Arabidopsis eIF4E and eIFiso4E by SnRK1 inhibits translation	FEBS Journal	Bruns A.N., Li S., Mohannath G., Bisaro D.M.	SCS WOS PUBMED GSC	International
110	Nanoindentation of Hair Cortex and Medulla Regions	Fibers and Polymers Vol_No 20 Issue_No 7 P_Page 1545	Chandrakala Kunchi., Karthik Chethan Venkateshan., Ramesh Babu Adusumalli	SCS WOS GSC	International
111	Bank total factor productivity convergence: Evidence from india	Finance Research Letters	Thota N., Subrahmanyam A.C.V.	SCS GSC	International
112	Optimal Safe Layout of Fuel Storage Tanks Exposed to Pool Fire: One Dimensional Deterministic Modelling Approach	Fire Technology P_Page 29	Angan Sengupta	SCS WOS GSC	International

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114	Longitudinal 18F-FDG PET and MRI Reveal Evolving Imaging Pathology That Corresponds to Disease Progression in a Patient With ALS-FTD	Frontiers in Neurology Vol_No 10 P_Page 8	Venkateswaran Rajagopalan., Erik P Pioro	WOS GSC	International
115	Unbiased MRI analyses identify micropathologic differences between upper motor neuron-predominant ALS phenotypes	Frontiers in Neuroscience Vol_No 13	Rajagopalan V., Pioro E.P.	SCS WOS GSC	International
116	Two-center of the Convex Hull of a Point Set: Dynamic Model, and Restricted Streaming Model	Fundamenta Informaticae Vol_No 164 Issue_No 1 P_Page 138	Sadhu Sanjib., Roy Sasanka., Nandi Soumen., Maheshwari Anil., Nandy Subhas C	SCS WOS GSC	International
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118	Multiphysics analysis of the Passive Active Multijunction (PAM) launcher for LHCD system of ADITYA-Upgrade tokamak	Fusion Engineering and Design Vol_No 147	Jain Y.M., Sharma P.K., Dixit H.V.	SCS WOS GSC	International
119	Novel 1,3,4-oxadiazoles as antitubercular agents with limited activity against drug-resistant tuberculosis	FUTURE MEDICINAL CHEMISTRY	Vitthal B Makane., Vagolu Siva Krishna., Eruva Vamshi Krishna., Manjulika Shukla., Balakrishnan Mahizhaveni., Sunil Mishra., Dharmarajan Sriram., Sidharth chopra., Vijayan N Azger Dusthackeer., Haridas B Rode	SCS WOS PUBMED GSC	International
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121	Do Audit Fees Adjust Quickly?â€"Evidence from India	Global Business Review	Biswas S.	SCS GSC	International
122	Fault-tolerant network-on-chip design with flexible spare core placement	ACM Journal on Emerging Technologies in Computing Systems Vol_No 15 Issue_No 1	Bhanu P.V., Kulkarni P.V., Soumya J.	SCS WOS GSC	International
123	Durability of concrete with agro-waste: A local approach to sustainability	Green Materials Vol_No 7 Issue_No 2 P_Page 96	Chopperla S.T., Yamuna V., Bahurudeen A., Santhanam M., Gopinath A.	SCS WOS GSC	International
124	An Evolutionary GA-Based Approach for Community Detection in IoT	IEEE ACCESS Vol_No 7 P_Page 100534	Mishra, Sanket; Hota, Chinmay; Kumar, Lov; Nayak, Abhaya	WOS IEEE GSC	International
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127	Multichannel Filters for Wireless Networks: Lookup-Table-Based Efficient Implementation	IEEE Consumer Electronics Magazine Vol_No 8 Issue_No 3 P_Page 49	Sahoo S.K., Meher P.K., Ganesh Ganjikunta G.	SCS WOS IEEE GSC	International
128	A Provably Secure and Lightweight Anonymous User Authenticated Session Key Exchange Scheme for Internet of Things Deployment	IEEE Internet of Things Journal Vol_No 6 Issue_No 5 P_Page 8752	Banerjee S., Odelu V., Das A.K., Srinivas J., Kumar N., Chattopadhyay S., Choo K.-K.R.	SCS WOS IEEE GSC	International
129	Performance Analysis of Submerged Polycrystalline Photovoltaic Cell in Varying Water Conditions	IEEE Journal of Photovoltaics P_Page 8	Prasanth K Enaganti., Suresh Nambi., Hiten K Behera., Prabhat K Dwivedi., Souvik Kundu.,	IEEE GSC	International

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131	Localization of Myocardial Infarction from Multi-Lead ECG Signals using Multiscale Analysis and Convolutional Neural Network	IEEE Sensors Journal P_Page 1	Ram Bilas Pachori., Rajesh Kumar Tripathy., Abhijit Bhattacharyya	SCS WOS IEEE GSC	International
132	Low-cost, disposable, flexible and smartphone enabled pressure sensor for monitoring drug dosage in smart medicine applications	IEEE Sensors Journal P_Page 1	Parikshit Sahatiya., Priysh Barya., Nirmit Deshpande., Venkatarao Selamnani	WOS IEEE GSC	International
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135	Elimination of ocular artifacts from single channel EEG signals using FBSE-EWT based rhythms	IEEE Sensors Journal P_Page 10	Pranjali Gajbhiye., Rajesh Kumar Tripathy., Ram Bilas Pachori	IEEE GSC	International
136	A Novel Approach for Detection of Myocardial Infarction from ECG Signals of Multiple Electrodes	IEEE Sensors Journal P_Page 1	Rajesh Kumar Tripathy., Abhijit Bhattacharyya., Ram Bilas Pachori	SCS WOS IEEE GSC	International
137	Fully Integrated, Automated, and Smartphone Enabled Point-of-Source Portable Platform With Microfluidic Device for Nitrite Detection	IEEE Transactions on Biomedical Circuits and Systems Vol_No 13 Issue_No 6 P_Page 1524	Sohan Dudala.,Satish Kumar Dubey.,Sanket Goel.	PUBMED IEEE GSC	International
138	Realization of Microfluidic Paper-Based Analytical Devices Using a 3-D Printer: Characterization and Optimization	IEEE Transactions on Device and Materials Reliability Vol_No 19 Issue_No 3 P_Page 536	Puneeth S.B., Salve M., Akshatha R., Goel S.	SCS WOS IEEE GSC	International
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142	Fully assembled membraneless glucose biofuel cell with MWCNT modified pencil graphite leads as novel bioelectrodes	IEEE Transactions on Nanobioscience Vol_No 18 Issue_No 2 P_Page 175	Bandapati M., Krishnamurthy B., Goel S.	SCS WOS PUBMED IEEE GSC	International
143	Escherichia coli Fed Paper-Based Microfluidic Microbial Fuel Cell with MWCNT Composed Bucky Paper Bioelectrodes	IEEE Transactions on Nanobioscience Vol_No 18 Issue_No 3 P_Page 515	Nath D., Sai Kiran P., Rewatkar P., Krishnamurthy B., Sankar Ganesh P., Goel S.	SCS WOS PUBMED IEEE GSC	International
144	Surface Waves on Liquid Jet in Crossflow: Effect of Injector Geometry	AIAA Journal	Anubhav Sinha	WOS GSC	International
145	Steady-state analysis of buffer occupancy for different forwarding strategies in mobile opportunistic network	IEEE Transactions on Vehicular Technology Vol_No 68 Issue_No 7 P_Page 6963	Batabyal S., Bhaumik P., Chattopadhyay S., Misra S.	SCS WOS IEEE GSC	International
146	A Simple Design of Memristive Counters and their Applications in Automatic Irrigation System	IET Circuits, Devices and Systems P_Page 7	P Michael Preetam Raj., V Jeffry Louis., Aditya Viswakumar., Souvik Kundu	GSC	International

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147	Stochastic â„‹âˇž control of state-dependent jump linear systems with state-dependent noise	IET Control Theory and Applications Vol_No 13 Issue_No 9 P_Page 1297	Chitraganti S., Aberkane S.	SCS WOS GSC	International
148	Stochastic $\mathcal {H}_{\infty }$H infinity control of state-dependent jump linear systems with state-dependent noise	IET CONTROL THEORY AND APPLICATIONS Vol_No 13 Issue_No 9 P_Page 1297	Chitraganti, Shaikshavali; Aberkane, Samir	WOS GSC	International
149	Composite right/left-handed wideband metamaterial antenna loaded with SRRs and CSRRs to improve gain and efficiency	IET Microwaves, Antennas and Propagation Vol_No 13 Issue_No 9 P_Page 1474	Kumar S., Kumari R.	SCS WOS GSC	International
150	Bandwidth enhanced coplanar waveguide-fed composite right/left handed antenna loaded with resonating rings	IET Microwaves, Antennas and Propagation Vol_No 13 Issue_No 12 P_Page 2140	Sandeep Kumar., Runa Kumari	SCS WOS GSC	International
151	Alternative Approaches to Program Memristor and Reduce the Effect of Random Telegraphic Noise	IETE Journal of Research P_Page 9	P Michael Preetam Raj., Srinivasan M P., Souvik Kundu	SCS WOS GSC	National
152	Capacitive Coupled Frequency Independent Dielectric Resonator Antenna Array for X-Band Applications	IETE Journal of Research P_Page 8	Runa Kumari., Santanu Kumar Behera	SCS WOS GSC	National
153	Current trends with FOXP3 + regulatory T cell immunotherapy to contest autoimmunity and inflammation	Immunotherapy Vol_No 11 Issue_No 9 P_Page 758	Trinath J., Bayry J.	SCS WOS PUBMED GSC	International
154	Studies on synthesis of environment-friendly products for paint and coating applications	Indian Chemical Engineer	Uttaravalli A.N., Dinda S.	SCS GSC	International
155	Effect of precursor combination and elevated temperatures on the microstructure of alkali-activated binder	Indian Concrete Journal Vol_No 93 Issue_No 10 P_Page 43	Ramagiri K.K., Kar A.	SCS	National
156	Numerical investigations on compressive behavior of concrete at meso-scale	Indian Concrete Journal Vol_No 98 Issue_No 3 P_Page 25	Sukesh M.V., Sasmal S.	SCS	National
157	International perspectives on industrial concrete flooring and the way forward in India	Indian Concrete Journal Vol_No 93 Issue_No 6 P_Page 75	Prafulla P S., Jittin varghese., Bahurudeen A., Athira Gopinath., Senthilkumar Rajendran	SCS	National
158	Development and Characterization of a Phospholipid Complex for Effective Delivery of Capsaicin	Indian Journal of Pharmaceutical Sciences Vol_No 81 Issue_No 6 P_Page 1011	R MONDAL., Y BOBDE., Balaram Ghosh., T K Giri	GSC	National
159	Quadratic equation of state solutions with Î› in f(R, T) gravitation theory	Indian Journal of Physics Vol_No 93 Issue_No 3 P_Page 414	Aygün S., AktaÅŸ C., Mishra B.	SCS WOS GSC	National
160	Ferroelectric Memristive Networks for Dimensionality Reduction: A Process for Effectively Classifying Cancer Datasets	Integrated Ferroelectrics Vol_No 201 Issue_No 1 P_Page 141	Sayan Kanungo., Souvik Kundu., P Michael Preetam Raj., V Jeffry Louis., Sumit Kumar Chatterjee	SCS GSC	International
161	l-Proline-based-cyclic dipeptides from Pseudomonas sp. (ABS-36) inhibit pro-inflammatory cytokines and alleviate crystal-induced renal injury in mice	International Immunopharmacology Vol_No 73 P_Page 404	A Sajeli Begum ., Onkar P Kulkarni., Pragya Paramita Pal., Hiroshi Araya., Yoshinori Fujimoto., Kirti Hira., Ameer Basha Shaik	SCS WOS PUBMED GSC	International
162	Failure analysis of AA8011-pultruded GFRP adhesively bonded similar and dissimilar joints	International Journal of Adhesion and Adhesives Vol_No 90 P_Page 105	Nithin Simha Reddy., Ujwal Kishore Jinaga., Bharat Reddy Charuku., Pavan Kumar Penumakala., AVS SivaPrasad	SCS GSC	International
163	Material characterization, constitutive modelling, and processing map for superplastic deformation region in Ti-6Al-4V alloy	International Journal of Advanced Manufacturing Technology	Wahed M.A., Gupta A.K., Sharma V., Mahesh K., Singh S.K., Kotkunde N.	SCS WOS GSC	International

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164	Space-Time Coupled Least-Squares Spectral Element Methods for Parabolic Problems*	International Journal of Computational Methods in Engineering Science and Mechanics	Biswas P., Dutt P., Ghorai S., Kiskore Kumar N.	SCS GSC	International
165	Effect of damage modelling in numerical simulation of crash energy absorption behaviour of crush tubes and validation with experiments	International Journal of Crashworthiness	Reddy T.J., Narayanamurthy V., Rao Y.V.D.	SCS WOS GSC	International
166	Asymptotic stability for 2×2 fractional nabla difference systems	International Journal of Dynamics and Control P_Page 4	Jonnalagadda J.M.	SCS GSC	International
167	Study on thermal storage properties of microencapsulated organic ester as phase change material for cooling application	International Journal of Environmental Analytical Chemistry	Ovase Moinuddin., G V N Trivedi., R Parameshwaran., Sandip Shridharrao Deshmukh	SCS WOS GSC	International
168	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	Khan I., Ganesan R., Dutta J.R.	SCS WOS GSC	International
169	Interaction of gap flow with flapping dynamics of two side-by-side elastic foils	International Journal of Heat and Fluid Flow Vol_No 75 P_Page 255	Gurugubelli P.S., Jaiman R.K.	SCS WOS GSC	International
170	Suggested model for heat transfer calculation during fluid flow in Single Phase Inside Pipes (II)	International Journal of Heat and Technology Vol_No 37 Issue_No 1 P_Page 266	Camaraza-Medina Y., Mortensen-Carlson K., Guha P., Rubio-Gonzales Á.M., Cruz-Fonticiella O.M., García-Morales O.F.	SCS WOS GSC	International
171	Miniaturized additively manufactured co-laminar microfluidic glucose biofuel cell with optimized grade pencil bioelectrodes	International Journal of Hydrogen Energy Vol_No 44 Issue_No 59 P_Page 31444	Rewatkar P., Bandapati M., Goel S.	SCS WOS GSC	International
172	Warm deep drawing behavior of Inconel 625 alloy using constitutive modelling and anisotropic yield criteria	International Journal of Material Forming	Ayush Morchhale., Prathamesh Takalkar., Anand Badrish., Swadesh Kumar Singh., Nitin Rameshrao Kotkunde	SCS GSC	International
173	Evolution of a new geometric profile for an ideal tube inversion for crash energy absorption	International Journal of Mechanical Sciences Vol_No 155 P_Page 142	Reddy T.J., Narayanamurthy V., Rao Y.V.D.	SCS WOS GSC	International
174	Enhancement in specific energy absorption of invertubes	International Journal of Mechanical Sciences Vol_No 159 P_Page 440	Reddy T.J., Narayanamurthy V., Rao Y.V.D.	SCS WOS GSC	International
175	Compact bandpass filter with wide-stopband using substrate integrated waveguide cavities and short-circuited coplanar line	International Journal of Microwave and Wireless Technologies P_Page 7	Amit Ranjan Azad., Akhilesh Mohan	GSC	International
176	Dynamics of anisotropic dark energy universe embedded in one-directional magnetized fluid	International Journal of Modern Physics D Vol_No 28 Issue_No 7	Ray P.P., Mishra B., Tripathy S.K.	SCS WOS GSC	International
177	Phantom energy-dominated universe as a transient stage in f (R) cosmology	International Journal of Modern Physics D Vol_No 28 Issue_No 10	Moraes P.H.R.S., Sahoo P.K., Taori B., Sahoo P.	SCS WOS GSC	International
178	Numerical Analysis of Flow Past an Oscillating Circular Cylinder Using Arbitrary Lagrangian Eulerian Consistent Flux Reconstruction Scheme	International Journal of Numerical Analysis and Modeling P_Page 24	Kartik Bali., Supradeepan K	GSC	International
179	Optimal proportioning of grout constituents using mathematical programming for semi flexible pavement	International Journal of Pavement Research and Technology Vol_No 12 Issue_No 3 P_Page 306	Ranjeesh Radhakrishnan., Ankit Gupta., Nikhil Saboo., Vidisha Khalpada., Prasanta Kumar Sahu	SCS GSC	International
180	Simulation of field aging of bituminous concrete with and without warm mix additive using modified oven	International Journal of Pavement Research and Technology P_Page 8	Babu Sarath Kambham., Vijayapuri Raja Rao Vinayaka Ram., Sridhar Raju	SCS GSC	International
181	Optimal Proportioning of Grout Constituents using Mathematical Programming for Semi Flexible Pavement	International Journal of Pavement Research & Technology Vol_No 12 Issue_No 3 P_Page 306	Nikhil Saboo., Ankit Gupta., Vidisha Khalpada., Prasanta Kumar Sahu ., Ranjeesh Radhakrishnan	SCS GSC	International

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182	Amphotericin B containing microneedle ocular patch for effective treatment of fungal keratitis	International Journal of Pharmaceutics	Lakshmi Sruthi Mallela., Sanhita Roy., Prashant Garg., Girdhari Roy., Rohini Dev Galigama., Veda Suresh Thorat., Venkata Vamsi Krishna Venuganti	SCS WOS PUBMED GSC	International
183	Dissolvable microneedle patch containing doxorubicin and docetaxel is effective in 4T1 xenografted breast cancer mouse model	International Journal of Pharmaceutics Vol_No 556 P_Page 275	Bhatnagar S., Bankar N.G., Kulkarni M.V., Venuganti V.V.K.	SCS WOS PUBMED GSC	International
184	Biotin functionalized PEGylated poly(amidoamine) dendrimer conjugate for active targeting of paclitaxel in cancer	International Journal of Pharmaceutics Vol_No 557 P_Page 341	Rompicharla S.V.K., Kumari P., Bhatt H., Ghosh B., Biswas S.	SCS WOS PUBMED GSC	International
185	Automated Fault Detection of Wind Turbine Gearbox using Data- Driven Approach	International Journal of Prognostics and Health Management Vol_No 10 Issue_No 1 P_Page 12	Tejas., Hemanth Mithun Praveen., Sabareesh Geetha Rajasekharan		International
186	Hybrid-CSP in India: Technological and Economic Aspects	International Journal of Renewable Energy Research Vol_No 9 Issue_No 1 P_Page 10	Sandip Shridharrao Deshmukh., Onkareshwar Mishra., Khalid Anwar., Vatsal Agrawal	SCS GSC	International
187	Dualâ€ polarized high gain resonant cavity antenna for radio frequency energy harvesting	International Journal of RF and Microwave Computer-Aided Engineering	Sarath Sankar Vinnakota., Runa Kumari., Basudev Majumder	SCS WOS GSC	International
188	Bandwidth and gainâ€ enhanced composite right/leftâ€ handed antenna for ultraâ€ wideband applications	International Journal of RF and Microwave Computer-Aided Engineering	Sandeep Kumar., Runa Kumari	SCS WOS GSC	International
189	Estimation of maintainability parameters for object-oriented software using hybrid neural network and class level metrics	International Journal of Systems Assurance Engineering and Management P_Page 31	Lalita Bhanu Murthy Neti., Lov Kumar., Sangeeta Lal	SCS GSC	National
190	Does social responsibility improve firm value? Evidence from mandatory corporate social responsibility regulations in India	INTERNATIONAL REVIEW OF FINANCE	Jadiyappa, Nemiraja; Iyer, Subramanian R.; Jyothi, Pavana	WOS GSC	International
191	Influence of carbon source complexity on porosity, water retention and extracellular matrix composition of Neurospora discreta biofilms	Journal of Applied Microbiology	A Ahmed., Aravinda Narayanan Raghavan., A R Veni	SCS WOS PUBMED GSC	International
192	Influence of PP content on mechanical properties, water absorption, and morphology in PA6/PP blend	Journal of Applied Polymer Science	Aparna Sridhar., Purnima Doddipatla	SCS WOS GSC	International
193	Designing potential HDAC3 inhibitors to improve memory and learning	Journal of Biomolecular Structure and Dynamics P_Page 25	Sa Amin., N Adhikari., T Jha., B Ghosh	SCS WOS PUBMED GSC	International
194	Annotation of cysteine functions in unknown proteins-a new approach based on protein microenvironments	JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS Vol_No 37 P_Page 65	Bandyopadhyay, Debashree; Bhatnagar, Akshay; Paliwal, Shubham	WOS GSC	International
195	Inhibition of protein kinase R protects against palmitic acidâ€"induced inflammation, oxidative stress, and apoptosis through the JNK/NF-kB/NLRP3 pathway in cultured H9C2 cardiomyocytes	Journal of Cellular Biochemistry	Mangali S., Bhat A., Udumula M.P., Dhar I., Sriram D., Dhar A.	SCS WOS PUBMED GSC	International
196	Future demands for high field MRI diagnostic	Journal of Chemical Sciences Vol_No 131 Issue_No 9	Anurag Gautam., Pragya Komal., Ram Sevak Singh	SCS WOS GSC	National
197	Microneedle-based drug delivery: materials of construction	Journal of Chemical Sciences Vol_No 131 Issue_No 9	Shubhmita Bhatnagar., Pradeeptha Reddy Gadeela., Pranathi Thathireddy., Venkata Vamsi Krishna Venuganti	SCS WOS GSC	National

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198	Programming of Memristive Artificial Synaptic Crossbar Network Using PWM Techniques	Journal of Circuits, Systems and Computers	Raj P.M.P., Subramaniam A., Priya S., Banerjee S., Kundu S.	SCS WOS GSC	International
199	Sustainable alternatives to carbon intensive paddy field burning in India: A framework for cleaner production in agriculture, energy, and construction industries	Journal of Cleaner Production Vol_No 236 Issue_No 1	G Athira., Bahurudeen A., Srinivas Appari	SCS WOS GSC	International
200	Discovery and evaluation of novel Mycobacterium tuberculosis ketol-acid reductoisomerase inhibitors as therapeutic drug leads	Journal of Computer-Aided Molecular Design Vol_No 33 Issue_No 3 P_Page 366	Vagolu Siva Krishna., Shan Zheng., Estharla Madhu Rekha., Luke W Guddat., Dharmarajan Sriram	SCS WOS PUBMED GSC	International
201	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 & Engineering	A Santhana Krishna Kumar., Jyun Guo You., Wei-Bin Tseng., GD Dwivedi., N Rajesh., Shiuh-Jen Jiang., Wei-Lung Tseng	SCS WOS GSC	International
202	Internet and prevalence of relative thinking	Journal of Consumer Marketing	Thota S.C., Kinra R.	SCS GSC	International
203	A hydrogen evolution reaction induced unprecedentedly rapid electrocatalytic reduction of 4-nitrophenol over ZIF-67 compare to ZIF-8	Journal of Electroanalytical Chemistry	Soumitra Payra., Swapna Challagulla., Chanchal Chakraborty., Sounak Roy	SCS WOS GSC	International
204	Recent Advances in Material and Performance Aspects of Solid Oxide Fuel Cells	Journal of Electroanalytical Chemistry Vol_No 848	Amarthaluri Satyapaul Singh., Inkollu Sreedhar., Bhawana Agarwal., Priyanka Goyal	SCS WOS GSC	International
205	Modeling the gas concentration in the anode of a Direct carbon fuel cell	Journal of Electroanalytical Chemistry Vol_No 834 P_Page 172	Mohammed R.K., Krishnamurthy B.	SCS WOS GSC	International
206	Microfluidic paper based membraneless biofuel cell to harvest energy from various beverages	Journal of Electrochemical Science and Technology P_Page 6	Prakash Rewatkar., Sanket Goel	GSC	International
207	Direct solid-state synthesis of maghemite as a magnetically recoverable adsorbent for the abatement of methylene blue	Journal of Environmental Chemical Engineering P_Page 103384	Ramakrishnan Ganesan., Balaji Gopalan., Dinabandhu Patra	SCS GSC	International
208	Glioma grade classification using wavelet transform-local binary pattern based statistical texture features and geometric measures extracted from MRI	Journal of Experimental and Theoretical Artificial Intelligence	Gupta M., Rajagopalan V., Rao B.V.V.S.N.P.	SCS WOS GSC	International
209	Butterfly-Fat-Tree topology based fault-tolerant Network-on-Chip design using particle swarm optimisation	Journal of Experimental and Theoretical Artificial Intelligence	Bhanu P.V., Kulkarni P.V., Soumya J.	SCS WOS GSC	International
210	Large amplitude flapping of an inverted elastic foil in uniform flow with spanwise periodicity	Journal of Fluids and Structures Vol_No 90 P_Page 163	Gurugubelli P.S., Jaiman R.K.	SCS WOS GSC	International
211	Selective Sensing of Iron by Pyrrolo[2,3-c]Quinolines	Journal of Fluorescence	Kumar T.U., Pawar S., Nag A., Bhattacharya A.	SCS WOS PUBMED GSC	International
212	Probing the photo- and electro-catalytic degradation mechanism of methylene blue dye over ZIF-derived ZnO	Journal of Hazardous Materials P_Page 388	Payra S., Challagulla S., Bobde Y., Chakraborty C., Ghosh B., Roy S.	SCS WOS PUBMED GSC	International
213	Design and Synthesis of New Aryloxy-linked Dimeric 1,2,3-Triazoles via Click Chemistry Approach: Biological Evaluation and Molecular Docking Study	Journal of Heterocyclic Chemistry Vol_No 56 Issue_No 8 P_Page 2162	Deshmukh T.R., Khare S.P., Krishna V.S., Sriram D., Sangshetti J.N., Bhusnure O., Khedkar V.M., Shingate B.B.	SCS WOS GSC	International
214	Application of Polyphosphoric Acidâ€• Mediated Acyl Migration for Regiospecific Synthesis of Diverse 2â€• Acylpyrroles from Chalcones	Journal of heterocyclic chemistry	Togiti Uday Kumar., Yadagiri Thigulla., Krishnan Rangan., Anupam Bhattacharya	SCS WOS GSC	International
215	Design, Synthesis, and Biological Evaluation of 2-(4-Aminophenyl)benzothiazole	Journal of Heterocyclic Chemistry	Narva S., Chitti S., Amaroju S., Goud S., Alvala M., Bhattacharjee	SCS WOS GSC	International

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216	Phenotypic association of 15q11.2 CNVs of the region of breakpoints 1ââ‚¬â€œ2 (BP1ââ‚¬â€œBP2) in a large cohort of samples referred for genetic diagnosis	Journal of Human Genetics	Mohan K.N., Cao Y., Pham J., Cheung S.W., Hoffner L., Ou Z.Z., Surti U., Cook E.H., Beaudet A.L.	SCS WOS PUBMED GSC	International
217	Profile-guided code identification and hardening using return oriented programming	Journal of Information Security and Applications Vol_No 48	Shrivastava R.K., Hota C.	SCS WOS GSC	International
218	Temperature-sensitive liposomes for co-delivery of tamoxifen and imatinib for synergistic breast cancer treatment	Journal of Liposome Research	Jose A., Ninave K.M., Karnam S., Venuganti V.V.K.	SCS WOS PUBMED GSC	International
219	Di-styrylanthracenes as established AIEgens: Can Di-anthracylethenes be AIE-active?	Journal of Luminescence Vol_No 209 P_Page 196	Moghal ZubairKhalid Baig., Banchhanidhi Prusti., Sandeep Kondipati., Manab Chakravarty	SCS WOS GSC	International
220	Atomic layer deposited photocatalysts: comprehensive review on viable fabrication routes and reactor design approaches for photo-mediated redox reactions	Journal of Materials Chemistry A	Amarthaluri Satyapaul Singh., Jaeyeong Heo., N K R Eswar	SCS WOS GSC	International
221	Monopyridyl-linked unsymmetrical anthracenyl Ï€-conjugate as a platform for acid-pen and base-eraser	Journal of Materials Chemistry C Vol_No 7 Issue_No 13 P_Page 3739	Khalid Baig M.Z., Prusti B., Chakravarty M.	SCS WOS GSC	International
222	Monopyridyl-linked unsymmetrical anthracenyl Ï€-conjugate as a platform for acid-pen and base-eraser	Journal of Materials Chemistry C	Moghal Zubair Khalid Baig., Banchhanidhi Prusti., Manab Chakravarty	SCS WOS GSC	International
223	Nanostructured metallo-supramolecular polymer-based gel-type electrochromic devices with ultrafast switching time and high colouration efficiency	Journal of Materials Chemistry C Vol_No 7 Issue_No 10 P_Page 2879	Susmita Roy., Chanchal Chakraborty	SCS WOS GSC	International
224	Constitutive Modeling of High-Temperature Flow Stress of Armor Steel in Ballistic Applications: A Comparative Study	Journal of Materials Engineering and Performance P_Page 9	Ambuj Saxena., A Kumaraswamy., Nitin Rameshrao Kotkunde., Kurra Suresh	SCS WOS GSC	International
225	Microstructure Characteristics and Comparative Analysis of Constitutive Models for Flow Stress Prediction of Inconel 718 Alloy	Journal of Materials Engineering and Performance P_Page 2	Amit Kumar Gupta ., Y C Lin., Gauri Mahalle., Nitin Rameshrao Kotkunde ., Swadesh Kumar Singh., Sujith R	SCS WOS IEEE GSC	International
226	Analysis of Hot Anisotropic Tensile Flow Stress and Strain Hardening Behavior for Inconel 625 Alloy	Journal of Materials Engineering and Performance P_Page 17	C Anand Badrish., Nitin Rameshrao Kotkunde., Gauri Mahalle., Swadesh Kumar Singh ., K Mahesh	SCS GSC	International
227	Flow Stress Behavior, Constitutive Modeling, and Microstructural Characteristics of DP 590 Steel at Elevated Temperatures	Journal of Materials Engineering and Performance Vol_No 28 P_Page 7581	Sandeep Pandre., Nitin Rameshrao Kotkunde., Prathamesh Takalkar., Ayush Morchhale., Ravindran Sujith., Swadesh Kumar Singh	SCS WOS GSC	International
228	Studies on texture and formability of Zircaloy-4 produced by pilgering route	Journal of Materials Research and Technology Vol_No 8 Issue_No 2 P_Page 2129	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.	SCS WOS GSC	International
229	Neural network modeling for anisotropic mechanical properties and work hardening behavior of Inconel 718 alloy at elevated temperatures	Journal of Materials Research and Technology Vol_No 8 Issue_No 2 P_Page 2140	Mahalle G., Salunke O., Kotkunde N., Gupta A.K., Singh S.K.	SCS WOS GSC	International
230	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 Vol_No 13 Issue_No 2 P_Page 4927	Mohanty S., Regalla S.P., Rao Y.V.D.	SCS GSC	International
231	Electroviscous Effect of Power Law Fluids in a Slit Microchannel with Asymmetric Wall Zeta Potentials	Journal of Mechanics	A. Sailaja., B. Srinivas., I. Sreedhar	SCS WOS GSC	International

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232	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_No 29 Issue_No 8	Bharathwaj Suresh., Pavan Kumar Reddy Boppidi., B V V S N Prabhakar Rao., Souri Banerjee., Souvik Kundu	SCS WOS GSC	International
233	Negative effective mass, optical multistability and Fano line-shape control via mode tunnelling in double cavity optomechanical system	JOURNAL OF MODERN OPTICS	Prakash, Vaibhav N.; Bhattacherjee, Aranya B.	SCS WOS GSC	International
234	Controllable non-linear effects in a hybrid optomechanical semiconductor microcavity containing a quantum dot and a Kerr medium	Journal of Modern Optics P_Page 13	Sonam Mahajan., Aranya Bhuti Bhattacharjee	SCS WOS GSC	International
235	Understanding the role of catalytic active sites for heterogeneous photocatalytic oxidation of methanol and thermal reduction of NOx	Molecular Catalysis Vol_No 476 P_Page 110505	Chanchal Chakraborty., Sounak Roy., Soumitra Payra., Amarthaluri Satyapaul Singh., Swapna Challagulla	SCS WOS GSC	International
236	Unravel the surface active sites on Cu/MgLaO solid base catalyst by DRIFT spectroscopy and adsorption techniques for the synthesis of triazoles by click reactionâ€¢	Molecular Catalysis Vol_No 476	Vijay Kumar Velisoju., Naresh Gutta., Venugopal Akula., Venu Boosa., Inkollu Sreedhar., Vishali Bilakanti	SCS WOS GSC	International
237	Role of CO2 methanation into the kinetics of preferential CO oxidation on Cu/Co3O4	Molecular Catalysis Vol_No 466 P_Page 180	Satyapaul A Singh., Suhas Mukherjee., Giridhar Madras	SCS WOS GSC	International
238	Effect of gemini surfactants on binding interactions of Coumarin 485 with calf thymus deoxyribonucleic acid in presence of nanotubes of Î²-cyclodextrin	Journal of Molecular Liquids P_Page 111615	Rishika Aggrawal., Ganapathi Subramania Sundar., Sayantan Halder., Sunita Kumari., Subit Kumar Saha	SCS GSC	International
239	Refolding of protein unfolded by gemini surfactants using Î²-cyclodextrin and sodium dodecyl sulfate in aqueous medium: Study on role of spacer chain of surfactants	Journal of Molecular Liquids Vol_No 300	Vinod Kumar Aswal., Sunita Kumari., Sayantan Halder., Rishika Aggrawal., Ganapathi Subramania Sundar., Subit Kumar Saha	SCS GSC	International
240	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_No 1199	Aveli Rambabu., Sreenu Daravath., Kadtala Venkateswarlu., Nirmala Ganji., Shivaraj., Rangan Krishnan	SCS WOS GSC	International
241	Synthesis of Montmorillonite Clay/Poly(vinyl alcohol) Nanocomposites and Their Mechanical Properties	Journal of Nanoscience and Nanotechnology Vol_No 19 Issue_No 12 P_Page 8077	Gautam A., Komal Pragya	WOS GSC	International
242	Usnic Acid Enaminone-Coupled 1,2,3-Triazoles as Antibacterial and Antitubercular Agents	Journal of Natural Products	Bangalore P.K., Vagolu S.K., Bollikanda R.K., Veeragoni D.K., Choudante P.C., Misra S., Sriram D., Sridhar B., Kantevari S.	SCS PUBMED GSC	International
243	Enaminone-Coupled 1,2,3-Triazoles as Antibacterial and Antitubercular Agents	Journal of Natural Products	Pavan K Bangalore., Siva K Vagolu., Rakesh K Bollikanda., Dileep K Veeragoni., Pallavi C Choudante., Sunil Misra., Dharmarajan Sriram., Balasubramanian Sridhar., Srinivas Kantevari	GSC	International
244	VPA treatment in neurosphere culture: an approach towards in vitro modelling of autism	JOURNAL OF NEUROCHEMISTRY Vol_No 150 P_Page 106	Dwivedi, S.; Perumal, Y.	WOS GSC	International
245	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	Vidhyadharan S., Yadav R., Simhadri H., Dan S.S.	SCS WOS GSC	International
246	An advanced adiabatic logic using Gate Overlap Tunnel FET (GOTFET) devices for ultra-low power VLSI	Analog Integrated Circuits and Signal Processing P_Page 13	Sanjay Vidhyadharan., Ramakant., Simhadri Hariprasad ., Surya	SCS WOS GSC	International

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248	DNA-binding, cytotoxicity and apoptosis induction of Pt/Fe-based heterometallo-supramolecular polymer for anticancer drug application	JOURNAL OF ORGANOMETALLIC CHEMISTRY Vol_No 891 P_Page 34	Rana, Utpal; Chakraborty, Chanchal; Kanao, Miki; Morita, Hiromi; Minowa, Takashi; Higuchi, Masayoshi	SCS WOS GSC	International
249	Larval zebrafish model for studying the effects of valproic acid on neurodevelopment: An approach towards modeling autism	Journal of Pharmacological and Toxicological Methods Vol_No 95 P_Page 65	Dwivedi S., Medishetti R., Rani R., Sevilimedu A., Kulkarni P., Yogeeswari P.	SCS WOS PUBMED GSC	International
250	Principal Component Analysis of a Conotoxin Delineates the Link among Peptide Sequence, Dynamics, and Disulfide Bond Isoforms	Journal of Physical Chemistry B P_Page K	Karuna Anna Sajeevan., Durba Roy	SCS WOS PUBMED GSC	International
251	Properties of massive rotating protoneutron stars with hyperons: Structure and universality	Journal of Physics G: Nuclear and Particle Physics Vol_No 46 Issue_No 10	Lenka S.S., Char P., Banik S.	SCS WOS GSC	International
252	Investigation of Subsonic and Hypersonic Rarefied Gas Flow over a Backward Facing Step	Journal of Physics: Conference Series Vol_No 1276 Issue_No 1	Nabapure D., Sanwal J., Rajesh S., Ram Chandra Murthy K.	SCS GSC	International
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254	Study of Interference Effects on Chimneys	Journal of Physics: Conference Series Vol_No 1276 Issue_No 1	Shruti K., Rajesh S., Sabareesh G.R., Rao P.N.	SCS GSC	International
255	A review of Space-time conservation element solution element (CESE) schemes	Journal of Physics: Conference Series Vol_No 1276 Issue_No 1	R G Parthasaradhi., Supradeepan K., Kush Dwivedi	SCS GSC	International
256	Performance Investigation of T-Shaped Micromixer with Different Obstacles	Journal of Physics: Conference Series Vol_No 1276 Issue_No 1	Arshad Javed., Lanka Tata Rao., Sanket Goel., Satish Kumar Dubey	SCS GSC	International
257	Numerical Modelling of Flow Boiling in Expanding Microchannel with Non-Uniform Heat Flux	Journal of Physics: Conference Series Vol_No 1276 Issue_No 1	Uday Kumar Alugoju., Arshad Javed., Rutuja Manmode., Satish Kumar Dubey	SCS GSC	International
258	A laminar fluid flow model for study of ventilation systems in micro-electromechanical systems (MEMS) clean room	Journal of Physics: Conference Series Vol_No 1276 Issue_No 1 P_Page 15	Srinivasa Rao Vutla., Kannan Ramaswamy., Srinivasa Prakash Regalla	SCS GSC	International
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260	An Improved Logarithmic Multiplier for Media Processing	Journal of Signal Processing Systems P_Page 14	Ahmed S.E., Srinivas M.B.	SCS WOS GSC	International
261	A review of magnetic-assisted machining processes	Journal of the Brazilian Society of Mechanical Sciences and Engineering Vol_No 41 Issue_No 450	Sachin R Peruri., Phaneendra Kiran Changanti	SCS WOS GSC	International
262	Algorithms for detection of degenerate structure in epicyclic gear trains using graph theory	Journal of the Brazilian Society of Mechanical Sciences and Engineering Vol_No 41 Issue_No 11	V R Shanmukhasundaram., Y V D Rao., Srinivasa Prakash Regalla	SCS WOS GSC	International
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266	Molecular dynamics studies on COX-2 protein-tyrosine analogue complex and ligand-based computational analysis of halo-substituted tyrosine analogues	Letters in Drug Design and Discovery Vol_No 16 Issue_No 11 P_Page 1232	Puratchikody A., Umamaheswari A., Irfan N., Sriram D.	SCS WOS GSC	International
267	Laser induced flexible graphene electrodes for electrochemical sensing of hydrazine	Materials Letters	Sarda Sharma., Sankalp Koduvayur Ganeshan., Prasant Kumar Pattnaik., Sayan Kanungo., Karumbaiah Chappanda Nanaiah	SCS GSC	International
268	Effect of shielding gas composition and activating flux on the weld bead morphology of the P91 ferritic/martensitic steel	Materials Research Express Vol_No 6 Issue_No 8	Vidyarthy R.S., Dwivedi D.K.	SCS WOS GSC	International
269	Experimental investigation of multilayered graphene systems for hydrogen storage	Materials Research Express	Pawan Kumar Chauhan., Sujith R., R Parameshwaran., Venkataraman Vidhukiran	SCS WOS GSC	International
270	Characterization of mechanical and microstructural properties of constrained groove pressed nitinol shape memory alloy for biomedical applications	Materials Science and Engineering C Vol_No 102 P_Page 742	Bhardwaj A., Gupta A.K., Padisala S.K., Poluri K.	SCS WOS PUBMED GSC	International
271	Development, characterization, and evaluation of novel eco-friendly metal working fluid	Measurement Vol_No 137 P_Page 416	Madan Mohan Reddy Nune., Phaneendra Kiran Chaganti	SCS WOS GSC	International
272	Comparison of condition monitoring techniques in assessing fault severity for a wind turbine gearbox under non-stationary loading	Mechanical Systems and Signal Processing Vol_No 124 P_Page 20	InturiVamsi., GR Sabareesh., PK Penumakala	SCS WOS GSC	International
273	Enumeration of displacement graphs of epicyclic gear train from a given rotation graph using concept of building of kinematic units	Mechanism and Machine Theory Vol_No 134 P_Page 424	Shanmukhasundaram V.R., Rao Y.V.D., Regalla S.P.	SCS WOS GSC	International
274	Analysis of 15q11.2 CNVs in an Indian population with schizophrenia	Annals of human genetics	Sonal Saxena., Poornima Kkani., Chellamuthu Ramasubramanian., Srinivasan Ganesh Kumar., Raghav Monisha., Gundugurti Prasad Rao., Kommu Naga Mohan	SCS WOS PUBMED GSC	International
275	Effect of Processing Routes on Orientation-Dependent Tensile Flow Behavior of Zircaloy-4 at Elevated Temperatures	Metallography, Microstructure, and Analysis	Limbadri K., Singh S.K., Satyanarayana K., Singh A.K., Maruthi Ram A., Ravindran M., Krishna M., Chaitanya Reddy M., Suresh K.	SCS WOS GSC	International
276	Feasibility Study of Continuous Casting of Steel Billets in Twin-Belt Caster	Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science	Penumakala P.K., Nallathambi A.K., Specht E., Urlau U., Hamilton D., Dykes C.	SCS WOS GSC	International
277	Model-based approach to validate the aluminium nitride material based ultrasonic MEMS transceiver for temperature sensing	Micro and Nano Letters Vol_No 14 Issue_No 3 P_Page 285	Tripathy H.P., Pattanaik P., Mishra D.K., Kamilla S.K., Tripathy R.K.	SCS WOS GSC	International
278	De Sitter and bounce solutions from anisotropy in extended gravity cosmology	Modern Physics Letters A	P. H. R. S. Moraes., G Ribeiro., Bivudutta Mishra	SCS WOS GSC	International
279	Bulk viscous Bianchi-I embedded cosmological model in f(R,T) = f1(R) + f2(R) f3(T) gravity	Modern Physics Letters A Vol_No 34 Issue_No 19	Anil Kumar Yadav., P. K. Sahoo., Vinod Bhardwaj	SCS WOS GSC	International

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281	alpha-Tocopherol Succinate-Anchored PEGylated Poly(amidoamine) Dendrimer for the Delivery of Paclitaxel: Assessment of in Vitro and in Vivo Therapeutic Efficacy	MOLECULAR PHARMACEUTICS Vol_No 16 Issue_No 4 P_Page 1554	Bhatt, Himanshu; Rompicharla, Vishnu Kiran; Ghosh, Balaram; Biswas, Swati	SCS WOS PUBMED GSC	International
282	α-Tocopherol Succinate-Anchored PEGylated Poly(amidoamine) Dendrimer for the Delivery of Paclitaxel: Assessment of in Vitro and in Vivo Therapeutic Efficacy	Molecular Pharmaceutics	Himanshu Bhatt., Sri Vishnu Kiran Rompicharla., Balaram Ghosh., Swati Biswas	SCS WOS PUBMED GSC	International
283	Intrinsically disordered regions mediate macromolecular assembly of the Slit diaphragm proteins associated with Nephrotic syndrome	Molecular Simulation P_Page 11	Sandeep K Mulukala Narasimha., Prajna Parimita kar., Ramakrishna Vadrevu., Anil k Pasupulati	SCS WOS GSC	International
284	A new RGB image encryption using generalized Vigenére-type table over symmetric group associated with virtual planet domain	Multimedia Tools and Applications	Kumar M., Mohapatra R.N., Agarwal S., Sathish G., Raw S.N.	SCS WOS GSC	International
285	A new RGB image encryption using generalized heat equation associated with generalized Vigen è re-type table over symmetric group	Multimedia Tools and Applications	Kumar M., Sathish G., Alphonse M., Lahcen R.A.M.	SCS WOS GSC	International
286	Transferrin/α-tocopherol modified poly(amidoamine) dendrimers for improved tumor targeting and anticancer activity of paclitaxel	Nanomedicine Vol_No 14 Issue_No 24 P_Page 3176	Himanshu Bhatt., Sri Vishnu Kiran Rompicharla., Balaram Ghosh., Vladimir Torchilin., Swati Biswas	SCS WOS GSC	International
287	Development of chlorin e6-conjugated poly(ethylene glycol)-poly(d,l-lactide) nanoparticles for photodynamic therapy	Nanomedicine	Preeti Kumari., Sri Vishnu Kiran Rompicharla., Himanshu Bhatt., Balaram Ghosh., Swati Biswas	SCS WOS PUBMED GSC	International
288	C2F: Coarse-to-fine vision control system for automated microassembly	Nanoscience and Nanotechnology - Asia Vol_No 9 Issue_No 2 P_Page 239	Tripathi S., Jain D.R., Sharma H.D.	SCS GSC	International
289	Plasmonic Ag nanoparticles arbitrated enhanced photodetection in p-NiO/n-rGO heterojunction for future self-powered UV photodetectors	Nanotechnology	P Joshna., Sankara Gollu Rao., P Michael Preetam Raj., B.V.V.S.N Prabhakar Rao., Parikshit Sahatiya., Souvik Kundu	SCS WOS PUBMED GSC	International
290	A Combination of Variational Mode Decomposition and Histogram Equalization for Image Enhancement	National Academy Science Letters P_Page 4	Lm Satapathy., Rk Tripathy., P Das	SCS WOS GSC	National
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292	CHITOSAN-HDAC5 SIRNA NANOPARTICLE TREATMENT REDUCE MACROPHAGE ACTIVATION INDUCED BY OXALATE CRYSTALS AND ATTENUATES INFLAMMATION AND ACUTE KIDNEY INJURY	NEPHROLOGY DIALYSIS TRANSPLANTATION Vol_No 34	Pravesh, Sharma; Karnam, Kalyani; Sedmaki, Kavitha; Salegaonkar, Akshay; Venuganti, Vamsi Krishna; Kulkarni, Onkar Prakash	WOS GSC	International
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294	Fecal coliform predictive model using genetic algorithm-based radial basis function neural networks (GA-RBFNNs)	Neural Computing and Applications P_Page 17	Sai Prasanth Duvvuri., Jagadeesh Anmala	SCS WOS GSC	International
295	Revisiting The Coincidence Problem in f(R) Gravitation	New Astronomy	S Bhattacharjee., Pradyumn Kumar Sahoo	SCS GSC	International
296	Branching effect on triphenylamine-CF3 cyanostilbenes: enhanced emission and aggregation in water	New Journal of Chemistry Vol_No 43 Issue_No 10 P_Page	Kumari B., Singh S.P., Santosh R., Dutta A., Mallajosyula S.S., Ghosal	SCS WOS GSC	International

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298	Mechanistic insights into n-BuLi mediated phospha-Brook rearrangement	New Journal of Chemistry P_Page 5	Subhas Ghosal., Manab Chakravarty ., Santosh Ranga., Tanmay Chatterjee	SCS WOS GSC	International
299	Lyapunov-type inequalities for Riemann-Liouville type fractional boundary value problems	Novi Sad Journal of Mathematics Vol_No 49 Issue_No 1 P_Page 152	Jaganmohan Jonnalagadda., Debananda Basua	SCS GSC	International
300	Quantized CP approximation and sparse tensor interpolation of function-generated data	Numerical Linear Algebra with Applications Vol_No 26 Issue_No 5	Khoromskij B.N., Kishore Kumar N., Schneider J.	SCS WOS GSC	International
301	Novel diazenyl containing phenyl styryl ketone derivatives as antimicrobial agents	Anti-Infective Agents Vol_No 17 Issue_No 1 P_Page 38	Sivasankerreddy L., Nagamani B., Rajkumar T., Babu M.S., Subbaiah N.Y., Harika M.S., Nageswarao R.	SCS GSC	International
302	Optomechanical control of mode conversion in a hybrid semiconductor microcavity containing a quantum dot	Optical and Quantum Electronics Vol_No 51 Issue_No 7	Ali S., Bhattacherjee A.B.	SCS WOS GSC	International
303	Ultra-thin subwavelength film sensing through the excitation of dark modes in THz metasurfaces	Optics Communications Vol_No 453	Banerjee S., Amith C.S., Kumar D., Damarla G., Chaudhary A.K., Goel S., Pal B.P., Roy Chowdhury D.	SCS WOS GSC	International
304	Effect of second-order nonlinearity on quantum coherent oscillations in a quantum dot embedded in a doubly resonant-semiconductor micro-cavity	Optik	Pradip K Jha., Aranya Bhuti Bhattacharjee., Vijay Bhatt	SCS WOS GSC	International
305	Photon blockade induced tunable source of one/two photon in a double quantum dot-semiconductor microcavity system	Optik Vol_No 185 P_Page 691	Pradip J Jha., Aranya Bhuti Bhattacharjee., Madhav K Singh	SCS WOS GSC	International
306	Copper and palladium-catalyzed sequential reactions: One-pot synthesis of isoindolo[2,1-b] isoquinolin-7(5 H)-ones	Organic and Biomolecular Chemistry Vol_No 17 Issue_No 17 P_Page 4290	Saini H.K., Dhiman S., Nandwana N.K., Krishnan R., Kumar A.	SCS WOS PUBMED GSC	International
307	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_No 76	Anwarhussaini S D., Himabindu Battula., Pavan Kumar Reddy Boppidi., Souvik Kundu., Chanchal Chakraborty., Subbalakshmi Jayanty	SCS WOS GSC	International
308	Market reaction to banks revenue diversification strategy: evidence from India	Applied Economics Letters	Thota N.	SCS GSC	International
309	MEMS tunable SOI waveguide Bragg grating filter with 1.3 THz tuning range for C-band 100 GHz DWDM optical network	Photonic Network Communications	Poorna Lakshmi U., Balasubramanian M., Narayan K., Pattnaik P.K.	SCS WOS GSC	International
310	Determination of band edges and their influences on photocatalytic reduction of nitrobenzene by bulk and exfoliated g-C3N4	Physical Chemistry Chemical Physics Vol_No 21 Issue_No 6 P_Page 3183	Swapna Challagulla., Soumitra Payra., Chanchal Chakraborty., Sounak Roy	SCS WOS PUBMED GSC	International
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312	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_No 171 P_Page 97	Venkateswarlu K., Ganji N., Daravath S., Kanneboina K., Rangan K., Shivaraj	SCS WOS GSC	International
313	Electrostatic high-velocity solid lubricant machining system for performance improvement of turning	Proceedings of the Institution of Mechanical Engineers, Part B:	Gunda R.K., Narala S.K.R.	SCS WOS GSC	International

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314	Minimization of weld line movement in heat-assisted forming of tailor welded blanks	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	Vvns Suresh ., Sp Regalla., Amit Kumar Gupta	SCS WOS GSC	International
315	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	Joshua Amrith Raj., Bijay Kumar Rout ., Arshad Javed	SCS WOS GSC	International
316	Tribological analysis of electrostatically developed nanocomposite-coated cutting tool material	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	Pavandatta Manohar Jadhav., N Suresh Kumar Reddy	SCS WOS GSC	International
317	SH-wave propagation in linearly varying fiber-reinforced viscoelastic composite structure uninitial stress	Arabian Journal of Geosciences Vol_No 12 Issue_No 2	Sumit Kumar Vishwakarma., Tapas Ranjan Panigrahi., Rupinderjit Kaur	SCS WOS GSC	International
318	Sustainable benchmarking of a public transport system using analytic hierarchy process and fuzzy logic: a case study of Hyderabad, India	Public Transport Vol_No 11 Issue_No 3 P_Page 485	Pradeep Chaitanya Jasti., Vijayapuri Vinayaka Ram	SCS GSC	International
319	Natural product as corrosion inhibitors in various corrosive media: A review	Rasayan Journal of Chemistry Vol_No 12 Issue_No 2 P_Page 544	Jyothi S., Rao Y.V.S., Ratnakumar P.S.S.	SCS GSC	National
320	HIGHLY EFFICIENT STEREOSELECTIVE SYNTHESIS OF Î²AMINO ACIDS BY ASYMMETRIC METHOD	Rasayan Journal of Chemistry Vol_No 12 Issue_No 1 P_Page 72	Racharla Srikanth., B Jainendra Kumar., Gangarapu Kiran	SCS GSC	National
321	Vitamin-E/lipid based PEGylated polymeric micellar doxorubicin to sensitize doxorubicin-resistant cells towards treatment	Reactive and Functional Polymers Vol_No 134 P_Page 57	Omkara Swami Muddineti., Sri Vishnu Kiran Rompicharla., Preeti Kumari., Himanshu Bhatt., Balaram Ghosh., Swati Biswas	SCS WOS GSC	International
322	Targeting HIV-TB coinfection by developing novel piperidin-4-substituted imines: Design, synthesis, in vitro and in silico studies	Archiv der Pharmazie Vol_No 352 Issue_No 6	Kumar A., Revathi R., Sriram D., Curreli F., Debnath A.K., Pai K.S., Kini S.G.	SCS WOS PUBMED GSC	International
323	New: N -phenylacetamide-incorporated 1,2,3-triazoles: [Et3NH][OAc]-mediated efficient synthesis and biological evaluation	RSC Advances Vol_No 9 Issue_No 38 P_Page 22091	Akolkar S.V., Nagargoje A.A., Krishna V.S., Sriram D., Sangshetti J.N., Damale M., Shingate B.B.	SCS WOS GSC	International
324	New N-phenylacetamide-incorporated 1,2,3-triazoles: [Et3NH][OAc]-mediated efficient synthesis and biological evaluation	RSC ADVANCES Vol_No 9 Issue_No 38 P_Page 22091	Akolkar, Satish V.; Nagargoje, Amol A.; Krishna, Vagolu S.; Sriram, Dharmarajan; Sangshetti, Jaiprakash N.; Damale, Manoj; Shingate, Bapurao B.	SCS WOS GSC	International
325	Total synthesis of the plant alkaloid racemic microthecaline A: first example of a natural product bearing a tricyclic quinoline-serrulatane scaffold	RSC Advances Vol_No 9 Issue_No 40 P_Page 23294	Anupam Bhattacharya ., Syed Mohd Baquer., Thirupathi Reddy Penjarla., Maheshwar Kundarapu	SCS WOS GSC	International
326	Synthesis of C2-tetrasubstituted indolin-3-ones via Cu-catalyzed oxidative dimerization of 2-aryl indoles and cross-addition with indoles	RSC Advances Vol_No 9 Issue_No 2 P_Page 24056	Anoop Singh., Satheeshvarma Vanaparthi., Sachin Choudhary., Rangan Krishnan., Indresh Kumar	SCS WOS GSC	International
327	Confluence of montmorillonite and Rhizobium towards the adsorption of chromium(VI) from aqueous medium	RSC Advances Vol_No 9 Issue_No 49 P_Page 28489	T Sathvika., Akhil Raj Kumar Saraswathi., Vidya Rajesh ., N Rajesh	SCS WOS GSC	International
328	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 Vol_No 9 Issue_No 50 P_Page 29292	Tsz Tin Yu., Naresh Kumar., Singireddi Srinivasarao., Adinarayana Nandikolla., Shashidhar Nizalapur., Sravani Pulya.,	SCS WOS GSC	International

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330	Recent trends on drivetrain control strategies and battery parameters of a hybrid electric vehicle	SAE Technical Papers	Pavan Bharadwaja Bhaskar., Prashanth Khannan., Amjad shaik., Sandip Shridharrao Deshmukh	SCS GSC	International
331	Superfast Response of UV Photodetector Based on Plasmonic Nanoparticles Embedded Uniform TiO2 Nanotubes Array	Semiconductor Science and Technology P_Page 28	P. Joshna., Arnab Hazra., Karumbaiah Chappanda Nanaiah., Prasant Kumar Pattnaik., Souvik Kundu	WOS GSC	International
332	Fast response of UV photodetector based on Ag nanoparticles embedded uniform TiO2 nanotubes array	Semiconductor Science and Technology Vol_No 35 Issue_No 1	P Joshna., Arnab Hazra., Karumbaiah Chappanda Nanaiah., Prasant Kumar Pattnaik., Souvik Kundu	WOS GSC	International
333	Miniature Pressure Sensor Based on Suspended MWCNT	Sensors and Actuators A: Physical	AZ Hajjaj., K.N.Chappanda., N.M.Batra., M.A.A.Hafiz., P.M.F.J.Costa., M.I.Younis	SCS WOS GSC	International
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335	A folic acid-sensitive polyfluorene based â€œturn-offâ€• fluorescence nanoprobe for folate receptor overexpressed cancer cell imaging	Sensors and Actuators, B: Chemical P_Page 344	Roy S., Gunukula A., Ghosh B., Chakraborty C.	SCS WOS GSC	International
336	Removal of Europium from aqueous solution using Saccharomyces cerevisiae immobilized in glutaraldehyde cross-linked chitosan	Separation Science and Technology (philadelphia)	Arunraj B., Talasila S., Rajesh V., Rajesh N.	SCS WOS GSC	International
337	A frequency domain beamspace adaptive receive beamformer for ultrasound imaging systems: phantom simulation results	Signal, Image and Video Processing P_Page 9	Avinash S. Vaidya., M. B. Srinivas	SCS WOS GSC	International
338	Reversible morphological switching and deformation hysteresis in electric field mediated instability of thin elastic films	Soft Matter Vol_No 15 Issue_No 18 P_Page 3834	Nandini Bhandaru., Rabibrata Mukherjee., Sumita Sahoo	SCS WOS PUBMED GSC	International
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341	Tandem Schiff-Base Formation/Heterocyclization: An Approach to the Synthesis of Fused Pyrazolo-Pyrimidine/Isoxazolo-Pyrimidine Hybrids	Synlett Vol_No 30 Issue_No 5 P_Page 592	Sambaiah M., Mallesham P., Shiva Kumar K., Bobde Y., Hota P.K., Yennam S., Ghosh B., Behera M.	SCS WOS GSC	International
342	Synthesis, antitubercular evaluation and molecular docking studies of phthalimide bearing 1,2,3-triazoles	Synthetic Communications Vol_No 49 Issue_No 16 P_Page 2028	Phatak P.S., Bakale R.D., Dhumal S.T., Dahiwade L.K., Choudhari P.B., Siva Krishna V., Sriram D., Haval K.P.	SCS WOS GSC	International
343	2-Phenylindole derivatives as anticancer agents: synthesis and screening against murine melanoma, human lung and breast cancer cell lines	Synthetic Communications Vol_No 49 Issue_No 17 P_Page 2269	Gaikwad R., Bobde Y., Ganesh R., Patel T., Rathore A., Ghosh B., Das K., Gayen S.	SCS WOS GSC	International

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344	Iron(III) catalyzed direct C–H functionalization at the C-3 position of chromone for the synthesis of fused chromeno-quinoline scaffolds	Tetrahedron Letters Vol_No 60 Issue_No 29 P_Page 1898	T UdayKumar., Durba Roy., Anupam Bhattacharya	SCS WOS GSC	International
345	Metal-free synthesis of pyridin-2-yl ureas from 2-aminopyridinium salts	Tetrahedron Letters Vol_No 60 Issue_No 33	Krishnan Rangan., Om PS Patel., Saroj., Anil Kumar	SCS WOS GSC	International
346	Role of μ-opioid receptor polymorphism in patients of rheumatoid arthritis and their correlation with severity of disease	Journal of Association of Physicians of India Vol_No 67 P_Page 25	Gauri L., Kapur S., Pal A., Singh U., Fatima Q., Khan A., Liyakat A., Liyakat N., Kularia R.	SCS PUBMED GSC	National
347	Study of apoe gene and d2s439 marker in patients of rheumatoid arthritis and their correlation with severity of disease: A case control study	Journal of Association of Physicians of India Vol_No 67 P_Page 48	Gauri L.A., Singh U., Kapur S., Fatima Q., Ranwa B., Khan A., Liyakat A., Kularia R., Nisha	SCS PUBMED GSC	National
348	Design, synthesis and anti-tumour activity of new pyrimidine-pyrrole appended triazoles	Toxicology in Vitro Vol_No 60 P_Page 96	Thiriveedhi A., Nadh R.V., Srinivasu N., Bobde Y., Ghosh B., Sekhar K.V.G.C.	SCS WOS PUBMED GSC	International
349	A study on route choice preferences for commuter and non-commuter bicyclists: a case study of Kharagpur and Asansol, India	Transportation P_Page 27	Majumdar B.B., Mitra S.	SCS WOS GSC	International
350	Freight generation and geographical effects: modelling freight needs of establishments in developing economies and analyzing their geographical disparities	Transportation P_Page 30	Prasanta K Sahu., Agnivesh Pani	GSC	International
351	Comparative Assessment of Industrial Classification Systems for Modeling Freight Production and Freight Trip Production	Transportation Research Record	Agnivesh Pani., Prasanta K Sahu	SCS WOS GSC	International
352	Some new hydrazone derivatives bearing the 1,2,4-triazole moiety as potential antimycobacterial agents [Antimikobakteriyel etki göstermesi beklenen yeni bazı 1,2,4-triazol yapısı taŞıyan hidrazon türevleri]	Turkish Journal of Pharmaceutical Sciences Vol_No 16 Issue_No 4 P_Page 436	Özadali Sari K., Ünsal Tan O., Sriram D., Balkan A.	SCS GSC	International
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356	A Validated Stability Indicating Rp-Hplc Method Development For Anti Cancer Drug Enzalutamide In Bulk And Pharmaceuticals	International Journal Of Pharmaceutical Sciences And Drug Research Vol_No 11 Issue_No 3 P_Page 90	B. Anjaneyulu Reddy., P. Radhakrishnanand., Md. Irshad Alam., P. Ravi Kiran	GSC	National
357	A Validated Stability Indicating RP-HPLC Method Development For Anticancer Drug Enzalutamide in Bulk and Pharmaceuticals	International Journal Of Pharmaceutical Sciences And Drug Research Vol_No 11 Issue_No 3 P_Page 90	Md Irshad Alam., P Radhakrishnanan., P Ravi Kiran., B Anjaneyulu Reddy	GSC	National
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361	Dissolvable Microneedle-Mediated Transcutaneous Delivery of Tetanus Toxoid Elicits Effective Immune Response	AAPS PharmSciTech Vol_No 20 Issue_No 7 P_Page 257	Venkata Vamsi Krishna Venuganti., Radha Balkrishna Kulkarni., Anjana Saju., Girdhari Roy., Raghuraman Manimaran., Shubhmita Bhatnagar., Srijanaki Paravastu Pattarabhiran., Kanchan Rajendra Sonawane	SCS WOS PUBMED GSC	International
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363	Selective inhibition of PKR improves vascular inflammation and remodelling in high fructose treated primary vascular smooth muscle cells	Biochimica et Biophysica Acta - Molecular Basis of Disease	Jaspreet Kalra., Sureshbabu Mangali., Audesh Bhat., Kritikumar Jadhav., Arti Dhar	SCS PUBMED GSC	International
364	Implication of homocysteine in protein quality control processes	Biochimie Vol_No 165 P_Page 31	Reddy V.S., Trinath J., Reddy G.B.	SCS WOS PUBMED GSC	International
365	Synthesis and catalytic performance of SnxSTA by microwave-assisted hydrothermal synthesis for fructose to HMF	Biomass Conversion and Biorefinery P_Page 8	Parameswaram Ganji	SCS GSC	International
366	Expansion of a novel lead targeting M. tuberculosis DHFR as antitubercular agents	Bioorganic and Medicinal Chemistry Vol_No 27 Issue_No 7 P_Page 1429	Sharma K., Tanwar O., Deora G.S., Ali S., Alam M.M., Zaman M.S., Krishna V.S., Sriram D., Akhter M.	SCS WOS PUBMED GSC	International
367	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_No 29 Issue_No 13 P_Page 1687	Pogaku V., Krishna V.S., Sriram D., Rangan K., Basavoju S.	SCS WOS PUBMED GSC	International
368	5-Chloro-2-thiophenyl-1,2,3-triazolylmethyldihydroquinolines as dual inhibitors of Mycobacterium tuberculosis and influenza virus: Synthesis and evaluation	Bioorganic and Medicinal Chemistry Letters Vol_No 29 Issue_No 18 P_Page 2669	Marvadi S.K., Krishna V.S., Sinegubova E.O., Volobueva A.S., Esaulkova Y.L., Muryleva A.A., Tentler D.G., Sriram D., Zarubaev V.V., Kantevari S.	SCS WOS PUBMED GSC	International
369	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	Bioorganic and Medicinal Chemistry Letters Vol_No 29 Issue_No 18 P_Page 2558	Chitti S., Singireddi S., Santosh Kumar Reddy P., Trivedi P., Bobde Y., Kumar C., Rangan K., Ghosh B., Sekhar K.V.G.C.	SCS WOS PUBMED GSC	International
370	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_No 29 Issue_No 2 P_Page 290	Shiva Raju K., AnkiReddy S., Sabitha G., Siva Krishna V., Sriram D., Bharathi Reddy K., Rao Sagurthi S.	SCS WOS PUBMED GSC	International
371	Synthesis and evaluation of novel substituted 1,2,3-triazolyldihydroquinolines as promising antitubercular agents	Bioorganic and Medicinal Chemistry Letters	Marvadi S.K., Krishna V.S., Sriram D., Kantevari S.	SCS WOS PUBMED GSC	International
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375	Structure-activity relationship of Human Carbonic Anhydrase-II inhibitors: Detailed Insight for future development as anti-glaucoma agents	Bioorganic Chemistry Vol_No 95 P_Page 103557	Soumajit Ghorai., Sravani Pulya., Kalyan Ghosh., Parthasarathi Panda., Balaram Ghosh., Shovanal Gayen	SCS GSC	International
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381	Modelling non-response in establishment-based freight surveys: A sampling tool for statewide freight data collection in middle-income countries	Transport Policy	Agnivesh Pani., Prasanta Kumar Sahu	SCS GSC	International
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384	Imidazo[2,1-b]thiazole-Coupled Natural Noscapine Derivatives as Anticancer Agents	ACS Omega	Nagireddy P.K.R., Kommalapati V.K., Siva Krishna V., Sriram D., Tangutur A.D., Kantevari S.	SCS WOS GSC	International
385	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	ACS Omega P_Page 9	Banchhanidhi Prusti., Manab Chakravarty	SCS WOS GSC	International
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389	Natural diketopiperazines as TNF-alpha and IL-6 inhibitors	British Journal Of Pharmacology Vol_No 176 Issue_No 16 P_Page 3011	Hira, K.; Begum, A.	WOS GSC	International
390	â€œQuinoline Consists of 1H-1,2,3-Triazole Hybrids: Design, Synthesis and Anticancer Evaluationâ€•	ChemistrySelect Vol_No 4 Issue_No 48 P_Page 14190	Venkata S.R.G., C.Narkhede U., Jadhav V.D., Naidu C.G., Addada R.R., Pulya S., Ghosh B.	SCS WOS GSC	International

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397	Effects of alternate nutrient medium on microalgae biomass and lipid production as a bioenergy source for fuel production	Materials Today: Proceedings	SamaSanghamitra.,Sandip Shridharrao Deshmukh.,Kumar Pranav Narayan.	GSC	International
398	Study of Anisotropic Material Behavior for Inconel 625 Alloy at Elevated Temperatures	Materials Today: Proceedings Vol_No 18 Issue_No 7 P_Page 2766	C Anand Badrish., Nitin Rameshrao Kotkunde., Omkar Salunke., Swadesh Kumar Singh	GSC	International
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400	Effect of Graphene Nanoplatelets on the Mechanical Properties of Aluminium Metal Matrix Composite	Materials Today: Proceedings Vol_No 18 Issue_No 7 P_Page 2467	Ankit Sharma., Bhuvanesh Vasudevan., Ravindran Sujith., Nitin Rameshrao Kotkunde., Kurra Suresh., Amit Kumar Gupta	GSC	International
401	Surface treatment of jute fibre using eco-friendly method and its use in PP composites	Materials Today: Proceedings Vol_No 18 Issue_No 7 P_Page 3275	Mohit Agrawal., Rudresh Naik., Sneha Shetgar., Purnima D	GSC	International
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405	Cowper-Symonds Strain Hardening Model For Flow Behaviour Of Inconel 718 Alloy	Materials Today: Proceedings Vol_No 18 Issue_No 7 P_Page 2801	Gauri Mahalle., Nitin Rameshrao Kotkunde., Amit Kumar Gupta., Swadesh Kumar Singh	GSC	International
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409	Role of synthesis of upconversion nanoparticles towards surface modification and photocatalysis	Bulletin of Materials Science Vol_No 42	Swapna Challagulla., Soumitra Payra., Mayur Bajaj., Sounak Roy	SCS WOS GSC	National
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411	Slump test: Laboratory and numerical simulation-based approach for consistency of mill tailings paste	Current Science Vol_No 117 Issue_No 2 P_Page 241	Behera S.K., Prashant., Ghosh C.N., Mishra D.P., Mandal P.K., Verma A., Mohanty S., Mishra K., Singh P.K.	SCS WOS GSC	National
412	Fluoride removal by novel composite material and its performance in the fixed-bed column filter	Current Science Vol_No 116 Issue_No 12 P_Page 2083	Mahipal., Faisal H.A., Kar A., Raychoudhury T.	SCS GSC	National
413	Management of sorghum grain mold through induced resistance mechanism using foliar spray of Pseudomonas fluorescens strains and non-conventional chemicals: a field study	Archives of Phytopathology and Plant Protection P_Page 20	Ragavendra Govardhan., Ameer Basha Shaik., A Sajeli Begum., Pragya Paramita Pal	SCS GSC	International
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418	Developmental Trends in CO2 methanation using various catalysts	Catalysis Science and Technology	Yaddanapudi Varun., Amarthaluri Satyapaul Singh., A. Venugopal., Benjaram M. Reddy., Inkollu Sreedhar	SCS WOS GSC	International
419	Characterization of subabul heartwood and sapwood pulps after cooking and bleaching	Cellulose Chemistry and Technology Vol_No 53 Issue_No 43621 P_Page 492	Pydimalla M., Reddy N.S., Adusumalli R.B.	SCS WOS GSC	International
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424	A co-operative endeavor by nitrifying bacteria Nitrosomonas and Zirconium based metal organic framework to remove hexavalent chromium	Chemical Engineering Journal P_Page 889	Sathvika T., Balaji S., Chandra M., Soni A., Rajesh V., Rajesh N.	SCS WOS GSC	International
425	Lattice Boltzmann simulations for invasion patterns during drying of capillary porous media	Chemical Engineering Science	Zachariah G.T., Panda D., Surasani V.K.	SCS WOS GSC	International
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432	Probing the surface composition effect of silver-gold alloy in SERS efficiency	Colloids and Surfaces A: Physicochemical and Engineering Aspects Vol_No 578	Pawar S., Teja B.R., Nagarjuna R., Ganesan R., Nag A.	SCS WOS GSC	International
433	Parallel Computation of Alpha Complex for Biomolecules	Arxiv.org	Talha Bin Masooda., Tathagata Ray., Vijay Natarajan	GSC	International
434	Automated detection of congestive heart failure from electrocardiogram signal using Stockwell transform and hybrid classification scheme	Computer Methods and Programs in Biomedicine Vol_No 173 P_Page 65	RK Tripathy., Mario RA Paternina., Juan G Arrieta., Alejandro Zamora-Mendez., Ganesh R Naik	SCS WOS PUBMED GSC	International
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438	Impact of fluoride in potable water â€“ An outlook on the existing defluoridation strategies and the road ahead	Coordination Chemistry Reviews Vol_No 387 P_Page 128	M Barathi., A Santhana KrishnaKumar., N Rajesh	SCS WOS GSC	International
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449	Economic Independence and Social Security among Indiaâ€™s Elderly	Economic and Political Weekly Vol_No 54 Issue_No 39 P_Page 41	Srinivas Goli., Venkatesh Srinivasan., Bheemeshwar Reddy A., K S James	SCS GSC	National
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10	Potential of cotton seed oil and rice bran oil as a renewable energy sources in india	International Journal of Mechanical Engineering and Technology Vol_No 10 Issue_No 2 P_Page 212	Udayakumar Rajamanickam., K Sundar	SCS GSC	National
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39	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_No 9 Issue_No 1 P_Page 33	Adhir Baran Chattopadhyay., Julia Tholath Jose	SCS GSC	International
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114	Determination of Venlafaxine in Bulk and Pharmaceutical Formulations Using Stability Indicating RP-HPLC Method with UV Detector	Current Pharmaceutical Analysis Vol_No 15 Issue_No 3 P_Page 265	Satish S Reddi., Gautam Singhvi., Archana Khosa., Kowthavarapu V Krishna., Ranendra N Saha	SCS WOS GSC	International

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1	Advances in Polymer-Based Photovoltaic Cells: Review of Pioneering Materials, Design, and Device Physics	Handbook of Ecomaterials P_Page 48	Sanjay Tiwari., Tanya Tiwari., Sue A. Carter., J. Campbell Scott., J. V. Yakhmi	SCS GSC	International
2	Convolutional Neural Network-Based Human Identification Using Outer Ear Images	Soft Computing for Problem Solving P_Page 719	Harsh Sinha., Raunak Manekar., Yash Sinha., Pawan K. Ajmera	SCS GSC	International
3	Data-Driven Design Optimization for Industrial Products	Optimization in Industry P_Page 267	Swati Dey., N. Gupta., S. Pathak., D. H. Kela., Shubhabrata Datta	GSC	International
4	Dynamic Buckling of Laminated Composite Curved Panels Subjected to In-plane Compression	Recent Advances in Structural Engineering Vol_No 2 P_Page 744	V Keshav., Sn Patel	SCS GSC	International
5	Effect of Skewness on Shear Lag Effect in RC Box-Girder Bridges	Recent Advances in Structural Engineering Vol_No 1 P_Page 245	Manoj Kumar., Nitin Gulhane., Tanmay Gupta	SCS GSC	International
6	Effect of Soil Heterogeneity on Soil–Structure Interaction	Soil Dynamics and Earthquake Geotechnical Engineering P_Page 29	Ravi Kant Mittal., Sanket Rawat	SCS GSC	International
7	Experimental and Analytical Studies of Failure Characteristics of FRP Connections	Recent Advances in Structural Engineering Vol_No 2 P_Page 757	Sb Singh., Himanshu Chawla., Sudhir Vummadisetti	SCS GSC	International
8	Influence of Curing on Acoustic Emission Characteristics of Plain Concrete Subjected to Uniaxial Compression	Recent Advances in Structural Engineering Vol_No 1 P_Page 1134	Richa Priyadarshi., Isha Narsaria., K. P. Sreejaya., R. Vidya Sagar	SCS GSC	International
9	Influence of Shear Core Curtailment on the Structural Response of Core-Wall Structures	Recent Advances in Structural Engineering Vol_No 1 P_Page 215	Manoj Kumar., Nishant Rathi., G. Muthukumar	SCS GSC	International
10	Kinematic Analysis of Carrier Mechanism for In-service Inspection of Sodium-Cooled Fast Reactor Internals	Machines, Mechanism and Robotics P_Page 256	Sudheer Patri., Varun Kaushik., C. Meikandamurthy., B. K. Sreedhar., V. Prakash., P. Selvaraj	GSC	International
11	Lung Cancer Detection: A Deep Learning Approach	Soft Computing for Problem Solving P_Page 705	Siddharth Bhatia., Yash Sinha., Lavika Goel	SCS GSC	International
12	Maximum Network Flow Aware Multi-lightpath Survivable Routing in WDM Networks	Information and Communication Technology for Competitive Strategies P_Page 748	Dinesh Kumar Tyagi., V. K. Chaubey	SCS GSC	International
13	Modelling of Male Age at Marriage: Evidences from Western Region of Uttar Pradesh (India)	Logistics, Supply Chain and Financial Predictive Analytics P_Page 193	Cb Gupta., Sachin Kumar., Brijesh P. Singh	GSC	International
14	Nanoswimmer Energy Transduction System: Influence of Branching	Engineering Vibration, Communication and Information Processing P_Page 522	Shivani Nain., Jitendra Singh Rathore., Niti Nipun Sharma	SCS GSC	International
15	Reaction Response of Horizontally Curved and Skewed Concrete Box-Girder Bridges	Recent Advances in Structural Engineering Vol_No 1 P_Page 60	Tanmay Gupta., Manoj Kumar	SCS GSC	International
16	Advances in polymer-based photovoltaic cells: Review of pioneering materials, design, and device physics	Handbook of Ecomaterials Vol_No 2 P_Page 1101	Tiwari S., Tiwari T., Carter S.A., Scott J.C., Yakhmi J.V.	SCS GSC	International
17	Design and Analysis of a Hybrid Non-volatile SRAM Cell for Energy Autonomous IoT	Intelligent Computing Techniques for Smart Energy Systems P_Page 66	Kanika., Nitin Chaturvedi., Sundaram Gurunarayanan	GSC	International
18	Gandhi and the 'Race' Question	Gandhi and the Contemporary World	-	GSC	International
19	Assessment of Gait Disorder in	Early Detection of	Paramasivam	GSC	International

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20	ALGINATE: DRUG DELIVERY AND APPLICATION	Alginates: Versatile Polymers in Biomedical Applications and Therapeutics	Sunil Kumar Dubey ., Gautam Singhvi ., Rapalli Vamshi Krishna., Kowthavarapu V Krishna	GSC	International
21	Quantum Image Processing and Its Applications	Handbook of Multimedia Information Security: Techniques and Applications P_Page 411	J Jennifer Ranjani	GSC	International
22	The Effect of Emotional Intelligence, Empathy and Perceived Social Pressure on Predicting Social Entrepreneurial Intention: A Field Research	Methodological Issues in Social Entrepreneurship Knowledge and Practice P_Page 158	Jyoti., Anil Kumar Bhat., Preeti Tiwari	GSC	International
23	SURFACE PLASMON REASONANCE-BASED SENSORS	Microscopy Applied to Materials Sciences and Life Sciences	V Manjuladevi., Raj Kumar Gupta., Devanarayanan V P	GSC	International
24	Nanoparticulate Drug-Delivery Systems for Brain Targeting	Nanocarriers for Brain Targeting: Principles and Applications P_Page 236	Emil Joseph., Saswata Banerjee., Gautam Singhvi	GSC	International
25	Natural Products-Based Pancreatic Lipase Inhibitors for Obesity Treatment	Natural Bio-active Compounds P_Page 191	Aanchal Verma., Paul Atish Tulshiram., Ginson George., Sridhar S N C	GSC	International
26	Liveness and Threat Aware Selfie Face Recognition	Selfie Biometrics P_Page 210	Geetika Arora., Kamlesh Tiwari., Phalguni Gupta	SCS GSC	International
27	The Cognitive Structure of Online Brand Choice: An Exploratory Study	Developments in Marketing Science: Proceedings of the Academy of Marketing Science P_Page 532	Arunima Rana., Anil K. Bhat., Leela Rani	GSC	International
28	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	Mani Sankar Dasgupta., Srikanta Routroy., Kristina N WIDELL., Souvik Bhattacharyya., Maitri THAKUR	GSC	International
29	Solar energy technologies and water potential for distillation: A Pre-feasibility Investigation for Rajasthan, India	Progress in Solar Energy Technology and Applications P_Page 77	Nikhil Gakkhar., Manoj Kumar Soni., Sanjeev Jakhar	GSC	International
30	Intracellular Delivery: An Overview	AAPS Advances in the Pharmaceutical Sciences Series Vol_No 39 P_Page 41	Dhanashree H Surve., Prajakta Dandekar., Padma V Devarajan., Anil Jindal	GSC	International
31	Regulation of Oxidative Stress by Nitric Oxide Defines Lung Development and Diseases	Oxidative Stress in Lung Diseases P_Page 464	Suvendu Giri., Sumukh Thakar., Syamantak Majumder., Suvro Chatterjee	GSC	International
32	Sensor Information Processing for Wearable IoT Devices	Intelligent Systems Reference Library P_Page 200	Meetha V Shenoy	SCS GSC	International
33	Design and Implementation of Hybrid Plate Tectonics Neighborhood-Based ADAM′s Optimization and Its Application on Crop Recommendation	Studies in Computational Intelligence P_Page 181	Lavika Goel., Navjot Bansal., Nithin Benny	SCS GSC	International
34	Hybrid Biogeography-Based Optimization Techniques for Geo-Spatial Feature Extraction: A Brief Survey	Studies in Computational Intelligence P_Page 152	Lavika Goel., Arshveer Kaur	SCS GSC	International
35	Mommy Knows?: A Critical Study of "Mom-Schools" and Formal Education in Kolkata	Sociological Perspectives on Educating Children in Contemporary Society P_Page 158	Madhurima Das	GSC	International

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37	Investigating the Effect of Metal Working Fluid in Orthogonal Cutting of AISI 420 Stainless Steel Using 3-Dimensional Finite Element Model	Lecture Notes in Mechanical Engineering P_Page 602	Madan Mohan Reddy Nune., Phaneendra Kiran Changanti	GSC	International
38	Reliability and Vacation: The Critical Issue	Springer Series in Reliability Engineering P_Page 292	Chandra Shekhar., Shreekant Varshney., Amit Kumar	SCS GSC	International
39	Hybridization of Biogeography-Based Optimization and Gravitational Search Algorithm for Efficient Face Recognition	Advanced Metaheuristic Methods in Big Data Retrieval and Analytics P_Page 279	Lavika Goel., Lavanya B., Pallavi Panchal	GSC	National
40	Indexing for Healthcare Biometric Databases	Design and Implementation of Healthcare Biometric Systems P_Page 72	Kamlesh Tiwari., Geetika Arora., Phalguni Gupta	GSC	International
41	A parameter€• uniform scheme for singularly perturbed partial differential equations with a time lag	Numerical Methods for Partial Differential Equations	Devendra Kumar., Parvin Kumari	SCS WOS GSC	International
42	Natural Bioactive Cyclic Peptides and Peptidomimetics	Studies in Natural Products Chemistry Vol_No 62 P_Page 376	Bajaj K.	SCS GSC	International
43	Hybrid swarm intelligence algorithm for detection of health of an apple	Advances in Intelligent Systems and Computing Vol_No 798 P_Page 342	Goel L., Mustaq F., Tak C.	SCS GSC	International
44	Adaptive control of a nonlinear surge tank-level system using neural network-based PID controller	Advances in Intelligent Systems and Computing Vol_No 698 P_Page 500	Agrawal A., Goyal V., Mishra P.	SCS GSC	International
45	Exploiting Multiple Paths in Multi-hop Co-operative Ad-Hoc Networks for Providing Security without Trusted Third Party	Advances in Intelligent Systems and Computing P_Page 1265	T Dinesh Ram Kumar., Ashutosh Bhatia., RC Hansdah	SCS GSC	International
46	A Framework to Achieve Full Waypoint Enforcement in Hybrid SDN Networks	Advances in Intelligent Systems and Computing P_Page 340	Sandhya Rathee., T Dinesh Ram Kumar., K Haribabu., Ashutosh Bhatia	SCS GSC	International
47	An FPGA Based Hardware Accelerator for Classification of Handwritten Digits	Advances in Intelligent Systems and Computing P_Page 954	R. Gautham Sundar Ram., Nitin Chaturvedi., Sumeet Saurav., Sanjay Singh	SCS GSC	International
48	DCS-MAC: A Distributed Cross-Layer Communication Protocol for Directional Sensor Networks	Advances in Intelligent Systems and Computing P_Page 689	Shamanth Nagaraju., V Sreejith., Nipun Sood., Lucy J Gudino., Mehul Kasliwal., Rajas Kejriwal	SCS GSC	International
49	Lipid Nanocarriers for Enhanced Delivery of Temozolomide to the Brain	Methods in Molecular Biology Vol_No 2059 P_Page 298	Sunil Kumar Dubey., Ranendra Narayan Saha., Archana Khosa Kakkar., Kowthavarapu V Krishna	SCS PUBMED GSC	International

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1	Rapid In Vitro Proliferation of Tinospora CordifoliaCallus Biomass from Stem and Leaf with Phytochemical and Antimicrobial Assessment	Waste Valorisation and Recycling P_Page 431	Vidyadhar V. Gedam., Swapnil V. Punyapwar., Pranay A. Raut., Anup D. Chahande	GSC	International	BOOK CHAPTER
2	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 Vol_No 20	Sourav Kumar., Vivek Rangarajan., Divya Joslin Mathias	SCS WOS GSC	International	BOOK

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3	Arsenic Transport, Metabolism, and Possible Mitigation Strategies in Plants	Plant-Metal Interactions P_Page 168	Pallavi Sharma., Divya Gupta., Kundan Kumar., Kareem A. Mosa., Kalidoss Ramamoorthy	GSC	International	BOOK CHAPTER
4	Structure, Function, Orientation, Characterization and Immobilization of Antibodies for Immunosensor Development	Immunosensor P_Page 37	Aruna chandra Singh., Sunil Bhand	GSC	International	BOOK CHAPTER
5	Meta-moral cognition: an introduction	Mind and Society P_Page 10	Reena Cheruvalath	SCS GSC	International	BOOK CHAPTER
6	Indigenous interiority as natureâ€"cultureâ€"sacred continuum: An ecological analysis of Have You Seen the Arana?	Routledge Handbook of Ecocriticism and Environmental Communication	RAYSON KAYALVARATHU ALEX	GSC	International	BOOK CHAPTER
7	Comparative Study of Dielectric and Debris Flow in Micro-Electrical Discharge Milling Process Using Cylindrical and Slotted Tools	Lecture Notes on Multidisciplinary Industrial Engineering P_Page 26	S A Mullya., Karthikeyan Ganesarethinam	GSC	International	BOOK CHAPTER
8	Microstructure and Mechanical Properties of Atmospheric Plasma Sprayed 8YSZ Thermal Barrier Coatings	Lecture Notes on Multidisciplinary Industrial Engineering P_Page 446	N R Kadam., Karthikeyan Ganesarethinam., Dhananjay Madhukar Kulkarni	GSC	International	BOOK CHAPTER
9	Guns, Gangsters, and â€œgandagiâ€• : The Moll in Hindi Cinema	'Bad' Women of Bombay Films P_Page 166	Neha Yadav	GSC	International	BOOK CHAPTER
10	Effect of doping and surface functionalization on the conformational changes of protein upon interaction with hydroxyapatite nanoparticles	Biotechnology and Biological Sciences P_Page 8	Kavita Kadu., Meenal Kowshik., Sutapa Roy Ramanan	GSC	International	BOOK CHAPTER
11	CHAPTER 2: Structure, Function, Orientation, Characterization and Immobilization of Antibodies for Immunosensor Development	RSC Detection Science Issue_No 14 P_Page 41	Bhand S., Singh A.C.	SCS GSC	International	BOOK CHAPTER
12	DCS-MAC: A Distributed Cross-Layer Communication Protocol for Directional Sensor Networks	Advances in Intelligent Systems and Computing P_Page 689	Shamanth Nagaraju., V Sreejith., Nipun Sood., Lucy J Gudino., Mehul Kasliwal., Rajas Kejriwal	SCS GSC	International	BOOK CHAPTER

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1	Experimental Studies on Physical Properties and Strength Response of Construction and Demolition Wastes	Recent Advances in Structural Engineering Vol_No 1 P_Page 646	Ashok Kumar Suluguru., Arkamitra Kar., Anasua Guharay., Naveen James	SCS GSC	International
2	Influence of Bracing Systems on the Seismic Pounding of High-Rise Structure	Recent Advances in Structural Engineering Vol_No 2 P_Page 301	Pallerla Sai Krishna., J. S. Kalyana Rama	SCS GSC	International
3	Analysis of Symmetry in Epicyclic Gear Trains	Mechanisms and Machine Science Vol_No 73 P_Page 1090	Shanmukhasundaram V.R., Rao Y.V.D., Regalla S.P.	SCS GSC	International
4	Translating rhetoricity and everyday experiences of disablement: The case of Rashid Jahan's 'Woh'	Disability in Translation: The Indian Experience P_Page 242	Anand S.	SCS GSC	International
5	Multi-application Based Fault-Tolerant Network-on-Chip Design for Mesh Topology Using Reconfigurable Architecture	Communications in Computer and Information Science Vol_No 1066 P_Page 454	Linga Reddy Cenkeramaddi., Sai Pranavi Avadhanam., P Veda Bhanu., Soumya J., Pranav V Kulkarni	SCS GSC	International

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6	On-Chip Threshold Compensated Voltage Doubler for RF Energy Harvesting	Communications in Computer and Information Science Vol_No 1066 P_Page 189	Arun Mohan., Saroj Mondal., Surya Shankar Dan	SCS GSC	International
7	A Novel Design of SRAM Using Memristors at 45 nm Technology	Communications in Computer and Information Science Vol_No 1066 P_Page 589	V Jeffry Louis., Jai Gopal Pandey	SCS GSC	International
8	Î²Î±Î² Super-Secondary Motifs: Sequence, Structural Overview, and Pursuit of Potential Autonomously Folding Î²Î±Î² Sequences from (Î²/Î±)8/TIM Barrels	Methods in Molecular Biology Vol_No 1958 P_Page 236	Rajasekhar Varma Kadamuri., Shivkumar Sharma Irukuvajjula., Ramakrishna Vadrevu	SCS PUBMED GSC	International
9	Numerical Simulation and Experimental Study on Lightweight Mechanical Member	Advanced Engineering Optimization Through Intelligent Techniques Vol_No 939 P_Page 641	Lakshmi Srinivas., Arshad Javed., Lakshmi Srinivas., Arshad Javed	GSC	International
10	Application of Daviesâ€"Petersen Lemma	Springer Optimization and Its Applications Vol_No 151 P_Page 568	Manish Kumar., R N Mohapatra	SCS GSC	International
11	Prediction of Refactoring-Prone Classes Using Ensemble Learning	Communications in Computer and Information Science P_Page 250	Vamsi Krishna Aribandi., Lov Kumar., Lalita Bhanu Murthy Neti., Aneesh Krishna	GSC	International
12	Toward Implementing Spatio-Temporal RBAC Extensions	Lecture Notes in Computer Science P_Page 78	Aditya Dubey., Uttara Ravi., Somya Sharma., Barsha Mitra	SCS GSC	International
13	Named Entity Recognition Using Part-of-Speech Rules for Telugu	Advances in Intelligent Systems and Computing P_Page 157	SaiKiranmai Gorla., Sriharshitha Velivelli., Dipak Kumar Satpathi., N L Bhanu Murthy., Aruna Malapati	GSC	International
14	Investigating the Effect of Metal Working Fluid in Orthogonal Cutting of AISI 420 Stainless Steel Using 3-Dimensional Finite Element Model	Lecture Notes in Mechanical Engineering P_Page 602	Madan Mohan Reddy Nune., Phaneendra Kiran Changanti	GSC	International
15	Finding a Critical Voice	Cultural Studies of Science Education P_Page 36	Aswathy Raveendran	GSC	International
16	Differential Evolution Trained Fuzzy Cognitive Map: An Application to Modeling Efficiency in Banking	Advances in Intelligent Systems and Computing P_Page 11	Gutha Jaya Krishna., Meesala Smruthi., Vadlamani Ravi., Bhamidipati Shandilya	SCS GSC	International

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1	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_No Part F4 P_Page 88	Pervaiz S., Kannan S., Ram K., Samad W.A.	SCS GSC	International	Book chapter
2	Mechanical Properties of PVA and Polyester Fibers Based Engineered Cementitious Composites	Recent Advances in Structural Engineering Vol_No 1 P_Page 728	Sb Singh., Pankaj Munjal	SCS GSC	International	Book chapter
3	Sustainable Supply Chain Practices in Multinational Organizations	Ethical and Sustainable Supply Chain Management in a Global Context P_Page 15	Akshee Deepak Thakur., Pushkala Muralidharan	GSC	International	Book chapter
4	Multidisciplinary Studies on a Pilot Coastal Desert Modular Farm Growing Salicornia bigelovii in United Arab Emirates	ECOPHYSIOLOGY ABIOTIC STRESS RESPONSES AND ULILIZATION OF HALOPHYTES P_Page 345	DIONYSIA ANGELIKI LYRA., R M S AL SHIHI., A M AL ZAABI., A CHRISTIANSEN., R NUQUI., S M ROBERTSON., S RAMACHANDRAN., S ISMAIL	GSC	International	Book chapter
5	Bioethanol Production from Food Crops: Sustainable Sources, Interventions, and Challenges	Bioethanol Production from Food Crops P_Page 455	Ramesh C Ray., Ramachandran Subramanian	GSC	International	Book

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7	Gold Nanostructures for Photothermal Therapy	Nanotechnology in Modern Animal Biotechnology P_Page 65	Prem Singh., Shounak Roy., Aditi Banerjee., Amit Jaiswal., Pallab Sanpui	SCS GSC	International	Book chapter
8	User and Item Preference Learning for Hybrid Recommendation Systems	Advances in Science, Technology & Innovation P_Page 455	Kaavya Prakash., Fayiz Asad., Siddhaling Urolagin	GSC	International	Book chapter
9	Shrinking projection methods involving inertial forward€"backward splitting methods for inclusion problems	Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas P_Page 12	Suhel Ahmad Khan., Suthep Suantai., Watcharaporn Cholamjiak	SCS WOS GSC	International	Book chapter
10	Lipid Nanocarriers for Enhanced Delivery of Temozolomide to the Brain	Methods in Molecular Biology Vol_No 2059 P_Page 298	Sunil Kumar Dubey., Ranendra Narayan Saha., Archana Khosa Kakkar., Kowthavarapu V Krishna	SCS PUBMED GSC	International	Book chapter

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1	A Vector-based EEG Signal Feature Extraction Technique for BCI Applications	2018 Conference on Information and Communication Technology, CICT 2018	Saxena A., Siriah V.K., Agarwal V.	SCS GSC	National
2	Energy Harvesting, Hybrid, Cooperative Wireless System Modeling and Outage Performance Analysis	2018 Conference on Information and Communication Technology, CICT 2018	Praphul S.M., Priya Kalathuru B., Bitragunta S.	SCS GSC	National
3	Datacenter Workload Classification and Characterization: An Empirical Approach	2018 13th International Conference on Industrial and Information Systems, ICIIS 2018 - Proceedings P_Page 7	Shekhawat V.S., Gautam A., Thakrar A.	SCS GSC	International
4	Design of CMOS inverter and chain of inverters using neural networks	Proceedings - 2018 IEEE 4th International Symposium on Smart Electronic Systems, iSES 2018 P_Page 274	Valavala L., Munot K., Teja K.B.R.	SCS IEEE GSC	International
5	Finger Knuckleprint Based Personal Authentication Using Siamese Network	2019 6th International Conference on Signal Processing and Integrated Networks, SPIN 2019 P_Page 286	Joshi J.C., Nangia S.A., Tiwari K., Gupta K.K.	SCS WOS GSC	International
6	Investigation of Multi-Protocol Label Switching for Intelligent Transportation Systems	2019 6th International Conference on Signal Processing and Integrated Networks, SPIN 2019 P_Page 233	Rajput N.S.	SCS GSC	International
7	IIP3 improvement in subthreshold LNAs using modified derivative superposition technique for IoT applications	Proceedings - 32nd International Conference on VLSI Design, VLSID 2019 - Held concurrently with 18th International Conference on Embedded Systems, ES 2019 P_Page 134	Rungta A., Kandpal K.	SCS WOS GSC	International
8	Prevention and Mitigation of DNS based DDoS attacks in SDN Environment	2019 11th International Conference on Communication Systems and Networks, COMSNETS 2019 P_Page 573	Saharan S., Gupta V.	SCS GSC	International
9	A Lightweight ARQ Scheme to Minimize Communication Overhead	2019 11th International Conference on Communication Systems and Networks, COMSNETS 2019 P_Page 509	Bhatia A., Nehete R., Kaushik P., Murkya P., Haribabu K.	SCS GSC	International
10	OpenSnap: Collection of Globally Consistent Statistics in Software Defined Networks	2019 11th International Conference on Communication Systems and Networks, COMSNETS 2019 P_Page 156	Rathee S., Sharma R., Jain P.K., Haribabu K., Bhatia A., Balasubramaniam S.	SCS GSC	International
11	A Comparison of Machine Learning Attributes for Detecting Malicious Websites	2019 11th International Conference on Communication Systems and Networks, COMSNETS 2019 P_Page 358	Singh A.K., Goyal N.	SCS GSC	International
12	A Topology Independent TDMA-based MAC protocol for Vehicular Networks	2019 11th International Conference on Communication Systems and Networks, COMSNETS 2019 P_Page 409	Murkya P., Singh J., Bhatia A.	SCS GSC	International
13	Scanned to Digital Face Images Matching with Siamese Network	3rd International Conference and Workshops on Recent Advances and Innovations in Engineering, ICRAIE 2018	Joshi J.C., Gupta A., Tiwari K., Gupta K.K.	SCS GSC	International
14	Measurement of IEEE 802.11p Performance for Basic Safety Messages in Vehicular Communications	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	Rajput N.S.	SCS GSC	International
15	Improving Performance of UPQC-DG for Compensation of Unbalanced Loads	India International Conference on Power Electronics, IICPE	Patel A., Mathur H.D., Bhanot S.	SCS GSC	International
16	Analysis of sustainable machining process: A multicriteria decision making approach	AIP Conference Proceedings Vol_No 2104	Wankhede S., Digalwar A.K., Wankhede S.P.	SCS WOS GSC	International

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17	Background modeling for HEVC compressed videos using radial basis network	Proceedings of the 2019 IEEE International Conference on Communication and Signal Processing, ICCSP 2019 P_Page 40	Samaiya D., Joshi A., Gupta K.K.	SCS IEEE GSC	International
18	Product Discovery over HTTP Interface via Web Finger Printing	Proceedings - 2018 4th International Conference on Computing, Communication Control and Automation, ICCUBEA 2018	Chopker M.K.	SCS GSC	International
19	Dynamic lightpath protection through intelligent water drops based algorithm in optical networks	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018 P_Page 1127	Tyagi D.K., Chaubey V.K., Khandelwal P.	SCS GSC	International
20	Application of IoT to optimize data center operations	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018 P_Page 742	Mehta G., Mittra G., Yadav V.K.	SCS GSC	International
21	Experimental Evaluation of Multi-Robot Online Terrain Coverage Approach	2018 IEEE International Conference on Robotics and Biomimetics, ROBIO 2018 P_Page 1189	Gautam A., Richhariya A., Shekhawat V.S., Mohan S.	SCS IEEE GSC	International
22	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	Telang S.	SCS GSC	International
23	Classification and re-identification of fruit fly individuals across days with convolutional neural networks	Proceedings - 2019 IEEE Winter Conference on Applications of Computer Vision, WACV 2019 P_Page 578	Murali N., Schneider J., Levine J.D., Taylor G.W.	SCS WOS IEEE GSC	International
24	Development of a Novel Strategy with Electrical Vehicles to Mitigate Frequency Aberration in Microgrid	2nd International Conference on Energy, Power and Environment: Towards Smart Technology, ICEPE 2018	Maslekar S., Venkatesh R., Kumar D., Mathur H.D.	SCS WOS GSC	International
25	Objective quality assessment of 2D synthesized views for light-field visualization	2018 International Conference on 3D Immersion, IC3D 2018 - Proceedings	Tamboli R.R., Kara P.A., Bisht N., Barsi A., Martini M.G., Jana S.	SCS WOS GSC	International
26	Review of graph processing frameworks	IEEE International Conference on Data Mining Workshops, ICDMW P_Page 1005	Kumar R., Bhatia S.	SCS WOS IEEE GSC	International
27	Extracting addresses from unstructured text using bi-directional recurrent neural networks	IEEE International Conference on Data Mining Workshops, ICDMW P_Page 1513	Srivastava S.	SCS WOS IEEE GSC	International
28	Pattern-based automatic parallelization of representative-based clustering algorithms	Proceedings - 2018 IEEE 5th International Conference on Data Science and Advanced Analytics, DSAA 2018 P_Page 108	Islam S., Balasubramaniam S., Gupta S., Brajesh S., Badlani R., Labhishetty N., Baid A., Goyal P., Goyal N.	SCS WOS IEEE GSC	International
29	AnySC: Anytime Set-wise Classification of Variable Speed Data Streams	Proceedings - 2018 IEEE International Conference on Big Data, Big Data 2018 P_Page 974	Challa J.S., Goyal P., Giri V.M., Mantri D., Goyal N.	SCS IEEE GSC	International
30	MOOC-O-Bot: Using Cognitive Technologies to Extend Knowledge Support in MOOCs	Proceedings of 2018 IEEE International Conference on Teaching, Assessment, and Learning for Engineering, TALE 2018 P_Page 76	Mitral A., Vigentini L., Djatmiko M., Prusty G., Sharma Y., King M.E.	SCS IEEE GSC	International
31	A Comparative Study of Pulse Triggered Flipflops	Proceedings of the 4th International Conference on Devices, Circuits and Systems, ICDCS 2018 P_Page 41	Gupta N., Goyal P., Kandpal K., Teja K.B.R.	SCS WOS GSC	International
32	Lattice Specific Heat of Graphene	Proceedings of the 4th International Conference on Devices, Circuits and Systems, ICDCS 2018 P_Page 188	Sahoo R., Mishra R.R.	SCS GSC	International
33	Internet of Things (IoT): A Relief for Indian Farmers (Stage II)	GHTC 2018 - IEEE Global Humanitarian Technology Conference, Proceedings	Usman A., Verma N.K.	SCS IEEE GSC	International

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34	Spatial image steganalysis based on ResNeXt	International Conference on Communication Technology Proceedings, ICCT P_Page 1216	Sharma A., Muttoo S.K.	SCS GSC	International
35	The influence of manufacturing plant site selection on environmental impact of machining processes	Procedia CIRP Vol_No 80 P_Page 191	Sihag N., Leiden A., Bhakar V., Thiede S., Sangwan K.S., Herrmann C.	SCS GSC	International
36	Development of a sustainability assessment index for machine tools	Procedia CIRP Vol_No 80 P_Page 161	Sihag N., Sangwan K.S.	SCS GSC	International
37	Environment and economic impacts assessment of PET waste recycling with conventional and renewable sources of energy	Procedia CIRP Vol_No 80 P_Page 427	Choudhary K., Sangwan K.S., Goyal D.	SCS GSC	International
38	Multi-objective optimization for energy efficient machining with high productivity and quality for a turning process	Procedia CIRP Vol_No 80 P_Page 72	Sangwan K.S., Sihag N.	SCS GSC	International
39	Differential power analysis immune design of FinFET based novel differential logic gate	Proceedings - IEEE International Symposium on Circuits and Systems	Saini H.S., Gupta A.	SCS IEEE GSC	International
40	Implementation of a cyber-physical cooling storage station in a learning factory	Procedia Manufacturing Vol_No 31 P_Page 147	Vogt M., Uhlig B., Sangwan K.S., Herrmann C., Thiede S.	SCS WOS GSC	International
41	Electrical Characterization of PVA-MgSO 4 and PVA-Li 2 SO 4 Polymer Salt Composite Electrolytes	Materials Today: Proceedings Vol_No 10 P_Page 111	Rathore M., Dalvi A.	SCS WOS GSC	International
42	HFDSegnet: Holistic and generalized finger dorsal ROI segmentation network	ICPRAM 2019 - Proceedings of the 8th International Conference on Pattern Recognition Applications and Methods P_Page 793	Jaswal G., Patil S., Tiwari K., Nigam A.	SCS	International
43	Learning domain specific features using convolutional autoencoder: A vein authentication case study using siamese triplet loss network	ICPRAM 2019 - Proceedings of the 8th International Conference on Pattern Recognition Applications and Methods P_Page 785	Agnihotri M., Rathod A., Thapar D., Jaswal G., Tiwari K., Nigam A.	SCS GSC	International
44	Development of gan hemts based biosensor	Springer Proceedings in Physics Vol_No 215 P_Page 229	Chaturvedi N., Mishra S., Dhakad S., Sharma N., Singh K., Chaturvedi N., Taliyan R., Chauhan A., Kharbanda D.K., Khanna P.K.	SCS GSC	International
45	Design and simulation of soi-isfet macromodel using spice	Springer Proceedings in Physics Vol_No 215 P_Page 796	Padhye M., Sinha S., Sharma R., Mukhiya R.	SCS GSC	International
46	Algan/gan hemt based ph sensor	Springer Proceedings in Physics Vol_No 215 P_Page 899	Sharma N., Dhakad S., Singh K., Chaturvedi N., Chauhan A., Periasamy C., Chaturvedi N.	SCS GSC	International
47	A Study on Robustness of Articulatory Features for Automatic Speech Recognition of Neutral and Whispered Speech	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings P_Page 5940	Srinivasan G., Illa A., Ghosh P.K.	SCS IEEE GSC	International
48	Demonstration of Dichroic Atomic Vapor Laser Lock in Micro Fabricated Vapor Cell Using Light Induced Atomic Desorption	2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings	Talker E., Arora P., Zektzer R., Barash Y., Mazurski N., Sebbag Y., Levy U.	SCS GSC	International
49	Demonstration of dichroic atomic vapor laser lock in micro fabricated vapor cell using light induced atomic desorption	Optics InfoBase Conference Papers	Talker E., Arora P., Zektzer R., Barash Y., Mazurski N., Sebbag Y., Levy U.	SCS GSC	International
50	Excitation amplitude/phase sensitivity in circularly polarized hexagonal S-band antenna	2019 URSI Asia-Pacific Radio Science Conference, AP-RASC 2019	Joshi A., Singhal R.	SCS GSC	International
51	Multiagent Autonomous Learning for Distributed Channel Allocation in Wireless Networks	IEEE Workshop on Signal Processing Advances in Wireless Communications, SPAWC	Zafaruddin S.M., Bistritz I., Leshem A., Niyato D.	SCS IEEE GSC	International
52	Narrowband and Wideband Directional Beamformer with Reduced Side Lobe Level	2019 International Conference on Data Science and Communication, IconDSC 2019	Rodrigues J., Lonappan L., Menon D., Gudino L.J.	SCS GSC	International

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53	Nash Bargaining Solution for Cooperative Relaying Exploiting Energy Consumption	IEEE Workshop on Signal Processing Advances in Wireless Communications, SPAWC	Plachy J., Becvar Z., Zafaruddin S.M., Leshem A.	SCS IEEE GSC	International
54	PWOC-3D: Deep occlusion-aware end-to-end scene flow estimation	IEEE Intelligent Vehicles Symposium, Proceedings P_Page 331	Saxena R., Schuster R., Wasenmüller O., Stricker D.	SCS IEEE GSC	International
55	The Leap Speaker Recognition System for NIST SRE 2018 Challenge	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings P_Page 5775	Ramoji S., Mohan A., Mysore B., Bhatia A., Singh P., Vardhan H., Ganapathy S.	SCS IEEE GSC	International
56	A study of applications based on elliptic curve cryptography	Proceedings of the International Conference on Trends in Electronics and Informatics, ICOEI 2019 P_Page 254	Dua A., Dutta A.	SCS GSC	International
57	Decentralized Frequency Control for an Isolated Microgrid using Nature Inspired Algorithms	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	Sawarni A., Dhamane K., Kumar D., Mathur H.D.	SCS IEEE GSC	International
58	Design and Simulation of Dielectric-Modulated Field-Effect Transistor for Biosensing Applications	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	Aggarwal A., Sharma S., Chaubey V.K., Sinha S.	SCS IEEE GSC	International
59	Hyperbolic Metamaterial based Active Tunable Compact THz Source	International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz	Pareek N., Sirkar N., Bera A.	SCS GSC	International
60	Investigation of back gate effects on the electrical characteristics of fully-depleted silicon-on-insulator MOSFET	IEMECON 2019 - 9th Annual Information Technology, Electromechanical Engineering and Microelectronics Conference P_Page 80	Garg M., Chaubey V.K., Sinha S.	SCS GSC	International
61	On optimizing distributed non-negative Tucker decomposition	Proceedings of the International Conference on Supercomputing P_Page 249	Chakaravarthy V.T., Pandian S.S., Raje S., Sabharwal Y.	SCS GSC	International
62	Surimi value chain in India: A strategy for improved resource utilization	ICR2019 â€" The 25th IIR International congress of refrigeration P_Page 8	Srikanta Routroy., Mani Sankar Dasgupta., Maitri Thakur., Kristina N Widell., Souvik Bhattacharyya		International
63	PRESSURE GRADIENT METHOD TO RESOLVE WATER FLOODING IN PEMFC	Procedings of EFC2019 European Fuel Cell Technology and Application Conference Piero Lunghi Conference P_Page 2	Ajit Bhambure., Mahesh Vaze	GSC	International
64	JavaRelationshipGraphs (JRG): Transforming Java Projects into Graphs using Neo4j Graph Databases	ICSIM 2019 Proceedings of the 2nd International Conference on Software Engineering and Information Management P_Page 84	Ritu Arora., Sanjay Goel	SCS GSC	International
65	A Rapid Prototyping Approach for High Performance Density-Based Clustering	IEEE International Conference on Data Science and Advanced Analytics (DSAA) P_Page 269	Saiyedul Islam.,Sundar Balasubramaniam.,Poonam Goyal.,Ankit Sultana.,Lakshit Bhutani.,Saurabh Raje.,Navneet Goyal.	IEEE GSC	International
66	Performing Memristor-Aided Logic (MAGIC) using STT-MRAM	26th IEEE International Conference on Electronics, Circuits and Systems (ICECS) P_Page 790	Jeffry Louis.,Barak Hoffer.,Shahar Kvatinsky.	IEEE GSC	International
67	Electric Vehicle Impact Analysis in a Microgrid Using Optimized Bio-Inspired Non-Integer Controller	2019 IEEE Region 10 Symposium (TENSYMP) P_Page 22	Shraddha Maslekar., Rohit Venkatesh.,Dhananjay Kumar.,Hitesh Datt Mathur.,Houria Siguerdidjane.	IEEE GSC	International
68	Multiclass Fake News Detection using Ensemble Machine Learning	2019 IEEE 9th International Conference on Advanced Computing (IACC) P_Page 107	Rohit Kumar Kaliyar.,Anurag Goswami.,Pratik Narang.	IEEE GSC	International
69	Analysis of Factors Influencing Negative e-Word of Mouth in Online Social Media Marketing	Proceedings of the 2019 3rd International Conference on Software and e-Business P_Page 198	Nirankush Dutta.,Ayush Verma.,Anil Kumar Bhat.	GSC	International

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70	Softmax Coaxial Gaussian Track Code for Fingerprint Indexing	Proceedings of the ACM India Joint International Conference on Data Science and Management of Data P_Page 329	Geetika Arora., Tanvi Aggarwal., Kamlesh Tiwari	SCS GSC	International
71	Cross-Polarization Reduction of a Cylindrical Dielectric Resonator Antenna with Parasitic Strip Loading	2018 International Conference on Signal Processing and Communications (SPCOM)	A.V. Praveen Kumar., Anuj Kumar Ojha	SCS GSC	International
72	In-Loop Simulation of Attitude Control of a Nanosatellite	2019 IEEE Aerospace Conference P_Page 9	Vatsal Jignesh Badami., Kushagra Aggarwal., Tushar Goyal., Saurabh Manish Raie., Shubham Sharma	SCS IEEE GSC	International
73	Simulator for Functional Verification and Validation of a Nanosatellite	2019 IEEE Aerospace Conference P_Page 8	Tushar Goyal., Kushagra Aggarwal	SCS IEEE GSC	International
74	A Graph Theoretical Approach for Creating Building Floor Plans	International Conference on Computer-Aided Architectural Design Futures Vol_No 1028 P_Page 14	Krishnendra Shekhawat ., Pinki., Jose P Duarte	SCS GSC	International
75	A Brief Review of Structural Aspects of IS 16700:2017	Lecture Notes in Civil Engineering Vol_No 38 P_Page 91	Vikalp Gupta., Sanket Rawat., Ravi Kant Mittal ., Muthukumar G	SCS GSC	International
76	A Relook on Dosage of Basalt Chopped Fibres and Its Influence on Characteristics of Concrete	Lecture Notes in Civil Engineering Vol_No 38 P_Page 248	Sanket Rawat., Nitant Upasani., Muthukumar G ., Rahul Narula	SCS GSC	International
77	Semantic Segmentation Based Earthquake Damage Assessment of Built Environment	28th International Joint Conference on Artificial Intelligence	Dhananjay Nahata., Harish Mulchandani., Prateek Dusad	GSC	International
78	Bloom Filter Based Efficient Caching Scheme for Content Distribution in Vehicular Networks	2019 IEEE International Conference on Communications Workshops (ICC Workshops)	Neeraj Kumar., Amit Dua ., Megha Shishodia., Gagangeet Singh Aujla	SCS WOS IEEE GSC	International
79	SmartChain: A Smart and Scalable Blockchain Consortium for Smart Grid Systems	2019 IEEE International Conference on Communications Workshops (ICC Workshops)	Amit Dua ., Gagangeet Singh Aujla., Maninderpal Singh., Neeraj Kumar., Gaurang Bansal	SCS WOS IEEE GSC	International
80	BlockCom: A Blockchain Based Commerce Model for Smart Communities using Auction Mechanism	2019 IEEE International Conference on Communications Workshops (ICC Workshops)	Vikas Hassija., Vinay Chamola ., Biplab Sikdar., Gaurang Bansal., Vikas Saxena	SCS WOS IEEE GSC	International
81	Hand-held stiffness measurement device for tissue analysis	Hamlyn Symposium on Medical Robotics 2019	R. A. Srivatsan., N. Zevallos., A. N. Chaudhury., T. A. Zodage., H. Choset	GSC	International
82	ANALYSIS OF CHARGING PROCESS IN SI ENGINE & CI ENGINE AND APPLICATION OF SUPERCHARGER	International Award Conference on Multi Disciplinary Research and Application P_Page 10	Rakesh Kumar Sen., Rohan Kumar Sharma., Shobit Sharma	GSC	International
83	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 31	Shibasish Chowdhury ., Parva K Sharma	SCS IEEE GSC	International
84	Design and Development of Game Based Evaluation andLearning (GABEL) for Applied Thermodynamics course forActive Learning	Proceedings of the International Conference on Industrial Engineering and Operations Management P_Page 3678	Manoj Kumar Soni., Tamali Bhattacharya	SCS GSC	International
85	Beam Convergence in Antenna Pattern using Conical and Hemispherical Dielectric Lens	2018 IEEE Indian Conference on Antennas and Propogation (InCAP) P_Page 5	Abhishek Joshi., Rahul Singhal	SCS IEEE GSC	National
86	Multilayer Graphene Oxide as an Active Layer in Silicon Heterojunction Solar Cell	2018 IEEE Electron Devices Kolkata Conference (EDKCON) P_Page 366	Sumitra Singh., Navneet Gupta ., Pramila Mahala	SCS IEEE GSC	International
87	Analysis of Different Gate Dielectric Materials in Carbon Nanotube Field Effect Transistor (CNFET) Using Optimization Technique	2018 IEEE Electron Devices Kolkata Conference (EDKCON) P_Page 357	Ankita Dixit., Navneet Gupta	SCS IEEE GSC	International

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88	Investigations on Infrared(IR) Sensitive Material for Microbolometer Using Material Selection Approaches	2018 IEEE Electron Devices Kolkata Conference (EDKCON) P_Page 353	Dev Gupta., Navneet Gupta	SCS IEEE GSC	International
89	Device Modeling of Double Layered TiO2 Nanotube Array Based Resistive Vapor Sensor	2018 IEEE Electron Devices Kolkata Conference (EDKCON) P_Page 5	Arnab Hazra	SCS IEEE GSC	International
90	Design Analysis and Simulations of Components of an All-Terrain Vehicle	International Conference on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility	Pranjal Shukla., Konark Joshi., Utkarsh Rastogi., Ajith Reddy Moola	SCS GSC	International
91	Empirical Model of Surface Potential and Simulation Analyses for ZnO TFTs	Devices for Integrated Circuit P_Page 225	Anirudh Aggarwal., Rupam Goswami ., Kavindra Kandpal	SCS GSC	International
92	FAID: Feature Aftermath for Irony Discernment	2019 9th International Conference on Cloud Computing, Data Science & Engineering P_Page 680	Rupal Bhargava., Ayushi Agarwal., Yashvardhan Sharma	SCS IEEE GSC	International
93	Detection of Cervical Cancer using GLCM and Support Vector Machines	2018 6th Edition of International Conference on Wireless Networks & Embedded Systems P_Page 53	Kaustubh Butte., Shalini Nehra., Jagdish Lal Raheja., Ameya Zope	SCS IEEE GSC	International
94	Doubly Constrained Underlay Cognitive Radio System: Optimization and Analysis	2019 European Conference on Networks and Communications (EuCNC) P_Page 548	Aniruddha Paturkar., Sainath Bitragunta., Vibhuti Goel	SCS IEEE GSC	International
95	A CMOS/MTJ Based Novel Non-volatile SRAM Cell with Asynchronous Write Termination for Normally OFF Applications	International Symposium on VLSI Design and Test Vol_No 1066 P_Page 564	Kanika Monga	SCS GSC	International
96	A Novel Microfluidic Platform for Label-Free 3D Imaging of Biological Cells	20th International Conference on Solid-State Sensors, Actuators and Microsystems & Eurosensors XXXIII (TRANSDUCERS & EUROSENSORS XXXIII) P_Page 723	Saransh Arora., Prosenjit Sen., Gondi K Ananthasuresh., Rahul Singh Kotesa	SCS IEEE GSC	International
97	DNS Amplification Based DDoS Attacks in SDN Environment: Detection and Mitigation	IEEE 4th International Conference on Computer and Communication Systems (ICCCS) P_Page 478	Rakhee Kulshrestha., Vishal Gupta., Amrit Kochar., Shail Saharan	SCS IEEE GSC	National
98	Glaucoma diagnosis using transfer learning methods	Applications of Machine Learning Vol_No 11139	Sourya Sengupta., Vasudevan Lakshminarayanan., Amitojdeep Singh	SCS GSC	International
99	Genetic Algorithm to Optimize Solid Waste Collection	Proceedings of the 3 rd International Conference of Recent Trends in Environmental Science and Engineering	Kapil Bhargava., Rajiv Gupta., Anupam Singhal., Ajay Shrinivas	GSC	International
100	A Study on Application of Pickling Sludge in Pavements Tiles	Proceedings of the 3rd International Conference of Recent Trends in Environmental Science and Engineering P_Page 9	Anuradha Devi., Rajiv Gupta., Anupam Singhal., Sanjay Kumar Verma	GSC	International
101	An Efficient Singularity Detector Network for Fingerprint Images	Advances in Intelligent Systems and Computing P_Page 518	Geetika Arora., C Jinshong Hwang., Kamlesh Tiwari., Phalguni Gupta	SCS GSC	International
102	Big Data Security Challenges and Preventive Solutions	Advances in Intelligent Systems and Computing P_Page 299	Nirmal Kumar Gupta., Mukesh Kumar Rohil	SCS GSC	International
103	Fading-Averaged Symbol Error Probability Analysis of Full Duplex Amplify-and-Forward Relaying over Rayleigh Fading Channels	Twenty Fourth National Conference on Communications P_Page 6	Rahul Shrotey., Gaurav Sharma., Sainath Bitragunta	SCS IEEE GSC	International
104	A Comparative Study of Noise Cancellation Using Least Mean Squares Adaptive Filter and Recurrent Neural Network Filter	2nd International Conference on Power, Energy and Environment: Towards Smart Technology P_Page 6	Rohitkumar Arasanipalai., Sainath Bitragunta ., Aakriti Agrawal	SCS IEEE GSC	International
105	Optimizing Fading-Averaged Bandwidth Efficiency of Underlay Cognitive Radio System by Transmit Power Adaptation	2019 11th International Conference on Communication Systems and Networks P_Page 7	Sainath Bitragunta ., Rakshith S., Anubhav Sachan	SCS IEEE GSC	International
106	Performance Modelling of PV Generation with Inverter Level Data Through Internet of Photovoltaics (IoPV) Using	2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE)	Rajneesh Kaushal., Vikrant Sharma., Rajneesh Kumar ., Subrahmanyam	SCS IEEE GSC	International

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	Artificial Neural Networks (ANN)		Pulipaka., Prasidh Kumar., Sanjay Kumar		
107	Numerical investigation of a hybrid (Cu-Alumina) nanofluid cooled double pipe gas cooler for a trans-critical CO2 refrigeration system	International Conference ICNBL-2019	Mani Sankar Dasgupta ., Nilesh Purohit., Santosh Kumar Saini		National
108	Adaptive Radial Basis Functions Neural Network For Motor Imagery Task Classification	2019 Twelfth International Conference on Contemporary Computing (IC3)	Vandana Agarwal	SCS IEEE GSC	International
109	A Decision Making Framework for Condition Evaluation of Airfield Pavements Using Non-Destructive Testing	Airfield and Highway Pavements 2019 P_Page 353	Vidhi Vyas., Ajit Pratap Singh., Anshuman Srivastava	SCS GSC	International
110	Analysis of Course Content Development using PedagogicFramework â€" A Case Study	Proceedings of the International Conference on Industrial Engineering and Operations Management P_Page 3672	Manoj Kumar Soni., Tamali Bhattacharyya., Bani Bhattacharya	SCS GSC	International
111	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	Manoj Kumar Soni., Sunil		National
112	SEDTWik: Segmentation-based Event Detection from Tweets usingWikipedia	Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Student Research Workshop P_Page 85	Keval M. Morabia., Neti Lalita Bhanu Murthy., Aruna Malapati., Surender S. Samant	GSC	International
113	Surface Modified Carbon Fibre Reinforced PA6 and its Blend-Based Composites	Lecture Notes in Mechanical Engineering P_Page 767	Anurag R. Patil., S. Aparna., D. Purnima	SCS GSC	International
114	Implementation of CCSDS Hyperspectral Image Compression Algorithm on FPGA on board a nanosatellite	8th European Conference For Aeronautics and Aerospace Sciences (EUCASS) P_Page 9	Neelanchal Joshi., Parth Kalgaonkar	GSC	International
115	How high performing are Indian organizations in comparison with Asian organizations?	British Academy of Management Conference	Neetu Yadav., André de Waal	GSC	International
116	Î¼DBSCAN: An Exact Scalable DBSCAN Algorithm for Big Data Exploiting Spatial Locality	2019 IEEE International Conference on Cluster Computing (CLUSTER)	Aditya Sarma., Poonam Goyal., Sonal Kumari., Anand Wani., Jagat Sesh Challa., Saiyedul Islam., Navneet Goyal	SCS IEEE GSC	International
117	Transport Phenomenon of Simultaneously Developing Flow and Heat Transfer in Twisted Sinusoidal Wavy Microchannel under Pulsating Inlet Flow Condition	E3S Web of Conferences Vol_No 128 Issue_No 1011	Suvanjan Bhattacharyya., Sampad Gobinda Das., Himadri Chattopadhyay., Ali Cemal Benim., M A Moghimi	SCS GSC	International
118	Remote Control of an Embedded Environment using Target Communication Framework Protocol	3rd International Conference on Trends in Electronics and Informatics (ICOEI) P_Page 646	Ramanath M Nithya., P Supriya., Sanjay Sridhar	SCS IEEE GSC	International
119	Text-Based Joint Prediction of Numeric and Categorical Attributes of Entities in Knowledge Bases	Proceedings of Recent Advances in Natural Language Processing P_Page 1202	V Thejas., Abhijeet Gupta., Sebastian Pad	SCS GSC	International
120	A Graph Partitioning Approach for Fast Exploration with Multi-Robot Coordination	2019 IEEE International Conference on Systems, Man and Cybernetics (SMC) P_Page 465	Avinash Gautam., Virendra Singh Shekhawat., Sudeept Mohan	SCS IEEE GSC	International
121	Deep Fade Event's Probability Performance Analysis of Non-Orthogonal Multiple Access Scheme Realization in Power Domain	TENCON 2019 - 2019 IEEE Region 10 Conference P_Page 154	Sainath Bitragunta	IEEE GSC	International
122	A Multilayer Perceptron approach to track Maximum Power in Wind Power Generation Systems	TENCON 2019 - 2019 IEEE Region 10 Conference P_Page 591	Sahitya Tahiliani., Siddarth Sreeni., C Balakrishna Moorthy	IEEE GSC	International
123	Development of a novel controller for DC-DC boost converter for DC Microgrid	TENCON 2019 - 2019 IEEE Region 10 Conference P_Page 1129	Hiramnay Samanta., Moumita Pramanik., Abhijit Das., Ankur Bhattacharjee., Konika Das Bhattacharya., Nirmal Kumar Deb., Samarjit Sengupta.,	IEEE GSC	International

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124	Trustless Two-Factor Authentication Using Smart Contracts in Blockchains	2019 International Conference on Information Networking (ICOIN)	Varun Amrutiya., Siddhant Jhamb., Pranjal Priyadarshi., Ashutosh Bhatia	SCS GSC	International
125	Assessment of Transient Extractable Power from Puga Geothermal Field using Neural Network Model	PROCEEDINGS, 44th Workshop on Geothermal Reservoir Engineering P_Page 11	Harish Puppala., Shibani K Jha	GSC	International
126	System Dynamics Approach for the Assessment of Leanness of Organizations	2018 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM) P_Page 1410	A. K. Digalwar; A. Bedekar; M. Agrawal	SCS WOS IEEE GSC	International
127	Substrate size selection of microstrip-fed cylindrical dielectric resonator antennas for lowering the cross-polarisation	IET Microwaves, Antennas & Propagation Vol_No 13 Issue_No 2 P_Page 251	Anuj Kumar Ojha., Praveen Kumar Ambattu Vijayaraghavan	WOS GSC	International
128	Exploring Rural Road Impacts Using Fuzzy Multi-criteria Approach	In Advances in Transportation Engineering: Select Proceedings of TRACE 2018 P_Page 12	Ajit Pratap Singh., Makrand Wagale., A. K. Sarkar	SCS GSC	International
129	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 Issue_No 1	Kedar Patil., Periaswamy Srinivasan	SCS GSC	International
130	Space lower bounds for graph stream problems	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) P_Page 646	Verma P.	SCS GSC	International
131	An Efficient Message Transmission and Verification Scheme for VANETs	Lecture Notes in Computer Science Vol_No 11969 P_Page 143	Kunal Bajaj., Trupil Limbasiya., Debasis Das	GSC	International
132	A Fast Handoff Technique for Wireless Mobile Networks	Lecture Notes in Computer Science P_Page 259	Debasis Das	SCS GSC	International
133	Modeling and Analysis of Metamaterial-Based Antenna for Wi-Fi and WLAN Applications	Lecture Notes in Electrical Engineering P_Page 173	Amrithaa Seshadri., Navneet Gupta	SCS GSC	International
134	Analysis of graphene/SiO2/p-Si Schottky Diode by currentââ,¬â€œvoltage and impedance measurements	Lecture Notes in Electrical Engineering Vol_No 526 P_Page 589	Mahala P., Dixit A., Gupta N.	SCS GSC	International
135	Reducing efficiency droop for si-doped barrier model of GaN/InGaN multi-quantum well light-emitting diode by designing electron blocking layer	Lecture Notes in Electrical Engineering Vol_No 526 P_Page 571	Mahala P., Goyal A.K., Singh S., Pal S.	SCS GSC	International
136	Formula SAE power increment	Lecture Notes in Mechanical Engineering P_Page 256	Singh J., Sankaram M.V.N., Naranje V., Salunkhe S.	SCS GSC	International
137	Colonization of Eggplant by Endophytic Bacteria Antagonistic to Ralstonia solanacearum, the Bacterial Wilt Pathogen	Proceedings of the National Academy of Sciences, India Section B: Biological Sciences P_Page 9	Gauri A. Achari., R. Ramesh	SCS GSC	National
138	Single Ended and Differential Passive RF Impedance Tuners for 2.4 GHz ISM Band Applications	Midwest Symposium on Circuits and Systems P_Page 829	Krishna R., Kumar A., Aniruddhan S.	SCS GSC	International
139	Fuzzy-based machine learning algorithm for intelligent systems	Advances in Intelligent Systems and Computing Vol_No 808 P_Page 339	Pradheep Kumar K.	SCS GSC	International
140	Analysis of Transfer and Residual Learning for Detecting Plant Diseases Using Images of Leaves	Advances in Intelligent Systems and Computing Vol_No 799 P_Page 306	Khandelwal I., Raman S.	SCS GSC	International
141	An efficient fingerprint matching using continuous minutiae template learning	Advances in Intelligent Systems and Computing Vol_No 760 P_Page 298	Tiwari K., Kaushik V.D., Gupta P.	SCS GSC	International
142	An Efficient Detection of Malware by Naive Bayes Classifier Using GPGPU	Advances in Intelligent Systems and Computing Vol_No 924 P_Page 262	Sahay S.K., Chaudhari M.	SCS GSC	International

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143	A deep learning approach for molecular crystallinity prediction	Advances in Intelligent Systems and Computing Vol_No 939 P_Page 225	Sharma A., Khungar B.	SCS GSC	International
144	DEA Model for Exogenously Fixed Variables Under Fuzzy Environment	Advances in Intelligent Systems and Computing P_Page 901	Shivi Agarwal., Trilok Mathur	SCS GSC	International
145	Self-balancing of a Bike Using Gyroscopic Force and PID Controller	Advances in Intelligent Systems and Computing P_Page 817	Animesh Jain., Satyam Bhaskar., Kunal Nandanwar., Hari Om Bansal	SCS GSC	International
146	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	Hari Om Bansal., Dheerendra Singh., Krishna veer Singh., Ravinder Kumar	SCS GSC	International
147	Review Analysis of Single-Electron Transistor	Advances in Intelligent Systems and Computing Vol_No 989 P_Page 983	Raghav Bansal	SCS GSC	International
148	Hierarchy of Sectors in BSE SENSEX for Optimal Equity Investments Using Fuzzy AHP	Advances in Intelligent Systems and Computing Vol_No 989 P_Page 404	Trilok Mathur., Shivi Agarwal., Kocherlakota Satya Pritam	SCS GSC	International
149	Vehicle Speed Determination and License Plate Localization from Monocular Video Streams	Advances in Intelligent Systems and Computing P_Page 277	Akash Sonth., Harshavardhan Settibhaktini., Ankush Chandrakant Jahagirdar	GSC	International
150	Fusions of Palm Print with Palm-Phalanges Print and Palm Geometry	Advances in Intelligent Systems and Computing Vol_No 870 P_Page 560	Purohit H., Ajmera P.K.	SCS GSC	International
151	Li+ NASICON nanocrystallites in ionic glasses: A potential nano composite system for all-solid-state Li+ ion batteries	AIP Conference Proceedings Vol_No 2115	Sharma N., Dalvi A.	SCS GSC	International
152	Novel hybrid composites NaCF3SO3-PEO-NASICON for sodium ion battery applications	AIP Conference Proceedings Vol_No 2115	Singh M.D., Dalvi A.	SCS GSC	International
153	Study of radiation spectra produced during laser induced Thomson scattering in xenon clusters	Proceedings of the International Conference on Advances and Applications in Plasma Physics P_Page 7	Prachi Venkat	SCS GSC	International
154	Secure portable storage drive: Secure information storage	Communications in Computer and Information Science Vol_No 839 P_Page 316	Dhiman A., Gupta V., Singh D.	SCS GSC	International
155	KarmaNet: SDN solution to DNS-based denial-of-service	Communications in Computer and Information Science Vol_No 969 P_Page 442	Mittal G., Gupta V.	SCS GSC	International
156	Dynamic Image Networks for Human Fall Detection in 360-degree Videos	Communications in Computer and Information Science P_Page 78	Saurav S., Madhu Kiran T.N.D., Sravan Kumar Reddy B., Sanjay Srivastav K., Singh S., Saini R.	SCS GSC	International

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1	Preface	ACM International Conference Proceeding Series	Reddy Y.R., Varma V., Cleland J.H., Bellur U., Sengupta S., Sharma N., Loganathan R., Sharma R., Sarkar S.	SCS WOS	International
2	Image Captioning-Based Image Search Engine: An Alternative to Retrieval by Metadata	Soft Computing for Problem Solving P_Page 191	Sethurathienam Iyer., Shubham Chaturvedi., Tirtharaj Dash	SCS GSC	International
3	Study of Remote Lab Growth to Facilitate Smart Education in Indian Academia	International Conference on Remote Engineering and Virtual InstrumentationREV 2018: Smart Industry & Smart Education P_Page 700	Nithin Janardhan., Amrutha Desai., Venkata Vivek Gowripeddi., Kalyan Ram Bhimavaram., J. Pavan., Shubham Mohapatra., Apurva Shrikhar., C. R. Yamuna Devi	SCS GSC	International

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4	Brain-computer interface based home automation system for paralysed people	2018 IEEE Recent Advances in Intelligent Computational Systems, RAICS 2018 P_Page 233	Bhemjibhaih D.P., Sanjay G.D., Sreejith V., Prakash B.	SCS IEEE GSC	International
5	A Compact High Gain Partial Ground Plane Monopole Antenna for WLAN Application	2018 Conference on Information and Communication Technology, CICT 2018	Yadav M.V., Baudha S.	SCS GSC	National
6	A Lightweight Authentication and Communication Protocol in Vehicular Cloud Computing	International Conference on Information Networking P_Page 77	Vasudev H., Das D.	SCS GSC	International
7	Privacy in the Internet of Vehicles: Models, Algorithms, and Applications	International Conference on Information Networking P_Page 83	Poddar M., Ganta S., Swaraj K.R., Das D.	SCS GSC	International
8	Event-Triggered Second Moment Stabilization under Markov Packet Drops	2019 5th Indian Control Conference, ICC 2019 - Proceedings P_Page 118	Bose S., Tallapragada P.	SCS GSC	National
9	An Empirical Evaluation of the COTS Air Pollution Masks in a Highly Polluted Real Environment	2019 11th International Conference on Communication Systems and Networks, COMSNETS 2019 P_Page 848	Balotra A., Maity M., Naik V.	SCS WOS GSC	International
10	Intrusion Detection and Prevention in Software Defined Networking	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	Goyal A., Gupta D.	SCS GSC	International
11	Secure Lightweight Data Transmission Scheme for Vehicular Ad hoc Networks	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	Vasudev H., Das D.	SCS GSC	International
12	Best-Fit containerization as a brokered service	Proceedings - 16th IEEE International Symposium on Parallel and Distributed Processing with Applications, 17th IEEE International Conference on Ubiquitous Computing and Communications, 8th IEEE International Conference on Big Data and Cloud Computing, 11t P_Page 947	Sarkar S., Venkateswaran S.	SCS WOS IEEE GSC	International
13	Metal Oxide Semiconductor-based gas sensor for Acetone sensing	2018 IEEE Nanotechnology Symposium, ANTS 2018	Khodkumbhe A., Nahid M., Saini V., Agarwal A., Prajesh R.	SCS WOS IEEE GSC	International
14	Modified Time-Based Current Mode ADC	IEEE Region 10 Annual International Conference, Proceedings/TENCON P_Page 1345	Pal S., Pal D.	SCS IEEE GSC	International
15	Trust Calculation and Route Discovery for Delay Tolerant Networks	IEEE Region 10 Annual International Conference, Proceedings/TENCON P_Page 1537	Pal N.N., Gaikwad K., Das D.	SCS IEEE GSC	International
16	A Received Signal Strength Based Fall Detection System Using Cognitive Sensing	IEEE Region 10 Annual International Conference, Proceedings/TENCON P_Page 1135	Sharma H., Sachan A., Gupta K., Sreejith V.	SCS IEEE GSC	International
17	Multi-Modal Posture Recognition System for Healthcare Applications	IEEE Region 10 Annual International Conference, Proceedings/TENCON P_Page 376	Sreeni S., Hari S.R., Harikrishnan R., Sreejith V.	SCS IEEE GSC	International
18	Co-Location Resistant Virtual Machine Placement in Cloud Data Centers	Proceedings of the International Conference on Parallel and Distributed Systems - ICPADS P_Page 68	Agarwal A., Duong T.N.B.	SCS GSC	International
19	Appamigo: An efficient middleware to record and control remote users' interactions with their smartphone apps	ACM International Conference Proceeding Series	Vyas P., Patil B., Singh S., Naik V.	SCS WOS GSC	International
20	Samatulyataone: A path based equivalence checker	ACM International Conference Proceeding Series	Bandyopadhyay S., Sarkar D., Mandal C.	SCS GSC	International

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21	Collaborative Neighbor Discovery with Slow Scan for Directional Sensor Networks	2018 28th International Telecommunication Networks and Applications Conference, ITNAC 2018	Sood N., Nagaraju S., Sreejith V., Gudino L.J.	SCS WOS GSC	International
22	Design of Voltage Amplifiers with optimization of Multiple Design Parameters	Proceedings of the 4th International Conference on Devices, Circuits and Systems, ICDCS 2018 P_Page 76	Vitthal P.S., Basak A., Mane P.S.	SCS GSC	International
23	ExploroBOT: Rapid exploration with chart automation	VISIGRAPP 2019 - Proceedings of the 14th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications P_Page 232	McAuley J., Goel R., Matthews T.	SCS GSC	International
24	Authorship identification using recurrent neural networks	ACM International Conference Proceeding Series P_Page 137	Gupta S.T.P., Sahoo J.K., Roul R.K.	SCS GSC	International
25	Privacy preserving synthetic health data	ESANN 2019 - Proceedings, 27th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning P_Page 470	Yale A., Dash S., Dutta R., Guyon I., Pavao A., Bennett K.P.	SCS GSC	International
26	Shakti-MS: A RISC-V processor for memory safety in C	Proceedings of the ACM SIGPLAN Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES) P_Page 32	Das S., Harikrishnan Unnithan R., Menon A., Rebeiro C., Veezhinathan K.	SCS GSC	International
27	Use of machine learning to detect causes of unnecessary active scanning in WiFi networks	20th IEEE International Symposium on A World of Wireless, Mobile and Multimedia Networks, WoWMoM 2019	Fulara H., Singh G., Jaisinghani D., Maity M., Chakraborty T., Naik V.	SCS IEEE GSC	International
28	AES: Automated evaluation systems for computer programing course	ICSOFT 2019 - Proceedings of the 14th International Conference on Software Technologies P_Page 513	Shivam, Goswami N., Baths V., Bandyopadhyay S.	SCS GSC	International
29	Analysis of QoE for Adaptive Video Streaming over Wireless Networks with User Abandonment Behavior	IEEE Wireless Communications and Networking Conference, WCNC	El-Azouzi R., Acharya K.V., Poojary S., Sunny A., Haddad M., Altman E., Tsilimantos D., Valentin S.	SCS IEEE GSC	International
30	An efficient opportunistic routing algorithm in vehicular adhoc networks(VANETs)	2019 2nd International Conference on Advanced Computational and Communication Paradigms, ICACCP 2019	Das D.	SCS GSC	International
31	ConvTimeNet: A Pre-trained Deep Convolutional Neural Network for Time Series Classification	Proceedings of the International Joint Conference on Neural Networks	Kashiparekh K., Narwariya J., Malhotra P., Vig L., Shroff G.	SCS GSC	International
32	Predicting execution time of CUDA kernel using static analysis	Proceedings - 16th IEEE International Symposium on Parallel and Distributed Processing with Applications, 17th IEEE International Conference on Ubiquitous Computing and Communications, 8th IEEE International Conference on Big Data and Cloud Computing, 11t P_Page 955	Alavani G., Varma K., Sarkar S.	SCS IEEE GSC	International
33	FEM Simulation of Interdigitated Electrode Device	Proceedings of the 2019 COMSOL Conference in Bangalore P_Page 1	S Deshpande., Sunil Bhand., Gautam Guruprada Bacher	GSC	National
34	Image Processing for UAV Using Deep Convolutional Encoder–Decoder Networks with Symmetric Skip Connections on a System on Chip (SoC)	International Conference on Intelligent Computing and Smart Communication P_Page 1015	Abhiraj Hinge., Pranav Garg., Neena Goveas.	GSC	International
35	Towards Comprehensible Representation of Controllers using Machine Learning	2019 34th IEEE/ACM International Conference on Automated Software Engineering (ASE) P_Page 1285	Gargi Balasubramaniam.	IEEE GSC	International
36	Improving Safety in	2019 IEEE 17th International	Avijit Mandal., Divyasheel	IEEE	International

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	Collaborative Robot Tasks	Conference on Industrial Informatics (INDIN) P_Page 477	Sharma., Mohak Sukhwani., Raoul Jetley., Santonu Sarkar.	GSC	
37	Sizing techniques for delay optimisation of 4-bit dynamic CMOS Manchester carry chain	International Conference on Vision Towards Emerging Trends in Communication and Networking	Harikrishnan A., Sourabh Sethi	GSC	International
38	Remote Access and Automation of SONIC Analysis System	Lecture Notes in Networks and Systems Vol_No 80 P_Page 848	Nitin Zanvar., Nitin Sharma., Dhawal Patil., Gautam Bacher., Vishwas Apugade., Aswani Barik., Kalyan Ram B., Raman Ramachandran., Venkata Vivek Gowripeddi	SCS GSC	International
39	Remote Enabled Engine Vibration Measurement System	Lecture Notes in Networks and Systems Vol_No 80 P_Page 652	Nitin Sharma., Preeti Biradar., Gautam Bacher., Kalyan Ram B., Naveen Murugan., Pranav Basavraj	SCS GSC	International
40	MADM-Based Approach for Selection of Welding Process for Aluminium Tube Manufacturing	Advanced Engineering Optimization Through Intelligent Techniques Vol_No 949 P_Page 450	Varinder Singh., Ravindra Singh Saluja	SCS GSC	International
41	Design of a Conductive FSS based Ultrathin Absorber Using Impedance Analysis Method of Equivalent Circuit Model	2018 IEEE Indian Conference on Antennas and Propogation (InCAP) P_Page 4	Debidas Kundu., Ajay Chakrabarty., Akhilesh Mohan	SCS WOS IEEE GSC	National
42	Temperature Dependent EM Investigation of Inhomogeneous Dielectric Wall for Application in Ablatable Radome	2018 IEEE Indian Conference on Antennas and Propogation (InCAP) P_Page 5	Hrishikesh Shashikant Sonalikar	SCS IEEE GSC	National
43	Assessment of impacts on tropical marine environment for off-shore clean energy development	Materials Today: Proceedings	Laxminarsimha Chary Kandlakunta., Mukund Keshavrao Deshmukh., Nitin Sharma	GSC	International
44	Sizing techniques for delay optimisation of 4-bit dynamic CMOS Manchester carry chain	International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN)	A Harikrishnan ., Sourabh Seth	GSC	International
45	Integration of Dubbing Constraints into Machine Translation	Proceedings of the Fourth Conference on Machine Translation Vol_No 1 P_Page 101	Timo Baumann., Ashutosh Saboo	GSC	International
46	Sentiment Analysis and Extractive Summarization Based Recommendation System	Computational Intelligence in Data Mining Vol_No 990 P_Page 487	Rajendra Kumar Roul., Jajati Keshari Sahoo	SCS GSC	International
47	Near-Duplicate Document Detection Using Semantic-Based Similarity Measure: A Novel Approach	Computational Intelligence in Data Mining Vol_No 990 P_Page 558	Rajendra Kumar Roul., Jajati Keshari Sahoo	SCS GSC	International
48	Time-Sensitive Provisioning of Bare Metal Compute as a Cloud Service	2019 IEEE 12th International Conference on Cloud Computing (CLOUD) P_Page 451	BITS., Sreekrishnan Venkateswaran., Santonu Sarkar	SCS IEEE GSC	International
49	Experimental analysis of dependency factors of Software Product Reliability using SonarQube	IWSM Mensura IWSM-MENSURA2019	Joshi sanjay L., Bharat Madhusudan Deshpande., Punnekkat Sasikumar	SCS GSC	International
50	Secure communication protocol for smart transportation based on vehicular cloud	Proceedings of the 2019 ACM International Joint Conference on Pervasive and Ubiquitous Computing P_Page 376	Debasis Das., Trupil Limbasiya., Sanjay Kumar Sahay	SCS GSC	International
51	Discrete Stochastic Search and Its Application to Feature-Selection for Deep Relational Machines	Lecture Notes in Computer Science Vol_No 11728 P_Page 45	Tirtharaj Dash., Ashwin Srinivasan., Ramprasad Joshi., BASKAR ANGURAJ	SCS GSC	International

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52	Dependency Parser for Bengali-English Code-Mixed Data enhanced with a Synthetic Treebank	syntaxfest19	Dipti Misra Sharma., simran Khanuja., Urmi Ghosh	GSC	International
53	Assessing privacy and quality of synthetic health data	Proceedings of the Conference on Artificial Intelligence for Data Discovery and Reuse P_Page 4	Andrew Yale., Saloni Dash., Ritik Dutta., Isabelle Guyon., Adrien Pavao., Kristin P Bennett	SCS GSC	International
54	Robust Correlation Clustering	Approximation, Randomization, and Combinatorial Optimization P_Page 18	Ravishankar Krishnaswamy., Nived Rajaraman., Devvrit	SCS GSC	International
55	Subjective Factors Consideration in the Selection of Welding Technique for Welded Tube Manufacturing	Lecture Notes on Multidisciplinary Industrial Engineering P_Page 213	Ravindra Singh Saluja., Varinder Singh	GSC	International
56	Emission Analysis of a Small Capacity Producer Gas Engine at Higher Hydrogen Concentration and Compression Ratios	Lecture Notes in Intelligent Transportation and Infrastructure P_Page 251	M Sreedhar Babu., Shibu Clement., N K S Rajan., Tehsinraza Mulla	GSC	International
57	A Study of Occupant Injuries Classification in Automobile Accidents in Relation to Upper Extremities Bones	Lecture Notes in Intelligent Transportation and Infrastructure P_Page 285	Kedar M Hendre., Kiran Dinkar Mali., Dhananjay Madhukar Kulkarni	GSC	International
58	Parasitic Rectangular Patch Antenna With Variable Shape Ground Plane For Satellite And Defence Communication	URSI Asia-Pacific Radio Science Conference	Manish Varun Yadav., Sudeep Baudha., Shivani Gupta	SCS IEEE GSC	International
59	U-Shaped Microstrip Patch Antenna with Partial Ground Plane for Mobile Satellite Services (MSS)	2019 URSI Asia-Pacific Radio Science Conference (AP-RASC) P_Page 5	Sudeep Baudha., kannan Kapoor., Manish Varun Yadav	SCS IEEE GSC	National
60	Model-Based Approach for Cyber-Physical Systems Applications Development	Pacific Asia Conference on Information Systems	Rizwan Parveen., Poojan Thaker., Neena Goveas	GSC	International
61	MEDIATOR-A Mixed Criticality Deadline Honored Arbiter for Multi-core Real-time Systems	2019 IEEE/ACM 23rd International Symposium on Distributed Simulation and Real Time Applications (DS-RT) P_Page 8	Arun S Nair., Louella Mesquita Colaco., Geeta Patil., Biju K Raveendran., Sasikumar Punnekkatt.	IEEE GSC	International
62	Vehicle Chain: Blockchain-based Vehicular Data Transmission Scheme for Smart City	2019 IEEE International Conference on Systems, Man and Cybernetics (SMC) P_Page 667	Arkil Patel., Naigam Shah., Trupil Limbasiya., Debasis Das	SCS IEEE GSC	International
63	Design of Supplementary Excitation Damping Controller for Mitigation of Subsynchronous Resonance	TENCON 2019 - 2019 IEEE Region 10 Conference (TENCON) P_Page 196	Jaychandran Padayasi., Shashidhara Mecha Kotian	IEEE GSC	International
64	An Energy Efficient Routing Protocol for Small World WSN Using Directional Antennas	TENCON 2019 - 2019 IEEE Region 10 Conference P_Page 2003	Poojan Parikh., Arnav Goel., V Sreejith	IEEE GSC	International
65	A Reinforcement Learning Framework for Container Selection and Ship Load Sequencing in Ports	Proceedings of the 18th International Conference on Autonomous Agents and MultiAgent Systems P_Page 2252	Richa Verma., Sarmimala Saikia., Harshad Khadilkar., Puneet Agarwal., Gautam Shroff., Ashwin Srinivasan	SCS GSC	International
66	ThrustHetero: A Framework to Simplify Heterogeneous Computing Platform Programming using Design Abstraction	ISEC'19 Proceedings of the 12th Innovations on Software Engineering Conference P_Page 11	Ajai V George., Sankar Manoj., Santonu Sarkar	GSC	International
67	RF Harvesting System for Low-Power Applications Using FinFETs	IEEE International Conference on Consumer Electronics P_Page 6	T Nagateja., A Srinivasulu., Dipankar Pal	SCS WOS IEEE GSC	International

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68	MediCloud: Cloud-Based Solution to Patient's Medical Records	International Conference on ISMAC in Computational Vision and Bio-Engineering Proceedings of the International Conference on ISMAC in Computational Vision and Bio-Engineering 2018 (ISMAC-CVB) P_Page 1108	G. B. Praveen., Anita Agrawal., Jainam Shah., Amalin Prince	SCS GSC	International
69	Sensing-throughput tradeoff for superior selective reporting-based spectrum sensing in energy harvesting HCRNs	IEEE Transactions on Cognitive Communications and Networking Vol_No 5 Issue_No 2 P_Page 341	Kishore R., Gurugopinath S., Muhaidat S., Sofotasios P.C., Dobre O.A., Al-Dhahir N.	SCS WOS IEEE GSC	International
70	IoVCom: Reliable Comprehensive Communication System for Internet of Vehicles	IEEE Transactions on Dependable and Secure Computing	Debasis Das., Trupil limbasiya	IEEE GSC	International
71	Fitness-Aware Containerization Service Leveraging Machine Learning	IEEE Transactions on Services Computing P_Page 1	Sreekrishnan Venkateswaran., Santonu Sarkar	GSC	International
72	A new automatic multi-document text summarization using topic modeling	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) P_Page 221	Roul R.K., Mehrotra S., Pungaliya Y., Sahoo J.K.	SCS GSC	International
73	Use of facial landmarks for adaptive compression of videos on mobile devices	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) P_Page 101	Chhikara G., Banerjee R., Naik V., Subramanyam A.V., Dey K.	SCS WOS GSC	International
74	Dolev-Yao Theory with Associative Blindpair Operators	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) P_Page 69	Baskar A., Ramanujam R., Suresh S.P.	SCS GSC	International
75	Secret Sharing Using Near-MDS Codes	Lecture Notes in Computer Science P_Page 214	Sanyam Mehta., Vishal Saraswat., Smith Sen	SCS GSC	International
76	Efficient Searching Over Encrypted Database: Methodology and Algorithms	Lecture Notes in Computer Science P_Page 338	Varad Deshpande., Debasis Das	SCS GSC	International
77	Online monitoring of roof-mounted stand-alone solar photovoltaic system on residential building	Materials Today: Proceedings	Mukund Keshavrao Deshmukh., Athokpam Bharatbushan Singh	GSC	International
78	Contact-based navigation path planning for aerial robots	Proceedings - IEEE International Conference on Robotics and Automation P_Page 4167	Khedekar N., Mascarich F., Papachristos C., Dang T., Alexis K.	SCS IEEE GSC	International
79	An efficient authentication and secure vehicle-to-vehicle communications in an IoV	IEEE Vehicular Technology Conference	Vasudev H., Das D.	SCS IEEE GSC	International
80	Categorizing text data using deep learning: A novel approach	Advances in Intelligent Systems and Computing Vol_No 711 P_Page 805	Roul R.K., Sahay S.K.	SCS GSC	International
81	Document labelling using source-LDA combined with correlation matrix	Advances in Intelligent Systems and Computing Vol_No 711 P_Page 707	Roul R.K., Sahoo J.K.	SCS GSC	International
82	Investigation of RBF Kernelized ANFIS for Fault Diagnosis in Wireless Sensor Networks	Advances in Intelligent Systems and Computing Vol_No 799 P_Page 264	Swain R.R., Dash T., Khilar P.M.	SCS GSC	International
83	Query-optimized pagerank: A novel approach	Advances in Intelligent Systems and Computing Vol_No 711 P_Page 683	Roul R.K., Sahoo J.K., Arora K.	SCS GSC	International
84	Detection of advanced malware by machine learning techniques	Advances in Intelligent Systems and Computing Vol_No 742 P_Page 342	Sharma S., Rama Krishna C., Sahay S.K.	SCS GSC	International
85	An Efficient Detection of Malware by Naive Bayes Classifier Using GPGPU	Advances in Intelligent Systems and Computing Vol_No 924 P_Page 262	Sahay S.K., Chaudhari M.	SCS GSC	International
86	A Survey on the Detection of Android Malicious Apps	Advances in Intelligent Systems and Computing Vol_No 924 P_Page 446	Sahay S.K., Sharma A.	SCS GSC	International

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88	An Improved Pig Latin Algorithm for Lightweight Cryptography	Advances in Intelligent Systems and Computing Vol_No 988 P_Page 365	Sandip Dutta., Sanyukta Sinha	SCS GSC	International
89	Selection of Coating and Nitriding Process for AISI 4140 Steel Material to Enhance Tribological Properties	Advances in Intelligent Systems and Computing Vol_No 949 P_Page 473	S G Dambhare., Pathan Firojkhan., Nikhil Kadam	SCS GSC	International
90	Genetic algorithm-based oversampling technique to learn from imbalanced data	Advances in Intelligent Systems and Computing Vol_No 816 P_Page 397	Saladi P.S.M., Dash T.	SCS GSC	International
91	Microstructural characteristics of boron doped TiO2 nanocrystals	AIP Conference Proceedings Vol_No 2162	Jayadevan K.P., Kerkar S.S.	SCS GSC	International
92	Convolutional feature extraction and neural arithmetic logic units for stock prediction	Communications in Computer and Information Science Vol_No 1045 P_Page 359	Rajaa S., Sahoo J.K.	SCS GSC	International

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1	Functionalized and Enhanced HB Pencil Graphite as Bioanode for Glucose-O2 Biofuel Cell	IEEE Sensors P_Page 9	Madhavi Bandapati., Prakash Rewatkar., Balaji Krishnamurthy., Sanket Goel	SCS WOS IEEE GSC	International
2	Design of software and data analytics for self-powered wireless IoT devices	Proceedings - 2018 IEEE 4th International Symposium on Smart Electronic Systems, iSES 2018 P_Page 123	Cenkeramaddi L.R., Goyal A., Bhuria A., Srinivas M.B., Soumya J.	SCS IEEE GSC	International
3	Sensor data compression based on re-quantization of sensor data	Proceedings - 2018 IEEE 4th International Symposium on Smart Electronic Systems, iSES 2018 P_Page 103	Idsøe H., Cenkeramaddi L.R., Soumya J.	SCS IEEE GSC	International
4	Design, development and deployment of low-cost short-range self-powered wireless IoT devices	Proceedings - 2018 IEEE 4th International Symposium on Smart Electronic Systems, iSES 2018 P_Page 107	Kjellby R.A., Johnsrud T.E., Løtveit S.E., Cenkeramaddi L.R., Beferull Lozano B., Jevne G., Joshi S., Frøytlog A., Jordbru T., Bhange M.	SCS IEEE GSC	International
5	Comparison of voltage charging techniques to increase the life of lead acid batteries	Proceedings - 2018 IEEE 4th International Symposium on Smart Electronic Systems, iSES 2018 P_Page 284	Bayya M., Rao U.M., Prabhakara Rao B.V.V.S.N., Moorthy Muthukrishnan N.	SCS IEEE GSC	International
6	Design and prototype implementation of long-range self-powered wireless IoT devices	Proceedings - 2018 IEEE 4th International Symposium on Smart Electronic Systems, iSES 2018 P_Page 218	Kjellby R.A., Cenkeramaddi L.R., Johnsrud T.E., Jevne G., Løtveit S.E., Beferull-Lozano B., Joshi S.	SCS IEEE GSC	International
7	An efficient design approach for implementation of 2 bit ternary flash ADC using optimized complementary TFET devices	Proceedings - 32nd International Conference on VLSI Design, VLSID 2019 - Held concurrently with 18th International Conference on Embedded Systems, ES 2019 P_Page 406	Vidhyadharan S., Ramakant., Sv A., Shyam A.K., Hirpara M.P., Dan S.S.	SCS WOS GSC	International
8	Multi-application based network-on-chip design for mesh-of-tree topology using global mapping and reconfigurable architecture	Proceedings - 32nd International Conference on VLSI Design, VLSID 2019 - Held concurrently with 18th International Conference on Embedded Systems, ES 2019 P_Page 528	Upadhyay M., Shah M., Bhanu P.V., Soumya J., Cenkarmaddi L.R.	SCS WOS GSC	International

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9	Novel low and high threshold TFET based NTI and PTI cells benchmarked with standard 45 nm CMOS technology for ternary logic applications	Proceedings - 32nd International Conference on VLSI Design, VLSID 2019 - Held concurrently with 18th International Conference on Embedded Systems, ES 2019 P_Page 424	Ramakant S.V., Krishna Shyam A., Hirpara M., Chaudhary T., Dan S.S.	SCS WOS GSC	International
10	Self-powered IoT Device based on Energy Harvesting for Remote Applications	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	Kjellby R.A., Cenkeramaddi L.R., Johnsrud T.E., Lotveit S.E., Jevne G., Beferull-Lozano B., Soumya J.	SCS GSC	International
11	Realizing Parallelism in Quantum MISD Architecture	ACM International Conference on Computing Frontiers 2019, CF 2019 - Proceedings P_Page 234	Batabyal S., Sarkar K.	SCS WOS GSC	International
12	A Novel Fault-Tolerant Routing Technique for Mesh-of-Tree based Network-on-Chip Design	IEEE Region 10 Annual International Conference, Proceedings/TENCON P_Page 2383	Upadhyay M., Shah M., Bhanu P.V., Soumya J., Cenkarmaddi L.R., Idsoe H.	SCS WOS IEEE GSC	International
13	Fault-Tolerant Network-on-Chip Design for Mesh-of-Tree Topology Using Particle Swarm Optimization	IEEE Region 10 Annual International Conference, Proceedings/TENCON P_Page 2389	Bhanu P.V., Kulkarni P., Jain S., Soumya J., Cenkarmaddi L.R., Idsoe H.	SCS WOS IEEE GSC	International
14	Wavelet based fault detection and diagnosis using online MCSA of stator winding faults due to insulation failure in industrial induction machine	2018 IEEE Recent Advances in Intelligent Computational Systems, RAICS 2018 P_Page 208	Verma A.K., Radhika S., Padmanabhan S.V.	SCS IEEE GSC	International
15	A CNTFET Based Quaternary Full Adder	Proceedings of the 4th International Conference on Devices, Circuits and Systems, ICDCS 2018 P_Page 185	Sankisa K.C., Sahoo R., Sahoo S.K.	SCS GSC	International
16	COR-HR: An efficient hybrid routing approach using coefficient of restitution in MANET	ACM International Conference Proceeding Series P_Page 459	Sinha S., Saha S., Mishra S.	SCS GSC	International
17	Estimation of the cardiac pulse from facial video in realistic conditions	ICAART 2019 - Proceedings of the 11th International Conference on Agents and Artificial Intelligence Vol_No 2 P_Page 153	Subramaniam A., Rajitha K.	SCS	International
18	Part i: Optimization of the tunnel fet device structure for achieving circuit performance better than the current standard 45 nm cmos technology	Springer Proceedings in Physics Vol_No 215 P_Page 618	Ramakant., Vidhyadharan S., Akhilesh G., Gupta V., Ravi A., Dan S.S.	SCS GSC	International
19	Analytical modeling and simulation study of homo and hetero iii-v semiconductor based tunnel field effect transistor (Tfet)	Springer Proceedings in Physics Vol_No 215 P_Page 1194	Varshika M.L., Narang R., Gupta M., Saxena M.	SCS GSC	International
20	Part ii: Benchmarking the performance of optimized tfet-based circuits with the standard 45 nm cmos technology using device & circuit co-simulation methodology	Springer Proceedings in Physics Vol_No 215 P_Page 628	Vidhyadharan S., Ramakant., Akhilesh G., Gupta V., Ravi A., Dan S.S.	SCS GSC	International
21	An empirical analysis on effectiveness of source code metrics for aging related bug prediction	Proceedings - DMSVIVA 2019: 25th International DMS Conference on Visualization and Visual Languages P_Page 91	Hota C., Kumar L., Murthy Neti L.B.	SCS	International
22	Conceptual RF design of 3.7 GHz 20 kW CW Magnetron for LHCD system of Tokamaks	2019 International Vacuum Electronics Conference, IVEC 2019	Jadhav A.R., John J., Tuckley K., Dixit H.V., Sharma P.K.	SCS GSC	International
23	Design of Optical MEMS based Tunable Variable Optical Attenuator	Proceedings of the 3rd International Conference on Computing Methodologies and Communication, ICCMC 2019 P_Page 671	Kumar I., Pattnaik P.K.	SCS GSC	International

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24	DISCO: Depth inference from stereo using context	Proceedings - IEEE International Conference on Multimedia and Expo P_Page 507	Swami K., Raghavan K., Pelluri N., Sarkar R., Bajpai P.	SCS IEEE GSC	International
25	FPGA Implementation of Novel Routing Algorithm for Butterfly-Fat-Tree Topology based NoC Design	PRIME 2019 - 15th Conference on Ph.D. Research in Microelectronics and Electronics, Proceedings P_Page 72	Bhanu P.V., Jagadheesh S., Bhat V., Agarwal G., Soumya J.	SCS GSC	International
26	An efficient motion estimation algorithm for mobile video applications	2019 2nd International Conference on Advanced Computational and Communication Paradigms, ICACCP 2019	Chatterjee S.K., Vittapu S.K.	SCS GSC	International
27	An empirical framework for code smell prediction using extreme learning machineâˆ—	IEMECON 2019 - 9th Annual Information Technology, Electromechanical Engineering and Microelectronics Conference P_Page 195	Gupta H., Kumar L., Neti L.B.M.	SCS GSC	International
28	An empirical framework for web service anti-pattern prediction using machine learning techniques	IEMECON 2019 - 9th Annual Information Technology, Electromechanical Engineering and Microelectronics Conference P_Page 143	Tummalapalli S., Kumar L., Neti L.B.M.	SCS GSC	International
29	Design of emergency airstrip on an expressway in India	Airfield and Highway Pavements 2019: Innovation and Sustainability in Highway and Airfield Pavement Technology - Selected Papers from the International Airfield and Highway Pavements Conference 2019 P_Page 278	Anand A., Ravichandran M., Raju S., Gumme K.	SCS GSC	International
30	Gain Enhancement of Annular Ring Patch Using Cascaded EBG	IMWS-AMP 2019 - 2019 IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications P_Page 72	Sravya R.V., Kumari R., Choudhury B.	SCS IEEE GSC	International
31	Tensile testing of single fibres	Procedia Structural Integrity Vol_No 14 P_Page 157	Adusumalli R.B., Venkateshan K.C., Kunchi C., Vadlamani S.R.	SCS	International
32	Long-range Self-powered IoT Devices for Agriculture Aquaponics Based on Multi-hop Topology	IEEE 5th World Forum on Internet of Things, WF-IoT 2019 - Conference Proceedings P_Page 549	Kjellby R.A., Cenkeramaddi L.R., Froytlog A., Lozano B.B., Soumya J., Bhange M.	SCS IEEE GSC	International
33	DSMC simulation of rarefied gas flow over a wall mounted cube	ASME-JSME-KSME 2019 8th Joint Fluids Engineering Conference, AJKFluids 2019 Vol_No 2	Nabapure D., Murthy R.C.	SCS GSC	International
34	DSMC Simulation of Rarefied Gas Flow over a Backward-Facing Step: Effect of Expansion ratio	Proceedings of the 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference (IHMTC-2019) P_Page 6	Deepak Nabapure., Pratijay Guha., Ram Chandra Murthy Kalluri	GSC	National
35	Code-Tampering Defence for Internet of Things Using System Call Traces	International Conference on Innovations for Community Services P_Page 170	Rajesh Kumar Shrivastava., Chittaranjan Hota	GSC	International
36	Solution of One dimensional Strong Converging Cylindrical and Spherical Shock Waves in Non-Ideal Gas	64th CONGRESS OF ISTAM	Revathi Ravilisetty., Addepalli Ramu., Narsimhulu Dunna	GSC	National
37	Mathematical Modeling of OWC wave energy converter devices over undulated sea bed	64th CONGRESS OF ISTAM P_Page 3	Kshma Trivedi., Santanu Koley	GSC	National
38	Love wave dispersion in an earthâ€™s crust lying over a pre-stressed mantle	64th CONGRESS OF ISTAM P_Page 3	Tapas Ranjan Panigrahi., Sumit Kumar Vishwakarma	GSC	National

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39	Multidirectional irregular waves scattering by trapezoidal porous breakwater	64th CONGRESS OF ISTAM Issue_No 1	Santanu Koley	GSC	National
40	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 P_Page 40	C Anand Badrish., Nitin Kotkunde., Omkar Salunke., Swadesh Kumar Singh., Santanu Prasad Datta	SCS WOS GSC	International
41	Ego-Centric framework for a three-wheel omni-drive Telepresence robot	2019 IEEE International Conference on Advanced Robotics and its Social Impacts (ARSO) P_Page 286	Ruchik Mishra., Yug Ajmera., Nikhil Mishra., Arshad Javed.	IEEE GSC	International
42	Anisotropic Yielding Behaviour of Inconel 718 Alloy at Elevated Temperatures	Volume 2A: Advanced Manufacturing	Gauri Mahalle., Omkar Salunke., Nitin Kotkunde., Amit Kumar Gupta., Swadesh Kumar Singh.	GSC	International
43	Enhanced Feature Extraction Approaches for Detection of Sound Events	2019 IEEE 9th International Conference on Advanced Computing (IACC) P_Page 229	Naren Surampudi., M Srirangan, J Jabez Christopher.	IEEE GSC	International
44	Fault current limiting capability of Interline Power Flow Controller in Low Voltage 415V Distribution Networks	2019 1st International Conference on Electrical, Control and Instrumentation Engineering	Vishnu Charan Thippana., Alivelu Manga Parimi., Krovvidi Sai Ajitesh.	IEEE GSC	International
45	PV Cell Performance with Varying Temperature Levels	2019 Global Conference for Advancement in Technology (GCAT) P_Page 5	C Santhi Durganjali., Sudha Radhika.	IEEE GSC	International
46	A Comparative Study of the Effectiveness of Meta-Heuristic Techniques in Pairwise Testing	2019 IEEE 43rd Annual Computer Software and Applications Conference (COMPSAC) P_Page 96	Rajita B S A S., Salim Ali Khan Mohammad., Sathvik Vamshi Valepe., Subhrakanta Panda	SCS IEEE GSC	International
47	Optimization of Water Distribution Networks Using Cuckoo Search Algorithm	Advanced Engineering Optimization Through Intelligent Techniques P_Page 74	Murari Raja Raja Varma., Vasan Arunachalam., Maduukuri Naveen Naidu., Pankaj Sriman Boindala	SCS GSC	International
48	Optimal Configuration of Viscous Dampers Connected to Adjacent Similar Buildings Using Particle Swarm Optimization	Advanced Engineering Optimization Through Intelligent Techniques P_Page 807	K. Sai Pavan Kumar., Uppari Ramakrishna., Mohan S C	SCS GSC	International
49	Metamaterial-Inspired Rectenna Loaded With a DR for RF Energy Harvesting	2018 IEEE Indian Conference on Antennas and Propogation (InCAP) P_Page 3	Balamati Choudhury., Runa Kumari., Vinnakota Sarath Sankar	SCS IEEE GSC	National
50	Long-range & Self-powered IoT Devices for Agriculture & Aquaponics Based on Multi-hop Topology	2019 IEEE 5th World Forum on Internet of Things (WF-IoT) P_Page 549	Soumya Joshi., Meghana Bhange., Baltasar B. Lozano., Linga R Cenkeramaddi., Anders Froytlog., Rolf A Kjellby	SCS GSC	International
51	A Modified Balls-into-Bins Model for Expected Buffer Occupancy in Mobile Opportunistic Networks	2019 15th International Wireless Communications & Mobile Computing Conference (IWCMC) P_Page 1493	Suvadip Batabyal., Gourish Goudar	SCS WOS IEEE GSC	International
52	Community Detection Techniques for Evolving Social Networks	2019 9th International Conference on Cloud Computing, Data Science & Engineering P_Page 686	Subhrakanta Panda., B S A S Rajita	SCS GSC	International
53	Random Forest Based Real Time Fault Monitoring System for Industries	2018 4th International Conference on Computing Communication and Automation (ICCCA) P_Page 6	Inala Vivek Vamsi., Sudha Radhika., Nippani Abhinav., Amar Kumar Verma	SCS GSC	International
54	The Science of Rule-based Classifiers	2019 9th International Conference on Cloud Computing, Data Science &	J Jabez Christopher	SCS IEEE GSC	International

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		Engineering P_Page 303			
55	Android Malware Prediction Using Extreme Learning Machine with Different Kernel Functions	AINTEC '19 Proceedings of the Asian Internet Engineering Conference P_Page 40	Arvind Mahindru., Lalita Bhanu Murthy Neti., Chinmay Hota., Lov Kumar	SCS GSC	International
56	Power Quality Enhancement of MMG using Active Custom Power Conditioner	3rd International conference on Electronics, Communication and Aerospace Technology (ICECA) P_Page 1423	MT L Gayatri., Varimadla Mahesh., Alivelu Manga Parimi	IEEE GSC	National
57	Balanced Antipodal Vivaldi Antenna Design with Hexagonal Slots and Three level Geometric Patches	3rd International conference on Electronics, Communication and Aerospace Technology (ICECA) P_Page 1060	M Chaitanya Sai., Deepesh Chandwani	SCS IEEE GSC	National
58	Microstrip patch antenna array for RFID Application	3rd International conference on Electronics, Communication and Aerospace Technology (ICECA) P_Page 989	Deepesh Chandwani., M Chaitanya Sai., Runa Kumari	SCS IEEE GSC	National
59	Empirical Study on the Distribution of Object-Oriented Metrics in Software Systems	Communications in Computer and Information Science P_Page 317	K Muthukumaran., Lalita Bhanu Murthy Neti., P Sarguna Janani	SCS GSC	International
60	Enhanced Magneto â€" Optical effects in Core â€" Shell Plasmonic nanostructure Fe3O4 - Au	9th International Conference on Surface Plasmon Photonics (SPP9)	Hemanth Kumar Narsetti., Nikhil Navaratna., Dinabandhu Patra., Balaji Gopalan., Kannan Ramaswamy		International
61	Geometrical Tuning of Non-Reciprocal Transmission in Perforated Metallic Films	9th International Conference on Surface Plasmon Photonics (SPP9)	Kannan Ramaswamy		International
62	Analysis of Hot Workability of Inconel Alloys Using Processing Maps	Lecture Notes on Multidisciplinary Industrial Engineering P_Page 118	Gauri Mahalle., Nitin Rameshrao Kotkunde., Amit Kumar Gupta., Swadesh Kumar Singh	GSC	International
63	Evaluation and Mapping of Wind Energy Potential over Southern Part of India using ANN and GIS Approach	2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development P_Page 7	Khalid Anwar., Sandip Shridharrao Deshmukh	SCS WOS IEEE GSC	International
64	Traffic Convergence Detection in IoT LLNs: A Multilayer Perceptron based Mechanism	2018 IEEE Symposium Series on Computational Intelligence (SSCI) P_Page 3	Koushik Modugu., Barsha Mitra., G Geetha Kumari., Rashmi Sahay	SCS WOS IEEE GSC	International
65	SEDTWik: Segmentation-based Event Detection from Tweets using Wikipedia	Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics: Student Research Workshop P_Page 85	Keval M Morabia., Neti Lalita Bhanu Murthy., Aruna Malapati., Surender Singh Samant	GSC	International
66	Design of Emergency Airstrip on an Expressway in India	International Airfield and Highway Pavements Conference 2019	Anurag Anand, A M ASCE. Mukesh Ravichandran., Sridhar Raju.	GSC	International
67	Stabilization of Expansive Soil Reinforced with Polypropylene and Glass Fiber in Cement and Alkali Activated Binder	Sustainable Civil Infrastructures P_Page 55	Mazhar Syed., Anasua Guharay	GSC	International
68	Modelling and Design of a Hybrid Aerial Vehicle Combining VTOL Capabilities with Fixed Wing Aircraft	2019 6th International Conference on Instrumentation, Control, and Automation (ICA)	Alaukik Joshi., Amritanshu Tripathi., R N Ponnalagu	SCS IEEE GSC	International
69	Effect of Johnsonâ€" Cook Material Model Constants on Predicted Chip Morphology and Forces in FE Simulations of Machining Operation for 93% WHA Alloy	Lecture Notes on Multidisciplinary Industrial Engineering P_Page 239	Chithajalu Kiran Sagar., Amrita Priyadarshini., Amit Kumar Gupta	GSC	International
70	Malware Detection on Highly Imbalanced Data through Sequence Modeling	Proceedings of the 12th ACM Workshop on Artificial Intelligence and Security	Rajvardhan Oak., Min Du., David Yan., Harshvardhan Takawale., Idan Amit	GSC	International

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71	Predictive Modelling of Silicon Nanowire based Sensing Platform for cTroponin-I Detection	6th International Conference on Computing for Sustainable Global Development P_Page 1186	T Srinivas., Priyash Barya., Rahul Prajesh	GSC	International
72	Data-Driven Modal Features Extraction Through the Variational Mode Decomposition Method	IEEE PES Innovative Smart Grid Technologies Conference - Latin America (ISGT Latin America) P_Page 5	A Zamora., D Dotta., Joe H Chow., Rajesh Kumar Tripathy., M R A Paternina	SCS IEEE GSC	International
73	Numerical Simulation of Flow Boiling in Micro Channel to Study Bubble Dynamics	ASME 2019 Heat Transfer Summer Conference	Uday Kumar Alugoju., Satish Kumar Dubey., Arshad Javed	SCS GSC	International
74	Numerical Heat Transfer Simulations and Parametric Investigations Using Crossed Array Design of Experiments Approach During RFA of Breast Tumor	ASME 2019 Heat Transfer Summer Conference	Sandeep Sulake., Satish Kumar Dubey., Arshad Javed	SCS GSC	International
75	Temporal Dynamics and Spatial Content in IoT Malware detection	TENCON 2019 - 2019 IEEE Region 10 Conference P_Page 1595	Ramnath Kumar., G Geetha Kumari	IEEE GSC	International
76	Event-Based State Estimation Under the Presence of Multiplicative Measurement Noise	IEEE Control Systems Letters Vol_No 3 Issue_No 3 P_Page 630	Swapna Challagundla., Shaikshavali Chitraganti., Samir Aberkane	SCS IEEE GSC	International
77	An Efficient Two-Server Password-only User Authentication for Consumer Electronic Devices	IEEE International Conference on Consumer Electronics P_Page 2	Vanga Odelu	SCS IEEE GSC	International
78	Change-Proneness of Object-Oriented Software Using Combination of Feature Selection Techniques and Ensemble Learning Techniques	ACM International Conference Proceeding Series P_Page 11	Lov Kumar., Sangeeta Lal., Anjali Goyal., NL Bhanu Murthy	SCS GSC	International
79	Method Level Refactoring Prediction on Five Open Source Java Projects using Machine Learning Techniques	ISEC'19 Proceedings of the 12th Innovations on Software Engineering Conference P_Page 10	Lov Kumar., Shashank Mouli Satapathy., Lalita Bhanu Murthy	SCS GSC	International
80	Underwater Characterization and Monitoring of Amorphous and Monocrystalline Solar Cells in Diverse Water Settings	IEEE Sensors Journal P_Page 1	Prabhat K Dwivedi., Prasanth K Enaganti., Sudha Radhika., Alok K Srivastava., Sanket Goel	IEEE GSC	International
81	Effects of using alcohols on the performance and emissions of a diesel engine	Journal of Physics: Conference Series Vol_No 1276 Issue_No 1	G Sai Ram., G Abhishek., Sandip Shridharrao Deshmukh	SCS GSC	International
82	The Relative Signed Clique Number of Planar Graphs is 8	Lecture Notes in Computer Science P_Page 253	Sandip Das., Soumen Nandi., Sagnik Sen., Ritesh Seth	SCS GSC	International
83	Attack Detection and Forensics Using Honeypot in IoT Environment	Lecture Notes in Computer Science Vol_No 11319 P_Page 409	Rajesh Kumar Shrivastava., Bazila Bashir., Chittaranjan Hota	SCS GSC	International
84	Energy Management System for PV–Wind and Battery-Fed DC Microgrid Using Fuzzy-Based Proportional Integral Controller	Lecture Notes in Electrical Engineering Vol_No 553 P_Page 1211	Hari Priya T., Parimi A.M.	SCS GSC	International
85	Spectral Reflectance Based Heart Rate Measurement from Facial Video	Proceedings - International Conference on Image Processing, ICIP P_Page 3366	Subramaniam A., Rajitha K.	SCS GSC	International
86	Characterizing and estimating bulk transfer size in mobile opportunistic network	IEEE Vehicular Technology Conference	Goudar G., Batabyal S.	SCS WOS IEEE GSC	International
87	Butterfly-fat-tree topology-based fault-tolerant network-on-chip design using particle swarm optimization	Advances in Intelligent Systems and Computing Vol_No 741 P_Page 1175	Bhanu P.V., Kulkarni P.V., Anil Kumar U., Soumya J.	SCS GSC	International
88	Interlocking nodes for structural analysis in social networking	Advances in Intelligent Systems and Computing Vol_No 702 P_Page 66	Bommakanti S.A.S.	SCS GSC	International

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89	Pipe size design optimization of water distribution networks using water cycle algorithm	Advances in Intelligent Systems and Computing Vol_No 741 P_Page 1067	Praneeth P., Vasan A., Srinivasa Raju K.	SCS GSC	International
90	TelNEClus: Telugu Named Entity Clustering Using Semantic Similarity	Advances in Intelligent Systems and Computing Vol_No 799 P_Page 52	Gorla S.K., Chandrashekhar A., Bhanu Murthy N.L., Malapati A.	SCS GSC	International
91	Reputation-Based Reinforcement Algorithm for Motivation in Crowdsourcing Platform	Advances in Intelligent Systems and Computing Vol_No 988 P_Page 186	Chittaranjan Hota ., A Vijayalakshmi	SCS GSC	International
92	IMBUA: Identity Management on Blockchain for Biometrics-Based User Authentication	Advances in Intelligent Systems and Computing Vol_No 1010 P_Page 10	Odelu Vanga	SCS GSC	International
93	A multi-scale convolutional neural network architecture for music auto-tagging	Advances in Intelligent Systems and Computing Vol_No 816 P_Page 764	Dabral T.S., Deshmukh A.S., Malapati A.	SCS GSC	International
94	Application of machine learning techniques for multi objective optimization of response variables in wire cut electro discharge machining operation	Materials Science Forum P_Page 806	Shukla S.K., Priyadarshini A.	SCS GSC	International
95	Properties of three phase magneto-electro-thermo-elastic composites	Materials Science Forum P_Page 15	Patel H., Penumakala P.K., Patel D.	SCS GSC	International
96	Influence of Nano-Silica on Characteristics of Cement Mortar and Concrete	Lecture Notes in Civil Engineering P_Page 851	Jittin Varghese., Athira Gopinath., A Bahurudeen., R Senthilkumar	SCS GSC	International
97	A Novel Fault-Tolerant Routing Algorithm for Mesh-of-Tree Based Network-on-Chips	Communications in Computer and Information Science Vol_No 892 P_Page 459	Shah M., Upadhyay M., Bhanu P.V., Soumya J., Cenkeramaddi L.R.	SCS	International

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1	Wearable sensor-based human behavior understanding and recognition in daily life for smart environments	Proceedings - 2018 International Conference on Frontiers of Information Technology, FIT 2018 P_Page 110	Jalal A., Quaid M.A.K., Hasan A.S.	SCS WOS GSC	International
2	Multi-features descriptors for Human Activity Tracking and Recognition in Indoor-Outdoor Environments	Proceedings of 2019 16th International Bhurban Conference on Applied Sciences and Technology, IBCAST 2019 P_Page 376	Jalal A., Mahmood M., Hasan A.S.	SCS GSC	International
3	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 P_Page 93	Chaudhari S.P., Shaik J.B., Singhal S., Goel N.	SCS IEEE GSC	International
4	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	Thomas T.G.	SCS GSC	International
5	Nanobots for biomedical applications	ACM International Conference Proceeding Series P_Page 279	Krishna G., Mary Lourde R., Jerome K.	SCS GSC	International
6	Effects of Soil-Structure Interaction of FRP Confined Reinforced Concrete Structure under Lateral Cyclic Loading	Eighth International Conference on Case Histories in Geotechnical Engineering P_Page 97	B Vivek., Prishati Raychowdhury	SCS GSC	International
7	A novel approach for Drowsiness Detection using Local Binary Patterns and Histogram of Gradients	2019 International Conference on Electrical and Computing Technologies and Applications (ICECTA) P_Page 6	J Rajevenceltha, Vilas Haridas Gaidhane., V Anjana.	IEEE GSC	International
8	Classifying Paintings into Movements using HOG and LBP Features	Proceedings of the 2019 3rd International Conference on Big Data Research P_Page 151	Aakansha Mathur., Shruti Arippara Vinodh., Siddhaling Urolagin.	GSC	International
9	RCS Reduction in a Thin Radar Absorbing Structure by Random Phase Cancellation	2018 IEEE Indian Conference on Antennas and Propogation (InCAP) P_Page 2	Amrithaa Seshadri., Phalguni Mathur., Hema Singh	SCS IEEE GSC	National

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10	Investigations on Infrared(IR) Sensitive Material for Microbolometer Using Material Selection Approaches	2018 IEEE Electron Devices Kolkata Conference (EDKCON) P_Page 353	Dev Gupta., Navneet Gupta	SCS IEEE GSC	International
11	Time-Sensitive Provisioning of Bare Metal Compute as a Cloud Service	2019 IEEE 12th International Conference on Cloud Computing (CLOUD) P_Page 451	Sreekrishnan Venkateswaran., Santonu Sarkar	SCS IEEE GSC	International
12	Computational analysis of Anti icing system of an aircraft wing	3rd International conference on Electronics, Communication and Aerospace Technology (ICECA) P_Page 1114	Udayakumar Rajamanickam., Hana Aslam Shaikh	SCS IEEE GSC	National
13	Design analysis of Landing gear system of an aircraft	3rd International conference on Electronics, Communication and Aerospace Technology (ICECA) P_Page 1330	Mohammed Ibrahim., Udayakumar Rajamanickam	SCS IEEE GSC	National
14	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) P_Page 733	Vrushali Patil., Indraneel Patil., Kalaichelvi Venkatesan., Ramanujam Karthikeyan	SCS IEEE GSC	International
15	Effects of Soil-Structure Interaction of FRP Confined Reinforced Concrete Structure under Lateral Cyclic Loading	Geo-Congress Proceedings P_Page 97	Vivek Balachandra Kartha., Prishati Raychowdhury	SCS GSC	International
16	Energy Savings and Cost Estimation of Net Zero Homes	Crafting Foundations for Sustainable and Inclusive Development P_Page 28	Vijaya Ilango., Bidhan Jain		International
17	Language Socialization in Virtual Communities	Proceedings of the 7th Annual International Conference on Language, Literature and Linguistics (L3 2018) P_Page 7	Shazi Shah Jabeen., Akshaya Kalyanaraman., Abbinaya Kalyanaraman	GSC	International
18	Prediction of Cement Strength using Machine Learning Approach	2019 Amity International Conference on Artificial Intelligence P_Page 243	Vishal Naranje., Nand Kumar	SCS IEEE GSC	International
19	Prediction of Best Weld Quality Using Artificial Neural Network	2019 Amity International Conference on Artificial Intelligence (AICAI) P_Page 5	Mohammad Nadeem Khalid., Vishal Naranje., Vilas H Gaidhane	SCS IEEE GSC	International
20	Feature Extraction and Classification of Epileptic EEG Signals Using Wavelet Transforms and Artificial Neural Networks	International Conference on ISMAC in Computational Vision and Bio-Engineering Proceedings of the International Conference on ISMAC in Computational Vision and Bio-Engineering 2018 (ISMAC-CVB) P_Page 1482	Upasana Chakraborty., R. Mary Lourde	SCS GSC	International
21	Modeling and Analysis of Metamaterial-Based Antenna for Wi-Fi and WLAN Applications	Lecture Notes in Electrical Engineering P_Page 173	Amrithaa Seshadri., Navneet Gupta	SCS GSC	International
22	Verification of the greenhouse roof-covering-material selection using the finite element method	Materials Today: Proceedings	MC Subin., C Periasamy., B Sozharajan., Ram Karthikeyan	GSC	International
23	A Combined Architecture Based on Artificial Neural Network to Recognize Kannada Vowel Modifiers	Communications in Computer and Information Science Vol_No 1037 P_Page 215	Urolagin S.	SCS GSC	International

Faculty Research Area

Pilani Campus:

Department	Name of faculty	Research Area
Biological Sciences	S.K Verma	Environmental & Microbial Biotechnology
	Ashis Das	Molecular Parasitology
	Shibasish Chowdhury	Computational Biology
	Jitendra Panwar	Environmental & Microbial Biotechnology
	Rajesh Mehrotra	Plant Biotechnology
	Pankaj Sharma	Plant Biotechnology and Biochemistry
	B. Vani	Environmental & Microbial Biotechnology
	Uma S Dubey	Cancer biology
	Prabhat Nath Jha	Environmental & Microbial Biotechnology
	Vishal Saxena	Molecular Parasitology
	Sandhya Mehrotra	Plant Biotechnology
	Shilpi Garg	Molecular Parasitology
	Rajdeep Chowdhury	Cancer biology
	Sudeshna Mukherjee	Cancer biology
	Sandhya Marathe	Host-Microbe Interaction
	Manoj Kannan	Computational Biology
	Meghana Tare	Chronic diseases
	SyamantakMajumder	Chronic diseases
	Manoj Kannan	Computational Biology
Chemical Engineering	Ajay Kr. Pani	Soft computing, Process Modeling, Process Control
	Amit Jain	Decentralized control of multivariable processes, Desalination and wastewater treatment techniques
	Arvind Kr. Sharma	Environmental Engineering, Fluidization, Adsorption, Biochemical Engineering, Separation Processes, Fluid Mechanics, Modeling and Simulation
	Banasri Roy	Biomedical Materials, Renewable energy, Nano catalysts, Fuel cell materials, Solar cell devices, Solar cell materials, Photocatalysts
	B V Prasad	Process Control, Proess, Modelling and Simulation, Educational Administration, Univeristy – Industry Collaborations
	BhanuVardhan Reddy K	Membrane Separations, Computational Fluid Dynamics
	Hare Krisna Mohanta	Advanced Process Control, Process Monitoring and Control, Modeling and Simulation, Reactive Distillation, Catalytic pyrolysis of petroleum for production of petrochemical feedstocks, Applied wavelet analysis
	Pradipta Chattopadhyay	Aqueous foam generation characteristics, Foam and foam modeling, Impact of surfactants on aqueous foam development, Delayed Coking operation in Petroleum Refining
	Priya C Sande	Computationl Fluid Dynamics (CFD) simulation for gas-solid fluidization,Petroleum and Petrochemical industry practices
	Raman Sharma	Oxy-combustion CO_2 capture using Chemical-Looping, Fluidized Bed Operations, Solid Fuel Combustion, Flue Gas Sampling, Particulate Matter Sampling, Emissions Trading under Clean Development Mechanism (CDM).
	Samir R Kale	Process Plant Safety, Design of Process Technologies, Mass and Health Integration.
	Santosh Khandagave	Chemical Engineering Process Modeling, Simulation and Optimization, Extractive metallurgy, Transport phenomenon, Energy and environmental engineering, Bio chemical engineering
	Sheth Pratik Nitinchandra	Biomass Gasification, Modeling and Simulation, Process Control, Computational Fluid Dynamics (CFD), Pyrolysis, Process Design
	Smita Raghuvanshi	Environmental Engg (Biofiltration of VOCs & metal ions) Environmental Engg (CO2 mitigation using biobased techniques using pure strain of algae & mixed culture),Environmental impact assessment of various processes, Life cycle assessment of process industries
	Srinivas Appari	Catalysis, Micro - Kinetic Modeling.

Chemical Engineering	Suresh Gupta	Environmental Engineering & Separation Processes, Removal of Pollutants Using Adsorption (Low-cost adsorbents, Nano-adsorbents), Bio-based Pollutant Removal Techniques (Biofiltration, Biosorption), Wastewater Treatment, Mathematical Modeling and Simulation of Chemical Processes, Computational Transport Phenomena, Environmental Management Systems (LCA, EIA), Energy Integration
	Abhishek Dhoble	Biochemical and bioprocess engineering/Biotechnology Agro-processing, Soil health, Microbiological milk quality evaluation, Sustainable rural development, Microbiome engineering, Bio-digesters, Cytometric fingerprinting and machine learning (CFML) Nanotoxicity Chemical and biosystems engineering (ChemBioSys) space missions
	Somak Chatterjee	water treatment, sensors and specialized surfaces, extraction of biocides, aesthetic design and novel chemical formulations
	Arghya Banerjee	Heterogeneous Catalysis, Computational Catalysis, Molecular modelling, Biomass Conversion, syngas/Co_2 Conversion
Chemistry	S. C. Sivasubramanian	Physical Chemistry/Electron Paramagnetic Resonance
	Subit Kumar Saha	Physical Chemistry/Soft Matter
	Ram Kinkar Roy	Physical/Theoretical Chemistry
	Dalip Kumar	Synthetic Organic and Medicinal Chemistry
	Anil Kumar	Organic/Medicinal Chemistry
	Saumi Ray	Materials/Inorganic Chemistry
	Ajay Kumar Sah	Inorganic Chemistry/ Catalysis/ Biochemistry
	Bharti Khungar	Inorganic Chemistry/Catalysis/Green Chemistry
	Inamur Rahaman Laskar	Materials and Inorganic Chemistry
	Madhushree Sarkar	Supramolecular Chemistry and Crystal Engineering
	Prashant U. Manohar	Computational Chemistry Software Development
	Paritosh Shukla	Organic and medicinal chemistry
	Indresh Kumar	Organic synthesis & medicinal chemistry
	SurojitPande	Inorganic/Materials Chemistry
	Rajeev Sakhuja	Organic & Medicinal Chemistry
	Shamik Chakraborty	Physical Chemistry
	Bibhas Ranjan Sarkar	Catalysis/ Materials/ Inorganic Chemistry
Civil Engineering	Ashoke Kumar Sarkar	Transportation Planning, Rural accessibility and pavement maintenance
	Rajiv Gupta	Fluid Structure Interaction, GIS & Remote Sensing, Passive solar architecture, concrete technology
	Shamsher Bahadur Singh	Structural Engineering, Finite Element Modeling, Composite Structures
	Ajit Pratap Singh	Water Resources Management, Surface and Ground Water Quality Modeling using Numerical Methods & Soft computing techniques, Environmental Engineering and Pavement Management Systems
	Manoj Kumar	Finite Element Analysis of Structures, Post-peak behavior of Highway Bridges, Seismic analysis of shear wall structures
	Anshuman	Finite Element Methods, Computer Aided Design, Concrete Technology
	Ravi Kant Mittal	Geotechnical earthquake Engineering, Seismic design of foundations, Liquefaction of Soil, Ground Improvement techniques, Static & Dynamic behavior of soil reinforced with waste tire chip & fiber
	Anupam Singhal	Hazardous Waste Management, Advanced water & waste water treatment techniques, air pollution abatement and environmental impact assessment
	Kamalesh Kumar	Ground improvement techniques, geotechnical engineering
	Dipendu Bhunia	Performance Based Seismic Design, Earthquake Resistant Design of Structures, Concrete Technology, Energy efficient building

	S.N. Patel	Dynamic instability of laminated composite stiffened/unstiffened structures
	Shibani KhanraJha	Modeling and simulation of geo-thermal reservoir, Multi-phase flow modeling
	Prasanta Kumar Sahu	Transportation planning, freight transportation modeling, statistical analysis of highway/freight traffic data, traffic-weather modeling
	G. Muthukumar	Earthquake resistant analysis & design of concrete structures, non-linear finite element response analysis
	Durgesh Vikram	Traffic Engineering, Traffic flow theory, routing and scheduling of mass transportation systems
	Rajesh Kumar	Stability of Structures, Non-linear dynamics, Inverse problem of engineering, Structural health monitoring, Composite structures
	Mr. R. Srinivas	Fuzzy logic application, optimization, modeling in Environment and water resource planning and management
Civil Engineering	Sudhirkumar Barai	Structural Health Monitoring Recycled Construction Materials Fracture in Concrete Data analytics and Soft Computing Applications
	Mukund Lahoti	Geopolymers for various applications (Fire-resistance, ductile composites, self-healing, green construction material, etc.), Concrete Technology and Alternate construction materials (waste-to-resource)
	Nishant Roy	Seismic Behavior of Underground Structures Tunnel Construction in Difficult Ground Conditions and Slope Stability
Economics and Finance	Krishna M	Employment, Small Business, Energy Economics, Public Policy.
	Geetilaxmi Mohapatra	Environmental, Energy and Development Economics
	Rajan Pandey	Volatility Modeling and Forecasting, Corporate Finance
	Arya Kumar	Entrepreneurship, Financial Management, Energy–Manpower Economics, Values in Management, Capital Markets, Banking
	NVM Rao	Parameter Identification and Estimation in SEM; Economics of Strategy; Financial Economics, Financial Inclusion, e-Governance & Digital Revolution; Behavioral Economics and Finance, Risk Management; Health Economics & Healthcare Management; Economic Development; Economics of Education
	Monika Gupta	Environmental Economics and Policy, Energy Economics, Transport Economics, and GHG Emissions
	A. K. Giri	Macroeconomics, Monetary Economics, Applied Econometrics, Financial Economics, Financial Inclusion, Inclusive Growth, Development Finance, Development Economics, Resource and Environmental Economics
Department of Electrical and Electronics Engineering	Navneet Gupta	Device Modeling, Computational Material Science, Electromagnetics and Antennas
	Chandra Shekhar	VLSI, Embedded System, Microelectronics
	Anu Gupta	Low power Mixed Signal VLSI Design, HDL Synthesis and FPGA Architectures, Low Power Analog and Digital Circuits Design, ASIC Design
	V K Chaubey	Optical Wave Guides and Integrated Optics, Wireless & Optical Communication
	S Gurunarayanan	Embedded Systems, Digital Design, VLSI Architecture
	Surekha Bhanot	Virtual Instrumentation, AI Techniques in Instrumentation & Process Control, Biomedical Signal Processing
	Hari Om Bansal	Electrical Power System, Voltage Stability Analysis, Control System A I Techniques
	Hitesh DattMathur	Electrical Power Systems, AI Techniques in Power Systems, MATLAB in Power Systems
	Dheerendra Singh	Power Electronics, Power System, Hybrid Compensators, FACT and HVDC
	Karunesh Kr Gupta	Digital Signal Processing, Instrumentation
	Rajneesh Kumar	Electronics and Control, Soft Switching Invertors

	Abhijit Rameshwar	High Performance VLSI Data Path Design, Microprocessor Design, Micro-coded Controller Design, NBTI Degradation issues
Department of Electrical and Electronics Engineering	Praveen Kumar A.V	Microwave electronics - antennas and material characterization, Particle accelerators - RF cavity and beam dynamics
	Rahul Singhal	Polymer Waveguide, Optical Waveguide
	Sainath Bitragunta	Communication Systems, Modeling, Design, and analysis
	Arnab Hazra	Electronic Devices, Nanomaterials, Graphene, Chemical Sensor, Resistive RAM
	Anantha krishna Chintanpalli	Biomedical Signal Processing, Auditory Models, Digital Signal Processing, Speech Processing and Perception, Time-Frequency analyses.
	Pawan Kamalkish Ajmera	Signal Processing; Biometrics
	Nitin Chaturvedi	VLSI Design, Computer Architecture
	Nilanjan Chattaraj	Smart materials based devices and systems, Electromechanical devices and systems
	Asutosh Kar	Signal Processing, Adaptive Filters, Acoustics
	Vinay Chamola	Green Cellular networks, Internet of Things, Renewable energy powered systems
	Mahesh Angira	Microelectronics and VLSI
Department of Electrical and Electronics Engineering	Puneet Mishra	Process Control Intelligent Adaptive Control Control Valves Stiction Nonlinearity
	Sujan Yenuganti	Design and development of sensors using smart materials (Piezo, SMA etc) MEMS Sensors and Actuators Design and development of Biomedical sensors
	Bijoy Kumar Mukherjee	Nonlinear, Robust and Intelligent Control Aircraft and Spacecraft Flight Dynamics and Control
	Syed Mohammad Zafaruddin	Communications Systems, Distributed Signal Processing, Machine Learning, Wireless Sensor Networks, 5G, DSL.
	Meetha V. Shenoy	Development of autonomous systems (multi-robot systems, swarm-robot systems) - Aspects of hardware architecture, network architecture and algorithms for mobility,co-ordination and data fusion, Development of Networked Embedded Systems- Wireless sensor networks, IoT Systems Deep Learning in Robotics, Networked Systems Real time operating systems, Utilization of Hybrid (CPU+FPGA, CPU+GPU) & reconfigurable architectures for autonomous systems development
	Rupam Goswami	Simulation and Modeling of Semiconductor Devices, Random Number Generators, Charcoal Electronics, Memristors
	Pankaj Arora	Optical sensors, Plasmonics, Imaging Microscopy, Silicon Photonics, Microfluidic devices, Light-matter interaction at nanoscale, Solar Cells
	G Sai Sesha Chalapathi	Edge Computing, Internet of Things, Wireless Sensor Networks, Embedded Systems, Computer Architecture
	Aditya R Gautam	Control of power electronics converters, Microgrids, Electric Vehicles and Renewable energy technology
	Shishir Maheshwari	Digital signal and image processing for bio-medical signal and image analysis. Machine/deep learning based techniques for signal and image classification. Time-frequency analysis of signals
	Saytendra Kumar Maurya	VLSI Technology, Nano Science and Nanotechnology

Humanities & Social Sciences	Gajendra Singh Chauhan	Applied Linguistics, Media Studies, Business & Advertising Communication, and Soft Skills
	Anil Rai	Science and Logic, working behind world wide music and its practical application in stage performances
	Anupam Yadav	Continental Philosophy Philosophy of Social Sciences
	Devika Sangwan	Feminism, Literature, Creative writing, Cinematic Adaptation
	Hari Nair	Intellectual History and Political Thought
	Kumar Neeraj Sachdeva	Normative Ethics; Ethical Issues in Professions; Indian Philosophy
	Kumar Sankar Bhattacharya	English Literature, Cultural Studies, Postcolonial Theory, Indian Writing
	Pushp Lata	English Language Teaching, Professional Communication, Language, Culture and Communication
	Rajneesh Choubisa	Psychology, Organizational Psychology, Positive Psychology, Online Behavioral Sciences
	SK Choudhary	Linguistics & Phonetics; ELT; Soft Skills
	Sailaja Nandigama	Environment & Development Studies, Political Science, Public Policy, Human Rights, Gender Studies
	Sangeeta Sharma	Advertising and Communication, Gender Studies
	Somdatta Bhattacharya	English Literature, Cultural Studies, Urban Studies
	Sunita Raina	Science and Technology Studies (STS), Sociology, Globalization Studies, Development Studies
	Sushila Shekhawat	Film Studies; English Literature; Mass Communication
	Tanu Shukla	Psychology; Education
	Virendra Singh Nirban	Technology Acceptance Behaviour, Technology enabled education and Communication, Computer Mediated Communication
	Veena Ramchandran	Political Theory, Political Sociology, International Relations Theory, Chinese Domestic Politics,Harmony and Stability Discourse in China, Minority Issues in China, China and Islam , Chinese Foreign Policy,OBOR
Management	.Leela Rani	Sustainable consumption, online brand equity and consumer behavior, retail & consumer behavior, services marketing and e-business productivity
	Anil K Bhat	Marketing research Methodologies/Multivariate Statistical Methods, Strategic Marketing/Social Media Marketing/Post Modern Marketing/Brand Management, Risk Management/Entrepreneurship/Innovation &Business Creativity, Indian Management/Business Ethics and Corporate Social Responsibility and Quality and Business Excellence/Supply Chain Management
	Jayashree Mahesh	Cross Cultural Comparative Management, International Human Resource Management, Managerial Communication, Indian Management - Management Practices of Indian and Global companies, Performance Management in Indian and Global companies, Management Practices in Higher Education Institutes and Understanding Career Path of Millennials
	Jyoti Tikoria	Technology Management, R&D Management, Entrepreneurship
	Neetu Yadav	Strategic Management, Sustainable Strategies, Campus Sustainability, Enterprise Performance Management and System Dynamics
	Praveen Goyal	Corporate Sustainability Assessment, Strategic Management and Marketing Performance, Value Co-creation
	Rajesh Matai	Facility Layout/Location Problem, Combinatorial Optimization Problems, Applications of Theory of Constraints and Meta-Heuristics like GA, SA and Tabu Search
	R. Raghunathan	Entrepreneurship, Health care, Strategy
	Mohammad Faraz Naim	Generational research (Gen Y or Millennials & Gen Z), Talent management, Knowledge management HR Technology, Employer branding

Management	Satyendra K Sharma	Supply chain management, Distribution management, Risk management, Project portfolio management, Best practices in project management, Supply and market intelligence
	Udayan Chanda	Marketing Models,Technology Leakage and Valuation,Inventory Modeling,Software Reliability Growth Modeling,Dynamic Optimization Techniques, Technology Credit Risk, Bayesian Network.
	Achint Nigam	Bionanotechnology, Nano-fertilizers, Plant-microbe interactions, Microbial and Mycorrhizal Biotechnology, AMF Root Organ Culture, Microbial decomposition, Bioremediation, Biomineralization, Soil biological health indicators, Microbial molecular biology
	Saurabh Chadha	Capital Structure, Working CapitalCompany Valuation, Mergers and Acquisitions, Asset Valuation, Investment Research, Corporate Finance and Related Areas
	Nirankush Dutta	Online Social Media Marketing, e-Commerce, Digital Marketing, Green Marketing
Mathematics	Balram Dubey	Mathematical Modelling
	C.B. Gupta	Statistical Inference, Operations research
	Rajiv Kumar	Differential Equations, Nonlinear Analysis
	P H Keskar	Algebra, Algebraic Geometry
	Chandra Shekhar	Queueing theory, Fuzzy logic, Statistical inference
	Rakhee	Applied Probability Theory & Queueing Modelling
	B.K. Sharma	Computational Fluid Dynamics
	Shivi Agrawal	Fuzzy Set Theory, Neural Networks
	Trilok Mathur	Fractional Calculus, Geometric Function Theory
	Devendra Kumar	Singular perturbations, Numerical solutions of ODEs & PDEs
	Ashish Tiwari	Fluid Mechanics
	Sangita Yadav	Finite Element Methods
	Suresh Kumar	Cosmology
	Aniruddha Singh Rana	Fluid dynamics, Computational fluid dynamics,Kinetic theory Non-equilibrium thermodynamics, Computational and mathematical rheology, Finite-Volume methods for hyperbolic-parabolic equations, Monte-Carlo methods Molecular dynamics
	Jitender Kumar	Algebra
	Sumanta Pasari	Probability and Statistics
	Krishnendra Shekhawat	Geometric Graph Theory, Computational Design
	Rajesh Kumar	Uncertainty Quantification, Low Rank Approximation of Tensors, Partial-Integro Differential Equations, Hyperbolic Conservation Laws
	Gaurav Diwadi	Elliptic Partial Differential Equations
	Divyum Sharma	Diophantine approximation and Diophantine equations Transcendental Number Theory, Distribution of sum-of-digits functions
	G. Venkiteswaran	Numerical Solution of PDEs
	Padma Murali	Mathematical Modelling
Pharmacy	R. N. Saha	Pharmaceutics and Pharmacokinetics
	R. Mahesh	Medicinal Chemistry
	Hemant R. Jadhav	Natural Product Chemistry
	S. Murugesan	Medicinal Chemistry
	Gaikwad Anil Bhanudas	Pharmacology
	Rajeev Taliyan	Pharmacology
	Atish T. Paul	Natural Product Chemistry
	Anil Jindal	Pharmaceutics
	Deepak Chitkara	Pharmaceutics
	Sunil Kumar Dubey	Pharmaceutical Analysis, Pharmaceutics, Pharmacokinetics
	Anupama Mittal	Pharmaceutics
	Gautam Singhvi	Pharmaceutics and Pharmacokinetics
	Aniruddha Roy	Pharmaceutics, Drug Delivery
	Murali M Pandey	Pharmaceutics
	Sandeep Sundriyal	Medicinal Chemistry
	Richa Shrivastava	Pharmacology and Toxicology

	Vaibhav A Dixit	Pharmaceutical Chemistry
Physics	R. R. Mishra	Condensed Matter (Theory)
	D. Bandyopadhyay	Condensed Matter (Theory)
	Kusum Lata	Atomic Physics (Theory)
	Anshuman Dalvi	Condensed Matter (Experiment)
	D. D. Pant	Spectroscopy (Experiment)
	S. Sindhu	Condensed Matter (Experiment)
	R. Choubisa	Atomic Physics (Theory)
	R. K. Gupta	Condensed Matter (Experiment)
	V. Manjuladevi	Condensed Matter (Experiment)
	Srijata Dey	Condensed Matter (Experiment)
	Rishikesh Vaidya	Theoretical Particle Physics
	Niladri Sarkar	Condensed Matter (Theory)
	Navin Singh	Soft Condensed Matter (Theory)
	B. Layek	Theoretical Particle Physics
	Madhukar Mishra	Theoretical Particle Physics
	Kaushar Vaidya	Observational Astronomy
	Tapomoy G Sarkar	Theoretical Cosmology
	.J.N. Bandyopadhyay	Complex systems
	S. Gangopadhyay	Condensed Matter (Experiment)
	A. Holkundkar	Plasma Physics
Computer Science & Information Systems	J. P. Misra	Computer Architecture, Embedded Systems & Robotics(File System related Issues for Real time and Embedded Systems, Electronic System Design) High Performance Computing and Distributed Systems(Distributed Computer Control System)
	Sudeept Mohan	Computer Architecture, Embedded Systems & Robotics.
	Navneet Goyal	High Performance Computing and Distributed Systems (HPC Framework for Data Mining) Artificial Intelligence; Machine Learning; Data Mining; Big Data Analytics - Domain Specific Computing Systems; Data Provenance for Relational and NoSQL Databases
	Shan Balasubramaniam	High Performance Computing and Distributed System(Distributed Computing and Service Oriented Architecture) Algorithms & Theoretical Computer Science(Programming Language Theory & Formal Methods)
	Mukesh Kumar Rohil	Image Processing & Multimedia(Multimedia Computing, Computer Graphics, Computer Vision, Image Processing, Geographical Information Systems).
	Poonam Goyal	Machine Learning, Data Mining (Parallelization of Data Mining Algorithms, Information Retrieval, Image Retrieval, Genome Sequence Assembly Algorithms, HPC Framework for Data Mining)
	Yashvardhan Sharma	Software Engineering - OOAD, Testing Sentiment Analysis - Text Summarization, Spam and Sarcasm Detection, NLP tools for Indian Languages Data Warehousing - ETL, Indexing Techniques Machine Learning based Systems Software Application Development.
	K. Hari Babu	Software Defined Networking, Network Function Visrtualization, Cloud Computing, P2P Systems.
	Virendra Singh Shekhawat	Networking and Distributed Systems, Inter Robot Communication in Mobile Adhoc Networks, Delay Tolerant Networking, Software Defined Networking
	Vishal Gupta	Networking and Mobile Computing(802.11 networks and Multi Criteria Decision Making techniques within the domain of Vertical Handover in 3G-WLAN Interworking environment. Ranking algorithms of search engines).
	Vandana Agarwal	Pattern Recognition, Machine Learning, Computational Intelligence, Brain Computer Interface.
	Avinash Gautam	Embedded Systems & Robotics (Cooperative robotics), Distributed Computing, Distributed Artificial Intelligence, Agent Based Systems.
	Sundaresan Raman	Medical Image Analysis, Computer Graphics , Scientific

		Visualization.
Computer Science & Information Systems	Abhishek Mishra	Algorithms & Theoretical Computer Science(Algorithms, Computational Complexity)
	Lavika Goel	Nature inspired intelligence, optimization algorithms, hybrid intelligent techniques, Soft Computing, artificial intelligence, remote sensing, image processing, machine learning, computational intelligence, pattern recognition.
	Kamlesh Tiwari	Machine Learning, Cognitive Computing, Computer Vision, Multimodal Biometric (Fingerprint, Face, Palmprint, Knuckleprint) and Security.
	Ashutosh Bhatia	Computer networks, Wireless Networks (WSN, MANET, VANET, BAN), Software Defined Networking, Network Function Virtualization and Internet of Things.
	Amit Dua	Computer Networks, Ad hoc networks, Network Security, Game theory.
	Mayuri A. Digalwar	Multi-processor/Multi-core Computer Architecture, Real Time Embedded Systems, Power Aware and Sustainable Computing.
	Shashank Gupta	Web Security (Script Injection Attacks, Cross-Site Scripting Vulnerabilities, BotNet Detection, Phishing), Fog Computing, Cloud Security, Block Chain Security, Online Social Network (OSN) Security.
	Pratik Narang	Machine Learning, Deep Learning, Cyber Security
	Rajesh Kumar	Dependability and high performance computing, Cyber-physical systems, Cyber-security risk management
	Vaibhav Soni	Wireless Sensor Networks, Ad Hoc Networks
	Sadhana Jha	Wireless Sensor Networks, Ad Hoc Networks
	Jagat Sesh Challa	Big Data Analytics, Streaming Data, High Performance Computing, Data Structures
	Abhishek	Natural Language Processing, Machine Learning
	Amitesh Singh Rajput	Privacy-Preserving Cloud based Data Computing
	Jatini Bedi	Data Mining, Machine Learning, Predictive Analytics, Text Mining and Big Data
	Jennifer Ranjani J	Digital Image Processing, Remote Sensing, Medical Image Analysis, Data Hiding and Internet of Things.
Mechanical Engineering	Souvik Bhattacharyya	Thermal Science & Natural Circulation Loops
	R.K.Mittal	Robotics
	Mani Sankar Dasgupta	Design, Simulation
	Kuldip Singh Sangwan	Manufacturing
	P. Srinivasan	Production Engineering
	Arun Maity*	Project Management, Manufacturing Excellence
	P. B.Venkatraman*	Decision analysis.
	Bijay Kumar Rout	Quality, Reliability, Operations Research and Robotics
	Abhijeet K Digalwar	Manufacturing Engineering and Management
	Srikanta Routroy	Supply Chain Management, Production Planning and Control, Optimization
	Manoj Kumar S Soni	Solar Thermal and Thermal Engineering
	Sharad Shrivastava	Biomedical Engg, Engineering Materials
	Ravi Shrikrishna Reosekar*	Manufacturing Organization and Management
	R P Mishra	Manufacturing Systems Engineering
	Pavan Kumar Potdar*	Materials Management, Manufacturing Management
	Naga Vamsi Krishna Jasti*	Lean Manufacturing
	Jitendra Singh Rathore	Nano System and Fluidics
	Sachin U Belgamwar	Materials Engineering and MEMS
	Amol M. Marathe	Nonlinear vibrations
	Sudeep Kumar Pradhan*	Supply chain Management, Operation Management
	Palla Murali	Solid Mechanics, Materials Science
	ArunJalan	Dynamics, Vibration
	Srinivas Kota*	Product Design, Life Cycle Assessment
	Tufan Chandra Bera	Manufacturing
	Shyam Sunder Yadav	Computational Fluid Dynamics
	Prateek Kala	Advanced Manufacturing Processes
	Girish Kant	Manufacturing Engineering
	Varun Sharma	Rapid Prototyping, Advanced Manufacturing Processes
	Akash Chand Rai	Air pollution: measurements, modeling, and control

	Simanchal Kar	Surface coating and Manufacturing Technology
Mechanical Engineering	Arindam Das	Nano Materials
	Venkatesh Kadbur Prabhakar Rao	MEMS, NEMS, Dynamics
	Keyur B Joshi	Fluid structure interaction
	Gajanand Gupta	Manufacturing, Reliability based Maintenance
	Dinesh Wamanrao W. *	Thermal Engineering
	Uma Maheswari N*	Thermal Engineering
	Raghu Raman	Thermal Engineering

Goa Campus:

Department	Name of faculty	Research Area
Biological Sciences	Utpal Roy	Applied and Theoretical Research on Antimicrobials
	Meenal Kowshik	Nanobiotechnology
	Judith Maria Braganca	Biodiversity and Biotechnology of Archaea
	Srikanth Mutnuri	Bioremediation
	Veeky Baths	Cognitive Neuroscience, Computational Systems Biology, Computational Neuroscience
	Anasuya Ganguly	Cell and Molecular Biology
	Dibakar Chakrabarty	Drug leads from animal toxins
	Vijayashree Nayak	Nanobiotechnology
	Sumit Biswas	Structural Biology, Biophysics, Bioinformatics, Molecular Biology
	Angshuman Sarkar	Cell Biology, Cell and tissue culture technology, Cancer Biology, Nanotoxicology
	Malabika Biswas	Molecular Biology, Biotechnology
	Sukanta Mondal	Bioinformatics, Computational Biology
	Kundan Kumar	Plant Biotechnology
	Indrani Talukdar	RNA Biology, Stem cell research
	Arnab Banerjee	Reproduction, neuroendocrinology, metabolic disorder
	Raviprasad Aduri	Biophysics, Computational Biology
	Sandhya Mehrotra	Plant Biotechnology
	Rajesh Mehrotra	Plant Biotechnology
	Tusar Tirtha Saha	Insect Molecular Biology & Arthropod Genomics Disease Vector Biology
	Samit Chattopadhyay	Molecular Biology, Cancer Biology, Epigenetics, Immulogy
Chemical Engineering	Saroj Sundar Baral	Wastewater treatment using various processes like adsorption, anaerobic digestion and photocatalytic degradation. Extraction and purification of metals from ores and industrial waste using chemical and biological methods CO2 utilization and conversion
	Srinivas Krishnaswamy	Addressing challenges posed in developing practical cost effective, energy efficient and environment friendly systems from a commercialization point of view (Unmixed Combustion, Applied Process Thermodynamics, CO2 conversion to useful products, Process Intensification in Separation and reactor systems)
	Sutapa Roy Ramanan	Nano-biomaterials for labelling and drug delivery, electroceramicnano powders, thermal interface materials for electronic packaging, thin films for optical and electronic applications
	S. D. Manjare	Fuel Cell (High Temperature Proton Exchange Membrane), Supercritical Fluid Extraction (of natural products for either pharmaceuticals and neutraceuticals purpose), Life Cycle Assessment studies of the process plant, Environmental pollution control
	Manjuri Kumar	Synthesis and characterization of novel Chromium compounds using different

Department	Name of faculty	Research Area
		chelating ligands.
		Advanced thermoset resin system. Development of composites based on polybenzoxazine and studying their thermal and mechanical properties.
		Removal of toxic substances using modified polymer.
	Jegatha Nambi Krishnan	Bio-MEMS – Microfluidic Separation and Detection technologies, Advanced materials for Sensor and Electrochemical applications, Polymer blend membranes for Energy applications
	Asima Shaukat	Rheology of lubricating greases, rheological dynamics of polymer-layered silicate clay nanocomposites, yielding behavior of jammed systems
	Rajagopal Vellingiri	Thin film flows, Wetting dynamics, Hydrodynamic instabilities, Low-dimensional modeling
	Vivek Rangajaran	Bioprocess, Biosurfactants, Bioactives for cosmetic applications
	Pradeep Kumar Sow	Hydrogen production using thermochemical cycles, Fuel cell, Electro-electrodialysis, Electrochemical engineering, Materials with controlled wettability: fabrication and applications, Diagnostic system design.
	Richa Singhal	Nanomaterials, Electrochemical energy storage (EES) devices,CO_2 Mitigation
	Anirban Roy	Thermodynamics, Water-Energy Nexus, Biomedical Devices
	Sharad M Sontakke	UV/ Solar assisted photocatalysis, Catalysis, Value added materials from industrial waste, Solar cells, Polymeric and ceramic membranes, conducting metal oxide synthesis and applications
	Amol Deshpande	Unmixed combustion for heat transfer applications, Transport Phenomena, Computational Fluid Dynamics (CFD) and Reaction engineering (Modeling)
	Paramita Haldar	Molecular simulation techniques, ranging from quantum chemistry to Molecular Dynamics (MD), Kinetic Monte Carlo (KMC), and Nudged Elastic Band Method (NEB). Ionic materials, composite materials, semiconductors and metals.
Chemistry	A.P. Koley	Bioinorganic Chemistry,, Coordination Chemistry
	Sunil Bhand	Biosensor, Environmental Analytical Chemistry, Biochips, Microfluidics for chemical analysis
	N.N. Ghosh	Nanochemistry and nanomaterials Polymer, Materials Science
	R.N. Behera	Molecular simulation of soft matter, electronic structure calculations
	Anjan Chattopadhyay	Computational Photochemistry (Radiative decay, fast non-radiative decay channels-conical intersections)
	Ranjan Dey	Thermodynamics and Transport properties of Liquid Mixtures, Excess Properties, New and Renewable Energy
	P. Bhavana	Synthetic porphyrin chemistry, Photochemistry and Bioinorganic chemistry
	R. N.Panda	Solid State Chemistry, Nano-technology, Nanochemistry and nanomaterials
	Halan Prakash	Photochemistry - Antimicrobial Photosensitiser, Environmental Chemistry-Advanced Oxidation Process, Bioinorganic - Bioconjugates Peptide and Protein Chemistry

Department	Name of faculty	Research Area
	Mainak Banerjee	Heterogeneous Catalysis, Green Chemistry, Development of Chemosensors, Supramolecular Chemistry
	Amrita Chatterjee	Synthetic Organic Chemistry, Molecular sensors, Green Chemistry
	Tincy Thomas	Fluorescence and Photophysical Chemistry
	Rashmi Chauhan	Polymer Chemistry
	K.P. Jayadevan	Oxide Nanomaterials (Nanoparticles, Thin films), First principles computational study of defects in solids and solvation of molecules
	Subhadeep Banerjee	Synthetic Porphyrin Chemistry, Chemistry of Organic Chromophores
	Subhasish Roy	Peptide-based Supramolecular Systems for Biosensor and Bioelectronics.
	Kiran Vankayala	Nanomaterials for energy Solar fuels Electrochemistry Ultrathin layered materials Molecular spin/electronics
Economics and Finance	Aswini Kumar Mishra	Applied Econometrics, Industrial Economics, Behavioural Economics & Empirical Development Economics
	Arfat Ahmad Sofi	Economic Growth & Development, Public Economics, Applied Spatial Econometrics
	Ch.V.V.S.N.V. Prasad	Operations Management, Strategic Management, Marketing, and Information Technology
	Debasis Patnaik	Social sciences, Financial Economics, Environment Economics
	Mridula Goel	International Economic order, Business environment, Entrepreneurship, Gender Issues
	Rajorshi Sen Gupta	Intellectual Property Management, Principal-Agent contracts, Transportation Economics, Simulation
	Sukumar Vellakkal	Macroeconomic policies and health; Impact evaluation; Universal healthcare
	Ritika Jaiswal	Financial Economics, Asset Pricing, Market Microstructure, Financial Derivatives
	Richa Shukla	Economics of Innovation, Industry Structure, Competitive Strategy
Humanities and Social Sciences	Reena Cheruvalath	Ethics, Cognitive Science, Education Literary Studies
	Bidisha Banerjee	Health and Social Psychology, Qualitative Psychology, Mental Health, Public Mental Health, Family Studies
	Basavadatta Mitra	Cross Cultural Communication, Renaissance Drama
	Geetha B	Film Studies, Digital Humanities (with special focus on folk arts)
	Geetha KA	Dalit Literatures, Post -Colonial Literatures, Literary and Cultural Studies
	R.P. Pradhan	International Relations; Political Economy; Maritime Studies & Blue Economy; International Trade & Development; Development Economics; Diaspora & Migration Studies.
	Shalini Upadhyay	Communication, ELT,, Indian Writing in English, Spiritual Intelligence
	Hareesh. A.G	Philosophy of Science
	Rayson K. Alex	Ecocriticism, Media and Ethnography, Ecodocumentary, Aesthetics, Cinema
	Nilak Datta	Postmodernism, American Fiction, Tourism Theory, Literary and Cultural Studies

Department	Name of faculty	Research Area
	Rajiv Kumar Chaturvedi	Climate Change, Forests ecology and Public Policy
	ParichayPatra	Film Studies
Humanities and Social Sciences	Sayantani Sarkar	Public Policy
	Mohan Kumar Bera	Disaster Management, Environmental Adaptation, Tribal Development and Sociology
	Solano Da Silva	Development Studies, Political Science
	Lakshmi Subramanian	Social and Maritime History, Cultural Studies
Electrical and Electronics Engineering	Raghurama G.	Communication Systems, Telecommunication Networks
	M.K. Deshmukh	Hybrid Energy Systems, SPV, Wind Power, Modeling & Simulation, Smart Grids, Policy, Planning, Education
	K.R. Anupama	Network Embedded Systems - WSN, Vehicular Networks, Biomimetics
	Dipankar Pal	Analog & Digital ASIC Design, Low power, low collage circuits & Systems, Function Circuits and Data Converter Design.
	Anita B. Agrawal	System study and simulation, System on chip, Embedded System prototype design using FPGA/PSoC,, Sensors and data acquisition system
	A. Amalin Prince	FPGA based signal & image processing systems, Reconfigurable Hardware Accelerators, MEMS and applications
	Ramesha C.K	Device Modelling and Simulation, Microelectronics, VLSI Design
	Abhijit Pethe	Nanoelectronics, nanotechnology, neuromorphic computing, bio-inspired computing and devices
	Narayan S Manjarekar	Systems and Control, Non-linear Control Systems, Passivity based control, Dynamic Control of Electrical Power Systems, Robotics,
	Nitin Sharma	Wireless Communication Systems, IoT(D2D Communication), Cloud RAN, GNSS Signal Processing, Software Defined Networking
	Shashidhara Mecha Kotian	Power System Dynamics
	Gautam G. Bacher	Micro & Nano Biosensors, Impedimetric sensors, Electrochemical Impedance Spectroscopy
	Pravin Mane	VLSI Design, Reconfigurable architectures using emerging nanodevices, approximate arithmetic circuits
	Sarang C Dhongdi	Underwater Acoustic Sensor Network, Digital Signal Processing
	Sudeep Baudha	Radio Frequency and Microwave Engineering, Antenna Design
	Hrishikesh S. Sonalikar	Radome Design, Computational Electromagnetics, Antenna Design, Frequency Selective Radar Absorbers (FSR)
	Ashish Chittora	Microwave Engineering, Antenna design, High Power Microwave
	Mithun M.S	Instrumentation & Measurements, Condition Monitoring, Inductive/capacitive sensors
	Naveen Gupta	Next generation cellular networks, Device to device communication, cooperative cognitive radios, mmwave
	Chembiyan Thambidurai	Wireless system design, design of low noise PLLs and Analog Circuit Design
	Vivek Chandran K P	System control and dynamics, Estimation
	Ch. S. Sankhar Reddy	Wireless Sensor networks
	Rakesh K Warier	Control systems Robotics, Unmanned Aerial Systems, Underwater Vehicles Nonlinear Estimation

Department	Name of faculty	Research Area
		Differential Geometric Methods in Mechanics and Control Formation Flying, Multi-agent Systems Artificial Neural Networks, Reinforcement Learning
	Soumyabrata Barik	Electrical Power Systems, Electrical Distribution Networks, Renewable DG Integration, Soft Computing Techniques, Microgrid
	Varun Sharma	Area of Interest: Microelectronics, Nanoelectronics, Atomistic Device Modeling, Materials-Device Interfacing, Device-Circuit Interaction. Research Interest: Modeling the electronic-transport in nanoscale devices (using DFT-NEGF formulism), Contact engineering, Spintronics, Interconnect designs.
	Pramila Jakhar	Electrochemical Biosensors, Conducting Polymers, Organic and inorganic hybrid devices, Electropolymerization, Hydrothermal growth technique, Metal deposition techniques.
	Noel Prashant Ratchagar	Biosensors and MEMS: Silicon nanoporous membranes for dialysis Electrolyte insulator semiconductor capacitor (EISCAP) to estimate Triglyceride concentration. Microfabrication technology
	Anurag Nishad	Non-stationary signal processing (physiological signals, speech signal), Time-Frequency Analysis.
Mathematics	Anushaya Mohapatra	Dynamical Systems, Mathematical Biology.
	Mayank Goel	Portfolio Optimization Problems. Financial Mathematics
	Shilpa Gondhali	Algebraic Topology. Homotopy Theory
	Anil Kumar	Control theory, Numerical methods for ordinary and partial Differential Equation
	Prasanna Kumar	Geometric Function Theory, Approximation Theory, Mathematical Geosciences
	Himadri Mukherjee	Commutative algebra, Algebraic geometry, Graph theory, Combinatorics
	P. Dhanumjaya	Finite Element Methods, Numerical Analysis, Computational Partial Differential Equations, Mathematical Biology
	Manoj Kumar P.	Hyperbolic Systems of Partial Differential Equations , Nonlinear Gasdynamics, Group Theoretic Methods for PDEs
	Prabal Paul	Cryptography, Number theory, Coding theory
	Bijil Prakash	Linear Algebra, Image Processing, Genetic Algorithms, Integral Equations, Optimisation
	Pradeep Boggarappu	Harmonic Analysis on Euclidean space and Heisenberg Group.
	J K Sahoo	Numerical Linear Algebra, Tensor Analysis, Machine learning
	Gauranga Samanta	Cosmology, Inventory Models
	Amit Setia	Wavelet based numerical methods to solve dynamical systems
	Tarkeshwar Singh	Graph Theory
	Mizanur Rahaman	Quantum information theory, Operator algebras, Functional analysis
	Vijay Madhukar Patankar	Number Theory; especially Algebraic Number Theory, Galois Representations, Abelian Varieties, Modular forms Arithmetic Complexity Theory Cryptography; especially Cryptography having

Department	Name of faculty	Research Area
		number theoretic flavour, Elliptic Curve Cryptography Interested in the following - but yet to do much about these: Origami, Origami and Mathematics Magic, Magic and Mathematics
Physics	Kinjal Banerjee	Classical and quantum gravity
	Gaurav Dar	Nonlinear Dynamics
	Prasanta Kumar Das	High energy Physics, Astrophysics and Cosmology
	P N Deepak	Nuclear Physics
	Tarun Kumar Jha	Nuclear Astrophysics
	Teny Theresa John	Condensed matter
	Toby Joseph	Condensed matter
	Arun V Kulkarni	Nuclear and Theoretical Physics, Gravitational waves (theory), Modelling of Scanning probe microscopes.
	E S Kannan	Condensed matter
	P Nandakumar	Nonlinear optics
	Ram Shanker Patel	Condensed Matter
	Raghunath Ratabole	High energy Physics
	V Sunil Kumar	High energy Physics
	Chandradew Sharma	High energy Physics
	Radhika Vathsan	Mathematical physics, Quantum information theory
	Swastibrata Bhattacharya	Condensed matter
	Rudranil Basu	High energy physics
	Prasad Naik (Vis. Prof.)	Optics, Lasers, Plasma
Computer Science & Information Systems	Ashwin Srinivasan	Data Science, Machine Learning: Inductive Logic Programming, Machine Learning and ILP to real- world problems: computational Biology, Neuro-Symbolic learning, Optimal search theory.
	Neena Goveas	Network Science, Computer Networks, Low dimensional systems
	Baskar A	Formal Languages and Automata Theory, Logic in Computer Science, Security Protocols and Verification
	Bharat M. Deshpande	Optimization, Data Mining
	Biju K. Raveendran	Real-Time/Embedded systems, Operating systems for multicore architectures, Energy Cache architectures
	Debasis Das	Vehicular Ad-Hoc Networks, Vehicular Cloud Computing, Internet of Things(IoT), Internet of Vehicles(IoV), Blockchain, Multi Keyword Search and Database Encryption, Smart City, and Network Security
	Ramprasad Joshi	Formal theory of heuristic computation, geometry of local search algorithms, optimization, natural language processing, artificial intelligence and robotics
	Sanjay K. Sahay	Information/Network Security, Cryptography, Data Science, and Gravitational waves
	Santonu Sarkar	Software engineering, Optimization of energy consumption- for distributed, virtualized and mobile platforms
	Swati Agarwal	Security Informatics, Social Computing, Natural Language Processing
	Rizwan Parveen	Software Engineering, Cyber Physical System, IoT
	Sreejith V	Wireless Networks , Cyber Physical System, Affective Computing, IoT
	Tirtharaj Dash	Data Science, Deep Learning, Deep Relational Learning, Optimisation and Machine Learning
	Hemant Rathore	Data Science, Malware Analysis, Network

Department	Name of faculty	Research Area
		Security,
	Anup Basil Mathew	Logic and Automata Theory, Verification and Synthesis of Distributed Systems
	Basabdatta Bhattacharya	Spiking Neural Networks; Mean Field (Lumped parameter) Neural Networks; Bio-inspired Convolutional Neural Networks; Computational Neurology; Neuromorphic computing; Neural (Energy efficient) Information Processing.
	Geeta Patil	Energy Efficient Cache Architecture; Real time system cache architectures
	Raj Kumar Jaiswal	Vehicular Network, Internet Security, Blockchain.
	Shubhangi K. Gawali	Real time systems, energy autonomous real time and embedded systems
	Soumyadip Bandyopadhyay	Formal Methods, Software Engineering, Cyber Physical systems, Program analysis
	Sujith Thomas	Data Science, Human visual category learning, Computational modelling, Cognitive Science
	Vinayak Naik	Mobile Computing, Wireless Networks, IoT, Software Defined Networking, and Blockchain
	Kanchan Manna	Embedder Systems, Multicore-based Systems Design and Test, System Security
	Pritam Bhattacharya	Bionanotechnology, Nano-fertilizers, Plant-microbe interactions, Microbial and Mycorrhizal Biotechnology, AMF Root Organ Culture, Microbial decomposition, Bioremediation, Biomineralization, Soil biological health indicators, Microbial molecular biology.
	Snehanshu Saha	Theory of Shallow Neural Nets Chaotic Neural Networks Swarms and Super-optimizers Differential Equation based Modeling in Neural Networks Kernels in Neural Nets Classification in Large Astronomy Data Sets
Mechanical Engineering	D.M. Kulkarni	Fracture, Biotribology, 3D Printing
	P.M. Singru	Dynamics, Vibration
	Dr. Shibu Clement	Experimental Aerodynamics
	Sachin D.Waigaokar	Rotational Moulding, FRP Composites
	Ranjit S. Patil	Fluid-Thermal
	G. Karthikeyan	Micromachining
	Vikas V. Chaudhari	Fracture Mechanics
	Varinder Singh	Manufacturing System
	Kiran D. Mali	Mechanics, Vibrations
	Sandeep Jose	Solid Mechanics
	Sandeep Singh	Solid Mechanics
	Pritanshu Ranjan	Computational Fluid Dynamics
	Vadiraj Hemadri	Gas Dynamics, Microfluidics
	Siddhartha Tripathi	Fluid mechanics, Bio-microfluidics
	Devendra G. Patil	Vibration, Smart materials
	Abhilash Tilak	SCNCL, Microchannel
	Ravindra Saluja	CAD/CAM
	Amal Siju	Manufacturing Engineering

Hyderabad Campus

Department	Name of faculty	Research Area
Biological Sciences	Suman Kapur	Genetic markers, Medicinal phyto-chemicals, Biomarkers and Medical devices
	Vidya Rajesh	Malaria vaccine candidates, Analysis of candidate genes for autism, Bioremediation
	Ramakrishna Vadrevu	Structural Biology; Protein Folding; Protein Design/Engineering: Self-assembly/amyloids and nano-

Department	Name of faculty	Research Area
		materials; Protein Modelling and small molecule inhibitors for diseases (Alzheimer's etc)
	Kumar Pranav Narayan	Liposomal Gene delivery system for targeted therapeutics and diagnostics of cancer, Use of phyto-compound for the formulation of anti-cancer drugs, bio fertilizer and bio pesticide. Biodiversity of agriculturally important microorganisms
	Sankar Ganesh	Environment and energy, Anaerobic digestion, Nano(eco)toxicology, Composting, Vermicomposting, Termigradation, Solid waste management, Technology for Pedagogy.

Department	Name of faculty	Research Area
Biological Sciences	K. Naga Mohan	Human Molecular Genetics, Epigenetic mechanisms of development, Genetics of psychiatric disorders and Genetic diagnostics
	Jayati Ray Dutta	Microbial Enzymology and its applications in biofuel production, polymer degradation for bio implantation and bio sensing; Nano biotechnology.
	Sridev Mohapatra	Plant-microbial interaction, plant signalling, stress tolerance and induced stress resistance in plants
	Debashree Bandopadhyay	Structure function relationship in macromolecular assemblies including DNA, proteins and ligands both under normal and diseased condition
	Vivek Sharma	Role of lncRNAs in regulation of gene expression in cancer and neuroinflammation.
	Gireesha T Mohannath	Epigenetics of Ribosomal RNA (rRNA) gene regulation and genomic instability, antiviral defense.
	Ruchi Jain Dey	Mucosal Associated Invariant T cells (MAITs), dysbiosis in various medical conditions, Development of point of care diagnostic tool to diagnose dysbiosis in clinical conditions such as pre-term birth, infertility, Genito-urinary TB, HIV and gut tuberculosis and Crohn's disease.
	Piyush Khandelia	RNA epitranscriptomics, post-transcriptional regulation of skeletal muscle development and myopathies
	Trinath Jamma	Microbiota derived metabolites influencing immune cell differentiation and function
	Pragya Komal	Ligand gated ion-channels crosstalk and dysfunction in neurological disorders like Schizophrenia and Huntington's disease
Chemical Engineering	I. Sreedhar	Reaction Engineering, Process Development, Heterogeneous Catalysis, Green Processes ,Process Intensification, Fluid Rheology, Carbon Capture and Utilization, Effluent Treatment Energy Integration.
	Srikanta Dinda	Reaction Engineering & Catalysis, Development of endothermic fuel by hydrocarbon cracking, Development of resin for paint and coating application, Synthesis of bio based adhesives and plasticizer materials. Material development for CO2 capture and its utilization.
	D. Purnima	Natural Fiber Reinforced Polymer Composites, Hybrid Polymer Composites, Polymer Blends, Polymer Rheology, Polymer Membranes.
	Balaji Krishnamurthy	Electrochemical Engineering, Batteries, fuel cells, Polymers, Water treatment, bio fuel cells
	Ramesh Babu Adusumalli	Mechanical Characterisation of Polymers, Fibres and Composites, Natural cellulose fibres and Man made cellulose fibres, Micro and nano mechanics of Fibres ,Wood and Wood based Composite Materials, Fibre reinfroced Polymers (FRP) and Ceramic Matrix Composites Vegetable oils and their Chemical analysis, Solid Waste Management (Material Recycling and Incineration)
	Karthik Chetan. V	Development of Biomaterial based formulations for 3-D printing and electrospinning techniques. The work involves product development and process optimization for

		adhesive/binder, food/gels, 3-D printing, microencapsulation and tissue engineering applications Real-time investigation of processes such as, polymerization, protein denaturation, liquid-liquid phase separation, glass formation, annealing, physical aging and corresponding secondary relaxation processes by using dielectrics, calorimetry, ultrasonics and thermal conductivity techniques. Materials characterization by using dielectrics, specific heat spectroscopy, dynamic mechanical spectroscopy, rheological spectroscopy, ultrasonics, thermal conductivity and electron microscopy techniques in characterizing a range of materials or products such as, polymers, biopolymers, gels, emulsions and colloids, coatings and adhesives, advanced composites etc..
	Vikranth Kumar Surasani	Pore Network Modeling in Process Engineering, Reactive Transport Modeling of Biogeochemical Interactions, Numerical Simulation of Souring and Desouring phenomena in petroleum reservoirs, Numerical Simulation of Chemical-Looping-Combustion, Population Balance Modeling of Continuous Wet Granulation of API, Processing and Refinement of Municipal-Solid-Waste as Alternative Fuel.
	Lakshmi Sirisha	Recovery and purification of industrially important enzymes like Inverstase from yeast microbes. Process development and optimization using simulations in pharmaceutical production. Process integration, with novel technologies like Reactive Distillation.
	Angan Sengupta	Continuum modeling of flames to study its dynamic properties under various environmental conditions Continuum modeling of confined and unconfined vapour cloud explosions to study its dynamic properties under various industrial and transport conditions Optimal safe layout of fuel tank farms during fire spread Determining adsorption and desorption properties and hysteresis of fluids confined inside chemically modified nano-pores using molecular simulation techniques Prediction of thermodynamic phase properties and dynamic properties of nano-confined fluids, from the view point of environment and energy aspects; by using the recently developed molecular simulation techniques
	Nandini Bhandaru	Nanotechnology, Soft Lithography, Polymer Thin Film Instability, Polymer Blends, Atomic Force Microscopy, Microfluidics. Development of superomniphobic surfaces for self-cleaning and antimicrobial applications Studying self-assembly and spatial organization of biomolecules
	Satyapaul Singh Amarthaluri	Heterogeneous Catalysis; Reforming; CO Abatement; Photocatalysis; Reaction Kinetics; Network Modeling; Adsorption
	Pankaj Kumar	Biofuels, Heterogeneous catalysis, Kinetic modeling, Reaction mechanism, Pyrolysis of biomass
Chemistry	G.Sundar	Theoretical Chemistry, spectroscopy
	N.Rajesh	Environmental analytical chemistry
	Subit Kumar Saha	Physical Chemistry, Spectroscopy, Study of Soft Matter Systems
	K. Sumithra	Theoretical/Computational Chemistry
	K V G Chandra Sekhar	Medicinal Chemistry
	Krishnan Rangan	Inorganic Chemistry, supramolecular chemistry, Molecular –organic Framework
	Jayanty Subbalakshmi	Multi-functional molecular materials

	Manab Chakravarty	Functional organic molecules as solid state emitters: Sensing
	Anupam Bhattacharya	Synthetic Organic Chemistry
	Balaji Gopalan	Materials Chemistry
	Ramakrishnan Ganesan	Materials Chemistry
	Amit Nag	Spectroscopy, plasmonics
	Sounak Roy	Solid State Chemistry, Material Chemistry, Catalysis
	Durba Roy	Physical Chemistry, Computation
	Tanmay Chatterjee	Development of New Synthetic Methodologies, Synthesis of bioactive molecules
	Amit Ashok Vernekar	Chemical Biology, Drug Development, Nano Technology, Energy and Environmental Science
	Chanchal Chakraborty (DST Inspire Faculty)	Electrochromic Materials & Devices
	Himanshu Aggarwal	Metal organic frameworks , gas adsorption, host-guest chemistry, inorganic chemistry
Civil Engineering	P N Rao	Structural Engineering: Concrete Technology, Energy Efficient Buildings, Non Linear Finite Element Analysis of Structures, Soil Structure Interaction, Wind Load Analysis of Structures
	K S Raju	Water Resources Engineering: Impact of Climate, Change on Water Resources , Water Resources Systems, Multi Objective Optimization and Decision Making, Soft Computing and Evolutionary Algorithms
	V Vinayaka Ram	Transportation Engineering: Flexible Pavement Material Characterization, Rigid Pavement Material Characterization, Highway and Runway Pavement Design and Evaluation, Building Materials, Other Allied Areas
	A Vasan	Water Resources Engineering: Optimization using heuristic methods like Differential Evolution, Genetic Algorithms, Fire Fly Algorithm, Ant Colony Optimization, Particle Swarm Optimization, Simulated Annealing etc., Water Resources Systems Planning and Management, Water Distribution Networks Design Optimization, Multi Criterion Decision Making Methods
	Jagadeesh Anmala	Water Resources Engineering: Fluid Mechanics, Environmental Hydraulics and Water Resources, Surface and Subsurface Hydrology, Computational Fluid Dynamics, Soft computing in Civil Engineering , Stream Hydrology
	Sridhar Raju	Transportation Engineering: Utilization of Reclaimed Asphalt Pavement in Bituminous Mixtures, Characterization of Polymer Modified Bitumen with warm mix additives, Utilization of waste plastic and crumb rubber for city roads, Half Warm Mix Asphalt Mixtures using Polymer Modified Bitumen Emulsion and Pavement Asset management
	K Rajitha	Remote Sensing & GIS:
	Murari R R Varma	Water Resources Engineering: Watershed hydrology and management, Experimental and field hydrology, Hydrochemistry of watersheds, GIS Applications in hydrology Environmental hydrology, Sustainable technologies related to civil engineering
	Chandu Parimi	Structural Engineering: eXtended Finite Element Method (XFEM), Computational Mechanics, Computational Geometry,Topology Optimization, Nanoscience and Nanotechnology, Structural

		Dynamics, Fracture Mechanics, Structural analysis and design
	Mohan SC	Structural Engineering: Earthquake and vibration control, Structural Health Monitoring, Fatigue and fracture mechanics, Smart structures, Computational cost reduction
	Anasua Guharay	Geotechnical Engineering: Reliability Application in Retaining Structures, Sensitivity Analysis, Utilisation of Construction and Demolition Waste for Ground Improvement, Ground Improvement with treated natural fibers, Slope stability with natural fibers and grass roots, Geopolymerisation of expansive soil with alkali activated binders, Ground improvement with biochar and water hyacinth fibers, Soil Dynamics
	Arkamitra Kar	Structural Engineering: Development and characterization and of concrete with alkali-activated aluminosilicates as sustainable or 'green' building materials, Correlation between microstructural properties of cementitious paste with mechanical properties of concrete at specimen scale, Study of the polymerization or hydration chemistry of cementitious systems depending on the type of binder, Development of models to predict strength, stiffness, and deformation characteristics of concrete with alkali-activated binder, Life cycle assessment of concrete with alkali-activated binder, Bacterial inclusions in concrete, Treatment methods for geotextiles, Durability of concrete with Alkali-Activated Binders
	Sri Kalyana Rama J	Structural Engineering: Scientific ways of mix design for Alkali-activated Concrete/Self Compacting Concrete incorporating Sustainable Materials, Experimental and Numerical evaluation of Fracture properties of Concrete , Non-linear behavior of Reinforced Concrete Structures with different plasticity models, Behavior of structures with conventional and novel strengthening techniques subjected to lateral loads-Numerical investigation
	Bandhan Bandhu	Travel behavior and choice modelling; Non-motorized Transport; Sustainable Transportation; Transportation Safety; Road Traffic Crash Data Analysis and Evaluation; Traffic Engineering; Geometric design consistency
	Bahurudeen A	Concrete structures: Durability of concrete structures (Assessment; Laboratory test methods; Performance specifications), Cement chemistry and hydration process, Heat of hydration, Sophisticated Characterization Techniques for the evaluation of construction materials, Non- destructive Techniques for assessment of structures, Evaluation of admixture performance, Alkali activated binder system, Development of new alternative materials
CSIS	Chittaranjan Hota	Analytics, IoT,Networks, Security
	R.Gururaj	Databases, Information Systems, WSN
	N.L.Bhanu Murthy	Machine Learning, Software Intelligence & Engineering
	Tathagata Ray	Computational Geometry, Graphics
	G Geethakumari	Information security, Cloud Computing, Cloud Security
	Aruna Malapati	Big Data, Data Mining, Information Retrieval, Bio Informatics
	Barsha Mitra	Security Analysis of Access Control Models

EEE	Suvadip Batabyal	Mobile Opportunistic/Delay Tolerant Networks, Visible Light Communication, Quantum Computing, Security with Scheduling in Real-Time Systems
	Subhrakanta Panda	Program Slicing , Change Impact Analysis Software Testing, Regression Testing, Software Metrics, Aspect Mining, Semantic Analysis, Graph Theory Applications, Security Testing, Cloud Computing
	Sudeepta Mishra	Radio resource allocation, Interference management. Heterogeneous cellular networks. Femto cells, mmWave communication in 5G cellular networks.
	Lov Kumar	Software Metrics, Software Quality, Quality of service, Machine Learning, Software maintainability prediction, Software fault prediction, Software change proneness prediction
CSIS	Jabez J Christopher	Data Mining, Machine Learning and Swarm Intelligence Algorithms, benchmarking and evaluation of optimization algorithms.
	Odelu Vanga	Remote User Authentication, Attribute-Based Authentication, Blockchain-Based Authentication, Attribute-Based Encryption, Hierarchical Access Control
	Paresh Saxena	Design and implementation of network coding protocols for reliable and robust communications, wireless and satellite networks, drone communications, machine learning and video streaming protocols.
	Rajib Ranjan Maiti	opportunistic networks and its security and privacy, Human mobility pattern and its application, Internet of things: application and challenges, Cyber security in internet of things and cyber physical systems, Applied machine learning , Security and privacy in wireless LAN (Wi-Fi, BLE, Zigbee)
	Surender Singh Samant	Data Mining, Information Retrieval
	Gokul Kannan Sadasivam	Networks Security
	Manjanna	Algorithms, Computational Geometry
	Siva Kumar D	Cloud data security
Economics and Finance	Niranjan Swain	Corporate Finance
	China Hussain Yaganti	Commodity Derivatives Markets, Macroeconomics, Agricultural Marketing and Supply chain management
	Durgesh Chandra Pathak	Development Economics, Public Policy, Impact Assessment of Development Projects, Microfinance, Poverty & Inequality Analysis, Applied Econometrics (Microeconometrics), Applied Game Theory
	Sudatta Banerjee	Economic Growth, Development Economics, Gender Studies, Educational Economics, Applied Econometrics, Child Health and Education
	Archana Srivastava	International Economics, Labour Issues
	Swati Alok	Human Resource Management / Organizational behaviour : Employee Engagement, Career Management, Conflict Management Gender studies Capacity Building
	Rishi Kumar	Development Economics, Poverty & Inequality, Impact Evaluation, Health Economics, Rural Development and Applied Econometrics
	Thota Nagaraju	Financial Economics, Development Economics
	Dushyant Kumar	Conflict theory , Organization Theory
	Mini Thomas	International Trade in Services, Service Sector, and Global Value Chains, Macroeconomics, Economic Growth and Structural Transformation
	Bheemeshwar Reddy	labour economics, development economics and demography
	Sunny Kumar Singh	Macro-Monetary Policy; Central Banking; Payment Systems; Economics of Corruption
	R. Raghunathan	Strategy, entrepreneurship, (Scholarship of) Teaching and learning
EEE	M. B. Srinivas	VLSI Arithmetic, Mixed Signal Design, Low power Design, Renewable Energy, Wireless Sensor Networks, Biomedical

		instrumentation, Tele- medicine, Reversible Computing, Signal Processing
	BVVSN Prabhakar Rao	Biomedical Signal & Image Processing, biosensors for detection of cardiac/cancer biomarkers
	Sanket Goel	Microfluidics, MEMS, Lab-on-a-chip, Nanomaterials, Nanofabrication, Medical Diagnostics, Point-of-Care devices, 3D printing, Fuel Cells (Biofuel Cells), Hydrogen, Solar, Smart grids, Decentralized and Distributed Generation.
	Subhendu Kumar Sahoo	VLSI architecture for Digital Signal Processing
	Alivelu Manga Parimi	Power Systems: FACTS, Power system stability, Power Quality, Renewable Energy Sources, Reactive Power Compensation, Microgrids
EEE	Prasant Kumar Pattnaik	Photonics, Optical Communications, Photonic Integrated Circuits, MEMS
	Venkateswaran Rajgopalan	Magnetic Resonance Imaging (MRI) and Positron Emission Tomography (PET)
	Runa Kumari	Dielectric Resonator Antenna, Log periodic Antenna, Reconfigurable Antenna, Microstrip antenna, Antenna Array.
	Sumit Kumar Chatterjee	Digital VLSI Design, Video Compression, Low power architectures
	Souvik Kundu	Nanoelectronics; Neuromorphic Computing; Neural Networks; Photovoltaics & Photodetectors; Materials for Electronics; Design & Fabrication of Electronic Devices, etc.
	Soumya J	Network-on-Chip (NoC) design, Application-Specific Synthesis of NoC, Reconfigurable NoC design, Fault-Tolerant NoC Design, FPGA implementation of NoC based designs, Artificial Neural Networks for NoC based architectures
	Surya Shankar Dan	1. Physics Based Nano-electronic Device Compact Modeling for State-of-the-Art VLSI IC Designs 2. Device Physics of `Beyond CMOS´ State-of-the-Art Device Technologies and Their Simulation 3. High Performance, Low and Ultra-Low Power VLSI Circuit Designs and Topologies 4. Characterization Methodologies and Algorithms for Device Simulator Design
	Shaikshavali Chitraganti	Modeling, identification, control of Networked control systems, Switching systems, Statistical signal processing
	Syed Ershad Ahmed	VLSI Arithmetic Circuits, Low Power VLSI Design
	Chetan Kumar	Computer Arithmetic, CNFET based Multi-valued logic design
	Harish V Dixit	Microwave Engineering, Active and Passive High Power Microwave/RF Devices
	Mithun Mondal	Condition monitoring and diagnostic of transformers, Insulation diagnostic, Frequency response analysis of trannsformers, Modelling and analysis of High Voltage apparatus
	Saroj Mondal	VLSI circuits & Systems, Energy processing circuits, Energy harvesting circuits, IoT Interface circuits, Semiconductor Memories, Micro-Scale DC-DC converter, Reference generator;
	Radhika Sudha	Power Electronics application in Renewable energy and Electric drives, Wavelets based Pattern Recognition for Remote sensing (Aerial, Satellite, UAV) Image processing and AI based Industrial machine health condition monitoring
	Manish Narwaria	multimedia signal processing, statistical data analysis, machine learning, and psychophysics. Specific interests in computational modeling and analysis of perceptual factors in multimedia signals (such as video, image, speech and computer generated imagery).
	Sayan Kanungo	Simulation and Modelling of Semicoductor Devices and Materials for sensing applications, Electronic properties

		and carrier transport in 2D Materials, Physics of nano-scale transistors
	Sourav Nandi	Substrate Integrated Waveguide (SIW) Antenna, Microstrip Antenna, MIMO Antenna
	Ponnalagu R N	Development of signal conditioning circuits for sensors, Direct sensor to microcontroller interface circuits, Patient and equipment monitoring systems
	Rajesh K Tripathy	Cardiovascular Signal Processing, Neural Signal Processing, Cardio-Pulmonary Coupling and Circadian Monitoring, Sparse representation and dictonary learning, Sensor data processing and Pattern recognotion, Multimodal affective computing, Medical image processing, and Biomedical Instrumentation
	Karumbaiah C N	Gas sensors, Bio-sensors, MEMS, nano-resonators, mechanical computing, nano-lithography, 1D/2D materials, water-splitting.
	Prarikshit Sahatiya	Flexible and wearable electronic devices, nanomaterials, nanoelectronics, smart personal healthcare monitoring, photodetectors, 2D materials, piezotronics, papertronics, artifical electronic skin
	Prashant Wali	Energy Efficient Medium Access Control Algorithms for LTE-Advanced and 5G, Traffic Scheduling in 4G/5G broadband wireless networks, Call Admission Control in LTE-Advanced and Wireless Backhauling in 5G.
	Ramakant Yadav	Optimization of Tunnel FET Devices for Ultra-Low Power Application. Nano-electronic devices for Ternary Logic Applications.
	Sandeep Kumar	Metamaterial-based antenna design for wireless applications.
	Balasubramanian M	Photonics, Optical Communications, Photonic Integrated Circuits, MEMS
Humanities and Social Sicences	M.G. Prasuna	Comparative Literature; Indian Literature; Minority Literature
	Sunny Jose G.	Public Policy; Development Studies; Gender Studies
	Shilpaa Anand	Disability Studies; Medical Humanities; History of Ideas
	Aruna Lolla	Indian Philosophy; Spiritual Poetry
	Maya Vinai	Indian English Fiction; Maritime (Indian Ocean) Narratives; Postcolonial Literature
	Santosh Kumar Mahapatra	Critical Pedagogy; Language Assessment; English for Specific Purposes
	Biswanath Dash	Science Technology Studies; Disaster Management
	Suchistmita Satpathy	Political Economy of Urban Space; Corporate Social Responsibility; Urban Policy
	Lavanya Suresh	Political Ecology; Public Administration; Decentralisation
	Pranesh Bhargava	Linguistics; Speech and Hearing; Cognitive Sciences
	A.K. Jayesh	Indian Madhyamika Philosophy; Philosophy of Literature
	Anhiti Patnaik	Cultural Studies; Crime Fiction; Victorian Literature
	Aswathy Raveendran	Science, Technology, Society Studies; Gender and Science; Science Education
Mathematics	Dipak Kumar Satpathi	Mathematical Modelling of Biological Systems, Fluid Mechanics, Financial Mathematics
	Addepalli Ramu	Computational Fluid Dynamics
	Bivudutta Mishra	Cosmology and Relativity, Dark Energy, Modified Theories of Gravity
	Kota Venkata Ratnam	Mathematical Modelling
	Praveen Kumar P T V	Multivariate Data Analysis
	Pradyumn Kumar Sahoo	Relativity, Cosmology, Dark Energy, Dark Matter, Wormhole Geometry and Alternative Theories of Gravity
	A Michael Alphonse	Graph Theory
	Sai Lakshmi Radhika Tantravahi	Fluid Dynamics
	Manish Kumar	Pseudo-Differential Operators, Wavelet Analysis, Image Processing
	Jaganmohan Jonnalagadda	Differential Equations

	Sumit Kumar Vishwakarma	Seismic Wave Propagation
	Naraparaju Kishore Kumar	Numerical Solutions to Partial Differential Equations
	Sharan Gopal	Topological Dynamics
	N Anil	Ad joint Methods for Aerodynamic Optimization, High Performance Computing, Mesh Free Methods
	Jhuma Sen Gupta	Numerical Functional Analysis
	V Venkata Hara Gopal	Multivariate Data Analysis, Pattern Recognition, Mathematical Statistics
	Santanu Koley	Integral Equations
	Deepika	Infinite Dimensional Holomorphy
	Debopam Chakraborthy	Algebraic Number Theory
	Pratyusha Chattopadhyay	Algebra
	Savyasachi	Cryptography
	Nirman G	Quantum Information Theory
	K Bhargav Kumar	Partial differential equations
	G Murali Mohan	Numerical Analysis and Partial-differential equations
Mechanical Engineering	MorapakalaSrinivas	Thermal
	NandanavanamJalaiah	Production/Manufacturing
	Amit Kumar Gupta	Manufacturing
	SrinivasaPrakashRegalla	Manufacturing
	Kurra Suresh	Thermal
	JeevanJaidi	Thermal
	Y VenkatDaseswaraRao	Manufacturing
	N Suresh Kumar Reddy	Manufacturing
	NitinRameshraoKotkunde	Manufacturing
	SandipShridharraoDeshmukh	Thermal
	PhaneendraKiran C	Manufacturing
	Khalid Anwar	Thermal
	Amrita Priyadarshini	Manufacturing
	SabareeshGeethaRajasekharan	Design
	R Parameshwaran	Thermal
	Satish Kumar Dubey	Thermal
	ArshadJaved	Design
	Supradeepan K	Thermal
	Sujith R	Materials Science
	Ram Chandra Murthy Kalluri	Thermal/Fluid Sciences
	Santanu Prasad Datta	Thermal
	Pavan Kumar Penumakala	Design
	Ravi Vidyarthi	Manufacturing
	Piyush Chandra Verma	Friction and wear, material characterization, MMC Material
	Brajesh Kumar Panigrahi	Non- linear Vibration structural health monitoring and Vibration energy harvesting
	Pardha Saradhi	Thermal/Fluid Sciences
Pharmacy	D Sriram	Drug discovery
	P Yogeeswari	Medicinal Chemistry
	Punna Rao Ravi	Pharmaceutics
	A Sajeli Begum	Pharmaceutical Chemistry (Natural Products)
	Venkata Vamsi Krishna Venuganti	Pharmaceutical formulation development
	Swati Biswas	Pharmaceutics
	Balaram Ghosh	Medicinal Chemistry
	Onkar P Kulkarni	Pharmacology
	Arti Dhar	Pharmacology
	Nirmal J	Ocular drug delivery
	Akash C	Formulation development
Physics	P K Thiruvikraman	Computational Physics, Digital Image Processing

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	Souri Banerjee	DNA Electronics
	Kannan Ramaswamy	Nanophotonics, Nanoplasmonics, Magneto-Optics and Solar Photovoltaics
	Aravinda Narayanan Raghavan	Self-organised natural composite materials, Microfluidics
	B Harihara Venkataraman	Ferroelectric and Multiferroic materials, Nonlinear optics
	Meenakshi V	Soft Lithography, Micro and nano-fluidics, Molecular nanomagnetism
	V Satya Narayana Murthy	Magnetic thin films, Spintronics, Non-destructive testing of Materials
	Sashideep Gutti	General Relativity, Mathematical Physics
	K V S Shiv Chaitanya	Quantum Computing and Quantum Information, Mathematical Physics
Physics	Asrarul Haque	Quantum Field Theory, Particle Physics
	Rahul Nigam	Cosmology, Theoretical High Energy Physics
	Sarmishtha Banik	Nuclear Astrophysics, Nuclear & Particle Physics.
	Subhash N Karbelkar	Wave propagation in random media, Astrophysics
	Prasant Samantray	Theoretical High energy Physics
	Swastik Bhattacharya	General Relativity, Black holes
	Aranya Bhuti Bhattacherjee	Quantum optics, Quantum optomechanics, Ultracold atoms

Dubai Campus:

Department	Name of the Faculty	Research Area
Biotechnology	Dr. R.N. Saha	Pharmaceutics and Pharmacokinetics, Nano particlulate Drug Delivery Systems, Buccal Delivery Systems, Ocular Delivery Systems, Oral Novel Drug Delivery Systems, Pharmacokinetics, Bioavailability and Biodistribution Studies, Pharmaceutical Analysis, Computer Aided Drug Design
	Dr. D. J. Shariff	Environmental Biotechnology; Studies on photoreception; Ethological studies; Studies on nutritional values of animal tissues.
	Dr. Neeru Sood	Agricultural Biotechnology , Bioremediation, Bio-sensors, Nanoparticle synthesis & applications
	Dr. GokhaleTrupti Swarup	Biodegradable plastics, Bioremediation, Development of Biosensors, Synthesis of metal nanoparticles.
	Dr. S. Ramachandran	Environmental Biotechnology, Microalgal biodiversity, Photobioreactors, Carbon capture and sequestration, Agroforestry
	Dr. Namita Khanna	Biofuels
	Dr. Mainak Dutta	Metabolomics
	Dr. Pallab Sanpui	Nanotechnology
Chemical	Dr. Bharat BhushanGulyani	Process systems engineering, heat transfer, fluid engineering, process optimization.
	Dr. B G Prakash Kumar	Preparation and characterization of Activated Carbons, Separation Process, Solar Photocatalysis, Waste Water Treatment, Renewable Energies,
	Dr. Nishant Harishbhai Pandya	Technical computation & programming, Computer aided chemical engineering, Consequence modeling, Modeling of atmospheric gas dispersion of toxic/flammable materials, Global Sensitivity Analysis, Computer aided molecular design, Advanced techniques in wastewater treatment)
	Dr. Eldhose Iype	Thermo chemical energy storage, advanced functional polymers, energy and heat transfer at nano-scale level, nano-particles, force field fitting, parameter optimization at very high dimensional systems
	Dr. Rajib Ghosh Chaudhuri	Colloid and Interfacial Phenomena, Nanotechnology
Civil Engineering	Ms. Sree Lakshmi Babu	Environmental Engineering
	Dr. Meghana Charde	Passive Solar Archtitechre, Energy Efficient Building Design
	Dr. Sridhar G	Geotechnical Engineering
Computer Science	Dr. Vadivel S.	Web Services & Security; Enterprise Java applications; Pervasive Computing applied to Hospital Management System; Semantic web and web services; Windows and J2ME enabled mobile applications;

Department	Name of the Faculty	Research Area
	Dr. Vijayakumar B.	Distributed Database Systems; Component Based Software Development; Web Mining Algorithms, Multimedia Information Retrieval
	Dr. Santhosh Kumar V	Data Mining, Computer Networks (Protocol Verification). Performance Evaluation of Computer Systems.
	Dr. Sujala D. Shetty	Big Data, Artificial Intelligence Applications, Machine Learning,Web Services, Network Security
	Dr. SiddhalingUrolagin	Machine learning, Pattern recognition, Data mining, Document image analysis, Bioinformatics, Big data analysis.
	Mr. Nand Kumar	Cloud Computing, Database efficiency, Website design, Website Application development
Computer Science	Mr Gaurav Saxena	Machine Learning &AI
	Mr Saurabh Jain	Network Security & Computer network
Electrical & Electronics	Dr. Thomas T.G.	Speech processing for hearing impaired; Communication Theory.
	Dr. Anand Kumar	VLSI Design/Testing/Architectures, Microsystems; Telecom, Cloud, ICT; Project/Technology/Innovation Management.
Electrical & Electronics	Dr. Chattopadhyay A. B.	Electrical Machines and Drives; Power Electronics and Electromagnetic Fields and Waves, Control Systems and Power Systems
	Dr. Mary Lourde R.	Power Electronics & Drives, Digital Signal Processing, Applications of Image Processing, Digital Electronics and VLSI Design.
	Dr. JagadishNayak	Medical Image Processing and Communication.
	Dr. Raja Muthalagu	Signal Processing for Wireless Communications, Future Aeronautical Communication, Cognitive Radio Networks
	Dr. Abdul Rajak A R	Wireless Communications.
	Dr. R. GomathiBhavani	Intelligent Control in Buildings, Automated lighting Control, Energy Efficient Buildings, Simulation assisted light control, Daylighting control, Integrated lighting, Zero energy buildings.
	Dr. R. Swarnalatha	Biomedical Instrumentation; Fetal ECG extraction in early pregnancy. Process Control &Instrumentation ; Neural network & Fuzzy logic.
	Dr. V. Kalaichelvi	Process Control,Control Systems, Image Compression using Neural Networks, Fuzzy Classification, Modelling and Control techniques using ANN and Fuzzy applied to power electronic circuits,wind turbine ,welding process, Robotics etc. ,
	Dr.Shazia Hasan	Wide-Area Visualization and Monitoring, Angle and Frequency Monitoring, Sinusoidal parameters, Statistical Filter Design, Non Linear System Identification, Signal Processing Application to Power Signals
	Dr. Vilas HaridasGaidhane	Image Processing, Control Techniques, VLSI Design.
	Dr. Sunil Thomas	Electrical Machines and Drives/ Power Electronics
	Nilesh Goel	Semiconductor Devices. Characterization, modeling and Reliability. Reliability aware digital/analog circuit design. Compact modeling and circuit simulations. BTI, HCI, TDDB and SHE. Device variability and its impact on circuits. Memory (Flash, RRAM) characterization and reliability/performance modeling.
General Sciences	Dr. Kavitha S. Jerath	EXAFS and XANES study of local ordering in metallic glasses like Fe-B, Cu- Zr systems and superconducting materials like YBaCu system.
	Dr. Priti Bajpai	Approximation Theory.
	Dr. R. Roopkumar	Crystal Growth, Biomaterials, Nanotechnology.
	Dr. S. Karthiyayini	Deep inelastic scattering of leptons on nucleons; Ultrasonic studies on molecular interactions of liquid mixtures; Elastic constants of nanomaterials using ultrasonic interferometer;
	Dr. B Muralidharan	Electroorganic; Environmental Chemistry; Textile Chemistry;
	Dr. K Kumar	Magnetohydro dynamics, Non-linear convection in cavities.

Department	Name of the Faculty	Research Area
	Dr. K.K. Singh	Quark Gluona Plasma, MEMS/NEMS based Sensors, Nanoscience
	Dr. A. Somasundaram	Domination Theory.
	Dr. Geetha	Air, Water and Soil Pollutant analysis and control; Desalination and electrochemical water treatment studies.
	Dr. Maneesha	Sample surveys
	Dr. T K. Datta	Mathematical Modelling of Inventory Systems.
	Dr. Vijayallango	Heterogeneous catalysis, Studies on pillared clay catalysts, Environmental Chemistry.
	Dr. Amaranath G	Spectroscopy, Material Science and Laser Physics.
	Dr. Rajan R	Water Treatment; Corrosion and Antifouling paints.
General Sciences	Dr. Rusal Raj	Biological activities (Antibacterial, antifungal and DNA binding) of metal complexes. Theoretical chemistry.
	Dr. S. Baskaran	Boundary layer flows with suction, injection and Heat Transfer Analysis.
	Dr. Suhail Ahmad Khan	Existence of solutions for certain equilibrium problems; Study of vector variational inequalities;
	Dr. Shilpee Srivastava Saxena	Qualitative behaviour of solutions of functional differential and difference equations
Humanities and Social Sciences	Dr.A.Srinivasa Rao	HRM, OraganisationalBehaviour, Leadership Development.
	Dr. Sartaj Rasool	Applied Macroeconomics and Policy
	Dr. Shazi Shah Jabeen	Phonology, Language Teaching Methods (Applied Linguistics), Middle East History, Business/ Technical Communication.
	Dr. Mrutuyanjaya Sahu	Political Science
	Dr .Natesa Prasad	emerging area of finance literature with strong links to agency theory, capital structure, corporate governance and strategy
Mechanical Engineering	Dr. C. Periasamy	Multiphase flows, Laser optical diagnostics in fluid flow, Turbulent flows, Renewable Energy.
	Dr. R. Karthikeyan	Materials and manufacturing, Composite materials, Computer Aided Engineering, Modelling, Simulation & Control
	Dr.R.Udaya Kumar	Internal combustion Engines, Automobile Engineering, Alternate fuels, Renewable energy, Emission control, Heat and mass transfer.
	Dr. M.V.N. Sankaram	Condition Monitoring and Diagnostics Analysis of machinery, Machine Design, Kinematics of machines, Vibrations.
	Dr. Vishal Gangadhar Naranje	Artifical intelligence applications, to Manfacturing Engineering, Development of Expert System/Intelligent Systems for sheet metal die design, Sheet metal die design, Fatigue life prediction of sheet metal die, Industrial Engineering, Manufacturing Processes
	Dr. Vincent	Materials Engineering, Bulk Metallic Glasses, Biocompatibility Studies, Corrosion and Mechanical Properties , Thermodynamic Predictions
	Dr. Priyank Upadhyaya	Multi-scale modelling of composites
	Dr. Shashank Khurana	Experimental Fluid Mechanics, Bluff Body Aerodynamics, Flow Control and Visualization, Hypersonic Aerothermodynamics
	Dr. Gudipadu Venkatesh	Advanced Manufacturing Processes, Abrasive Flow Machining, Surface Engineering.
	Dr. Naveen Kumar Shrivatsava	Fuel Cell, Renewable Energy, Thermo-Fluid Analysis
	Dr.Snehaunshu Chowdhury	Thermal-Fluid Sciences

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