

MINUTE TO MINUTE PROGRAMME OF CONVOCATION 2017
13th August 2017

09:25 AM	Vice-Chancellor, Members of BoG, Directors and Registrar receive the Chief Guest at B-Dome
09:30 AM	Vice-Chancellor, Members of BoG, Directors, Registrar and Deans meet the Chief Guest in the Director's Conference Room
09:30 AM	Assembly of Members of the Senate in the lobby space of the Auditorium
09:45 AM	Chief Guest is helped with wearing the robe & escorted to the Auditorium lobby space
09:50 AM	Introduction of the Senate members to the Chief Guest by the Vice-Chancellor and Director. Recitation of shlokas in the Auditorium
09:55 AM	Academic procession proceeds in columns of two to the Convocation Hall led by Registrar. <i>When the procession enters the Convocation Hall, all assembled will rise in their seats, & remain standing until the members forming the procession have taken their seats on the stage/front row</i>
10:00 AM	Invocation
10:02 AM	Registrar requests the Vice-Chancellor to declare the Convocation open. Vice-Chancellor declares Convocation open
10:03 AM	Vice-Chancellor welcomes all and reads out the Chancellor's Message
10:10 AM	Vice-Chancellor presents report on the activities of the Institute
10:25 AM	Report by Prof. G. Raghurama, Director, K K Birla Goa Campus
10:35 AM	Introduction of the Chief Guest by the Vice-Chancellor
10:37 AM	Convocation address by the Chief Guest
10:57 AM	Presentation of Memento to the Chief Guest by the Vice-Chancellor
10:59 AM	Announcement by Prof. G. Raghurama, Director, K K Birla Goa Campus and presentation of Distinguished Alumnus Award by the Chief Guest
11:05 AM	Award of Degrees: Registrar presents the candidates who have qualified for the award of various Degrees. <i>All the candidates will rise in their seats & keep standing until the citation is read by the Vice-Chancellor</i>
11:08 AM	Award of Degree Certificates by the Vice Chancellor
12:20 PM	Award of Medals by the Chief Guest
12:25 PM	Administration of Oath to the recipients of various Degrees by the Gold Medalist. <i>The Gold medalist Mr. Talluri Varsheeth will lead the Oath. Recipients of Degrees will stand & repeat the oath word by word</i>
12:27 PM	Vote of Thanks by Convenor of Convocation
12:30 PM	The Convocation is dissolved by the Vice-Chancellor
12:31 PM	National Anthem. <i>{All assembled will rise and stand while the National Anthem is played, and remain standing till the procession completely leaves the Hall.}</i>
12:32 PM	Academic procession departs.
12:45 PM	Convocation Lunch

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Dr. Nishant Harishbhai Pandya (ASTP)

Dr. Santhosh Kumar Vasudevan (ASTP)

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Mr. Karri Babu Ravi Teja (LECT), Pilani Campus

Mr. Amol Deshpande (LECT), K.K. Birla Goa Campus

Dr. Indrani Talukdar (ASTP), K.K. Birla Goa Campus

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Prof. Thoppil George Thomas (PROF), Dubai Campus

Placement Officer

Prof. Mani Sankar Dasgupta (PROF)

Student Members

Mr. Saurabh Shankar Shetty, ID 2014B3A7718P

Ms. Upasana Chakraborty, ID 2014AAPS047U

Mr. Sarthak Singh, ID 2014B2A8710G

Mr. Neel M Shah, ID 2014B4A7753H

INTRODUCING THE BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI AND THE K K BIRLA GOA CAMPUS

The Birla Institute of Technology and Science (BITS), Pilani is an all-India Institution declared as deemed to be university, established under Section 3 of the UGC act. It is privately supported, fully residential and admits both male and female students. The primary objectives of the Institute are "to provide for and promote education and research in the fields of Technology, Science, Humanities, Industry, Business and Public Administration and to collate and disseminate effective ideas, methods, techniques and information as are likely to promote the material and industrial welfare of India" and also to "train young men and women able and eager to create and put into action such ideas, methods, techniques and information".

The Institute was initially registered as a Society under the Rajasthan Societies Registration Act of 1958 on the 13th of May, 1964. Subsequently, by notification published in the Gazette of India dated 27th June of 1964, the Ministry of Education, Government of India, declared the Institute an institution for higher education that shall be "deemed to be a University". The Institute started functioning with effect from 1st July, 1964 with late Shri G.D. Birla as its Founder Chairman.

The Institute started as a small "Pathshala" in Pilani way back in the year 1901 by Seth Shri Narainji Birla with one teacher for educating his grandsons, late Shri G.D. Birla and late Shri R.D. Birla. Pilani was then a small isolated desert village in Rajasthan. The Pathshala evolved slowly and steadily into a High School in 1925 and became an Intermediate College in 1929. The Birla Education Trust was founded in the same year. The Intermediate College developed into a Degree College in 1943. In 1947, this college was raised to postgraduate level. In 1950, Pharmacy courses were started in this college, and in 1952, it was bifurcated into a College of Arts and a College of Science, Commerce and Pharmacy.

During World War II, the Government of India established a Technical Training Centre at Pilani for the supply of technicians for Defence Services and industry. In 1946, late Shri G.D. Birla decided to convert it into an engineering college with degree programmes in Electrical and Mechanical Engineering. Master's programme in Electronics was started in 1955. B.E. programmes in Civil Engineering and Chemical Engineering were started later. In 1964, with the inception of the Birla Institute of Technology and Science, the colleges, viz., Birla College of Science, Commerce and Pharmacy, Birla College of Arts and Birla College of Engineering

situated at Pilani, as also all properties, movable and immovable, together with educational facilities, hostels, staff quarters, playgrounds, etc., became part of the Institute and all these properties were vested in it. During the early years of its inception, i.e., 1964 to 1970, the Institute with the support of Ford Foundation Grant had the advantage of having collaboration with Massachusetts Institute of Technology (MIT), USA. It adopted the semester system, modular structure of courses, continuous and internal evaluation, letter grading etc. It also created institutionalized linkages with the industries. Over a period of time, the Institute also introduced several flexibilities in its educational programmes.

Dr. K.K. Birla before taking over as the Chairman of BITS in 1983, was deeply involved and closely associated with his visionary father in the running of both the Birla Colleges and the current institute BITS, since its inception. With his spirited involvement in all the activities of the Institute, he was able to see the vision of his father Late Shri G.D. Birla unfolding. Taking over the responsibility of running the institute, Dr. K.K Birla who became the Chancellor in 2003 realized the need for greater number of promising graduates in the field of science and technology in shaping up the nation's development. Hence he initiated an increase in the number of students at Pilani campus during 1999 which gradually increased the total strength from 2500 to 4000. Under his patronage, BITS started expanding by establishing three campuses, one in Dubai in the year 2000, in Goa in the year 2004 and in Hyderabad in the year 2008.

Consequent upon the sad demise of Dr. K.K. Birla on August 30, 2008, Dr. Kumar Mangalam Birla was elected as the Chancellor and Smt. Shobhana Bhartia was nominated as the Pro-Chancellor of the Institute. Under the leadership of a young and dynamic Chancellor, BITS is taking steps to scale greater heights.

In the year 2000, BITS was accredited by NAAC with the highest possible rank in University accreditation. In 2008-2009, the NAAC peer team visited BITS campuses at Pilani, Goa and Dubai and BITS has been reaccredited with CGPA 3.71 on four point scale at the highest 'A' grade.

Vision 2020: A Strategic Plan for BITS

The Institute has embarked on a journey to become one of the leading universities in the world by the year 2020. Initially, a task force was constituted to prepare the Vision 2020 document and the draft 'Vision 2020' was released in February 2009. After several deliberations and discussions, Vision 2020 was formalized and logically split into 3 year long milestones, known as 'Mission Programmes'. First such milestone, *Mission 2012*, was

accomplished in the year 2012, after being formally launched in October 2009.

Mission 2012 focused and achieved significantly in six thrust areas - Academic Programs and Pedagogy, People, Research & Consultancy, Campus Life, Infrastructure & Facilities and University Administration. 16 Task Forces comprising of more than 110 faculty members were involved in realizing 33 different goals under these six thrust areas. Several initiatives such as curriculum bench marking and redesign, strengthening the process of student feedback, introduction of the seed grant and research initiation grant, sabbatical leave policy, new modes of performance appraisal, and faculty recruitment among others were fully completed and institutionalized into regular operations at BITS.

Other initiatives with varying degrees of completion would be taken up by existing offices, Off Campus programmes (WILP), initially an intrinsic part of the People thrust area, was recognized to be a significant component in realizing Vision 2020. Several initiatives to engage with the industry have been taken up and those hopefully will be achieved over 2-3 years.

Mission 2012 was formally concluded on a celebratory note, with a formal event, 'Reflections 2012', presided by the Chancellor, Dr Kumar Mangalam Birla. The event was held in the K K Birla Goa campus, and was attended by several faculty & staff members. The Task force members were felicitated for their valuable contribution towards Mission 2012 goals.

In March 2013, *Mission 2015*, the next milestone in the journey towards Vision 2020, was formally launched. The Mission 2015, expected to bring a quantum jump in the aspirations of the objectives set forth, entails focusing on 7 imperatives: Faculty & Staff Development, Industry Engagement, Inter-Disciplinary Research, Internationalization, Innovation & Entrepreneurship, Quality Assurance & Assessments and Technology Enablement. One team per imperative has been identified and the teams have already started working on refining and actioning the goals.

A growth plan for the next 10 years has been developed and is under implementation. While projecting growth in number of students from 11,000 to more than 17,000 by 2020-21 across its four campuses, the plan outlines a strategy for transforming BITS into a research-focused university while continuing to consolidate its First degree and Higher degree programmes. Establishment of new research labs is an important ingredient of the growth plan, for which the plan envisages an aggressive push to sponsored research grants from Govt. agencies and from industry. As a result of extensive efforts to benchmark the First degree and Higher

degree programmes against the best in the world, the curricula of all First degree and Higher degree programmes have been completely re-designed while ensuring greater focus on discipline-specific courses, on courses in Humanities, and on hands-on learning through lab-based experimentation and thesis work. The new curricula was implemented starting August 2011.

Transforming BITS into a research-focused university is at the top of BITS' agenda. To take that forward, BITS has undertaken several measures. These include (i) Significant increase in the number of “teaching assistantships” that offer tuition waiver and stipend to full-time PhD students and (ii) Streamlining of its processes from admissions to evaluation of PhD dissertation. BITS has undertaken several initiatives to encourage, facilitate and incentivize faculty to seek and execute research grants.

BITS Pilani, K K Birla Goa Campus

The idyllic and sylvan beauty of Goa sets the right ambience for BITS Pilani, K.K. Birla Goa Campus, an Institute of excellence in Technology and Science. Nestling in the lap of verdant hills, overlooking the Zuari River, the campus is spread over an area of 180 acres. The location of campus is unique in terms of scenic beauty and panoramic view of picturesque surroundings encompassing the river Zuari, hillocks, waterways, forests and landscape. The Campus is about 25 kms south of Panaji (capital of Goa), 10 kms west of Vasco-da-Gama, 22 kms north of Margao and 5.5 kms from the Goa airport, along National Highway 17B. The campus houses the main building, having academic and administrative offices, Visitor's Guest house, hostels for boys & girls, student activity centre, faculty & staff quarters, medical centre, playground and shopping complex.

BITS Pilani, K K Birla Goa campus was commissioned in August 2004 and was formally inaugurated by the Honorable Prime Minister of India, Dr. Manmohan Singh, on May 5, 2006. Keeping with the tradition of innovation and creativity, it has given a state-of-the art touch to the infrastructure of the entire institute without diminishing, the natural beauty of Goa surrounding its campus. Spacious laboratories, state of art classrooms with soundproof acoustics, modern furniture, computer labs with Internet facility and library define the infrastructural pillars of the institution. Being fully residential, separate hostels are provided for girls and boys with single rooms.

<http://www.bits-goa.ac.in>

CHANCELLOR'S ADDRESS



Dr. Kumar Mangalam Birla

Our Chief Guest for today, Dr Ramachandra Guha, Vice Chancellor Prof. Souvik Bhattacharyya, Director of the Goa Campus, Prof. G. Raghurama, distinguished faculty members, graduating students, ladies and gentlemen.

It is indeed an honour to have Dr Ramachandra Guha as our Chief Guest today.

Intro to the Chief Guest

Dr Ramachandra Guha, Padma Bhushan Awardee, is a well-known and highly respected historian and writer in India. While Vice Chancellor Prof Bhattacharyya will have the privilege to introduce you more fully, and speak of your many accomplishments, I would like to highlight the significance to us of your presence here today.

Today is a day of celebration. There is so much that all of you have accomplished and would be proud of. I am sure that you feel nostalgic. The campus, your professors, the pranks you played, the burning of the mid night oil with your buddies, and much more, will, I am sure, be among your fondest memories of BITS. Congratulations to all of you – the Class of 2017.

Today indeed marks a milestone in your life as you move from your comfort zone at BITS to enter the real world. This is a time when the future is full of uncertainty and change is the only certainty. So as you move ahead, you will need to embrace these aspects in your stride. Change and uncertainty are most often unsettling. Let me give it a positive spin and impress upon you how you can leverage it. I believe, change often throws you into the world of unknown. And moving into this space, combating with it can prove rejuvenating. It is simply because you have to think anew. So look upon change as a positive challenge and an opportunity.

I want to focus on two topics in my talk with you today. Firstly, on a new trend. That of youngsters increasingly thinking afresh and becoming innovative disruptors. And secondly, I would like to share my thoughts on some characteristics necessary for your success and peace of mind, both at the professional and personal front.

I believe, innovation and disruption are both creative processes. Harvard Business School professor and disruption guru Clayton Christensen says that a disruption displaces an existing market, industry, or technology and produces something new and more efficient and worthwhile. It is at once destructive and creative.

Let me look back at the startup scenario in India. Take the example of local big daddies such as Ola, Uber, Airbnb, Amazon and Swiggy, to name a few. They have all been innovative disruptors, quick to adopt their services to the market place.

Did you know that:

- Uber, the largest taxicab company does not own a single taxi.
- Airbnb, the largest hotel chain does not own a single hotel.
- Facebook, which began as a social networking site morphed into several new areas and it is the largest media company projecting films, which does not own a TV or a Hollywood studio.
- Amazon, the world's largest bookstore does not store a single book.
- Swiggy, where you can order food from the most exotic restaurants to the absolutely affordable ones, does not have a single restaurant.

Today, Uber and Google have become verbs. The concept of Uber has been applied to a variety of new fields such as trucking. All this has been accomplished simply because of their intuition and turning the traditional way of thinking on its head. Of course innovation surfaces from a deep penetrative insight into what is the key value driver, or, at times, from a pattern recognition.

I find that our country is currently undergoing a phenomenal shift, in so far as innovation and disruption is concerned. Today, you can find innovative Indian startup success stories. Several Indian youngsters are engaged in global labs, on applications on the internet of things. They are redefining transactions recouring to block chain innovations. They are working in robotics, bionics and several other crowd sourced, as well as resource collaboration platforms. These youngsters are driven by their passion to create, innovate and disrupt.

On yet another plane, I would characterize demonetization as an innovative disruption of a different kind. At one fell swoop, 86% of the nation's currency was taken out of circulation. It changed the entire process and our perspective from a cash transaction society to a cashless society, albeit not completely. But still a great move. In the city of Mumbai, the process of converting waste into energy and electricity is receiving great attention. Can you imagine? The city throws up 10,000 tons of waste everyday. From one angle, the heap looks like a garbage dump. But from the other, it can be seen as a mountain of opportunity. If this waste conversion happens, Mumbai can become a great source of electrical power, besides improving the quality of life here.

So, look at the humungous opportunities that will open up, when you jog your brains and think of the next big step that would emerge as a consequence of the innovation and disruption path that you take on. I would also urge you to have an appetite for risk. Alongside, agility and responsiveness are integral to detect what's next. It will be a great day to have a BITSian in the same league as the global unicorns, which I just cited.

Let me now move on to certain qualities of character that should constantly be on your radar.

- Technology is the new wheel that turns the world. It encompasses every aspect of our life. The internet is a great boon and an amazingly positive thing. The social media tools that technology has spawned can be taxing on people's privacy. More often than not trolls can be hurtful, but don't let it get to you.
- Learn to shoulder responsibility early on. The sense of achievement will be unparalleled. At the same time, a word of caution – Accomplish a task really well and the company will add it to your regular set of duties!.
- Learn to define success – what does it mean to you? Success isn't just which prestigious company we work for, what our designation is, how much money we make or what our prerequisites are. Rather... it is a far more wholesome concept. Remember it as the distance that you have travelled from where you began, rather than how far you wish you had gone by now. That to me is the true measure of one's success.
- You have to learn how to be a good listener. The greater the complexity of the issue, the greater is the tendency to view only facts and figures, neglecting the anxieties, expectations, the conflicts that underline the issue. In such a process, people need to unravel agendas, appreciate apprehensions and relate to the emotionally charged response. When this does not happen, the solutions that emanate are sub-optimal.

- Never burn your candle at both ends. Pursuing your dreams is perfect. You need to also unplug yourself and learn to relax. Have time for the family. Cultivate hobbies even as you enjoy your work.

At the end of the day you must have a soul. Guts, passion and fire in the belly are all fine. But a compassionate soul is a must. You have to think beyond yourself. You must have empathy. Reach out to those who are not as privileged as you are. Try and make a difference to humanity in whatever way you can.

As you enter a complex world where you will have to take a position, express opinion, shape it and lead to make it a better place, I wish you all the very best.

In conclusion, let me leave you with a thought. As we voyage into a sensational future, we must find it within ourselves to look beyond ourselves. It is the responsibility of every generation to leave behind a safer, superior, more enlightened world than the one that they inherit. When future generations will look back upon us, they must credit us for being a generation that actually foresaw the future and helped to give the world a better tomorrow. As they say, giving is true having. The teachings of Buddha tell us that thousands of candles can be lit from a single candle, and yet the life of that candle will not be shortened.

Thank you!

VICE-CHANCELLOR'S REPORT



Prof. Souvik Bhattacharyya

Chief Guest for the occasion, Dr Ramchandra Guha, Chancellor Dr K M Birla, Members of Board of Governors, Directors of BITS Pilani Campuses, Members of the Senate, Registrar, Faculty and Staff of K K Birla Goa campus, other dignitaries present here today, and of course the graduating Class of 2017 and their proud parents -it is my proud privilege to extend a very warm welcome to you all to Convocation 2017 of BITS Pilani, KK Birla Goa Campus Campus.

It is a special honour for us to have Dr Ramchandra Guha with us as the Chief Guest. I am sure our graduating class is eagerly awaiting to listen to the inspiring words from the historian whose research interests include environmental, social and political history.

BITS Pilani is a premier institute known for its contemporary and global education, blend of traditional values with modernity, flexible curriculum, excellence in research, entrepreneurship eco-system and legendary placements. BITS Pilani is designed to foster innovation and to enhance skill development of its students; it offers the best in class graduates to the nation and the world. With a rich heritage of 53 years, we take pride in offering our students an education based on innovation and excellence – an inspiring academic experience and a learning environment with great future prospects that is second to none.

While I present to you an overview report of the University to highlight the achievements of BITS Pilani across its four campuses, Prof G Raghurama, Director of KK Birla Goa Campus, will present a report specific to this campus.

BITS Pilani offers undergraduate, post-graduate and PhD programmes in science, engineering, pharmacy, management and social sciences to over 12,000 students from its campuses in Pilani, Goa, Hyderabad and Dubai. I am pleased to share with you the

graduation statistics of 2016-17.

3,452 students will graduate out of which 879 (25%) are female students. Of these, 2,377 are in UG (with 25% female students), 420 are in PG (having 32% female students), 543 (having 22% female students) will receive two degrees under the Dual-degree programme. 112 students (with 36% female students) will graduate with a PhD.

You are aware of BITS Pilani's pioneering role in offering UG and PG programmes to over 22,000 working industry professionals. Many of these operate in partnership with industrial organizations. This year 7,952 students are graduating from our Off Campus programmes out of which 2,890 (36%) are female students. Of these, 1,140 are in UG (10% female students), 6,812 are in PG (41% female students) who will graduate with a formal degree for the first time in their lives or will have upgraded their skills to keep up with a fast changing world.

International admissions to any university bring in the perspective of integrating an international, inter cultural, and global dimension to the teaching/learning, and research functions. Towards this objective, BITS Pilani commenced admissions to International students in 2015-16 from Hyderabad campus. Last year we expanded our international admission to Goa campus. This year we have admitted International students in Pilani campus as well. These students were admitted based on Advanced SAT scores. With growing number of students from different countries, we look forward to providing enriching global experience inside and outside the classrooms and laboratories to our diverse student population.

Our Centre for Innovation, Incubation and Entrepreneurship (CIIE) is an integrated structure for academic and incubation services related to entrepreneurship across our four campuses. The TBI at K K Birla Goa campus in 2016-17 had three start-ups incubating physically and two as virtual incubatees. One of them, Sustainable Biosolutions LLP has become a global partner with Enviu's Sani Nation program. The campus is currently strengthening incubation infrastructure by setting up the BITS BIRAC BioNEST 3000 sq. ft. facility with a nearly ₹ 3 Cr support from BIRAC.

The TBI at Hyderabad campus have graduated ten start-ups since 2014. This year three start-ups have raised about ₹ 78 L through external funding. The IoT Sandbox, started to promote entrepreneurship among students, currently has 15 active projects about devices for everyday use such as smart appliances and other common items, which communicate with each other using low cost technologies.

The Pilani Innovation and Entrepreneurship Development Society established at Pilani Campus in 2013 has successfully disbursed ₹1.31 Cr as seed loan under TIDE scheme to 8 start-up companies as in March 2017. One of the incubatees, iDream Education, were the North India winners of SMB Heroes 2017 by Google in the Impacting Change through Digital category for Tab Lab – a solution for student centric digital literacy for rural schools.

This year BITS Pilani has been **ranked in the World University ranking of both (THE Times Higher Education) and QS (Quacquarelli Symonds)** - the most eminent international Rankings today. Our THE Asia University Ranking improved by 10 ranks to 181-190 in 2017. This year, we have debuted in the QS World University ranking, albeit modestly, where only 20 institutes from India are ranked, out of which only two are non-government institutes and BITS Pilani is one of them. On the domestic front, the NIRF 2017 (National Institutional Ranking Framework, MHRD) has ranked BITS Pilani at 13 in the University category, and 6th in the Pharmacy category.

In a challenging and turbulent year faced by the industry with factors ranging from layoffs to salary cuts, BITS Pilani surged ahead of its counterparts in terms of student placements. While the top national institutes on an average have evidenced a decline in placements during the year, BITS Pilani has recorded a growth over last year in terms of key metrics in Placements.

Our plan to recruit research-focused faculty members continues to gain traction. During 2016-17, 78 new faculty members joined us and 18 more are expected to join. We made 93 offers for new faculty members to join BITS Pilani. Most of them have doctoral or post-doctoral experience from eminent institutes across the world.

Our PhD programme and sponsored research projects are now feeding into each other's growth. PhD scholar population has grown from 417 to 855 in the last 6 years with a current female scholar population of 38%. We are looking to garner additional financial support for a greater population of research scholars since this forms the core workforce to enhance research quantity and quality. We have upgraded the scholarship amounts closer to the national level.

Total number of publications in Scopus indexed journals by the faculty members in 2016 is 782 and during 2011-16, articles published by our students and faculty colleagues earned 3369 Citations. The number of PhD students receiving scholarship from CSIR or UGC or by sponsored projects has grown significantly from 23 in 2010-11 to 207 in 2016-17.

New funding from sponsored research and consultancy has grown significantly from ₹ 12.7 Cr in 2015-16 to ₹ 30.2 Cr in 2016-17. During this year, we also achieved a milestone with 104 new sponsored projects received in a given year from Government funding agencies as well as Industries. Of these, 24 projects (₹6 Cr) were from various Industries, and five are International projects worth ₹ 2.4 Cr. During 2016-17, we had 282 externally funded ongoing sponsored projects worth ₹ 73 Cr. During this period, 69 projects worth ₹ 13.5 Cr were completed. Sixteen infrastructure grants worth ₹ 7.5 Cr from DST under the FIST scheme were ongoing during last year.

Some of the significant research grants include:

- Two prestigious grants from Bill and Melinda Gates Foundation of \$ 135,000 and \$ 42,000 Dr. Srikanth Mutnuri of KK Birla Goa campus in partnership with Cranfield University, UK and Caltech, USA in the area of water and wastewater treatment.
- Two major consortia projects worth about ₹ 3.9 Cr were awarded to Prof Sunil Bhand of K K Birla Goa Campus jointly with CDAC, Jadavpur University, IARI Delhi in the area of food by RD Tata Trust and Indian Council of Agricultural Research with BITS Pilani share of ₹ 1 Cr to develop sensors for fruits and vegetable quality.
- Dr. Asima Shaukat of KK Birla Goa Campus received a grant of ₹ 55 L under DST Young Scientist award scheme in the area of tribology.
- A technology for purification of harvested rainwater has been developed by Prof. Rajiv Gupta, Ayub Ahmed and Gaurav Tyagi from Pilani Campus, supported by BITS Pilani funding under Centre for Research Excellence in Water ,Wastewater& Energy Management. Subsequently, a major research grant of ₹ 2 Cr was also received from DST.
- An International grant of € 135,000 under INNO INDIGO project with SINTEF Norway to Prof. Souvik Bhattacharyya, Prof. MS Dasgupta and Dr.S Routroy, Mechanical Engineering Department, Pilani campus.
- Dr.Arun K Vaish of Pilani Campus received a consultancy grant of ₹ 1.8 Cr from HCL infotech in the area of financial inclusion.
- A grant of € 370,000 from DAAD and FESTO Didactic, Germany has been awarded to Prof K S Sangwan, Pilani campus.

During 2016-17, six Indian Patent applications and four International patent applications (2 UK, 1 European, 1US) have been filed including those with Dept. of Atomic Energy and Indian Council of Medical research and CDAC Kolkata. BITSPilani is poised to contribute

towards entrepreneurial activities while aligning itself to the Start-up India initiative. A major BIRAC grant of over ₹ 3 Cr was received for a bio-incubator at our Goa Campus. Recently, we signed aMoU with National Research Development Corporation to accelerate efforts towards technology commercialization.

- Prof. Halan Prakash of K K Birla Goa Campus developed a novel technology for treatment of industrial wastewater supported through ABSTC Mumbai and a patent application has been filed as well.
- A sensor to detect pesticide residues in tea was successfully developed by Prof Sunil Bhand jointly with CDAC Kolkata and Tea Research Association & Tocklai, Assam and supported by Tea Board of India. A joint patent application has been filed out of this body of research.
- At Hyderabad campus, four faculty start-ups namely PSPR technology, IDEA 3d, MLPA and XBITS raised ₹ 1.9 Cr through BIRAC. The glucose sensor technology developed by Prof Suman Kapur has been chosen by ICMR for a US, European and UK Patent.

BITS Pilani has been using technology platforms for education for more than a decade now and has developed digital content for more than 40 semester-length courses. BITS has been a contributing partner of edX for the last three years. Recently, BITS has agreed to become a contributor to the Government MOOC initiative called SWAYAM. As part of this effort, BITS will initially be offering 10 courses in different areas of Science and Technology. The courses will be developed in our studios with high quality video and will be made available via the SWAYAM online platform as well as SWAYAM Prabha - the broadcast channel. BITS is also planning to offer online certificates through multiple channels and/or online platforms. National level visibility with eminence is being pursued in the digital education space.

We have set up Teaching Learning Centre at all campuses to help improve pedagogy and instruction, and bring innovation into student learning. BITS Pilani received a grant of ₹ 64 L through IIT Kharagpur for its contribution in the development of suitable pedagogical methods for various classes, intellectual calibres and research in e-Learning. These course materials are now available online.

Industry engagement is one of the cornerstones of the educational philosophy of BITS Pilani. It is exemplified by two of its largest and most successful such programmes, the Practice School, and the Work Integrated Learning Programmes (WILP) which are outstanding models of industry-academia cooperation.

Practice School is an educational innovation of BITS Pilani that links industry experience with university instruction. The effort is to orient education to (i) meet the rapidly changing needs and challenges of a professional workplace, (ii) enable students to acquire learning by applying the knowledge and skills they possess, in unfamiliar, open-ended real work life situations, and (iii) bear an economic relevance to society. These objectives are achieved by bringing the reality of the world of work into the process of education, thereby creating a sound base for experiential and cooperative learning. The students work on relevant assignments with the guidance of professional experts from the industry, and under the supervision of BITS faculty members.

BITS Pilani has been offering continuing technical education programmes leading to formal educational qualifications to working professionals for over thirty-five years. In line with the educational philosophy of the Institute of integrating theory with practice, the student's own work environment provides an ideal ground for a meaningful combination of the two through assignments, case studies, work experience, and projects. The interplay of work or practice and education is ensured since students are admitted only to a programme that is in line with their work profiles, and with the endorsement and active support of the employer. The programmes terminate in a capstone project or dissertation with the problem drawn from the work environment. In a world of rapidly evolving technologies, these programmes represent a successful model to meet the consequent need for continuous education and skill up-gradation.

The two programmes, together and in tandem, offer the ideal ground for evidence informed practice in the general sense. For the student in the campus-based programmes, PS offers the opportunity to participate in putting the formal education to practice. Similarly, in WILP, the exposure of the working professional to the latest findings of academic research provides them an opportunity to integrate these into their work, and thus put them into practice leading to enhanced performance, cost-effectiveness and quality. For the faculty members, these programmes serve as a vehicle for enhancing the quality of instruction and student satisfaction, using evidence in the work place, and also to stimulate and enable the selection of relevant problems for investigation.

Let me share with you some of the awards and laurels of our faculty members during 2016-17. I will start with the notable awards received by our faculty colleagues from KK Birla Goa campus.

Prof. Basavadatta Mitra was appointed the Team Leader for one of the verticals Project-

based Evaluation, under Education Committee, Goa Chamber of Commerce and Industries, responsible for auditing Internship Programmes of State Engineering Curriculum.

Prof. Meenakshi Raman has been appointed for the second term (2016-2019) as a member of Board of Studies, Goa University, for English.

Prof. Saroj S Baral won the Best Poster Presentation award at the 11th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), in Lisbon, Portugal.

G Surendran and Saroj S Baral received the best Oral Presentation paper award in CHEMCON 2016.

Prof. PM Singru won the best paper award at IPROMM 2016 - the 12th National Workshop on Industrial Problems in Machines and Mechanisms.

Prof SD Manjare was appointed as the distinguished scientist for the Scientific Advisory Board of the Conference on Sustainable Development of Energy, Water and Environment Systems. He was also appointed by Goa State Pollution Control Board as a Member of expert appraisal committee to assess the environmental impacts of the proposed project on marina facilities at north of Zuari river.

Ms. Parul Sahu and Prof. K Srinivas won the Best Heat Transfer Poster award at the 69th Annual Session of IChE, CHEMCON 2016.

Akanksha Saini, Research Scholar, Department of Chemistry, secured the First Prize for her research work co-authored by Prof. Ranjan Dey and presented at the Royal Society of Chemistry (RSC) Symposium on Recent Advancement in Chemical Sciences and Research Scholars Meet.

From Hyderabad campus:

Prof M B Srinivas received the AIF-Stanford MedTech Awards (awarded as part of the Symposium of Maternal and Child Health organized by the American India Foundation and Stanford University Medical School) for the Most Innovative Concept, which is a portable and inexpensive acute respiratory infection monitor for use in rural areas.

Prof D Sriram has been awarded DBT's Tata Innovation Fellowship for the period 2016-2019.

Prof. P Yogeeswari is the recipient of the Women in Education award presented at the Dewang Mehta National Education Awards function, the Bill and Melinda Gates Foundation Global Health Travel Award, and the i3 Gold Award for Best Innovator of the year 2016 at the 8th India Innovation Initiative conducted by CII, DST, AICTE and Yi. Moreover, she was one among eminent Scientists across the country invited by the President of India for the Visitor's Award function held at Rashtrapati Bhavan.

Prof Suman Kapur was the DBT, GoI nominee at SLUSH 2016 - world's leading start-up event held at Helsinki, Finland. She is currently the Chairperson of the Working Group on Nutraceuticals and Member of the Scientific Panel on Nutraceuticals both constituted by Food Safety and Standards Authority of India, GoI. Her start-up product RightBiotic was featured in the Coffee Table Book of DBT.

Dr Anas Guharay was awarded with Outstanding Reviewer Recognition from the Editors of International Journal of Geomechanics, ASCE. Prof B Mishra has been selected as a Visiting Associate of IUCAA (Inter University Centre for Astronomy and Astrophysics) for the period 2016 - 2019. Dr. Shivani Gupta, a former research scholar in Biological Science, received the Stanford Biodesign Fellowship.

A selected few of the faculty laurels from Pilani campus:

Dr. I Kumar was conferred the Professor DK Banerjee Memorial Lecture Award of the Department of Organic Chemistry, IISc Bangalore, for the year 2016.

Prof D Kumar won the CRSI Bronze Medal-2017 by the Chemical Research Society of India (CRSI).

Prof. AK Sarkar has been appointed a member of the Committee for Rural Roads Development, Vision 2040.

Prof. AP Singh was nominated as an External Member of Advisory Committee for Special Assistance Programme (SAP) by UGC.

Prof. Vishal Saxena has received ASM-IUSSTF Indo-US Research Professorship 2017 award to conduct research on characterization of prokaryotic type proteins functional in metabolic pathways within the apicoplast of *P. vivax* at the University of South Florida.

Prof J. Panwar has been awarded a visiting professorship under INSA-CAS International Bilateral Exchange/ Collaboration Programme-2016.

Prof. S S Jabeen, Dubai campus, received the Middle East Education Leadership Award in the Best Professor in Humanities and Social Sciences category.

Our students have won many accolades during the year; I present to you a few of the more notable ones.

First from the KK Birla Goa campus.

The start-up Drone Nation by Vichar Shroff, Chetan Reddy and Nikhil Khedekar was selected to receive incubation support and finance grant from Nidhi-Prayas, DST, and to get access to prototype grant up to ₹ 10 L, infrastructure and mentorship, to develop a Drone for Agriculture.

Ambareesh Rathi underwent a six-month research internship at TU Delft, Netherlands; he was the only intern from India, and also the youngest among all, selected for this role.

Mihir Naik and Rishi Raj Grand he won the novice finals of the team event of The PES Debate 2016.

Pranjal Agarwal, final year Mechanical Engineering student, secured 100 percentile in his first attempt of the CAT 2015 and topped the exam.

Devansh Raj worked as an intern at the Max Planck Institute for Developmental Biology, Germany.

Rachit Gupta received the MITACS Globalink Scholarship (2016) for an internship at the Nano-Systems Fabrication Laboratory, University of Manitoba, Canada.

Sai Ruthvik, Advait Balaji, CAValliappan and Piyush Dhingra presented a paper titled A Portable Real Time ECG Device for Arrhythmia Detection Using Raspberry Pi at the MobiHealth Conference held in Milan, Italy which is now published in a Springer volume titled Wireless Mobile Communication and Healthcare.

The BITS Pilani K K Birla Goa Campus football team, BITS FC registered as a club under the Goa Football Association and participated in the Goa Football Association 3rd division league. BITS FC got promoted to 2nd division after finishing Runners-Up in the league.

The project idea Cosmic Ray Flux Measurement & Analysis by Sanket Deshpande, Lucky Kapoor, Pankaj Tiple and Vibhav Joshi was selected for the Prof. Suresh Ramaswamy Memorial Award 2016-17.

Varsheeth Talluri from Goa campus and Kunjesh D Agashiwala, Nihar Dasari, and Vaibhav Garg from Pilani campus - were among the 20 selected for the prestigious Viterbi-India Program 2016 of University of Southern California and IUSSTF on research internship.

Notable student accolades from Hyderabad campus are:

Ms Sandhya Biksham Preethi Sharma was awarded the Aditya Birla Scholarship for 2016-17. Darshan Chauhan received IASc-INSA-NASI Summer Research Fellowship to work at IIT Bombay. Shirin Fathima received DAAD fellowship for summer internship at Germany. Mr Akshay Bhatnagar, PhD student under the supervision of Dr. Debashree Bandyopadhyay, was awarded DBT travel grant to attend 60th Annual Biophysical Society Meeting 2016, held in Los Angeles.

From Pilani campus, the following student accolades may be noted:

In a thrilling finale that had 27 teams from schools and colleges across the country, Team Negative Time from BITS Pilani - Mrigesh Madaan, Anirudh Krishna, and Rajat Jain - emerged as the winners of Microsoft Imagine Cup India 2017. Their entry, Content Holmes, is a one-click AI-based online parenting solution that keeps children secure from adult content and cyber bullying and monitors their activities. The winners represented the country at the worldwide finals at Microsoft Headquarters, Redmond, Washington in July 2017.

Microsoft Corporation selected Anshu Agrawal and Akshit Bordiatio represent India in the World Summit 2017 at Seattle to be held along with World's biggest development conference Build; only 100 individuals were selected from across the globe from a pool of over a lakh applicants.

Preet Singh Khalsa won the Prime Minister's Office App Development Competition organized by MyGov. India's Official First Aid App developed by a team of six students was released at Rashtrapati Bhavan presided over by the Hon'ble President of India.

BITS Pilani swept the 5th edition of Avery Dennison Spirit of Invention (InvEnt) Scholarship bagging six of the ten awards; the winners are Aakriti Agrawal, Alanckrit Jain, Anirudh Tusnial, Anmol Gupta, Neeraj Gadi, and Vaibhav Agarwal. The merit-based scholarship provides a one time scholarship of \$1300 to the scholars.

AEEE student team comprising Vandit Gandotra (Project Lead), Piyush Sharda and Tanmay Sharma bagged the Silver position in National KPIT Sparkle 2017- Smart City Innovation Challenge for their proposal on Efficient Traffic Management giving power to the citizens to

report traffic violations from among 1700 projects and was awarded a cash prize of ₹2.5 L.

Raja Lakshmanan has been awarded an International Travel grant by SERB DST. Team BITS won this year's Perseverance and Spirit of the Event Award in Shell Eco-marathon Asia(SEMA). Ananyashree Garg won the National Level 3rd Prize in Youth Money Olympiad 2017, the largest financial literacy test in India for college students; it attracts over 15,000 participants from all over the country including the IIMs.

Roshni Chhabra was declared Winner of IET India Scholarship Award of ₹1 L for her work on antibacterial nanoparticles coating on taps and sanitary napkin she also was selected as one of the 10 finalists in young adults category for the multimedia project on refugee crisis by UNESCO for her poem titled Chessboard.

Let me share the notable awards won by the students of Dubai campus:

IORTA, a 14 member robotics team from Dubai Campus finished 6th in the National Category for their idea Smart Oil Spill Solution using Drones in the third edition of The UAE Drones for Good Award.

Alina Zaidi, Sabiha Shaik and Rewant Verma -students of BITS Pilani, Dubai Campus triumphed in the Microsoft Office Specialist Championship 2017 conducted by FAME (Financial Accounting & Management Education) Training Institute, Dubai. The BITS team winners will represent UAE in the world championship to be held at Anaheim, California.

BITS Pilani Dubai Campus also bagged the Indywood Education Excellence Award 2017 – UAE Chapter.

BITS Pilani is committed to shape the minds of students in a manner that they become important agents of social change. In its institutional vision, BITS underscores the importance of education and knowledge in advancing an evolutionary process of change towards a better India. Since its inception, the institution has produced students that have helped to move our society forward using their ideas and creativity, their leadership abilities and innovative traits.

The institute has pledged to undertake initiatives that provide substantially vast resources of technical expertise in a fast changing world. The underlying institutional philosophy balances this commitment to technical education with social responsibility. While technical knowledge and skills are imparted to the students, the importance of social justice and equality is also taught to them through various courses in social sciences. Such holistic

education sensitizes the students to social issues and prepares them for a lifetime of work for the benefit of socially and economically disadvantaged in our society.

This sense of purpose that the students discover at the institute teaches them that they are part of something bigger than their individual selves. This sense of social responsibility in the graduating students is especially important in our world today. As we witness the world today, we discover that technology and automation are eliminating many jobs, besides degrading the environment and marginalizing the weaker sections of society through high-tech projects of development. For our society to keep moving forward, the graduating students have a generational responsibility to use their knowledge and skills to create opportunities for social growth. Along with pursuing a lucrative career, they should contribute to a larger purpose of making science and technology relevant to the democratic goals of our society.

The faculty and students at BITS are committed to an academic and professional environment where everyone has this sense of larger purpose. This is achieved in three ways: by taking on socially meaningful research projects, by upholding equality where students irrespective of their social backgrounds have the freedom to pursue their purpose, and by building a community of socially responsible BITSians all across the world. We recognize that greatness is about scientific and technological progress that drives industry, and in using knowledge and skills for creating environments for social justice and democratic rights of people as well.

I would like my faculty colleagues and staff members to join me in congratulating all our students who will be graduating today from the KK Birla Goa campus. To the Americans, Convocation is a Commencement Ceremony, since the graduates, following this, commence their professional life. We wish you every success as you commence this next exciting stage of your life and career. As a graduate and ambassador of BITS Pilani, you are the torchbearer of an extremely rich heritage. I believe that you, like many of your seniors, will make us a few inches taller in pride.

I want you all to be secure professionally, and have a good life; but at the same time you must remain hungry, remain passionate to do something meaningful in this good life. While you all must strive to do well in future, I ask you to make sure that you also do some good. Something good for the fellow citizens, for the society at large and simply be a compassionate good human being.

Your Alma mater has given a passport now to succeed in professional journey; please make sure that you also show the gratitude back to your institute. Contribute generously to make BITS Pilani stronger and more eminent so that the institute is able to train a larger population in the years to come.

Let the world know your strengths – the blend of empathy and intellect that you bear. Stressors and adversaries may come your way – but courage lies not in avoiding them, but dealing with them with optimism and rationale for a better tomorrow. As Confucius said: the greatest glory is not in never falling but in rising every time we fall.

Dr Ramchandra Guha, thank you for being with us at this very joyous moment for the entire BITS Pilani family. My faculty colleagues, staff and students are as grateful as I am. I would also like to thank our Chancellor, Dr Kumar Mangalam Birla, and members of the Board of Governors for their unflinching support to BITS Pilani. Finally, I express my gratitude for my faculty and staff members for their commitment to excel in every aspect of teaching and research, in classrooms, laboratories and beyond. They are ensuring that BITS Pilani remains a top destination for the students, faculty members, research funds and recruiters. Thank you very much for your patient attention.

Souvik Bhattacharyya
Vice Chancellor
BITSPilani
Pilani | Dubai | Goa | Hyderabad

DIRECTOR'S REPORT



G. Raghurama

Respected Chief Guest, Shri Ramachandra Guha, Vice Chancellor, Prof. Souvik Bhattacharyya; Members of the Board of Governors; Directors; Members of the Senate; Distinguished guests; parents and relatives of the graduating students; students, faculty and staff of K K Birla Goa campus; members of the press; and most importantly, the shining stars of today – the graduating students from this campus.

A very good morning and a hearty welcome to you all.

This year, 625 of our students are eligible to receive their degrees. 398 of them receive their first degree; 167 among them along with another degree under the dual degree scheme. 39 of them will receive their higher degree; and 21 of them their PhD degree. In this batch, we have three medalists: Gold medal – Mr. TALLURI VARSHEETH, Silver medal – Mr. AYUSH SHARMA and Bronze medal – Mr. SUDEEP MISHRA. At the outset, let me congratulate each and every one of you.

Our campus

This campus is the dream-come-true of our respected former Chancellor, Late Dr. K. K. Birla, son of the legendary Dr. G. D. Birla. Dr. K.K. Birla was a successful industrialist, a renowned philanthropist and an active Parliamentarian. Known for his vision and meticulous planning, Dr. Birla saw to it that the campus came up with all the necessary infrastructure, even before admitting the first batch of 600 students in August 2004. This fully residential campus has been built on an area of 180 acres with a capital investment of about 155 crores and has been named after him.

Educational system

The Goa campus of BITS Pilani offers 10 first degree programmes, 6 higher degree programmes and PhD programme. The campus now has a total strength of about 2800

students. We have embarked upon an ambitious growth plan over the next 3-4 years, wherein the student population as well as the faculty strength will almost be doubled with added focus on post-graduate and research programmes. Towards this, we will be admitting 850 students in the first degree programmes this year, compared to 605 last year.

Since the seventies, BITS had pioneered several educational reforms, such as semester system, credit based system, transparent admission process, continuous and total internal evaluation, letter grading, academic flexibilities which include the well known dual degree scheme and periodic revision of curriculum in tune with the needs of industry and practice-oriented learning apart from classroom teaching.

A total of 562 courses were offered in the last academic year (277 in I Semester and 285 in II Semester 2016-17). Out of them, 14 courses were offered across the campuses using the Cisco telepresence classroom facilities available in the campuses. 12 new courses were introduced during the last one year.

To strengthen our focus on deeper, experiential learning through technology, a remote laboratory for Embedded Systems with specific focus on Internet of Things has been set up at the Goa Campus. This facility was inaugurated in May 2017. Though primarily set-up for the WILP students - the facilities are also available to the on-campus FD and HD students who work in the area of IoT. The lab is operational 24x7 and can cater to 100 geographically dispersed students per day through an online scheduling system.

As part of the Practice School programme, every semester about 300 students of this campus are occupied in about 50 industry locations, supervised by an equal number of faculty members. We have been fortunate to receive industrial patronage for this innovative programme and most of our students receive generous stipends during this period. A new PS-II station in Goa, Cipla Biotec was started in 2016, where the first batch of four ME (Biotechnology) students worked on projects for the company. These projects were highly appreciated and all of them were given job offers by the company.

In order to enhance research at all levels, we encourage our first degree and higher degree students who wish to work for a thesis or dissertation in lieu of Practice School, to work in our research labs or in labs of some of the reputed Institutes in India and abroad. Students of this campus have been carrying out their thesis works at various prestigious universities and labs across the globe such as:

Vrije University, Brussels (Belgium); University of Montreal, University of British Columbia (Canada), Aalto University (Finland); INRIA, ENSTA Paris Tech, LIAFA University, Paris,

Telecom Paristech, TSI department, Paris Descartes University (Paris); IECR (Institute of Energy and Climate Research), TU Darmstadt, University of Heidelberg, Technische Universität München, Universität Leipzig, Schoeller Water, RWTH Aachen (Germany); Reykjavik University (Iceland); University of Brescia (Italy); Delft University of Technology (Netherlands); IST (Portugal); National University of Singapore, Nanyang Technological University (Singapore); University of Zaragoza (Spain); Uppsala University (Sweden); EPFL STI (Switzerland); University of Westminster, Imperial College (UK); and Carnegie Mellon University, University of Virginia, University of Michigan, University of Maryland, Georgia Institute of Technology, University of California Davis, Vanderbilt University, MIT, Stevens Institute of Technology, New Jersey (USA). In addition, students also work in reputed organisations in India such as IITs, IISc, TIFR, ISRO, IISERs, NPL, Microsoft Research lab.

Library

The Library has a substantial collection of more than 35,000 good reference books. Research and encyclopedic reference comprises 85% of the total collection, apart from text books. We subscribe to a carefully selected collection of journals and periodicals, both print and online. The online libraries also include conference proceedings and e-books. Recent initiatives have seen development of a sizeable popular science collection identifiable as such for lay reader and interdisciplinary readers.

The development of multifaceted reading spaces initiated in 2016 has gained momentum; thanks to the response from the reading community. Apart from a reading hall and a reading lounge that are attracting more readers to the Library, now we have developed some less efficiently used space into a sound proof discussion room equipped with smart screen and net connectivity.

Entrepreneurship and Innovation

The CIIE student chapter held the annual National E-Summit: Coalescence 2016, on September 5th and 6th 2016. The final round of the cross country B-Plan competition, Novatia saw 20+start up teams vying for the top positions. Coalescence 2016 also included the fourth edition of its annual conference, ACT(**Aspire Create and Transform**). Some of the eminent persons who shared their knowledge and experiences included Mr. Rajat Sharma, Chairman and Editor-in-Chief, India T.V., Tushar Vashisht, (Co-founder HealthifyMe), Sairee Chahal (Founder Sheroes), Nikhil Kamath (Co-founder Zerodha), Atul Kulkarni (Two time National Award winning actor) and Mr. Ajeet Khurana(former CEO of SINE, IIT Bombay and Angel Investor).

I am happy to inform that a Fabrication Laboratory “Sandbox” has been set up in our campus

this year. This facility aims to support the students to convert their creative ideas into innovative products. Some of the facilities available in Sandbox are 3D printers, 3D scanner, Laser cutter, Prototyping boards, measuring instruments and basic workshop tools. The campus is also, in process of expanding incubation infrastructure by setting up the BITS BIRAC BioNEST 3000 sq. ft. facility. The BioNEST will support start ups in the area of health care and environmental engineering.

Sponsored research

Research and Innovation is one of the important pillars of BITS Pilani. The campus has significantly enhanced its R&D capability by way of securing a significant number of sponsored research projects in competitive mode during 2016-17. A total of 37 new sponsored projects worth Rs. 1291 lakh have been received by the campus, which is about 42 % share of Rs. 3023 lakh received by the BITS Pilani University. This included the Bioincubator support of Rs. 304 lakh from BIRAC, N Delhi. Of these, 9 projects worth Rs. 248 lakh were from Industry. Three major International projects worth Rs. 136 lakh were received in collaboration with Caltech USA, Cranfield University UK and GIZ, Germany.

Top performing departments were Department of Biological Sciences - Rs. 350 lakh, Chemistry - Rs. 245 lakh, Chemical Engineering - Rs.145 lakh, Physics - Rs.145 lakh, Mechanical Engineering, CS & IS and Mathematics- Rs. 50 lakh each. Funding agencies are Bill and Melinda Gates Foundation, Science and Engineering Research Board, Dept. of Science & Technology, Indian Space Research Organization, Department of Atomic Energy, Department of Biotechnology, Indian Council of Agricultural Research, R.D. Tata Trust, Cipla Biotech. Ltd., Hitachi India Pvt. Ltd., Deccan Fine Chemicals Pvt. Ltd., GIZ, Germany. 12 projects worth 274 lakh were successfully completed and 66 sponsored projects worth Rs. 1200 lakh are ongoing

Some of the significant projects include:

Two prestigious grants from Bill and Melinda Gates Foundation of USD 135,000 and USD 42,000 (Rs. 120 lakh) were awarded to Dr. Srikanth Mutnuri of the Department of Biological Sciences in partnership with Cranfield University U.K. and Caltech USA in the area of water and waste water treatment. He also received a BCIL grant of Rs. 42 lakh.

Two major consortia projects worth about Rs 390 lakh (with BITS Pilani share of Rs. 100 lakh) were received in the area of food, from R.D. Tata Trust and Indian Council of Agricultural Research by Dr. Sunil Bhand jointly with CDAC, Jadavpur University, IARI Delhi to develop

tsensors for pesticide residues in fruits and vegetables.

Dr. Srinivas Krishnaswamy, Department of Chemical Engineering received a grant of Rs. 56.11 lakh entitled “Unmixed reforming (UMR) of Methane for Hydrogen Production” jointly with Dr. **Aniruddha B. Pandit, Institute of Chemical Technology, Mumbai.**

Dr. Asima Shaukat, Department of Chemical Engineering received a grant of Rs. 55 lakh under DST Young Scientist award scheme “Visco-elastic, visco-plastic and thixotropic behavior of biogreases and its influence on lubrication (tribological) performance”

Dr Ram Shankar Patel, Department of Physics received a grant of Rs. 50.80 lakh from SERB, N Delhi entitled “Spin Seebeck effect in novel heterostructures” jointly with NISER, Bhubaneswar.

Dr. Utpal Roy, Department of Biological Sciences received a grant of Rs. 48 lakh from Department of Biotechnology entitled “Exploration of Antifungal lead molecules from the wild type Bacillus subtilis RLID 12.1 purification and molecular characterization along with optimizing production” in collaboration with PGIMER Chandigarh.

Dr. P. Nandakumar, Department of Physics received a SERB grant of Rs. 44 lakh entitled “Studies on biomolecular transport through nuclear pore complexes using a dual fluorescence channel confocal microscope” jointly with Dr. Meenal Kowshik of the Department of Biological Sciences.

Dr. Nitin Sharma, Department of EEE received ISRO grant of Rs. 33 lakh entitled “Development of SDR based GNSS receiver”. Dr. Sharma is also Co-PI with Prof M. Srikanth in the Bill and Melinda Gates Foundation grant from UK.

Dr. P. Dhanumjaya, Department of Mathematic received SERB project of Rs. 15.60 lakh entitled “Predictive Mathematical Modeling and Analysis for Effective Diagnosis and Control of Diabetes Mellitus with associated Co-infections and Diseases among Indians”. He also received a NBHM-DAE grant of Rs. 13.48 lakh entitled “Theoretical and numerical study of Elliptic and Parabolic partial differential equations with interferes”.

Dr. Kundan Kumar of Biological Sciences received a grant from DAE-BRNS of Rs. 29.39 lakh entitled “Study on the role of Tonoplast Intrinsic Protein Family members in arsenite accumulation and their transport in rice” jointly with BHU Varanasi. He also received a CSIR grant of Rs. 20 lakh entitled “Screening, isolation and identification of novel antimicrobial compounds from potential mangroves of Goa” jointly with Prof Utpal Roy.

Dr. Jegatha Nambi Krishnan of Chemical Engineering received a grant from SERB of Rs 31.74 Lakhs for a project entitled “Chlorine Resistant Nano Enhanced Polymer Blend Membranes”.

Dr. Malabika Biswas of Biological Sciences received a grant from SERB of Rs 20.46 lakhs for a project entitled, “Studies on the gene regulation involved in the lytic-lysogenic switch in staphylococcus aureus temperate bacteriophage phi11.”

Dr. Debasis Das of Computer Science and Information Science received a grant from SERB of Rs 19.81 lakhs for a project entitled “Secure vehicular communication and routing in future intelligent transportation systems (ITS).”

Dr. Bhavana P of Chemistry received a grant from SERB of Rs 28.22 lakhs for a project entitled “Steric and conformational influences on the performance of nonplanar and highly functionalized phenyl- and heteroaryl- porphyrins in the sensing of anions and heavy metal”.

Dr. Mainak Banerjee of Chemistry received a grant from SERB of Rs 30.57 lakhs for a project entitled “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”.

Dr. Amrita Chatterjee of Chemistry received a grant from SERB of Rs 26.63 lakhs in collaboration with Dr. Malabika Biswas of Biological Sciences and Dr. C.K. Ramesha of EEE for a project entitled “Development of PCDA-liposome based detection kit for Alzheimer's disease biomarker”.

Dr. Sunil Bhand of Chemistry received a grant from SERB of Rs 177 lakhs in collaboration with Dr. Irani Mukherjee of IARI, New Delhi and Prof LM Bharadwaj of AINT, New Delhi for a project entitled “Nano-based detection of organophosphate pesticides using metal organic framework conjugates.”

Dr. Raghu Nath Behera of Chemistry received a grant from SERB of Rs 16.42 lakhs for a project entitled “Computational Study of the Catalytic Mechanism Some Diaryldiselenide-based Glutathione peroxidase Mimetics”

Dr. Neena Goveas of Computer Science and Information Science received a grant from DAE-BRNS of Rs 28.02 lakhs in collaboration with Dr. Amalin Prince for a project entitled “Design and Development of Remotely configurable Arbitrary Ramp Generator for Frequency modulated continuous Wave Reflectometry Using Hardware Software co-Design”

Dr. Amrita Chatterjee of Chemistry received a grant from UGC DAE Consortium of Rs 7.03 lakhs in collaboration with Dr. N.N. Ghosh and IGCAR Kalpakkam for a project entitled “Design and synthesis of grapheme oxide based AIE-sensor for selective detection of Hg(II) and Organic mercury in aqueous medium”.

Dr. Gaurav Singh of Mechanical Engineering received a grant from ISRO of Rs 16.08 lakhs in collaboration with Dr. Subhash Ghosal of Mechanical Engineering BITS Hyderabad for a project entitled “Crack growth direction in amorphous silica under extreme temperatures using molecular mechanics (application to Reusable launch Vehicle (RLV))”.

Dr. Jayadevan K.P. of Chemistry received a grant from SERB of Rs 23.32 lakhs in collaboration with Dr. R.N. Behera for a project entitled “Experimental and Computational study of Boron Doped TiO₂ and ZnO Nanocrystals”

Dr. E.S. Kannan of Physics received a grant from SERB of Rs 30.61 lakhs for a project entitled “Room temperature Hydrogen Storage and sensing using Reduced Graphene Oxide-MoS₂ Nanocomposites”

Dr. Pravin M Singru of Mechanical Engineering received a grant from SERB of Rs 36.95 lakhs in collaboration with Dr. Radhika Vathsan for a project entitled “An Acoustic Study characterization and standardization of the Sarasvati Veena”

Dr. Prasanta Kumar Das of Physics received a grant from SERB of Rs 18.85 lakhs for a project entitled “Signature of Space-time noncommutativity in high energy colliders”

Dr. Prasanna Kumar of Mathematics received a grant from NBHM, DAI of Rs 13.04 lakhs for a project entitled “A study on the inequalities involving complex polynomials” He also received a grant from CSIR of 15.38 lakhs for a project entitled “Bernstein type inequalities for the polar derivative of a polynomial”

Dr. G. C. Samanta of Mathematics received a grant from CSIR of Rs 16.00 lakhs for a project entitled “Study on Dark Energy, Dark Matter and Cosmic Acceleration of the Universe in Modified Gravity”

Dr. Debasis Patnaik of Economics received a grant from pnb-Metlife of Rs 0.85 lakhs for a project entitled “Life Insurance for Rural India”

Dr. Meenakshi Raman of Humanities and Social Sciences received a grant from CIPLA Biotech, Goa of Rs 6.65 lakhs in collaboration with Dr. Shalini Upadhyay, Dr. Amitendu Bhattacharya and Layla Mascarenhas of Humanities and Social Sciences for a Technical

Writing Training Program.

Dr. Srikanth Mutnuri of Biological Sciences received a grant from Hitachi India Pvt. Ltd of Rs 16.6 lakhs for a project entitled “To Establish COD (Cr) Quality testing method for sea water”.

Dr. S.D. Manjare of Chemical Engineering received a grant from Deccan Fine Chemicals (India) Pvt. Ltd. of Rs 1.72 lakhs for a project entitled “No increase in pollution load (NIPL) certificate for M/s Deccan Chemicals Ltd for effecting change in product mix in respect of the products mentioned in their consent to operate”

Dr. Sachin Waigaonkar of Mechanical Engineering received a grant from Sintex Industries Ltd. of Rs 0.23 lakhs for a project entitled “Simulation of industrial pallets using ROTOSIM”

Dr.Srikanth Mutnuri of Biological Sciences received a grant from German Technical Cooperation of Rs 53.75 lakhs for a project entitled “Terra Preta Sanitation”

Dr. Srikanth Mutnuri of Biological Sciences received a grant from DBT of Rs 68.85 lakhs for a project entitled “Demonstration of River Sal by constructed wetlands and River bed filtration” in collaboration with TERI Goa.

Faculty Achievements

Since 2011, researchers from Goa campus have authored 700+ research publications. During 2015, our researchers have published 169 articles in peer-reviewed journals and 13 book chapters. So far, 44 Ph.D. students graduated from the Goa Campus and the number of Ph.D. students currently registered is 200.

Many of our faculty members have brought laurels to this campus through their academic and research endeavors- some examples are:

The paper “Kinetics, Isotherm and Mechanism study of Treatment of Cr(VI) contaminated wastewater by Sorghastrum Nutans (L) Nash-natural grass”) presented by Dr. Saroj Sundar Baral won the Best Poster Presentation award at the 11th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES), in Lisbon, Portugal, during Sep 4-9, 2016.

The research paper “Process technology for removal of chromium by using sludge from pig iron industry”) jointly authored by G. Surendran & Saroj Sundar Baral, and presented by Mr. G. Surendran CHEMCON-2016, IIT-Chennai during 27 -30 December 2016, received the best paper award for the session Oral Presentation.

Dr. P.M. Singru won the best paper award for his paper “Modeling of a Magneto-Rheological (MR) Damper using Genetic Programming” presented at the 12th National Workshop on

“Industrial Problems in Machines and Mechanisms, IPROMM 2016” held at Visvesvaraya National Institute of Technology Nagpur during 22-23 December 2016 organized by the Association of Machines and Mechanism, India.

Ms. Parul Sahu and Dr. Srinivas K. won the Best Poster award under the category 'Heat Transfer' for their paper "Study of U-tube Scraped Crystallizer for Desalination" at the 69th Annual Session of IChE, CHEMCON 2016 held in Chennai, India.

The 2014 volume, *Culture and Media: Ecocritical Explorations* (co-edited by Dr. Rayson K. Alex) was selected as the best seller of September 2016 in UK. A book *Ecodocumentaries: Critical Essays*, co-edited by Dr. Rayson K. Alex, was published. Dr. Alex also directed a video on BITS Pilani, K.K. Birla Goa Campus screened at Convocation 2016

Dr. Basavadatta Mitra has been appointed since July, 2016, as the Team Leader for one of the verticals-Project-based Evaluation, under Education Committee, Goa Chamber of Commerce and Industries, responsible for auditing Internship Programmes of State Engineering Curriculum

Dr. Meenakshi Raman has been appointed for the second term (2016-2019) as a member of Board of Studies, Goa University, for English

Dr. S.D. Manjare was appointed as the distinguished scientist for the Scientific Advisory Board of the Conference on Sustainable Development of Energy, Water and Environment Systems, which is the 12th in this series of conferences, October 2016. Goa State Pollution Control Board appointed Dr. S.D. Manjare on 22 January 2016 as a Member of expert appraisal committee to assess the environmental impacts of the proposed project on marina facilities at north of Zuari river, near village Nauxin, Goa.

Dr. Dibakar Chakrabarty has been selected second time as member of the Board of Studies in Zoology of the Goa University. He has also been invited to join pool of international experts of the Russian Science Federation.

Dr. Utpal Roy was awarded 'Indian National Science Academy Visiting Scientist Fellowship to work at PGIMER, Chandigarh in June 2017. He has been the GU-Vice-Chancellor appointed Doctoral Research Committee (DRC) member at the Goa University in 2016-2017.

Dr. Utpal Roy, Dr. Meenal Kowshik, Dr. Vijayashree Nayak and Dr. Judith Braganca conducted various classes in Applied Microbiology for the BIOCON Academy as a part of the University Industry Linkage.

Dr. Halan Prakash conducted a course [under the Excellence in Analytical Chemistry, (EACH) Program] at University of Tartu titled "Analytical Methods in Advanced Oxidation Processes, Oct, 2016. He was invited as a "Visiting Faculty" at NIREAS, -International Water Research Center, University of Cyprus deliver a course of "Advanced Oxidation Process" and conduct research on "Antibiotic resistance"

Dr. Srikanth Mutnuri has been appointed member of State Level Advisory board to review the matters related to implementation of rules, state policy and strategy policy and strategy on solid waste management.

Dr. Narendra Nath Ghosh has been appointed as a member of Editorial board of the Journal entitled "Advances in Nanomaterials" published by Science Publishing Group Inc. USA. He has been appointed as a member of National Advisory Committee member of International Conference on Chemical Engineering and Advanced Polymeric Material organized at BIT, Mesra, Ranchi from 18th to 20th August, 2016

Patents Filed

This year, 3 Patents have been filed by faculty and student inventors:

- Dr. Sunil Bhand jointly with CDAC Kolkata and Tea Research Association Toklai Assam filed a patent for 'A sensor to detect pesticide residues in tea'. The work was financially supported by the Tea Board of India.
- Dr. Halan Prakash, along with PhDScholars: Priyadarshini Parakh and Gokulakrishnan Subramanian from Department of Chemistry and Dr.Panzade Prasad from Aditya Birla Science & Technology Company has filed a patent for 'A Bactericidal Composition for Disinfecting Water.'
- Dr. Pravin Singru along with students Rachna Shetty, Satish Deopujari & Atul Bhargav Mistry from Department of Mechanical Engineering has filed a patent for 'An Endotracheal Tube For Measuring Endotracheal Pressure'.

Notable visits for collaborations

Dr.Srikanth Mutnuri and Dr.Nitin Sharma visited Dr. Williams Leone, Centre for Competitive Creative Design (C4D) Building 82 Cranfield University, Bedfordshire, MK43 0AL, United Kingdom during 9-13 January, 2017for collaborative project on "Analytics sensor Test kit for advanced process control" funded by Bill and Melinda Gates foundation.

Dr.Srikanth Mutnuri was invited to UNESCO IHE, Delft Netherlands to participate in Design and Creation workshop held at UNESCO-IHE, Delft from 31 January to 2 February 2017, for establishing and implementation of the new Professional MSc Program in non-sewered sanitation.

Dr.Srikanth Mutnuri visited International Water Management Institute headquartered at Colombo Srilanka during 17-19November, 2016, *Meeting with GIZ/BEAF to discuss recent grants for Resource Recovery and Reuse for soil rehabilitation in South Asia and to brief on IWMI portfolio and further options for collaboration* BEAF: GIZ's Advisory Service on Agricultural Research for Development (BEAF)

Dr. Narendra Nath Ghosh was invited to visit University of Tartu, Estonia. Department of Chemistry, during 9th -14thSeptember 2016, for collaborative research and to deliver a talk (invited).

Dr. Narendra Nath Ghosh was invited to visit University of Birmingham, UK: School of Metallurgy and Materials, during 19th-28thJuly, 2016. He was invited by Professor G F Fernando for collaborative research related to Newton Research Collaboration Programme award. Visit was sponsored by: Royal Academy of Engineering, UK.

Dr. Narendra Nath Ghosh was invited to visit University of Leeds, UK: School of Biomedical Science from 24th to 25th July 2016: Invited by Professor Paul Millner for formulating research projects and delivering lecture as part of the activities of Visiting Professorship of University of Leeds. Visit was sponsored by University of Leeds

Visits by dignitaries

A team of European Union delegation to India, representing Research and Innovation cooperation between Europe and India, visited the campus on 23 September 2016. Representatives from countries namely, France, Germany, Denmark, Norway, Sweden and Italy held discussions with the Director and Senior faculty members on the research opportunities in various areas.

Prof. B.V.R Chowdari, Senior Executive Director, President's office, Nanyang Technological University (NTU), Singapore and Prof. Bo Liedberg, Dean, Interdisciplinary Graduate School, NTU addressed the Faculty and Students on 29 September, 2016.

Prof. Philip Diamond, Director General of Square Kilometer Array(SKA) visited the campus along with other SKA dignitaries on 10 of November, 2016. Prof. Diamond delivered a public lecture titled: "From Dawn of Time to Life in Universe: How SKA will change our perception of the cosmos"

Prof. Shanta Laishram, Stat. Math Unit, Indian Statistical Institute (ISID), New Delhi delivered a lecture on "Prime Numbers and Cryptography" in April 2015.

Prof. S. Thangavelu, Department of Mathematics, IISc Bangalore delivered a lecture on "Hardy's Inequality" in April 2017.

Dr. Luz Roncal (BCAM Researcher), Basque Center for Applied Mathematics (BCAM), Bilbao, Spain delivered a lecture on "A generalized spherical mean Radon transform acting on radial functions" in April, 2017.

Dr. Amiya Ranjan Bhowmick, Assistant Professor, Department of Mathematics, ICT Mumbai delivered a lecture on "Evolution of Model Specific Growth Rate: Theoretical Analysis and Application to Real Data" in March 2017.

Mr. Deepak Garud and his team from Binary Semantics Ltd. Mumbai gave a talk on 'Introduction to Maple' in February, 2017.

Prof. Anant R. Shastri, Emeritus Fellow, Department of Mathematics, IIT Bombay delivered a lecture on "Linear Algebra Proof of Fundamental Theorem of Algebra" in January 2017.

Prof. B. C. Ranu of IACS, Kolkata who is INSA Senior Scientist & J C Bose National Fellow gave a Lecture on "Solvent, Time, Step and Cost Economy for Chemical Reactions - An Emerging Concept" in February 2017.

Prof Hans Hermann Richnow, Head of Dept of Isotope Biogeochemistry, Helmholtz Centre of Environmental Research -UFZ, Germany gave a Invited Talk on 'Chemical Microscopy using NanoSIM and Helium ion Microscopy' and on "Isotope Fractionation and Assessment of Degradation Processes" in February 2017.

Prof Ulo Mander, Professor of Physical Geography and Landscape Ecology, Head of Department of Geography, Institute of Ecology and Earth Sciences, University of Tartu, Estonia gave Invited Talks on 1) Constructed wetlands for wastewater treatment - An Overview 2) Microbiological aspects of Nitrogen removal in treatment wetlands 3) Alternative filter materials for Phosphorus removal in constructed wetlands and 4) Constructed wetlands for treatment polluted agricultural runoff in March 2017.

Prof Folrent Chazarenc, SERDOBBEL Vincent & Valerie Hequet from Ecole des Mines de Nantes, France, Dr. Hoysala N Chanakya & Dr L N Rao, IISc Bengaluru and Dr M M Ghangrekar, IIT Kharagpur visited for an Indo French CEFIPRA Meeting Network on Decentralised Grey / Waste water treatment in May 2017.

Representatives from University of Gottingen, Germany, Universidade De Santiago de Compostela, Spain and Lund University, Sweden visited Goa campus for a Joint Workshop

on 'Mobility, Employability and Internationalization of Indian Higher Education System' under Erasmus Mundus 'NAMASTHE' program, hosted by BITS Pilani, K K Birla Goa Campus in July 2017.

Conferences and workshops

A number of conferences and workshops were hosted at Goa campus during 2016-17:

- A National workshop on R with Applications to Quantitative finance was hosted by BITS-Goa campus in August 2016 organized by Dr. Mayank Goel and Dr. J.K. Sahoo.
- A two-day workshop on Insurance for Rural Areas was conducted by the Department of Economics and organized by Dr. Debasis Patnaik in August 2016.
- A National Symposium on Digital Humanities: Perspectives and Challenges was organized by the Department of Humanities and Social Sciences BITS-Pilani Goa campus in September 2016.
- A two-day IEEE conference was hosted by the Department of EEE in September 2016.
- Inauguration of Goa Chapter of Indian Institute of Metals (IIM) is organized by Dr. D.M.Kulkarni in September 2016.
- A two-day workshop was held on Environmental Management system for Industries and hotels in Goa by Dr. S.D. Manjare from Chemical Engineering Department.
- Dr. Narendra Nath Ghosh from Chemistry Department organized a symposium on Recent Advancements in Chemical Sciences and Research Scholar Meet-2016 in November 2016 at BITS –Goa campus.
- A conference on DAE School in Analytical Chemistry (jointly with CHEMISTRY DIVISION BARC and NIO GOA) was held by Dr. Sunil Bhand in November 2016.
- Basics of Molecular Dynamics Simulation workshop was organized by Dr. Srinivas Krishnaswamy from Department of Chemical Engineering in November 2016.
- Dr. Aswini Kumar Mishra hosted a workshop on ArcGIS Training in November 2016.
- 4th International Conference on Advanced Oxidation Processes (AOP-2016) was organized by Dr. Halan Prakash from the Department of Chemistry. BITS-Goa campus organized this event in association with the society of Environmental Chemistry and Allied Sciences (SECAS) and was participated by delegates from USA, Columbia, Brazil, Ireland, France, Netherlands, Cyprus, South Korea, Japan and India comprising faculty, research scholar, students, and industry professionals in December 2016.
- TEDxBITSGoa was organized by the Department of Council for Student Affairs.
- The conference on “New Frontiers in Chemistry-from Fundamentals to

Applications-II (NFCFA2017) was organized by Dr. Mainak Banerjee from Department of Chemistry in January 2017. The conference is aimed to cover the contemporary research in the broad areas of Chemistry and other allied branches of science.

- Quark 2017 was organized by BITS Goa campus students in February 2017.
- A two-day workshop on Teaching Learning Centre (TLC) National Convention was organized by Dr. Varinder Singh, Department of Teaching Learning center in February 2017.
- CALDAM Indo- German Pre-Conference School on Algorithms and Combinatorics conference was held in BITS-Goa campus by the Department of Mathematics organized by Dr. T.Singh in February 2017.
- Two day workshop on “Use of Unit-Level Data of NSS, ASI and Economic Census” was organized by Dr. Aswini Kumar Mishra from Department of Economics in March 2017.
- 4th International AttLis (Attentive Listener in the Visual World) workshop on multi-modal cognition was organized by Dr. Veeky Baths and the Cognitive Neuroscience Lab, Department of Biological Sciences, BITS Goa Campus in March 2017. The interactive session had 10 International and 3 National Speakers invited.
- 9th Young Investigators Meeting 2017 was held in Goa with BITS Goa campus as the hosting institute and Dr. Smit Biswas as the co-organizer in March 2017. The poster sessions lasted over 4 days and 80 young scientists competed to present the best ongoing research within the country and abroad
- Dr. Geetha B. and Dr. Rayson K. Alex from the Department of Humanities and Social Sciences at BITS Goa Campus organized a workshop on Filmmaking in March 2017. The workshop covered myriad topics such as aesthetics of cinema and other visual arts, visual storytelling, shot design, story boarding and editing.
- The Annual 2 day event, “BITS Goa Economics Conclave” was organized by Dr. Aswini Kumar Mishra from the Department of Economics, BITS Goa Campus in March, 2017.
- Dr. Manoj Kumar Pandey & Dr. Amit Setia had organized a workshop on Teaching Strategies in Mathematics in April 2017.
- Indian Institute of Metals (IIM) Council Meeting was hosted by BITS Goa campus, organized by Dr. D.M.Kulkarni in April 2017.
- A four day workshop on Indo French CEFIPRA Meeting Network on Decentralized Grey / Waste water treatment was organized Dr. Srikanth Mutnuri at BITS-Goa campus in May 2017.

Student achievements

Our students have always enjoyed a pride of place in our success by winning honors in various spheres. Often we find number of students opting for internships abroad (France, Germany, and USA) out of their own initiatives, during the summer of their third year. They participate in various competitions and win accolades. Some of the significant achievements of the students for the year 2016-17 are:

Ambareesh Rathi (ID: 2012B4A4412G) underwent a six-month long research internship at TU Delft, Netherlands. He worked on the EU H2020 project FALCON, consisting of 12 partners from 8 European countries. He was the only intern from India, also the youngest among all, selected for this role. He worked in the Design Engineering department under project leader Dr. Wilfred van der Vegte, Assistant Professor, Industrial Design Engineering, TU Delft. As a result, based on his work, he was offered a PhD position in the laboratory.

Devansh Raj (ID: 2012B1A3662G) worked as an intern at the Max Planck Institute for Developmental Biology, Germany, under the guidance of Dr. Ralf J. Sommer as a part of the off-campus thesis for semester II, 2016-17.

Rachit Gupta (ID: 2013A3PS201G) received the Mitacs Globalink Scholarship (2016) for an internship at the University of Manitoba. He worked at Nano-Systems Fabrication Laboratory under Dr. Cyrus Shafai of University of Manitoba, Winnipeg, Canada.

T Sai Ruthvik (2013A8TS489G), Advait Balaji (2013B1A7656G), Valliappan C A (2013A8TS478G) and Piyush Dhingra (2013B3A7710G) presented a paper titled "A Portable Real Time ECG Device for Arrhythmia Detection Using Raspberry Pi" at the Mobihealth Conference held in Milan, Italy during 14-16 November, 2016. They worked under the guidance of Dr. Veeky Baths, Department of Biological Sciences.

Amit Agarwal (ID: 2014A7PS403G) was successful in writing a research paper titled "PRESGen: Petri net model construction from high level language" under the guidance of Prof. Soumyadip Bandyopadhyay and Prof. Santonu Sarkar in November, 2016. The paper was accepted in POPL 2017 SRC (Student Research Competition).

Debabrata Moitra (2014PHXF403G) has won 2nd Prize for the poster paper entitled "A simple 'in situ' co-precipitation method for the preparation of multifunctional CoFe₂O₄-reduced graphene oxide nanocomposites: excellent microwave absorber and highly efficient magnetically separable recyclable photocatalyst for dye degradation" authored by Debabrata Moitra, Madhurya Chandel, Barun Kumar Ghosh, Raj Kumar

Jani, Manoj Kumar Patra, Sampat Raj Vaderab and Narendra Nath Ghosh in the Symposium on Recent Advancements in Chemical Sciences and RSC Research Scholar Meet-2016 at BITS Pilani, K K Birla Goa Campus 13th November 2016.

Mihir Naik (ID: 2015B4A8518G) and Rishi Raj Grandhe (ID: 2015B3A7544G) won the novice finals of the team event of The PES Debate 2016, which was held in PES University in Bangalore from 28-30 August, 2016.

Avidipto Chakraborty, a student of BITS Pilani, K K Birla Goa Campus, topped CAT 2016 with a 100 percentile score, beating 2.3 lakh applicants competing for admission to the prestigious Indian Institute of Management and other elite business schools.

Apart from their scholastic records, students of Goa campus are actively involved in various extracurricular activities: Three festivals, namely, Waves (cultural), Quark (Techno-management) and Spree (Sports) are all organized by students at the All-India level with a host of interesting and challenging events. Students also demonstrate their sensitivity to the needs of society by organizing social service activities through two forums, Nirmaan and Abhigyan.

The BITS Pilani K K Birla Goa Campus football team, BITS FC registered as a club under the Goa Football Association and participated in the Goa Football Association 3rd division league. BITS FC got promoted to 2nd division after finishing Runners-Up in the league.

The startup DRONE NATION by our students, Vichar Shroff, Chetan Reddy & Nikhil Khedekar has won the Nidhi Prayas Grant for startups by DST, Government of India to develop a Drone for Agriculture. Drone Nation is one of the 5 teams selected in the final round from among more than 2000 teams that participated from the entire country.

In 2016, SpaceX developed a one-mile test track and CEO Elon Musk launched a worldwide challenge for student engineering teams to come and build Hyperloop pod vehicles to race on this track, to test out the concept for a new mode of transport he had proposed, called the Hyperloop. A small group of undergraduate students from BITS Pilani, decided to take up Musk's challenge and build team Hyperloop India, which after multiple rounds and design reviews is the first and only team from India and one of the two from Asia selected to build and race their pod on the SpaceX track in August 2017.

BITS Pilani is at an important stage of growth. All the faculty, staff and students at the Goa Campus are geared up to meet the challenges in achieving our Vision 2020. The growing

profile of achievements of our faculty and students, increased national and international focus on collaborating with our campus, together with the dynamic leaderships of our Chancellor and Vice-chancellor, make us absolutely confident of reaching higher heights in terms of educational, scientific and technological excellence in the years to come.

My dear students, As you prepare yourself to make the transition to the world out there, you may be filled with some anxiety, little uncertainty, and hopefully, full of enthusiasm and energy. But, Remember, only you have the power to decide what your future will be like. It depends on the decisions that you make. You have to make the right choice to be a happy person. I hope the education that you have got in BITS Pilani has given you that ability.

Dream big... But to realise the dream, you have to work hard. Seize the next opportunity as it comes, stay open to trying something new, and create things that will make us all proud.

We wish you all the very best.

G. Raghurama

Senior Professor & Director

Birla Institute of Technology and Science

KK Birla Goa Campus

INTRODUCTION TO THE CHIEF GUEST



Shri Ramachandrs Guha

Ramachandra Guha is a historian and biographer based in Bengaluru. He has taught at the universities of Yale and Stanford, held the Arné Naess Chair at the University of Oslo, and been the Indo-American Community Visiting Professor at the University of California at Berkeley. In the academic year 2011-2 he served as the Philippe Roman Professor of History and International Affairs at the London School of Economics.

Guha's books include a pioneering environmental history, *The Unquiet Woods* (University of California Press, 1989), and an award-winning social history of cricket, *A Corner of a Foreign Field* (Picador, 2002). *India after Gandhi* (Macmillan/Ecco Press, 2007) was chosen as the book of the year by the *Economist*, the *Washington Post*, the *Wall Street Journal*, the *San Francisco Chronicle*, *Time Out*, and *Outlook*, and as the book of the decade in the *Times of India*, the *Times* of London, and *The Hindu*. His most recent book is *Gandhi Before India* (Knopf, 2014), which was chosen as a notable book of the year by the *New York Times*.

Apart from his books, Guha also writes a syndicated column, that appears in six languages in newspapers with a combined readership of some twenty million. Guha's books and essays have been translated into more than twenty languages. The *New York Times* has referred to him as 'perhaps the best among India's non fiction writers'; *Time Magazine* has called him 'Indian democracy's pre-eminent chronicler'.

Ramachandra Guha's awards include the Leopold-Hidy Prize of the American Society of Environmental History, the Daily Telegraph/Cricket Society prize, the Malcolm Adideshiah Award for excellence in social science research, the Ramnath Goenka Prize for excellence in journalism, the Sahitya Akademi Award, and the R. K. Narayan Prize. In 2009, he was awarded the Padma Bhushan, the Republic of India's third highest civilian honour. In 2008, and again in 2013, Prospect magazine nominated Guha as one of the world's most influential intellectuals. In 2014, he was awarded a Honorary Doctorate in the Humanities by Yale University. In 2015, he was awarded the Fukuoka Prize for contributions to Asian studies.

DISTINGUISHED ALUMNUS AWARD 2017



Prof. Govindan Rangarajan

Prof Govindan Rangarajan obtained his M.Sc. (Hons.) in Physics from BITS Pilani in the year 1985 and subsequently did his Ph.D. from University of Maryland, College Park, USA in 1990. He served as Staff Scientist, Lawrence Berkeley Laboratory, University of California, Berkeley, USA from 1990 to 1992 before returning to India as an Assistant Professor at the Indian Institute of Science (IISc), Bangalore. He is presently serving as Professor, Department of Mathematics. He also heads the Division of Interdisciplinary Research (this Division comprises 10 Departments and Centres of IISc including the Centre for Nanoscience and Engineering, Department of Computational and Data Sciences, Supercomputer Education and Research Centre, Robert Bosch Centre for Cyber Physical Systems etc.). He is an Honorary Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore.

His research interest lies in the general areas of Nonlinear dynamics, Time series analysis, Applied Stochastic Dynamics and having applications in the areas of Neuroscience, Geophysics and Accelerator physics etc. He has published more than 75 research papers in international journals of repute. His research contributions are highly relevant for applications in diversified fields and have a great recognition amongst scientific community by having a citation indices of 2674, H-index of 23 and i10 index of 41.

He has received widespread recognition for his extraordinary contributions to research. He is a J. C. Bose National Fellow, Fellow of the Indian Academy of Sciences, Fellow of the National Academy of Sciences, India and a Homi Bhabha Fellow. He has been knighted by the Government of France (Knight of the Order of Palms) in 2006. He is a recipient of the Platinum Jubilee Award Lecture, Indian Science Congress Association, 2013.

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

DISTINGUISHED ALUMNUS AWARD 2017



Prof. NARAYANA R. ALURU

Prof Narayana R. Aluru holds a Bachelors degree in Civil Engineering from BITS Pilani in 1989. He subsequently did his M.S. in Civil Engineering from Rensselaer Polytechnic Institute in 1991 and Ph.D. in Civil (Major) & Electrical (Minor) from Stanford University in 1995. He was Postdoctoral Associate, MIT during July 1995-Dec 1997. He is currently a Kritzer Professor in the Dept. of Mechanical Science and Engineering and Co-Chair, Molecular and Electronic Nanostructures Research Initiative, Beckman Institute for Advanced Science and Technology, from July 2005 onwards, at the University of Illinois at Urbana-Champaign.

He has to his credit more than 200 publications in internationally acclaimed journals in the areas of Computational Microtechnology (MEMS, Bio-MEMS, and Microfluidics), Multiphysics and Multiscale Computational Methods, and Computational Nanotechnology (NEMS, Nano fluidics, and Bio-Nano). His research contributions include development of Multiphysics Simulation tools for MEMS, development of multiscale techniques for NEMS and Nanofluidic systems, revealing new physical phenomena encountered in confined Nanofluidic transport, development of multiscale techniques for DNA sequencing and protein recognition through Nanopores, identifying energy efficient materials for water desalination, and demonstration of blue energy using Nanoporous 2D membranes. Prof. Aluru's work on computational micro and Nanotechnology has been outstanding and highly cited, resulting in an H-index of 61 and over 13,100 citations (as of June 2017).

He has been serving as Associate Editor of leading international journals - IEEE/ASME Journal of Microelectromechanical Systems (2004-2014); IEEE Transactions on Circuits and Systems II (Jan 2004-Dec 2005); Micro and Nanofluidics since 2015; ASME Journal of Applied Mechanics since 2017; and is on Editorial Boards of internationally acclaimed

journals - Computer Methods in Applied Mechanics and Engineering, International Journal for Multiscale Computational Engineering, Interaction and Multiscale Mechanics, and Journal of Computational Electronics.

He has received widespread recognition for his extraordinary contributions to the field of teaching and research. He is recipient of prominent Honors/Awards for his research work such as NSF CAREER Award, 1999; NCSA Faculty Fellow (1999, 2006, 2014); Xerox Award, 2002; CMES Distinguished Young Author Award, 2001; Willett Faculty Scholar, 2002-08; ASME Gustus L. Larson Memorial Award, 2006; USACM Gallagher Young Investigator Award, 2007; Richard W. Kritzer Distinguished Professor, 2009; Fellow, US Association for Computational Mechanics (USACM), 2011; Fellow, ASME, 2011, and The J. Tinsley Oden Medal from USACM in 2017.

For his extraordinary contributions to teaching, he has been honoured by College of Engineering Teaching Excellence Award, 2012, Engineering Council Award for Excellence in Advising, 2012, and his students have consistently ranked him Excellent in teaching year after year.

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

DISTINGUISHED ALUMNUS AWARD 2017



Mr. Hari Menon

Mr. Hari Menon obtained his MSc (Tech) in Science & Technology Development from BITS Pilani in the year 1983. Hari started his career with ORG Systems, subsequently moving on to work with many of the best and most respected names in the country, including TVS Electronics, Wipro Infotech, Planetasia.com and Integrated Data Systems. He was the CEO of 'Indiaskills' – the Vocational Education joint venture between Manipal Group and City & Guilds (UK). Hari's entrepreneurial journey began in 1999 when he co-founded Fabmart, one of the pioneers in e-commerce in India and its physical extension – Fabmall, a chain of grocery stores in South India, which was acquired by Aditya Birla Group in 2006 and renamed 'More'.

Mr. Hari Menon is the CEO of BigBasket.com, a company he co-founded in December 2011 with a vision of setting up India's finest online food and grocery company. BigBasket.com, India's largest online supermarket, delivers the entire range of groceries, fresh fruits and vegetables, fresh meat, dairy products, processed foods, toiletries, personal care products, gourmet foods and a wide range of household products in 25 cities in India. Their range has 18000 products and over 1000 brands. The key to success of BigBasket lies in constant innovation using technology and unmatched Customer Service (in all aspects). BigBasket processes more than 45,000 orders per day, has a team of 14,000 members and a base of 5 million customers.

Mr. Hari Menon has received widespread recognition for his extraordinary contribution as an entrepreneur. He and his company are recipients of distinct and prominent awards namely - Consumer Internet Company of the Year by VC Circle Awards 2016; BigBasket was recognized by Your Story as the 4th in the Top 100 Indian startups with gravity defying

momentum in 2015; Best Startup of the year 2014 by Bangalore Management Association; Best Online Grocer at the Coca Cola Golden Spoon Awards 2016; and very recently, BigBasket was the first runner up (Silver) at the Global e- Commerce Summit Awards held in Barcelona. BigBasket was also awarded the Best Retail and e-commerce App of the Year at the AWS Mobility Awards 2017. Bigbasket has also been rated the Top Brand in the Forrester's India Customer Experience Index 2016 report. To his independent credit, Hari has been awarded for entrepreneurship by the Indira Group of Institutions; AUDI-RITZ ICON AWARDS from RITZ lifestyle magazine in the category of Entrepreneurship and "Champion of Tomorrow" by CEO INDIA Magazine. He is a regular speaker at most major retail and e-commerce forums/events in India.

He is a fond lover of music and cricket. He is awesome on the guitar and used to play the guitar for his rock band, 'The Thunk', at BITS Pilani. The band had played at cultural festivals and music clubs.

The Distinguished Alumnus Award in the category of Entrepreneurship is awarded to Mr. Hari Menon, in recognition of his outstanding contribution to society as an Entrepreneur. Through his achievements, Mr. Hari Menon has brought glory and laurels to his Alma Mater – BITS Pilani.

DISTINGUISHED ALUMNUS AWARD 2017



Mr. Harish Bhat

Mr. Harish Bhat graduated with a Bachelor's degree in Electronics and Electrical Engineering from BITS Pilani in 1985. He subsequently completed his post graduate studies in Business Management from IIM Ahmedabad in 1987, graduating at the top of his batch and winning the IIM Ahmedabad gold medal for scholastic excellence. At BITS Pilani, he also served as President of the BITS Students' Union, in 1984.

Harish Bhat is Chairman, Tata Coffee Ltd. and Brand Custodian of Tata Sons. He joined the Tata Group in 1987, as an officer in the Tata Administrative Service. He is a Director on the Boards of several Tata Group Companies, including Tata Global Beverages, Tata Coffee, Titan Company, Trent, Tata Starbucks, Infiniti Retail and Tata AIA Life Insurance Company. Prior to his appointment in Tata Sons, he was the Managing Director and CEO of Tata Global Beverages.

He has played a key role in driving many strategic plans in the Tata Group over the past two decades, including the launch and nurturing of many iconic brands, the successful turnaround of the jewellery business, as well as the acquisition of Tetley. He has played a key leadership role in building some of India's largest and most successful consumer brands – Tanishq, Fastrack, Titan, Tata Tea and Chakra Gold Tea. He has played a key role in the first ever acquisition of a global brand by an Indian Company – Tetley by Tata Tea, which was a pioneering move.

Mr. Harish Bhat has written extensively in the areas of marketing, consumer behavior and business history. He has authored the best-selling book *Tata Log*, a contemporary history of the Tata Group, which was published by Penguin in 2012. His second book, titled *The Curious Marketer*, has been published in 2017 by Penguin Random House. He writes a

popular monthly column on marketing and consumer behavior in one of India's national business newspapers, The Hindu Business Line.

He has received great recognition for his extraordinary contributions to the corporate world. He is a recipient of the Chevening Scholarship for young managers in 1997, awarded by the British Government. He has been a member of the Consumer Insights Panel of the Economic Development Board, Government of Singapore. In 2017, he received the *Champions of Excellence* award from the Advertising Agencies Association of India, for his sustained and excellent contributions, over the past three decades, to the profession of marketing and advertising.

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

DISTINGUISHED ALUMNUS AWARD 2017



Mr. Raghu Rajagopal

Mr. Raghu Rajagopal did his MSc (Tech) in Engineering Technology from BITS, Pilani in the year 1990. He is Co-Founder and CEO of DATRI, Head – Global Strategy - Ivy Mobility, Co-Founder and Director - The Green Peppers, Managing Trustee of Punarjanmam. He was into software development and software consulting prior to co-founding a social enterprise that he believes will make a world of difference for patients with life-threatening diseases such as leukemia.

He has served as Head – Chennai Development Center in i-flex that was acquired by Oracle, EVP-Sales and Marketing in Swift Response a BPO company acquired by Aegis, and CEO India, SVP Strategic Accounts in Seranova prior to plunging into a journey of contributing to a vital cause of the society. He was an active volunteer in a US donor search campaign for one of his friend's fiancé with an Indo-Pakistan genetic makeup to find a life-saving match.

Mr. Rajagopal is the Co-founder and CEO of DATRI (Sanskrit word that means donor), a not-for profit organization that was established in 2009, working for the patients suffering from several blood disorders including blood cancer and Thalassemia. He is passionate about cancer-cure and is involved in addressing the challenges faced by people of Indian origin who are suffering from these fatal blood disorders.

The probability of finding a match for Indian patients suffering from serious blood disorders is as low as less than 1%. There are over 1,00,000 patients with fatal blood disorders in India alone. Realising the importance, along with Dr Nezhil Cereb, President and Co-Founder of Histogenetics, a State-of-the-Art Lab specialised in Human Leukocyte Antigen (HLA) Typing, and Dr Soo Young Yang, Chairman and Founder of Histogenetics, Raghu set up



DATRI. Today DATRI is the largest blood stem cell donors registry in India with over 2,35,000 potential donors and has facilitated 275 transplants as of June 2017.

Raghu has been very active in the entrepreneurial eco-system in the US and India. He is also actively involved in 'The Green Peppers', a Millet based food company that specialises in healthy food options. He is the Head of Global Strategy for 'Ivy Mobility', a mobile solutions company that is a leader in the FMCG vertical.

Raghu is also the Managing Trustee for Punarjanmam Foundation that helped flood affected individuals and organizations. This organization has helped over 75 families with their children's education and in the occupation of the affected beneficiaries.

The Distinguished Alumnus Award in the category of Public Life/Social Entrepreneurship is awarded to Mr. Raghu Rajagopal, in recognition of his outstanding contributions to the society. Through his achievements, Mr. Raghu Rajagopal has brought glory and laurels to his Alma Mater- BITS Pilani.

LIST OF STUDENTS WHO ARE AWARDED MEDALS

Sl. No	Name and ID No.	Photograph	CGPA obtained	Position obtained	Type of Medal to be awarded
1	TALLURI VARSHEETH 2013A7PS045G		9.92	FIRST	GOLD
2	AYUSH SHARMA 2013A7PS083G		9.68	SECOND	SILVER
3	SUDEEP MISHRA 2013A3PS626G		9.50	THIRD	BRONZE

GRADUATION DATA (80th and 81st AWARD)**BITS Pilani, K K Birla Goa Campus****CONVOCATION 2017**

S. No.	Programmes	B.E./B.Pharm. (Hons.)	M.Sc. (Hons.)		H.D	Ph.D.	Total
First Degrees							
1.	Chemical Engineering	85	-		-	-	85
2.	Electrical & Electronics Engineering	124	-		-	-	124
3.	Electronics & Instrumentation	113				-	113
4.	Mechanical Engineering	109	-		-	-	109
5.	Computer Science	126	-		-	-	126
6.	Biological Sciences	-	33		-	-	33
7.	Chemistry	-	34		-	-	34
8.	Economics	-	34		-	-	34
9.	Mathematics	-	38		-	-	38
10.	Physics	-	36		-	-	36
Higher Degrees							
1.	M.E. Biotechnology	-	-		5	-	5
2.	M.E. Chemical	-	-		10	-	10
3.	M.E. Embedded Systems	-	-		8	-	8
4.	M.E. Computer Science	-	-		8	-	8
5.	M.E. Microelectronics	-	-		8	-	8
Phd						21	21
Total		557	175		39	21	792

78th and 79th Award
CONVOCATION - 2016
7th August, 2016

LIST OF STUDENTS RECOMMENDED FOR CONFERMENT OF VARIOUS DEGREES
BITS PILANI, K K BIRLA GOA CAMPUS

DOCTOR OF PHILOSOPHY		
SRNO	IDNO	NAME
1.	2005PHXF430G	ANANT CHANDRAKANTRAO KULKARNI
2.	2007PHXF408G	RAMPRASAD S. JOSHI
3.	2008PH29009G	KABILAN M
4.	2008PHXF005G	VAISHNAVI TUSHAR UNDE
5.	2008PHXF404G	PAWASKAR PINKY
6.	2009PHXF420G	MANE PRAVIN SAKHARAM
7.	2009PHXF424G	METIKELA SREEDHAR BABU
8.	2009PHXF425G	SURENDRAN. G.
9.	2010PH29011G	KETAKI R DESHMUKH
10.	2010PHXF016G	PRIYADARSHINI PARAKH
11.	2010PHXF019G	FERNANDES JESSICA
12.	2010PHXF433G	RAJESH PASUMARTHI
13.	2010PHXF434G	ARCHANA SHARMA
14.	2010PHXF442G	DESHPANDE AMOL ANILRAO
15.	2010PHXF804G	ANJANI SRIKANTH KOKA
16.	2010PHXF811G	PURNIMA SINGH
17.	2011PHXF010G	VIKASH KUMAR
18.	2011PHXF407G	GIRISH CHANDRAN V
19.	2012PHXF003G	FEMI R
20.	2012PHXF012G	PRAVEEN SAINI
21.	2012PHXF016G	WALAWALKAR YOGESH DILIP DIPTI

HIGHER DEGREE PROGRAMMES

M.E.(Biotechnology)

22.	2015K129001G	KOLAMBKAR PRAJAKTA HEMANT HEMANGI
23.	2015K129002G	RAAGHAVI R
24.	2015K129003G	SHRIKHANDE ASHWINI ANANT
25.	2015K129004G	HARIKRISHNAN M
26.	2015K129005G	ANIKHINDI VISHVESH PUSHKAR

M.E.(Chemical)

27.	2014PH01015G	NARENDRA CHUNDI
28.	2014PH01018G	M DILEEP
29.	2015H101006G	KRUPA BALAKRISHNAN
30.	2015H101007G	VINAY KAUSHIK
31.	2015H101008G	SHUBHANGI SINGH

- | | | |
|-----|--------------|--------------------------------|
| 32. | 2015H101009G | SHAH MANOVI TAILAP |
| 33. | 2015H101010G | MEVAWALA RUSHABH KETANKUMAR |
| 34. | 2015H101011G | SHAIFALI TYAGI |
| 35. | 2015H101013G | BHATI M KHAVIR M KHALID YASMIN |
| 36. | 2015H101014G | SUBREJHA J |

M.E.(Embedded Systems)

- | | | |
|-----|--------------|----------------------------------|
| 37. | 2015K140023G | ASTARAG CHATTOPADHYAY |
| 38. | 2015K140024G | GAURAV AHUJA |
| 39. | 2015K140025G | KAKADE MAHESH LAXMAN |
| 40. | 2015K140026G | SREEKESH S |
| 41. | 2015K140027G | RAJAT |
| 42. | 2015K140028G | KEERTHI CHAVAN G |
| 43. | 2015K140029G | KANUGOVI JAYANT BHARADWAJ |
| 44. | 2015K140030G | MOMIN AFTAB MOHAMMAD AKIL NISHAT |

M.E.(Computer Science)

- | | | |
|-----|--------------|---|
| 45. | 2015H103016G | SAMRITI GUPTA |
| 46. | 2015H103017G | AYUSHI GOEL |
| 47. | 2015H103018G | SIDHARTH G |
| 48. | 2015K103015G | SHILPA KUMAR |
| 49. | 2015K103019G | SHILPA SARAT |
| 50. | 2015K103020G | SHIVAM PATEL |
| 51. | 2015K103021G | IYER RADHAKRISHNAN RAMARATHANAM VANDANA |
| 52. | 2015K103022G | PAWAN AASUDARAM BUDHWANI |

M.E.(Microelectronics)

- | | | |
|-----|--------------|-----------------------------------|
| 53. | 2014K123029G | PRASHANTH PRASANNAKUMAR |
| 54. | 2015K123031G | BIPRASISH RAY |
| 55. | 2015K123032G | BRISTENIYA MATHEWS THOMBRA |
| 56. | 2015K123033G | PUNNA SANDEEP |
| 57. | 2015K123035G | KRUTHIK SIDDESWARAPPA SUNANDA |
| 58. | 2015K123036G | SHINDE KIRAN NARAYAN SUNITA |
| 59. | 2015K123037G | KAKADIA RAVIKUMAR RAGHAVBHAI |
| 60. | 2015K123038G | MOMIN SHADAB MOHAMMAD AKIL NISHAT |

FIRST DEGREE PROGRAMMES

B.E.(Hons.) Chemical

- | | | |
|-----|--------------|-----------------------|
| 61. | 2011B2A1562G | BHAKTAVATSALA P PANDE |
| 62. | 2011HD01588G | ALWIN MICHAEL TOMY |
| 63. | 2012A1PS465G | SAURAV CHANDEL |
| 64. | 2012A1PS675G | SAWANT ANIKET UDAY |
| 65. | 2012A1TS520G | SIDDHARTH PARMAR |
| 66. | 2012A1TS672G | AKSHAT KOHLI |

67.	2012B1A1645G	PRASUN ANAND
68.	2012B1A1650G	SUMIT KUMAR
69.	2012B1A1669G	PRIYANKA TATA
70.	2012B1A1695G	ARUSHI PANDEY
71.	2012B1A1698G	M S PREETHAM
72.	2012B1A1699G	PRANJAL SINGHAL
73.	2012B1A1703G	VARUN BAJPAI
74.	2012B1A1757G	RISHU GARG
75.	2012B2A1441G	SHIVAM SRIVASTAVA
76.	2012B2A1610G	NETKE TANMAY GIRISH
77.	2012B2A1611G	VIPUL GOYAL
78.	2012B2A1635G	PRIYANSHU LILHA
79.	2012B2A1636G	HINGORANI HARDIK RAJESH
80.	2012B2A1704G	PRATIK SHEKHAR JHA
81.	2012B3A1380G	ANURAG VIRENDRA RASTOGI
82.	2012B3A1414G	UTKARSH TIWARI
83.	2012B3A1706G	JAIPAL S RATHORE
84.	2012B4A1707G	R S SIDDHARTH
85.	2012B5A1469G	RANANAWARE SANTOSH RATNAKAR
86.	2012B5A1491G	ANKUSH PAUL
87.	2012B5A1727G	DEV DUTT SHARMA
88.	2013A1PS354G	SHREE VIGNESH HARIHARAN
89.	2013A1PS455G	MANISH OJHA
90.	2013A1PS475G	INAMDAR SIDDHESH SADANAND
91.	2013A1PS509G	JASNANI JITENDRA MAHESH
92.	2013A1PS523G	YASH BHARGAVA
93.	2013A1PS524G	AHMED
94.	2013A1PS533G	ADITYA GUPTA
95.	2013A1PS539G	NIMITOSH GUPTA
96.	2013A1PS544G	DIVYANSHU NIGAM
97.	2013A1PS546G	UTKARSH SRIVASTAVA
98.	2013A1PS568G	DUSHYANT JAIN
99.	2013A1PS573G	TURANI ANKITA JAGDISH
100.	2013A1PS578G	TANMAY SINGHAL
101.	2013A1PS579G	SHOMIK MUKHOPADHYAY
102.	2013A1PS582G	SHALINI AHUJA
103.	2013A1PS587G	BHUVSMITA BHARGAVA
104.	2013A1PS592G	LOHIYA KUSHAL
105.	2013A1PS595G	NISHKARSH KATIYAR
106.	2013A1PS605G	HANISH GUPTA
107.	2013A1PS609G	SAEE MANDLEKAR
108.	2013A1PS612G	RAHUL GUPTA
109.	2013A1PS625G	SHRISHTI LAHOTI
110.	2013A1PS630G	DESHPANDE ARNAV UNMESH

111.	2013A1PS637G	HITESH VARMA
112.	2013A1PS651G	AYUSH AGARWAL
113.	2013A1PS655G	SOMYA GUPTA
114.	2013A1PS657G	MANASVI NANDWANA
115.	2013A1PS667G	ADITYA KHANDUJA
116.	2013A1PS672G	ARNIKA JAIN
117.	2013A1PS673G	CHAUDHARY DHAVAL SANJAY
118.	2013A1PS703G	JAI BASSI
119.	2013A1PS713G	AMLENDU KUMAWAT
120.	2013A1PS718G	GOURAV GUPTA
121.	2013A1PS744G	POOJA YADAV
122.	2013A1PS760G	GANDHI AKASH ANIL
123.	2013A1PS761G	KALAKONDA SACHIN
124.	2013A1PS783G	RANA KHAN
125.	2013A1PS787G	SARVESH KUMAR SHUKLA
126.	2013A1PS817G	ABHISHEK PRASAD
127.	2013A1PS825G	ARKKO DE
128.	2013A1PS842G	NIKHIL KUMAR CHAUHAN
129.	2013A1PS845G	NAMAN PRAVIN HEGDE
130.	2013A1PS876G	SHASHWAT CHATERJI
131.	2013A1PS887G	MOHAK AGARWAL
132.	2013A1PS890G	TANMAY TIWARI
133.	2013A1PS903G	KORLAPATI SAI PHANI SUDHEER
134.	2013A1PS910G	SAMRUDHI SURESH BOKADE
135.	2013A1PS922G	LUNGASE SURAJ MADHUKAR
136.	2013A1PS923G	ANKIT KOTHARI
137.	2013A1TS107G	VADALIA PRIYANSHI HITESH
138.	2013A1TS223G	CHINDHADE ADITYA GIRISH
139.	2013A1TS423G	KABIR DHINGRA
140.	2013A1TS454G	ABHIJAY GIRI
141.	2013A1TS521G	NARAYANI V KELKAR
142.	2013A1TS585G	PARAG JAIN
143.	2013A1TS646G	ROSHAN M REGY
144.	2013A1TS648G	LUV SHARMA
145.	2013A1TS823G	PRITHIV NATARAJAN

B.E.(Hons.) Electrical and Electronics Engineering

146.	2011B2A3637G	SHIVESH ANAND
147.	2011B4A3623G	SONALI DURGA
148.	2012A3B5038G	SAMYUKTA RAMNATH
149.	2012A3B5042G	RISWADKAR AMEYA SHRIKRISHNA
150.	2012A3PS023G	ADITYA GUPTA
151.	2012A3PS216G	SANATH SHETTY DINESH
152.	2012A3PS217G	SIDDHARTH DHARNIA

153.	2012A3PS221G	NIKHIL BENIWAL
154.	2012A3PS236G	SIRIKI S SAI KIRAN
155.	2012A3PS246G	AHMAD OMAR JAVED
156.	2012A3TS132G	TUSHAR SINGH
157.	2012A3TS219G	PRASADE VRUSHALI PRADEEP
158.	2012B1A3620G	KODI SAMEERA
159.	2012B1A3644G	YOGESH GODHWANI
160.	2012B1A3646G	NANCY NIGAM
161.	2012B1A3656G	OZARKAR SIDDHI SHYAM
162.	2012B1A3662G	DEVANSH RAJ
163.	2012B1A3670G	PRABHAV MEHRA
164.	2012B1A3696G	PARIKH RAHIL KARTIK
165.	2012B1A3700G	P BHARATH SRINIVAS
166.	2012B1A3733G	SHREYA CHANDRA
167.	2012B2A3495G	TAPIAWALA SAHIL PARESH
168.	2012B2A3508G	NIKHIL GOYAL
169.	2012B2A3547G	ABHAY SARDA
170.	2012B2A3562G	HARSHIL GARG
171.	2012B2A3579G	PANDHARKAR RIDDHISH UMESH
172.	2012B2A3601G	GARIMA YADAV
173.	2012B2A3626G	LAVINA CHANDWANI
174.	2012B2A3779G	ADITYA PRAKASH PANDEY
175.	2012B3A3385G	ATISHAY JAIN
176.	2012B3A3462G	SHRADDHA MISHRA
177.	2012B3A3467G	VARKEY M JOHN
178.	2012B3A3473G	BHANVI GAUR
179.	2012B3A3518G	KANCHI HARI MANIKANTESWAR REDDY
180.	2012B3A3525G	SHETTY NIKHITA SHYAMSUNDER
181.	2012B3A3556G	WADEKAR MIHIR MILIND
182.	2012B3A3574G	KAWAR MRIDUL RAJENDRA
183.	2012B4A3545G	CHIRAG SHEKHAR
184.	2012B4A3708G	DHRUVA UPAMANYU
185.	2012B4A3711G	KSHIRSAGAR RUTUJA MILIND
186.	2012B4A3712G	JANVI CHETAN PALAN
187.	2012B4A3715G	PHADKE SHREEPRASAD SUDHIR
188.	2012B4A3737G	AKSHAR GUPTA
189.	2012B5A3325G	ACHINT KUMAR
190.	2012B5A3427G	RADHIKA NIKAM
191.	2012B5A3486G	KSHITIJ BEDEKAR
192.	2012B5A3514G	N BITTU
193.	2013A3PS014G	WARANG NIKHIL PRADEEP
194.	2013A3PS096G	PRASHANT SHARMA
195.	2013A3PS108G	MADDELA SAI AKHILESH REDDY
196.	2013A3PS118G	RISHABH MEHRA

197.	2013A3PS127G	CHURI MAYURESH RAJESH
198.	2013A3PS131G	ANAND J S
199.	2013A3PS135G	ARATHI KRISHNA S
200.	2013A3PS139G	ADARSH AGARWAL
201.	2013A3PS140G	GADDIPATI ANAND KUMAR
202.	2013A3PS144G	DELIWALA RAVISH ASHISH
203.	2013A3PS152G	VEMANA MADHU
204.	2013A3PS155G	ANKUR SINGH
205.	2013A3PS162G	AAKARSH SHUKLA
206.	2013A3PS168G	ABHINAV GUPTA
207.	2013A3PS169G	KAKANI SHUBHAM GOPAL
208.	2013A3PS174G	SHUBHAM JAIN
209.	2013A3PS181G	SALIL TUSHAR DIGHE
210.	2013A3PS184G	MANGALAPALLI SHANMUKHA BAPAYYA SASTRY
211.	2013A3PS191G	SHRAVAN NEVATIA
212.	2013A3PS194G	THACKER MEHA MAHESH
213.	2013A3PS196G	AKASH GOEL
214.	2013A3PS201G	RACHIT GUPTA
215.	2013A3PS203G	ROHAN JAISWAL
216.	2013A3PS205G	PRAKHAR VIDYARTHI
217.	2013A3PS211G	AISHWARYA MAHAJAN
218.	2013A3PS213G	SANHITA SUNIL DHAMDHERE
219.	2013A3PS220G	SETHUNATHAN RISHABH C L SETHUNATHAN
220.	2013A3PS221G	NAMAN MAHAJAN
221.	2013A3PS222G	MANJEET VIKRAM KARKHANIS
222.	2013A3PS226G	NIKHIL SUBRAMANIAN IYER
223.	2013A3PS227G	SHIPRA JAIN
224.	2013A3PS228G	ANTRIKSH VIJAY
225.	2013A3PS229G	SUMIT MANSINGHANI
226.	2013A3PS230G	SUMIT RAJAN
227.	2013A3PS231G	KANJIYA KRUT SHIVLAL
228.	2013A3PS237G	SHAMIK MUKHOPADHYAY
229.	2013A3PS242G	ALAVALAPATI NAGA DEEPA
230.	2013A3PS245G	RAHUL SUSHEEL VASUDEVAN
231.	2013A3PS250G	KAHALEKAR VIJAY HANMANT
232.	2013A3PS251G	AKASH KUMAR SINGH
233.	2013A3PS252G	PRATUL MITTAL
234.	2013A3PS253G	RUDRESH VENKATASUBRAMANIAN
235.	2013A3PS255G	TARUN TOMAR
236.	2013A3PS258G	SIDDHARTH SHARMA
237.	2013A3PS264G	DHARINEE BHANDARI
238.	2013A3PS273G	ARJUN SINGH AHLUWALIA
239.	2013A3PS274G	PRADEEP BANERJEE
240.	2013A3PS277G	SHUBHAM BHATIA

241.	2013A3PS278G	KARAN GOYAL
242.	2013A3PS284G	ABHISHEK SUKHWANI
243.	2013A3PS300G	MANE SUNIL ANGAD
244.	2013A3PS302G	ANUJ SHARMA
245.	2013A3PS306G	TANVI S
246.	2013A3PS307G	ROHIT BANERJEE
247.	2013A3PS311G	PARVEZ OWAIS ASLAM
248.	2013A3PS312G	BIBIN P GEORGE
249.	2013A3PS314G	SHUBHAM KUMAR SINGH
250.	2013A3PS315G	MAITHELI BISWAS
251.	2013A3PS317G	HARSH YADAV
252.	2013A3PS318G	PRANAY GUPTA
253.	2013A3PS320G	RAVINDRA KUMAR SINGH
254.	2013A3PS321G	PARTHEY AGRAWAL
255.	2013A3PS341G	VRUSHIK CHIMANLAL AMRUTIYA
256.	2013A3PS626G	SUDEEP MISHRA
257.	2013A3PS680G	DHARMAJI SHARATH ABHINAV
258.	2013A3PS681G	AKASH ATUL BOGHANI
259.	2013A3PS682G	SHEENA ANEES KHAN
260.	2013A3PS698G	ABDUL REHMAN MOHAMMAD SHAHZAD
261.	2013A3TS008G	PRADHAN MANDAR AJAY
262.	2013A3TS128G	MOHIT MENGHANI
263.	2013A3TS133G	DAVE ADITYA MANOJ
264.	2013A3TS148G	NAHAR PRITISH GAUTAM
265.	2013A3TS175G	PATIL TANMAY ANIL
266.	2013A3TS244G	SRIKRISHNA V
267.	2013A3TS305G	JADHAV TANVI NITIN
268.	2013A3TS316G	SARWATE SHUBHAM SANDEEP
269.	2013A3TS348G	PRANAV PAL LEKHI

B.E.(Hons.) Mechanical Engineering

270.	2012A4A7207G	KRISHNAN. G
271.	2012A4B5299G	BINIWALE AKSHAY PARAG
272.	2012A4TS121G	SHRIVASTAVA ANMOL VINAY
273.	2012B1A4594G	ANURAAG GUPTA
274.	2012B1A4649G	PRATEEK KACHORIA
275.	2012B1A4652G	KARTHIK SRINIVASAN
276.	2012B1A4654G	ATUL MISHRA
277.	2012B1A4702G	ATUL ASHOK KUMAR
278.	2012B2A4540G	HARSHDEEP SINGH HORA
279.	2012B2A4609G	HARSHIT
280.	2012B2A4613G	KARTIKEYA TIWARI
281.	2012B2A4623G	TANMAY GUPTA
282.	2012B2A4638G	SHASHWAT VERMA

283.	2012B2A4640G	KULKARNI SAI ABHAY
284.	2012B2A4774G	PUTTAGANTI ASRITH
285.	2012B3A4454G	GIRIRAJ GORANI
286.	2012B3A4472G	ANKUR BAHETI
287.	2012B3A4578G	MODAK SANAT VIBHAS
288.	2012B4A4356G	DWARKESH N
289.	2012B4A4412G	AMBAREESH RATHI
290.	2012B4A4443G	BALAJE K
291.	2012B4A4452G	GOVILKAR SIDDHARTHA SUHAS
292.	2012B4A4517G	VARUN CHOPRA
293.	2012B4A4522G	S CHETAK
294.	2012B4A4573G	BHAGAT KEWLANI
295.	2012B4A4588G	DEVANSH SHRIVASTAVA
296.	2012B4A4618G	SHAH MANAN KETAN
297.	2012B4A4713G	SRUJAN JAYATI
298.	2012B4A4726G	SHREYAS RAJAGOPAL
299.	2012B4A4745G	PRIYANUJ DEKA
300.	2012B5A4329G	SAGNIK BHATTACHARYA
301.	2012B5A4493G	DHANANJAY GUPTA
302.	2012B5A4533G	PRANAV KUMAR GAUTAM
303.	2012B5A4548G	SIDDHANT BAWEJA
304.	2012B5A4569G	SWAMINATHAN P
305.	2012B5A4716G	VIJIT MAITHEL
306.	2012B5A4717G	MORE SANMIT MUKUND
307.	2013A4PS072G	MATHEW ANTONY MOHAN
308.	2013A4PS090G	NAGUMANTRI VISHAL PATNAIK
309.	2013A4PS116G	PATIL PRATIM HARSHAVARDHAN
310.	2013A4PS121G	AMARNATH SADANGI
311.	2013A4PS134G	THOLE PARVA AMIT
312.	2013A4PS141G	ATUL GUPTA
313.	2013A4PS151G	ABHINAV RAJ
314.	2013A4PS153G	WAIKAR AMEYA MILIND
315.	2013A4PS156G	VIJJAPU NAGA RAMACHANDRA GUPTA
316.	2013A4PS159G	TANAY AGARWAL
317.	2013A4PS161G	CH RISHI
318.	2013A4PS171G	NEERAJ VIJAY BEDMUTHA
319.	2013A4PS180G	GRANDHI CHINNI VENKATESH
320.	2013A4PS182G	MOHIT GARG
321.	2013A4PS188G	RISHABH JAIN
322.	2013A4PS189G	RAJESH RAMESH
323.	2013A4PS200G	MAYANK TYAGI
324.	2013A4PS214G	MITTA NAVEEN KUMAR REDDY
325.	2013A4PS236G	KARTHIK PRASAD
326.	2013A4PS241G	SANGEETH K

327.	2013A4PS249G	NAVDEEP RAJOTIA
328.	2013A4PS256G	SURESAN ABHISHEK K P
329.	2013A4PS259G	AJINKYA DHAKE
330.	2013A4PS291G	SUDHARSAN A
331.	2013A4PS295G	ARCHIT ASWAL
332.	2013A4PS297G	KANNAN T
333.	2013A4PS301G	N ADVAITH
334.	2013A4PS304G	ANSH DEEP
335.	2013A4PS326G	DESHPANDE VEDANT SUNIL
336.	2013A4PS328G	SIDDHARTH PANDEY
337.	2013A4PS340G	MAYANKA SONI
338.	2013A4PS352G	ABHISHEK SHARMA
339.	2013A4PS358G	SOURABH SANJAY JADHAV
340.	2013A4PS365G	YARRAMSETTY HARSHA BHARGAV
341.	2013A4PS371G	VISHAL GARG
342.	2013A4PS373G	P SETHURAM
343.	2013A4PS385G	SUMIT JAIN
344.	2013A4PS396G	ANIRUDDH MURALI
345.	2013A4PS400G	KOTHA LAKSHMI RAVI TEJA
346.	2013A4PS401G	AYUSHI AGRAWAL
347.	2013A4PS404G	MITHUL NAYAGAM
348.	2013A4PS406G	RISHABH N GOEL
349.	2013A4PS407G	AMIT KUMAR
350.	2013A4PS677G	SYED ARIZ ALI
351.	2013A4PS801G	DUSHYANT RAI TARA
352.	2013A4PS802G	SAKET KUMAR SONEJI
353.	2013A4PS809G	CHINTALAPUDI DILEESH
354.	2013A4PS844G	SULE AKHIL AJAY
355.	2013A4PS857G	DEBAM KUMAR DAS
356.	2013A4TS015G	PAI SALIL MANOJ
357.	2013A4TS022G	THAKKAR PARTH
358.	2013A4TS059G	HARNOOR SINGH SACHAR
359.	2013A4TS136G	JOSHI KUSHAL RAJENDRA
360.	2013A4TS170G	KARPE SHUBHAM BASAVARAJ
361.	2013A4TS183G	SHAIKH SAIF ALI SHOUKAT ALI
362.	2013A4TS217G	MAHESHWARI SHUBHAM MANOJKUMAR
363.	2013A4TS235G	VACHHANI SHANTANU AVINASH
364.	2013A4TS243G	SUKIRT
365.	2013A4TS254G	AGRAWAL KEVIN MANISH
366.	2013A4TS288G	VARUN RAJ
367.	2013A4TS294G	ANMOL SAHOO
368.	2013A4TS332G	HARSHIT GARG
369.	2013A4TS359G	SANATH KESHAV
370.	2013A4TS361G	AKSHAY ANANDRAO SONANDKAR

371.	2013A4TS369G	TANEJA TAARESH SANJEEV
372.	2013A4TS377G	AASTHA SHAH
373.	2013A4TS383G	ANKIT NANDA
374.	2013A4TS387G	ADITHIYA N
375.	2013A4TS391G	HAJARE APURV BHASKARRAO
376.	2013A4TS394G	AKELLA SRI BHASWATH
377.	2013A4TS397G	HEMADITYA MALLA
378.	2013A4TS856G	DHAVAL MILIND MOHANDAS

B.E.(Hons.) Computer Science

379.	2011B5A7496G	SAJIDUR RAHMAN
380.	2012A4A7207G	KRISHNAN. G
381.	2012A7PS039G	VIKAS SURESH BHATT
382.	2012A7PS094G	PIYUSH GUPTA
383.	2012B1A7327G	TAMBA RAM ALIAS GAURAV GIRISH
384.	2012B1A7502G	JOSHI MAITHILI MAKARAND
385.	2012B1A7659G	MONALIKA
386.	2012B1A7660G	GAIKI AMIT PARAG
387.	2012B1A7694G	AYUSH KUMAR
388.	2012B1A7697G	KULKARNI VISHAKHA CHANDRASHEKHAR
389.	2012B1A7735G	JANANI DURAIRAJ
390.	2012B2A7436G	SREE RAVITHEJA D
391.	2012B2A7586G	BEDARKAR PRIYANKA SAMIR
392.	2012B2A7603G	JAYANTI JAIN
393.	2012B2A7629G	SAGAR VERMA
394.	2012B2A7637G	APOORVA
395.	2012B3A7371G	ABHISHEK MOHTA
396.	2012B3A7479G	ABHINAV MITTAL
397.	2012B3A7506G	AVIDIPTO CHAKRABORTY
398.	2012B3A7511G	VIPUL KUMAR RAMJEE KUMAR SINGH
399.	2012B3A7512G	PUNEET CHOUDHARY
400.	2012B3A7513G	ADITYA SHARMA
401.	2012B3A7519G	SIDDHARTH SANKARAN DINESH
402.	2012B3A7577G	PALLAVI VERMA
403.	2012B4A7363G	BALAJI AKHIL
404.	2012B4A7420G	HEMANSHU SETHI
405.	2012B4A7421G	SHREYASH OMNARAYAN MOHATTA
406.	2012B4A7497G	ARSHPREET SINGH
407.	2012B4A7524G	MOHAK CHADHA
408.	2012B4A7571G	YASH SHIRISH KASTURE
409.	2012B4A7616G	KANDREGULA S S PRIYANKA
410.	2012B4A7709G	SURVE RUTUJA RAMESH
411.	2012B4A7714G	AYUSH PANDEY
412.	2012B4A7748G	KULKARNI SNEHA HEMANT

413.	2012B4A7756G	ABHISHEK SRIVASTAVA
414.	2012B5A7483G	PRIYANKA M P
415.	2012B5A7530G	KEVIN ABRAHAM
416.	2012B5A7546G	ADITYA BHALLA
417.	2012B5A7560G	R SRINATH
418.	2013A7PS002G	KHOLKAR GAURI PRADIPKUMAR
419.	2013A7PS006G	BHAARGAV S
420.	2013A7PS007G	SHUBHAM JAIN
421.	2013A7PS009G	SAI VAIBHAV G
422.	2013A7PS010G	JOGI TEJAS DILIP
423.	2013A7PS011G	RAHUL AMBAVAT
424.	2013A7PS013G	RAJASEKHAR REDDY CHINNAVULA
425.	2013A7PS019G	PRATIK SINGHAL
426.	2013A7PS020G	ARNAB DAS
427.	2013A7PS023G	VERMA YASH DEVENDRA
428.	2013A7PS025G	V MADHUMITA MALVIKA
429.	2013A7PS027G	GHOLBA ABHIRAV GANESH
430.	2013A7PS030G	SARANGAPANI MANOJCHANDRA
431.	2013A7PS031G	BHATIA SUMIT CHANDERKUMAR
432.	2013A7PS036G	MUDIT DANGI
433.	2013A7PS037G	KARTIK SATHYANARAYANAN
434.	2013A7PS038G	SREEJITH V
435.	2013A7PS040G	SAURABH SWAMI
436.	2013A7PS041G	KONETISETTY SAI KRISHNA
437.	2013A7PS042G	MEGHANA GUPTA
438.	2013A7PS043G	MOVVA SAI KRISHNA
439.	2013A7PS044G	SHATRUJIT ADITYA KUMAR
440.	2013A7PS045G	TALLURI VARSHEETH
441.	2013A7PS047G	DHRUV KRISHNAN
442.	2013A7PS049G	SHUBHAM JAIN
443.	2013A7PS051G	SUMIT KHAITAN
444.	2013A7PS052G	SAURAV JAIN
445.	2013A7PS054G	SHAIK AFROZE
446.	2013A7PS057G	AKSHAY DAMLE
447.	2013A7PS061G	PATIL KESHAV DILIP
448.	2013A7PS068G	SHAH ROHAN VIRAL
449.	2013A7PS069G	RUNGTA ADITYA MANOJ
450.	2013A7PS070G	ARNAB BHATTACHARYA
451.	2013A7PS071G	MUKUL KOTHARI
452.	2013A7PS074G	TULZAPUR MANISH
453.	2013A7PS075G	ARPIT PANDEY
454.	2013A7PS080G	ABHISHEK GARG
455.	2013A7PS081G	SAMBALI GIRIDHAR NAIDU
456.	2013A7PS082G	SHUBHAM

457.	2013A7PS083G	AYUSH SHARMA
458.	2013A7PS084G	AVYAV KUMAR SINGH
459.	2013A7PS085G	KARUSALA HEMA CHOWDARY
460.	2013A7PS086G	SUKRITI TIWARI
461.	2013A7PS087G	NASERY MRUNMAYEE SANJAY
462.	2013A7PS088G	GAJERA KASHYAP KISHORKUMAR
463.	2013A7PS091G	DAFLAPURKAR ADITYA CHANDRASHEKHAR
464.	2013A7PS092G	NEERAJ VITTHAL INGLE
465.	2013A7PS094G	AASHUTHOSH B SAI
466.	2013A7PS098G	ADITYA SINGH
467.	2013A7PS100G	BEDMUTHA MANORAM AJAY
468.	2013A7PS101G	VAIBHAV GUPTA
469.	2013A7PS102G	PATNAIK ROHAN GOUTAM
470.	2013A7PS103G	ABHINAV GUPTA
471.	2013A7PS104G	VARUN V GOPAL
472.	2013A7PS105G	JATIN KHANDELWAL
473.	2013A7PS106G	SHARMA SRISHTI SHAMBHU
474.	2013A7PS109G	RAHUL
475.	2013A7PS110G	MENON MOHIT ASHOK KUMAR
476.	2013A7PS111G	MODI ANUJ MAYANKBHAI
477.	2013A7PS114G	ANSHUL R
478.	2013A7PS115G	MIHIR KISHORE BHARAMBE
479.	2013A7PS117G	DHRUV RATAN GUPTA
480.	2013A7PS122G	DEVASHISH DESHPANDE
481.	2013A7PS123G	MANAV MISHRA
482.	2013A7PS126G	SREEHARI S
483.	2013A7PS129G	SHAH NAIMIL KIRANBHAI
484.	2013A7PS202G	KARTHIKA NAIR
485.	2013A7PS276G	SIDDHARTH MOHAN
486.	2013A7PS660G	AMIT MILIND PATIL
487.	2013A7PS693G	ANURAG RAI
488.	2013A7PS694G	NISARG SHAH
489.	2013A7PS695G	PRAJWAL SAGAR
490.	2013A7PS711G	PANDEY ROHIT HARIPRAKASH
491.	2013A7PS712G	ABHINAV KUMAR SRIVASTAVA
492.	2013A7PS810G	ABHISHEK TIWARI
493.	2013A7TS012G	PATEL PRATYUSH ASHESH
494.	2013A7TS017G	SIDDHARTH GUPTA
495.	2013A7TS053G	BHARGAV SRINIVASA DESIKAN
496.	2013A7TS055G	RAGHAV PASSI
497.	2013A7TS065G	SUDHINDRA SAJJALGUDDAM
498.	2013A7TS067G	ANANYA GIRRAJ GARG
499.	2013A7TS076G	VISHNU C RAMACHANDRAN
500.	2013A7TS078G	SANKET RAJAN GUPTA

501.	2013A7TS113G	LAKDAWALA RUMANA JUZER
502.	2013A7TS124G	ROHITH R
503.	2013A7TS464G	RAJAT GUPTA
504.	2013A7TS696G	DHARM SKANDH JAIN

B.E.(Hons.) Electronics and Instrumentation

505.	2011B5A8419G	NIKHIL
506.	2012A8PS685G	SRIGIRI DILEEP KUMAR REDDY
507.	2012A8TS383G	VALIYATH HARIKRISHNA RAMESH
508.	2012B1A8551G	SANIKA Y PHATAK
509.	2012B1A8631G	SAMIR AHMAD
510.	2012B1A8701G	VAIDYA RADHA RAVINDRA
511.	2012B1A8736G	RAJEE GUPTA
512.	2012B2A8515G	ANURAG MALIK
513.	2012B2A8591G	SRIJAN SHARMA
514.	2012B2A8627G	KRIKTIKA SINGH
515.	2012B2A8633G	ASHWIN SAHAY
516.	2012B2A8639G	NASERY VIBHA VINOD
517.	2012B3A8248G	AAYUSH CHATURVEDI
518.	2012B3A8411G	BHAVYA AGGARWAL
519.	2012B3A8440G	ANKUR MADIYAN
520.	2012B3A8464G	AASHIMA GARG
521.	2012B3A8478G	NANDEDKAR AMEY VIVEKRAO
522.	2012B3A8498G	NAMAN GUPTA
523.	2012B3A8536G	DIVYA
524.	2012B3A8561G	AMBAREESH S J
525.	2012B3A8567G	UPADHYAY SHAILESH KUMAR BARMESHWAR NATH
526.	2012B4A8558G	T ABHIRAM REDDY
527.	2012B4A8607G	RIDIMA CHAMADIA
528.	2012B4A8608G	PRAKHAR TOSHNIWAL
529.	2012B4A8773G	ANIRUDH THUKRAL
530.	2012B5A8276G	SHREY PAREEK
531.	2012B5A8358G	SAKET PRAMOD AGARWAL
532.	2012B5A8366G	MHATRE SWAPNIL MILIND
533.	2012B5A8419G	SAVANT APOORVA AVADHOOT
534.	2012B5A8428G	ANUJ GUPTA
535.	2012B5A8492G	NEERAV DAHIYA
536.	2012B5A8504G	AGRAWAL AYUSH AJIT KUMAR
537.	2012B5A8538G	SHASHANK GUPTA
538.	2012B5A8557G	PRATIK KUMAR
539.	2013A8PS089G	GOKHALE SHASHANK ARUN
540.	2013A8PS176G	SWAPNESH KUMAR SAHOO
541.	2013A8PS210G	PHANIKRISHNASRIVATSAVA PONNALURI
542.	2013A8PS271G	SHRIKANT BHARDWAJ

543.	2013A8PS287G	YASHORAJ TYAGI
544.	2013A8PS325G	SRAJAN KULSHRESTHA
545.	2013A8PS336G	SHARMISTHA JAIN
546.	2013A8PS342G	SHRESHTH JAIN
547.	2013A8PS346G	JUHI VINAYAK WAGLE
548.	2013A8PS347G	TEEGALA BHARAT RAM REDDY
549.	2013A8PS351G	PREM PRAKASH SHARMA
550.	2013A8PS362G	ANAND PRIYADARSHAN NAIK
551.	2013A8PS366G	DHRUV SUNIL CHAUDHARI
552.	2013A8PS374G	PALCHURI VAMSEE KRISHNA
553.	2013A8PS382G	DESAI VANDIT PINALKUMAR
554.	2013A8PS388G	AISHWARYA LEKSHMI C
555.	2013A8PS392G	PRACHI MILIND PATKE
556.	2013A8PS409G	BHATT DHAVAL MITESH
557.	2013A8PS411G	PHATAK RAHUL HEMANT
558.	2013A8PS414G	RANJAN SURABHI SANJEEV
559.	2013A8PS416G	RIYA KAUR LABANA
560.	2013A8PS421G	PHATAK ANEESH AJAY
561.	2013A8PS422G	RAHUL HARDIKAR
562.	2013A8PS435G	VIKASH PATIL
563.	2013A8PS436G	AKHILESH NAYAK
564.	2013A8PS437G	ABUTURAB MOHAMMADI
565.	2013A8PS440G	SUMEET SAHOTA
566.	2013A8PS441G	SIMARPREET LUTHRA
567.	2013A8PS443G	SHAH PARTH PARAG
568.	2013A8PS447G	AMAN KRISHAN MOHAN
569.	2013A8PS465G	MANIAR SAHIL JITENDRA
570.	2013A8PS473G	AMAN TANEJA
571.	2013A8PS474G	AKSHAYA B
572.	2013A8PS486G	ANANYA MAJUMDAR
573.	2013A8PS490G	ZALA ABHIMANYUSINH DHARMENDRASINH
574.	2013A8PS491G	ARASU TARUN REDDY
575.	2013A8PS492G	ISHAN VIJAY YELURWAR
576.	2013A8PS494G	UMANG TIWARY
577.	2013A8PS496G	PRANAV KUMAR
578.	2013A8PS503G	ADARKAR SURABHI MAYURESH
579.	2013A8PS505G	KSHITIJ AGRAWAL
580.	2013A8PS507G	NIKHIL SHARMA
581.	2013A8PS508G	PATIL ASHWINI CHINTAMAN
582.	2013A8PS511G	VIBHOR JOSHI
583.	2013A8PS515G	SANGODKAR ESHAAN MANGUESH
584.	2013A8PS517G	GARVIT AGGARWAL
585.	2013A8PS675G	UTKARSH RAY BHATNAGAR
586.	2013A8PS676G	NALAGESI SIVA SANDEEP REDDY

587.	2013A8PS679G	GAURAV GUPTA
588.	2013A8PS699G	ADITYA NARAYAN RAMAN
589.	2013A8PS700G	HIMANSHU SINGH TOMAR
590.	2013A8PS701G	ASHUTOSH KHARE
591.	2013A8PS702G	REDDY SYAM SREE MANOJ
592.	2013A8PS724G	GAURABH ABHISHEK
593.	2013A8PS737G	RAAG GUPTA
594.	2013A8PS740G	BHIDE APOORVA PRASAD
595.	2013A8PS747G	SIDDHANT GUPTA
596.	2013A8PS751G	YASHASVI AJIT JOSHI
597.	2013A8PS853G	TUNDURWAR AJINKYA ANIL
598.	2013A8PS854G	ROHAN GARG
599.	2013A8PS855G	SAURABH NIGAM
600.	2013A8PS862G	TANISHA SHARMA
601.	2013A8PS863G	YADAV KARTIK RAMESH
602.	2013A8PS869G	GUNTUR MONICA
603.	2013A8TS145G	BHARGAV RAM. K.S
604.	2013A8TS303G	YERRAMILLI SUBRAMANYA VAMSI
605.	2013A8TS344G	BARKE SHRADDHA GOVIND
606.	2013A8TS378G	AAYUSH ATTRI
607.	2013A8TS413G	KETAN BHASKAR PANT
608.	2013A8TS417G	NEHA GARG
609.	2013A8TS453G	ANUSHA KAMAT
610.	2013A8TS467G	S RAMANASUBRAMANYAM
611.	2013A8TS478G	VALLIAPPAN C A
612.	2013A8TS480G	ABHINAV GUPTA
613.	2013A8TS489G	T SAI RUTHVIK
614.	2013A8TS678G	CHOUDHARY YASH ANIL
615.	2013A8TS708G	SYED SHAMOAIL HAQUE
616.	2013A8TS715G	PRANAV RAI
617.	2013A8TS790G	ADDANKI V L S S VAMSI KRISHNA

M.Sc.(Hons.) Biological Science

618.	2012B1A1645G	PRASUN ANAND
619.	2012B1A1650G	SUMIT KUMAR
620.	2012B1A1669G	PRIYANKA TATA
621.	2012B1A1695G	ARUSHI PANDEY
622.	2012B1A1698G	M S PREETHAM
623.	2012B1A1699G	PRANJAL SINGHAL
624.	2012B1A1703G	VARUN BAJPAI
625.	2012B1A1757G	RISHU GARG
626.	2012B1A3620G	KODI SAMEERA
627.	2012B1A3644G	YOGESH GODHWANI
628.	2012B1A3646G	NANCY NIGAM

629.	2012B1A3656G	OZARKAR SIDDHI SHYAM
630.	2012B1A3662G	DEVANSH RAJ
631.	2012B1A3670G	PRABHAV MEHRA
632.	2012B1A3696G	PARIKH RAHIL KARTIK
633.	2012B1A3700G	P BHARATH SRINIVAS
634.	2012B1A3733G	SHREYA CHANDRA
635.	2012B1A4594G	ANURAAG GUPTA
636.	2012B1A4649G	PRATEEK KACHORIA
637.	2012B1A4652G	KARTHIK SRINIVASAN
638.	2012B1A4654G	ATUL MISHRA
639.	2012B1A4702G	ATUL ASHOK KUMAR
640.	2012B1A7327G	TAMBA RAM ALIAS GAURAV GIRISH
641.	2012B1A7502G	JOSHI MAITHILI MAKARAND
642.	2012B1A7659G	MONALIKA
643.	2012B1A7660G	GAIKI AMIT PARAG
644.	2012B1A7694G	AYUSH KUMAR
645.	2012B1A7697G	KULKARNI VISHAKHA CHANDRASHEKHAR
646.	2012B1A7735G	JANANI DURAIRAJ
647.	2012B1A8551G	SANIKA Y PHATAK
648.	2012B1A8631G	SAMIR AHMAD
649.	2012B1A8701G	VAIDYA RADHA RAVINDRA
650.	2012B1A8736G	RAJEE GUPTA

M.Sc.(Hons.) Chemistry

651.	2011B2A1562G	BHAKTAVATSALA P PANDE
652.	2011B2A3637G	SHIVESH ANAND
653.	2012B2A1441G	SHIVAM SRIVASTAVA
654.	2012B2A1610G	NETKE TANMAY GIRISH
655.	2012B2A1611G	VIPUL GOYAL
656.	2012B2A1635G	PRIYANSHU LILHA
657.	2012B2A1636G	HINGORANI HARDIK RAJESH
658.	2012B2A1704G	PRATIK SHEKHAR JHA
659.	2012B2A3495G	TAPIAWALA SAHIL PARESH
660.	2012B2A3508G	NIKHIL GOYAL
661.	2012B2A3547G	ABHAY SARDA
662.	2012B2A3562G	HARSHIL GARG
663.	2012B2A3579G	PANDHARKAR RIDDHISH UMESH
664.	2012B2A3601G	GARIMA YADAV
665.	2012B2A3626G	LAVINA CHANDWANI
666.	2012B2A3779G	ADITYA PRAKASH PANDEY
667.	2012B2A4540G	HARSHDEEP SINGH HORA
668.	2012B2A4609G	HARSHIT
669.	2012B2A4613G	KARTIKEYA TIWARI
670.	2012B2A4623G	TANMAY GUPTA

671.	2012B2A4638G	SHASHWAT VERMA
672.	2012B2A4640G	KULKARNI SAI ABHAY
673.	2012B2A4774G	PUTTAGANTI ASRITH
674.	2012B2A7436G	SREE RAVITHEJA D
675.	2012B2A7586G	BEDARKAR PRIYANKA SAMIR
676.	2012B2A7603G	JAYANTI JAIN
677.	2012B2A7629G	SAGAR VERMA
678.	2012B2A7637G	APOORVA
679.	2012B2A8515G	ANURAG MALIK
680.	2012B2A8591G	SRIJAN SHARMA
681.	2012B2A8627G	KRIKA SINGH
682.	2012B2A8633G	ASHWIN SAHAY
683.	2012B2A8639G	NASERY VIBHA VINOD
684.	2013B2PS767G	HEMANTH KUMAR GONNABATHULA

M.Sc.(Hons.) Economics

685.	2012B3A1380G	ANURAG VIRENDRA RASTOGI
686.	2012B3A1414G	UTKARSH TIWARI
687.	2012B3A1706G	JAIPAL S RATHORE
688.	2012B3A3385G	ATISHAY JAIN
689.	2012B3A3462G	SHRADDHA MISHRA
690.	2012B3A3467G	VARKEY M JOHN
691.	2012B3A3473G	BHANVI GAUR
692.	2012B3A3518G	KANCHI HARI MANIKANTESWAR REDDY
693.	2012B3A3525G	SHETTY NIKHITA SHYAMSUNDER
694.	2012B3A3556G	WADEKAR MIHIR MILIND
695.	2012B3A3574G	KAWAR MRIDUL RAJENDRA
696.	2012B3A4454G	GIRIRAJ GORANI
697.	2012B3A4472G	ANKUR BAHETI
698.	2012B3A4578G	MODAK SANAT VIBHAS
699.	2012B3A7371G	ABHISHEK MOHTA
700.	2012B3A7479G	ABHINAV MITTAL
701.	2012B3A7506G	AVIDIPTO CHAKRABORTY
702.	2012B3A7511G	VIPUL KUMAR RAMJEE KUMAR SINGH
703.	2012B3A7512G	PUNEET CHOUDHARY
704.	2012B3A7513G	ADITYA SHARMA
705.	2012B3A7519G	SIDDHARTH SANKARAN DINESH
706.	2012B3A7577G	PALLAVI VERMA
707.	2012B3A8248G	AAYUSH CHATURVEDI
708.	2012B3A8411G	BHAVYA AGGARWAL
709.	2012B3A8440G	ANKUR MADIYAN
710.	2012B3A8464G	AASHIMA GARG
711.	2012B3A8478G	NANDEDKAR AMEY VIVEKRAO
712.	2012B3A8498G	NAMAN GUPTA

713.	2012B3A8536G	DIVYA
714.	2012B3A8561G	AMBAREESH S J
715.	2012B3A8567G	UPADHYAY SHAILESH KUMAR BARMESHWAR NATH
716.	2013B3PS616G	TIPPA BHARGAVI
717.	2013B3PS642G	BITRA JAYADEEP SAI
718.	2013B3TS499G	ABHINAV SETIA

M.Sc.(Hons.) Mathematics

719.	2011B4A3623G	SONALI DURGA
720.	2011HD01588G	ALWIN MICHAEL TOMY
721.	2012B4A1707G	R S SIDDHARTH
722.	2012B4A3545G	CHIRAG SHEKHAR
723.	2012B4A3708G	DHRUVA UPAMANYU
724.	2012B4A3711G	KSHIRSAGAR RUTUJA MILIND
725.	2012B4A3712G	JANVI CHETAN PALAN
726.	2012B4A3715G	PHADKE SHREEPRASAD SUDHIR
727.	2012B4A3737G	AKSHAR GUPTA
728.	2012B4A4356G	DWARKESH N
729.	2012B4A4412G	AMBAREESH RATHI
730.	2012B4A4443G	BALAJE K
731.	2012B4A4452G	GOVILKAR SIDDHARTHA SUHAS
732.	2012B4A4517G	VARUN CHOPRA
733.	2012B4A4522G	S CHETAK
734.	2012B4A4573G	BHAGAT KEWLANI
735.	2012B4A4588G	DEVANSH SHRIVASTAVA
736.	2012B4A4618G	SHAH MANAN KETAN
737.	2012B4A4713G	SRUJAN JAYATI
738.	2012B4A4726G	SHREYAS RAJAGOPAL
739.	2012B4A4745G	PRIYANUJ DEKA
740.	2012B4A7363G	BALAJI AKHIL
741.	2012B4A7420G	HEMANSHU SETHI
742.	2012B4A7421G	SHREYASH OMNARAYAN MOHATTA
743.	2012B4A7497G	ARSHPREET SINGH
744.	2012B4A7524G	MOHAK CHADHA
745.	2012B4A7571G	YASH SHIRISH KASTURE
746.	2012B4A7616G	KANDREGULA S S PRIYANKA
747.	2012B4A7709G	SURVE RUTUJA RAMESH
748.	2012B4A7714G	AYUSH PANDEY
749.	2012B4A7748G	KULKARNI SNEHA HEMANT
750.	2012B4A7756G	ABHISHEK SRIVASTAVA
751.	2012B4A8558G	T ABHIRAM REDDY
752.	2012B4A8607G	RIDIMA CHAMADIA
753.	2012B4A8608G	PRAKHAR TOSHNIWAL
754.	2012B4A8773G	ANIRUDH THUKRAL

755. 2012B5B4247G M ASHWIN KRISHNAN
756. 2013B4TS543G AHUJA JITEN AMAR

M.Sc.(Hons.) Physics

757. 2011B5A7496G SAJIDUR RAHMAN
758. 2011B5A8419G NIKHIL
759. 2012A3B5038G SAMYUKTA RAMNATH
760. 2012A3B5042G RISWADKAR AMEYA SHRIKRISHNA
761. 2012A4B5299G BINIWALE AKSHAY PARAG
762. 2012B5A1469G RANANAWARE SANTOSH RATNAKAR
763. 2012B5A1491G ANKUSH PAUL
764. 2012B5A1727G DEVDUTT SHARMA
765. 2012B5A3325G ACHINT KUMAR
766. 2012B5A3427G RADHIKA NIKAM
767. 2012B5A3486G KSHITIJ BEDEKAR
768. 2012B5A3514G N BITTU
769. 2012B5A4329G SAGNIK BHATTACHARYA
770. 2012B5A4493G DHANANJAY GUPTA
771. 2012B5A4533G PRANAV KUMAR GAUTAM
772. 2012B5A4548G SIDDHANT BAWEJA
773. 2012B5A4569G SWAMINATHAN P
774. 2012B5A4716G VIJIT MAITHEL
775. 2012B5A4717G MORE SANMIT MUKUND
776. 2012B5A7483G PRIYANKA M P
777. 2012B5A7530G KEVIN ABRAHAM
778. 2012B5A7546G ADITYA BHALLA
779. 2012B5A7560G R SRINATH
780. 2012B5A8276G SHREY PAREEK
781. 2012B5A8358G SAKET PRAMOD AGARWAL
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783. 2012B5A8419G SAVANT APOORVA AVADHOOT
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785. 2012B5A8492G NEERAV DAHIYA
786. 2012B5A8504G AGRAWAL AYUSH AJIT KUMAR
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788. 2012B5A8557G PRATIK KUMAR
789. 2012B5B4247G M ASHWIN KRISHNAN
790. 2013B5PS607G ISHITA MISHRA
791. 2013B5TS364G ROHIT H NAVARATHNA
792. 2013B5TS418G VARUN MATHUR