IITGN
ANNUAL REPORT
2017 - 2018

INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

ANNUAL REPORT 2017 - 2018

CONTENTS

VISION MISSION AND VALUES

CORE FEATURES

- A safe and peaceful environment
- Relevant and responsive to the changing needs of our students and the society
- Academic autonomy and flexibility
- Research Ambiance
- Nature of faculty and students:
  - Faculty recruiting norms are much higher than most of the academic institutes in India
  - Students are inducted strictly on a merit basis
- Sustainable and all-inclusive growth, including community outreach programmes
- Infrastructure: Liberal funding to the laboratory facilities and amenities to make them comparable to those best in the world
- Administration: Exclusive concern of IIT Gandhinagar, and handled internally
  - Director given adequate powers to manage most academic, administrative and financial issues (within the framework)
- Residential Campus:
  - Leads to closer academic and social interaction between students and faculty
  - Develops stronger community spirit and provides opportunity to learn from each other
  - Sustained academic ambiance resulting in higher creativity from everyone.

PRINCIPLES

- Lifelong commitment to learning
- Encouragement of merit
- Passion and motivation for work
- Professionalism
- Respect for law
- Concern for the improvement of the society
- Transparency in functioning of the Institute
- Dedication to the Institute

VALUES

- Meritocracy
- Unparalleled quality and excellence
- Honesty, Integrity, Sincerity and Devotion
- Trust and freedom with accountability
- Appreciation and celebration of creativity
- Willingness to try new ideas and make mistakes
- Social and Moral responsibility
- Respect for every individual, and diversity
- Co-operation, Collaboration and Team Work

MISSION

IIT Gandhinagar, as an institution for higher learning in science, technology and related fields, aspires to develop top-notch scientists, engineers, leaders and entrepreneurs to meet the needs of the society-now and in the future. Furthermore, in this land of Gandhiji, with his spirit of high work ethic and service to the society, IIT Gandhinagar seeks to undertake ground breaking research, and develop breakthrough products that will improve everyday lives of our communities.

GOALS

- To build and develop a world-class institution for creating and imparting knowledge at the undergraduate, post graduate and doctoral levels, contributing to the development of the nation and the humanity at large.
- To develop leaders with vision, creative thinking, social awareness and respect for our values.
- To foster excellence in teaching and research to make a global impact.
- To engage in path-breaking research that would influence national policies.
- To pursue sustainable technological solutions to societal problems.
- To focus on lean engineering solutions for sustainable development.
- To be the leader for academic and industrial collaborations in various disciplines, nationally and internationally.
- To create awareness of the true significance of learning and teaching.
- To enrich local schools and communities through value-added interactions.
- To encourage excellent language skills as part of the institutional culture.
- To prepare students not just for their first job, but their last job as well.

VISION

- To shape IIT Gandhinagar into an exciting place for learning, teaching and research.
- To establish a process of learning that is free, fulfilling and enjoyable experience.
- To provide an enabling environment to nurture critical and creative minds, and to propel them to greater heights of excellence in their pursuits.
- To create a vibrant atmosphere that breeds front runner innovators, scientists, engineers, entrepreneurs, academicians and thinkers of tomorrow.
- To provide opportunity for students to learn from wherever, however and whatever they choose to study.
- To make IIT Gandhinagar the preferred destination for future generations of students, staff and faculty.

FROM THE DIRECTOR'S DESK

Prof Sudhir K Jain
Director

IIT Gandhinagar stands on the cusp of completing its first decade since its founding in July 2008. What a momentous decade it has been!

Since inception, we set our ambition to become a world class Institution and emulated the best global practices in numerous aspects of Institutional development. As we prepare to enter our second decade, I am proud to report on the remarkable accomplishments of our young Institute to date.

IITGN is today among India's most globalized campuses. More than 40% of our undergraduate students receive study abroad opportunities, which is perhaps the highest in India and three times the average of U.S. universities. 80% of IITGN faculty have overseas degrees or post doc experience. 15% of the faculty are visiting faculty from India and abroad. We have exchanges with institutions across all continents, such as California Institute of Technology, Duke University, The New School, Texas A&M and SUNY Buffalo in USA; University of Saskatchewan, Canada; Japan Advanced Institute of Science & Technology; ISCTE University Institute of Lisbon, Portugal, etc.

We have introduced a cutting-edge curriculum, informed by the latest pedagogical practices, emphasizing project-oriented learning, the humanities and social sciences, and core requirements in the life sciences, design and innovation. Our transformative 5-week immersion Foundation Program for incoming freshmen, focused on creativity, leadership & communication, ethics, social awareness, and physical fitness, has been widely lauded and increasingly emulated.

We strive to empower our students to pursue their passions by providing flexibility in the curriculum and exciting co-curricular opportunities. Our academic programs offer students unmatched choices, options of dual majors, minors, honors, course flexibility, as well as co-curricular opportunities, such as Tinkerer Lab, Makers Space, Innovation and Entrepreneurship Centre, etc. We have implemented student participation in governance structures in all aspects of Institute affairs, including academic and student life and discipline.

This year 96 students participated in our novel six-week summer Explorer Fellowship, under which they discover India's incredible cultural diversity by travelling to a minimum of six states (at least one each on North, South and Northeast) on a shoestring budget of just Rs 900/day for travel, accommodation, food and other living expenses.

We have succeeded in assembling an exceptionally diverse and talented community. Our students represent 28 states/union territories and 5 countries. 34% of graduate students

and 20% of faculty are female. 15% of faculty are visiting faculty from India and abroad; 6% of regular and contractual faculty are international. Our faculty includes 6 Ramanujan Fellows, 2 Ramalingaswami Fellows, and 9 Inspire Fellows.

IITGN is also mindful of its social obligations, which have always been at the core of its mission. We have implemented both formal and informal outreach initiatives. Our construction contracts mandate humane housing, safety commitments and health insurance for workers. We offer financial assistance for medical emergencies and educational support for children of contract workers. IITGN students run an educational program Nyasa for construction worker's children. IITGN's NEEV program offers entrepreneurship, and business and vocational skills training courses at the grassroots.

The Center for Creative Learning at IIT Gandhinagar has collectively reached out to over 30,000 students across 3,500 schools, developed hundreds of STEM-oriented activities and demonstrations and conducted over 50 workshops.

IITGN has been singularly successful in fundraising, notwithstanding the fact that it lacks an alumni base, which is the foundation on which most development activity at educational institutions rests. We have leveraged our exciting and novel programs with innovators and well-wishers around the world to build a fundraising scale that matches many older IITs. As of March 2018 we have received about Rs 35 crores in donor contributions. Nearly 23% of IITGN's annual budget comes from R&D and endowment income.

Even though our alumni are still in their early stages of their professional careers, we are especially proud that 20% of them already contribute regularly and 50% have contributed at least once to IITGN, which exceeds the participation rates of some of the world's most prestigious institutions. It is a tribute to the affection with which they hold the institution and the value they place on their experience here.

The IITGN campus, India's first 5 star GRIHA-LD rated in the country, was dedicated to the nation by Prime Minister Narendra Modi in October 2017.

IITGN has developed a lean administrative structure to keep us nimble enough to leverage exciting opportunities and promote innovations. We built and moved to our new campus within three years of the allocation of land. We have an active research park with several premiere corporate clients, including the BBC, GUVNL, WIN Foundation, E-Infochips, etc. An additional 200,000 sq ft of new space for the park is presently under construction.

As we consolidate our experiences from our eventful decade, we are now crafting a detailed vision for the next ten years. Our narrative has been that of innovation and disruption, and we expect that the lessons we picked up along the way will fuel and inform the next phase of our growth. IITGN is building the next generation of movers and thinkers. Our alumni are blazing new paths in entrepreneurship and research.

We are excited about the future of IIT Gandhinagar, and we look forward to your joining the journey in the decades ahead.

ACADEMICS

PROGRAMMES OFFERED

BTECH

Chemical Engineering | Civil Engineering | Computer Science and Engineering | Electrical Engineering | Materials Science and Engineering | Mechanical Engineering

BTECH AND MTECH DUAL DEGREE

Chemical Engineering | Civil Engineering | Computer Science and Engineering | Electrical Engineering | Materials Science and Engineering | Mechanical Engineering

MTECH / PGDIIT

Biological Engineering | Chemical Engineering | Civil Engineering | Computer Science and Engineering | Earth System Science | Electrical Engineering | Materials Science and Engineering | Mechanical Engineering

MSc

Chemistry | Cognitive Science | Mathematics | Physics

MA

Society and Culture

PHD

Biological Engineering | Chemical Engineering | Chemistry Civil Engineering | Cognitive Science | Computer Science and Engineering | Earth Sciences | Electrical Engineering Humanities & Social Sciences | Materials Science and Engineering | Mathematics | Mechanical Engineering | Physics

CENTRES

ARCHAEOLOGICAL SCIENCES CENTRE

The Archaeological Sciences Centre (ASC) was constituted in December 2012 with the twin objective of establishing at IITGN state-of-the-art facilities to be used by the archaeological community at large and conducting its own research in scientific aspects of archaeology. It thus situates itself at the intersection of humanities and scientific disciplines.

DHOLAVIRA PROJECT

In collaboration with Archaeological Survey of India (ASI), the Centre has conducted multidisciplinary investigations at the famous Harappan site of Dholavira (Rann of Kutch). The progress was made on the following fronts:

- a detailed study of Dholavira ceramics by **Dr Vinod V**, former post-doctoral research fellow, was completed (barring revision and review by two experts)
- **Dr Ruman Banerjee**, post-doctoral research fellow, began work on the study of Dholavira's lithic material (mostly stone microblades)
- an earlier ground penetrating radar study of an unexcavated area of Dholavira, conducted by IITGN's civil engineering faculty and students in collaboration with the Centre, resulted in a paper published in Current Science in Feb 2018, following which the Centre recently submitted to ASI a proposal to jointly excavate a few test trenches so as to test the correctness of the study's predictions
- in collaboration with IITGN's earth sciences and civil engineering faculty, a proposal to investigate **Impact of sea level fluctuations, climate change or tectonic activity on the decline of the Harappan settlement of Dholavira, Kutch, India** was submitted to DST.

INTRAMURAL RESEARCH PROJECTS

Collaborations with IITGN's faculty and labs also took place in Earth Sciences (helping to design a research project by **Dr Ajit Singh** on the Markanda Valley), Electrical Engineering (for a research proposal on 3D laser scanning, with potential application to the fingerprinting of antiquities), Materials Science (collaborating in the setting up of equipment such as ICPMS, which has important archaeological applications).

EXTRAMURAL RESEARCH PROJECTS

Preliminary explorations are on for collaborative research projects with Deccan College, Pune (for a microscopic study of microwear of ancient teeth) and MS University, Baroda (for an XRF study of glazed ware sherds from Jammu).

EVENTS

- A lecture series by **Prof Lynn Meskell**, Professor of Anthropology and Director of the Archaeology Centre, Stanford University and **Prof Himanshu Prabha Ray**, former Professor at JNU, on **Mobilizing the materiality of heritage: India and the World**, Aug 8–14, 2017
- Lecture by **Prof Gwen Robbins**, Professor of Anthropology at Appalachian State University and eminent bioarchaeologist, on **Climate change, health, and the biocultural experience of resilience in the Indus Age of South Asia**, Sep 15, 2017
- **Shri Prakash Javadekar**, the Minister of Human Resource Development visited IITGN and, interacted with the faculty of Archaeological Sciences Centre and browsed through a poster exhibition. During a TV interview at the Centre, he expressed his happiness at IITGN's promotion of Archaeological Sciences, Oct 7, 2017
- The Centre hosted an international conference, **Dialogue of Civilizations**, co-organised by ASI and National Geographic, with a galaxy of archaeologists from six countries including India, Oct 10-11, 2017
- **Dr Yann-Pierre Montelle** of New Zealand, delivered three fascinating lectures on human evolution and rock art, Jan 22-24, 2018

ASC FACULTY

The Centre's faculty consists of **Prof V N Prabhakar**, Superintending Archaeologist at ASI; **Prof Alok Kanungo**, Assistant Research Professor; **Dr R S Bisht**, former Joint Director General of ASI; **Prof Michel Danino**, coordinator for the Centre; and **Dr Ruman Banerjee**, post-doctoral research fellow. Three new applications have been favourably considered and are at different stages of processing.

Prof Michel Danino is the coordinator and **Prof S P Mehrotra** is the co-coordinator of the Centre.

CENTRE FOR BIOMEDICAL ENGINEERING

The Centre for Biomedical Engineering at IIT Gandhinagar is focused on carrying out cutting-edge research in various areas of biomedical engineering. The Centre has an explicit mission to produce research that is of social relevance to India, and by extension, across the world. The main objectives of this Centre are:

- research and development in biomedical engineering and healthcare technologies
- developing low-cost technologies related to health care to help people in rural areas
- collaborating with foreign universities and prominent national and international institutes to conduct research in three major focus areas

Research activities at the Centre has three main areas of focus as follows:

- **Diagnostic/Therapeutic Tools and Techniques**: developing novel methods to detect and treat diseases. The tools and techniques currently being developed use optical sensors, microbubble engineering, computational design, dye based assays, therapeutic peptides and many others
- **Automated Rehabilitation and Prosthetic Techniques**: robotics and virtual environments to provide newer, more efficient and more intuitive techniques for application by physiotherapists, neurologists and surgeons
- **Public Health Techniques**: developing tools and techniques to prevent disease and promote health in the community

Research projects carried out under the aegis of the Centre fall under three broad categories as follows:

DIAGNOSTIC/THERAPEUTIC TOOLS AND TECHNIQUES

Low cost health monitoring device for elderly to measure pulse rate, blood pressure and anemia in the rural setting; cognitive biomarkers for neurodegenerative disorders and gene markers based diagnosis for antimicrobial resistance profiling; microbubble engineering for imaging and drug delivery applications; precipitation and stabilization drug nanoparticles in aqueous suspensions; tunable diode laser spectroscopy based technique to monitor the growth of H-pylori bacteria; reusable nanobiocatalysts for detection of pesticides and herbicides; gaze-based bedside screening platform for neurological disorders such as stroke

AUTOMATED REHABILITATION AND PROSTHETIC TECHNIQUES

Vision-based control low-cost techniques for prosthetic arm for disabled; physiology-sensitive virtual reality based rehabilitation technology for stroke patients; assistive technologies such as brain computer interfaces using physiological tools such as eye-tracking and electroencephalography; smart walking aid stick for parkinson patient; robot-aided rehabilitation low cost tools for individuals with neurological disorders

PUBLIC HEALTH TECHNIQUES

Development of cardiovascular disease and diabetes risk assessment model for diverse ethnic Indian population; study on the spread of dengue in Ahmedabad and models; household survey and geo-spatial mapping of social networks and well-being among older persons in Ahmedabad; AGPS based study on consumption, mobility and life-stage among older Indians, Ahmedabad city

BIOMEDICAL CENTRE REVIEW MEETING

A review meeting of the Centre was held on Sep 6, 2017. All the members of the Centre made 10-min presentations and the progress of every activity was reviewed. Officials from the Government of Gujarat visited the Centre on Mar 16, 2018 and interacted with faculty affiliated with the Centre.

Prof Uttama Lahiri is the coordinator and **Prof Sivapriya Kirubakaran** is the co-coordinator of the Centre.

CENTRE FOR CREATIVE LEARNING (CCL)

The Board of Governors approved a motion to upgrade and rename the Creative Learning Initiative (CLI) as a Centre and renamed it as Centre for Creative Learning (CCL). The CCL's vision is to make engineering, science and mathematics a hands-on and joyous experience. The Centre aims to provide a space and environment where learning by making will lead to conceptual understanding. The goal is to design engaging hands-on content that can nurture inherent creativity and to improve the classroom experience by devising appropriate demonstrations and projects.

The following are the highlights of the year 2017-18:

- the CCL conducted workshops for 1500+ teachers who designed more than 200 activities, exhibits, models and toys such as, Enigma machine, Chebyshev mechanism walking machine, Fixed pointing chariot, Platonic solids, Archimedean solids, Stellations of Icosahedra etc
- the CCL's joint work with AMC called Project Spark culminated in a Grand Science Day on Feb 28, 2018, where 3000 teachers and children made 1100 live working models of math and science at Navrangpura Stadium in Ahmedabad Limca Record
- worked with 25000 students as part of our weekly workshops with municipal schools; 500 master teachers of Kendriya Vidyalaya Sangathan (KVS) from about as many schools; 600 teachers of GCERT, 306 teachers of Ahmedabad Municipal Corporation (AMC); 200 Assistant Professors of engineering colleges as part of TEQIP
- setup 4 science/math centres in Jamnagar, Mundgod,

Hunsur, Gaden, Dharamshala
- made more than 50 short films for KVS and about 60 videos that are available on the Youtube channel
- 5 MSc students completed their masters project at the CCL

The CCL worked with several organisations in the area of science and mathematics communication. The following are the areas that CCL have worked in:
- designing innovative exhibits
- conducting hands-on workshops for school teachers and engineering college teachers
- science and mathematics educational camps for students and children
- making short films for communicating innovations in STEM and popular science
- taking courses for college students focussing on hands-on math, structures and innovation
- setup of community/in-school tinkering spaces

Mr Manish Jain is the coordinator and **Mr Ravi Sinha** is the co-coordinator of the Centre.

CENTRE FOR COGNITIVE SCIENCE

The Centre for Cognitive Science at IIT Gandhinagar has aimed at fostering scholarship in the area of cognitive science through research and development activities. The Centre also aims take a leadership role in cognitive science within the country. The Centre has been successful so far and is well recognized for its unique teaching programmes and emphasis on interdisciplinary research.

The Centre continues to attract top-talent supported by 6 full-time faculty, 30 MSc and 15 PhD students. The innovative MSc and PhD programs that started in 2013 and 2010 respectively, prepares students for a career in cognitive science research or industry. Our alumni have successful transition to academic and industry careers after their training such as **Wellcome Trust Early career award**, **CSRI postdoctoral Fellowship**, faculty positions at Ahmedabad University, Ashoka University, fully-funded PhD studentships overseas, placements at Human centric systems division of TCS R&D, Siemens R&D etc.

The Centre is home to multiple state-of-the-art cognitive science research facilities. Research areas include philosophy of mind, perception, attention, learning and decision making, motor control and rehabilitation, and neuro-developmental disorders such as autism.

The Centre hosted the first edition of CogniTalks in Aug 2017, which provided a glimpse into the world of applications of cognitive science research in allied disciplines such as education, management, and design. The third edition of design and cognitive interventions workshop for **Large scale social issues** was held in Dec 2017. The Centre is enriched with interactions with eminent visitors from national and international academic fraternity from Harvard Center for Astrophysics; Max-planck Institute for Human Development; Yale School of Management; University of Lille, France; National Brain Research Center; IISc; Industrial Design Center, IIT Bombay. The academic partnerships with other universities have been primarily been in the form of student exchanges and visits by faculty from ISCTE, JAIST, University of Colorado etc. Visitors from Industry were from Tata Elxsi, and user experience design group of Siemens R&D. The IITGN Research Park hosts FinalMile, a cognitive science based consulting company.

Prof Krishna Miyapuram is the coordinator and **Prof Pratik Mutha** is the co-coordinator of the Centre.

DESIGN AND INNOVATION CENTRE (DIC)

The Design and Innovation Centre (DIC) promotes collaborative projects, research and educational initiatives on design and innovation. The DIC also nurtures student and faculty initiatives to develop innovative products and solutions through curricular and extra-curricular projects, such as talks, seminars, symposium and workshops. The institute has introduced a compulsory design course for all undergraduates in the second year.

The DIC fosters a multidisciplinary approach and supports innovative projects and collaborates with globally acclaimed institutions. The main focus area of the Centre is to provide design oriented research in the areas of biomedical innovations, fire safety, sustainable social innovations, ecological design, frugal engineering, and design for a billion. The DIC is designing a body weight support system for the Centre for Biomedical Engineering and a casing for aerosol fire extinguisher for the Centre for Safety Engineering. The DIC in collaboration with **Prof Pranab Mohapatra** and **Prof Vimal Mishra** has received a project funding from UNICEF to design a child friendly hand wash system for schools. The DIC organised an international workshop in collaboration with the Japan Advanced Institute of Science and Technology (JAIST). The focus of the workshop was to derive a sustainable solution for traffic and pedestrian safety for Ahmedabad, waste management and primary education. A team of seven students with three professors visited IIT Gandhinagar during Dec 6-8, 2017. An international workshop on **Design for a Billion** was also organised by the DIC during Jan 8-19, 2018. A team of twenty eight students and two faculty members from The New School, New York, USA participated in the workshop. The 10-day workshop helped students to build innovative designs to solve real-life problems in rural and semi-urban areas related to transportation, waste management, education system, village ecosystem and water management.

The DIC supported the mechanical engineering discipline in organising an outreach workshop for primary school students from the Basan village. **Mr Franklin Kristi**, senior Design Associate at the Centre, presented a research paper focused on **Recycling and 3D printing of used plastic syringes to produce bone cast** at Design4Health Conference, Australia on Dec 5, 2017. The DIC supports the Tinkerer's Lab (TL) which is a technical facility open to IITGN community. The TL encourages students to start tinkering and explore creative ideas. The lab is equipped with electrical and mechanical workstations with facilities like laser cutting, 3D printing, fabrication, etc. The DIC organised workshops on 3D printing, laser engraving and cutting, and nature-inspired designs with laser using the TL facilities. The DIC offers in-house design services including development of promotional videos, posters, flyers, brochures, reports, conference materials, book covers, mobile app design, etc.

Prof Vineet Vashista is the coordinator and **Prof Nithin George** is the co-coordinator of the Centre.

CENTRE FOR SUSTAINABLE DEVELOPMENT

The main objectives of Centre for Sustainable Development (CSD) at IIT Gandhinagar are:

- to enable the implementation, testing and validation of laboratory research in the field to help alleviate the so-called last-mile problem
- to strengthen and complement sustainability-related research and development activities already being undertaken by various faculty members and students of the institute
- to positively impact the immediate neighbourhood and community in the immediate future in terms of sustainable living and development
- to serve as a think-tank for local, regional and national sustainable development. The CSD strives to identify sustainability related challenges that have a high societal importance, conduct high-quality research on them, and provide cost-effective sustainable solutions through its strong outreach and technology-transfer programs. The focus areas that CSD is primarily looking at are: water, pollution, waste management, energy

CSD FELLOWSHIPS

This year CSD made a call for applications for two initiatives, namely, CSD student-led projects and CSD Young Alumni Fellowships. These initiatives will help students to connect the ongoing and new research aligned with the themes of environment and sustainability, and encourage them to take up topics that are connected to environmental and society at large. Through the Alumni Fellowships the CSD aims to reach out to the wider IITGN community to engage its alumni and facilitate research on sustainable development.

CSD NATURE PHOTO CONTEST AND EXHIBITION

CSD successfully organised a Nature Photo contest and exhibition for the IITGN family on Mar 15, 2018. The contest was open to students, faculty, project staff and

participants were allowed to capture nature-based images within the campus using DSLR and non-DSLR. There was an enthusiastic participation with 83 photo entries. The best photos were given cash prizes.

CENTRE FOR SAFETY ENGINEERING

The Centre for Safety Engineering (CSE) of IITGN pursues high-impact research and quality education in the field of safety. The CSE is committed to promoting a culture of safety and is mainly focused on fire safety, earthquake safety, and process safety. The main objectives of the Centre are:

- undertake research and consultancy projects to ensure safe and accident-free society
- teach courses on safety
- disseminate knowledge related to safety through conferences, workshops/symposia to enable safety professionals to keep abreast of current trends
- training staff and students on safe working practices in all aspects of IITGN's operations such as labs and event organisation

In this academic year, the CSE continued its research and development program on fire safety of combustible façade systems with Underwriters Laboratories in the full-scale G+2 storey test structure. Two full-scale fire tests were conducted. The first was focused on assessing the fire spread behaviour of buildings with polymeric wall insulation along with metal clad panels used as curtain wall. A notable fire took place in 2017 in a building with such characteristics and this test was aimed to replicate the fire scenario to understand the severity of such fires. The second test addressed the importance of perimeter fire barriers used in building enclosures along with fire stopping provisions in natural ducts such as the ones used for pipes and conduits.

The CSE also continued its efforts towards development of low-cost and environmentally-friendly aerosol extinguisher under the **Uchhatar Avishkar Yojana** jointly funded by Ministry of Human Resource Development (MHRD) and Shah Bhogilal & Jethilal Brothers, Ahmedabad, Gujarat. The CSE has developed a working prototype under this project that is undergoing further refinements. Once rigorously tested in laboratory conditions, the prototype will be converted to a commercial product by the industry partner. Through this project, the CSE also procured and commissioned a 100 kW cone calorimeter.

Prof Chinmay Ghoroi is the coordinator and **Prof Gaurav Srivastava** is the co-coordinator of the Centre.

MAJOR DEVELOPMENTS

DEDICATION OF THE CAMPUS TO THE NATION

The Prime Minister of India, **Shri Narendra Modi** visited the institute on Oct 7, 2017 and dedicated the campus to the nation. He also launched the Pradhan Mantri Gramin Digital Saksharta Abhiyan (PMGDSA) from the institute. Present on the occasion were Chief Minister of Gujarat **Shri Vijaybhai Rupani**, Union Minister of Human Resource Development **Shri Prakash Javadekar**, Union Minister of Electronics & IT and Law & Justice **Shri Ravi Shankar Prasad** and other dignitaries.

VISIT TO PORTUGAL

IIT Gandhinagar (along with IIT Roorkee and IIT Madras) signed an MoU with the Portuguese Foundation for Science and Technology for academic and research cooperation with the Portuguese universities and the MoUs were exchanged in presence of the two Prime Ministers on June 26, 2017. **Prof Sudhir K Jain** and **Prof Jaison Manjaly** represented the Institute. They also visited a number of Portuguese universities, including a visit on June 23, 2017 by Prof Jain to ISCTE-IUL Lisbon. The Institute has built a vibrant partnership with ISCTE-IUL over the years and it was an opportunity for him to meet five IITGN students who were undergoing summer research internships there and the four students of ISCTE-IUL who were scheduled to visit IITGN for the same. The Rector (President) **Luis Reto**, Vice Rector **Nuno Guimaraes**, and **Prof Rosa Maria Perez** also interacted with the students.

JAPAN FINANCE MINISTER VISIT

Japanese State Minister of Finance **Mr Taku Otsuka** visited IITGN on May 24, 2017. The minister along with his official team of 17 delegates, met the faculty and the students and visited the research facilities. This visit is an important step towards building stronger partnerships with Japanese academia and industry.

FIRE ENGINEERING LABORATORY

The William Henry Merrill Fire Engineering Laboratory was inaugurated by **Prof Sudhir K Jain**, Director, IITGN and **Mr Suresh Sugavanam**, VP & MD, Underwriters Laboratories South Asia on Dec 7, 2017. The laboratory reinforces the strong commitment of IITGN and Underwriters Laboratories towards enhancing fire safety within and outside India. The Centre for Safety Engineering conducted its fifth, full-scale fire test on a three-storey building with glass facade on the occasion.

INAUGURATION OF CENTRE OF WATER & SANITATION

WIN Centre of Water & Sanitation and **WIN Centre for Maternal & Child Health** were inaugurated on Jan 30, 2018 at IITGN's Research Park and at Indian Institute of Public Health (IIPH) Gandhinagar, respectively. The two Centres are supported by US-based WHEELS Global Foundation through its WHEELS India Niswarth (WIN) Foundation. Mr Chirag Patel, US-based philanthropist and co-CEO & chairman, Amneal Pharmaceuticals Pvt Ltd and his family contributed substantial funds for the two Centres through these foundations. The Centre for Water & Sanitation aims to focus on developing new and cost-effective ways to treat water, reduce water contamination, and work to improve policies related to drinking water. It will work towards finding the most cost-effective methods to bring clean drinking water to rural communities. The Centre will not just provide solutions to critical problems of water and sanitation, but will also provide opportunities to our faculty and students to work on real-life problems.

SIGNIFICANT ACTIVITIES

BOARD OF GOVERNORS MEETING

In its 23rd meeting on Dec 20, 2017 the Board approved setting up of a Writing Studio as a service centre to hone the writing skills of students. The Board also approved a motion to upgrade and rename the Creative Learning Initiative (CLI) as the Centre for Creative Learning (CCL). The Board approved the establishment of four endowed Chairs in Sanskrit, Urdu, Classical Indian Music and Indian Performing Arts.

TINKERER'S LABORATORY INAUGURATED

A Tinkering Laboratory supported by the alumni of class-of-1975 from IIT Bombay, was inaugurated on Jan 13, 2018 by **Prof S P Sukhatme**, former Director of IIT Bombay. Students have open access to this facility on a 24x7 basis.

7TH ACADEMIC ADVISORY COUNCIL

The seventh annual **Academic Advisory Council** consisting of eminent academics from India and overseas met on Jan 12, 2018. The Council deliberated upon initiatives for strengthening teaching and learning processes in the institute, improving governance systems, identifying focus areas in research, and planning future academic facilities.

8TH LEADERSHIP CONCLAVE

The eighth annual **Leadership Conclave** was conducted on Jan 13, 2018. The event brought together eminent thinkers in the field of education from India and overseas, from industry, academia and the government. The participants discussed the Institute's short, medium and long-term strategic goals during the day-long event. The emphasis this year was on planning the 10-year anniversary of the institute, identifying ways to bring 'Learning by Doing' into the pedagogy, planning senior leadership roles, and effective utilization of philanthropic funds.

RESEARCH PARK & INCUBATION CENTRE

The Advisory Council meeting was held on Feb 16, 2018 for the Research Park and the Incubation Centre at IITGN under the chairmanship of Mr Kris Gopalakrishnan (co-founder of Infosys). A dinner for potential stakeholders in Research Park was organised on Mar 10, 2018 with **Mr Kris Gopalakrishnan** to promote the Research Park. The Research Park is currently hosting Gujarat Urja Vikas Nigam Limited (GUVNL); Final Mile Consultants Pvt Ltd; BBC World Services Pvt Ltd; Wheels India Niswarth Foundation (WIN); and Einfochips.

FOUNDATION PROGRAMME

From sports to treasure hunt, IITGN used an array of innovative methods to introduce its incoming batch of undergraduate students to a whole new world through the five-week Foundation Programme (Jul 24 - Aug 27, 2017). The activities included sessions on story telling, photography, sketching, music, painting, drawing, yoga, sports, heritage walk, theatre activities, street cleaning and tree-planting. Talks on leadership, gender sensitivity, ethics and value education were also organised to sensitize the students. The programme concluded with Eureka, a cultural evening organised by the freshers in which they showcased their talent to the rest of the IITGN community with performances of dance, drama, music, poetry recitation, and other cultural activities. The programme was coordinated by **Prof Krishna Kanti Dey, Prof Kaustubh Rane, Prof Manas Paliwal, Prof Manu Awasthi** and **Ms Poonam Mutha**.

6TH CONVOCATION CEREMONY

IIT Gandhinagar held its 6th convocation on Aug 5, 2017 in which 195 students were awarded degrees: 124 BTech, 47 MSc, 5 MA, 4 PGDIIT and 14 PhD. **Mr Adil Zainulbhai**, Chairman, Quality Council of India was the Chief Guest at the event. The Institute awarded medals and awards to recognize achievements in academics, innovation, social services, research, sports, leadership, arts, and culture. **Rishab Anand** was awarded the President's Gold Medal for BTech, **Kamal Tiwari** was awarded the President's Gold Medal for MTech, and **Sonali Abhay Parekh** received the President's Gold Medal for MSc and MA batches. The Director's Gold Medal for BTech went to **Rishabh Jain** for his outstanding academic performance.

EXCHANGE WITH THE NEW SCHOOL, NEW YORK

Under an exchange arrangement, IITGN hosted 28 students and two faculty members from The New School (TNS), New York during Jan 8–19, 2018 for a workshop on **Design for a Billion**. The TNS students worked to find solutions for problems related to waste management, village ecosystem, education system, water management, and bus transportation. **Prof Vineet Vashista** coordinated the workshop.

IITGN EXPLORER FELLOWSHIP 2017

A total of 97 IITGN students received the IITGN Explorer Fellowship for the summer of 2017. The students formed 31 teams and travelled to different states in India over a period of six weeks to explore the amazing cultural and geographic diversity of the country. The students are required to travel by sleeper class in trains or by state government buses and stay in low-cost accommodation. They are also expected to maintain a diary or blog during their travels.

JEE OPEN HOUSE

IITGN hosted two JEE Open House events on June 3, 2017 and June 17, 2017 with the aim of offering guidance to students who appeared for Joint Entrance Examination (JEE) Advanced 2017. The Open House had several sessions with IITGN faculty, students and alumni. A campus tour was also organised for the students and their parents.

UNDERGRADUATE RESEARCH CONCLAVE

The second Undergraduate Research Conclave (UGRC) was held on Sep 2, 2017. 20 undergraduate students from IITGN participated, who did their summer internships at prestigious institutions within or outside the country (including Caltech, Duke and ISRO). The Conclave was organised by **Prof Pedro Pombo**, **Prof Manish Kumar**, **Prof Manoj Gupta**, **Prof Vineet Vashista**. The Best Poster awards were given to **Chinmay Shirpurkar** and **Aparna Aketi**.

SUMMER RESEARCH INTERNSHIP PROGRAMME 2017 (SRIP 2017)

The program offers opportunity to students from within IITGN and outside to carry out research during the summer under the mentorship of IITGN faculty. This year 82 students from institutes across the country and 40 from IITGN participated in the SRIP. Around 70 research projects were offered by over 40 faculty members this year.

WORLD ENVIRONMENT DAY CELEBRATION

The campus community celebrated **World Environment Day** on June 5, 2017. Environmental awareness and love for nature was the motto for the day. The community participated in generating awareness for the environment through a drawing competition, stalls, books, sharing information about disposal of trash, and use of products generated from recycled waste.

SUMMER INSTITUTE ON SOCIAL JUSTICE PRACTICE AND RESEARCH

IITGN and the University of Saskatchewan (UofS), Canada organised Summer Institute on Social Justice: Practice and Research during June 19-30, 2017. A group of nine faculty members from UofS and one from the University of Ottawa, Canada along with 10 IITGN faculty members and students offered the sessions of various topic on gender, health, and social science research methods. A total of 38 participants from 28 institutes across the country took part in the programme. The programme keynote speeches were delivered by Chief Executive Officer of Aga Khan Rural Support Programme, **Mr Apoorva Oza**; and Director and Professor of Economics at the Center for Development Alternatives in Chennai, **Prof Indira Hirway. Prof Ambika Aiyadurai**, IITGN and **Prof Raj Srinivasan**, UoS were the coordinators of the Summer Institute.

IIT GANDHINAGAR GRAM FELLOWSHIP

IIT Gandhinagar has established the **Gram Fellowship** to encourage students to immerse themselves in rural settings and appreciate the challenges faced by rural India. In the course of the fellowship, the students engage with the community to understand their concerns, welfare, values and needs. It is expected to be a learning experience rather than a solution - seeking project. The intent is to experience the life of common people who may not have access to sufficient resources and to think beyond technological interventions to address the concerns of the community.

ENTREPRENEURSHIP DEVELOPMENT WORKSHOP

Entrepreneurship Development Workshop was organised during Sep 1-5, 2017 by NEEV IITGN for women from Ramapir No Tekro. The aim was to encourage women to generate their livelihood by starting a business of their own. To that end, a closely contested Business Plan competition was also organised. The training was given by **Mr B R Venkatesh** and **Mr Amit Mere** from MBLTA, Mumbai.

ATM SCHOOL ON ADVANCED LINEAR ALGEBRA

An Advanced Training in Mathematics (ATM) school on Advanced Linear Algebra was organised at IITGN during Jul 10-22, 2017, in association with the National Center for Mathematics (NCM). This workshop covered topics in Linear Algebra that are beyond the scope of a standard MSc curriculum. The lectures were given by **Prof K N Raghavan**, Institute of Mathematical Sciences (IMSc Chennai), **Prof Indranath Sengupta**, IITGN, **Prof J K Verma**, IIT Bombay, **Prof Ananthanarayan Hariharan**, IIT Bombay, **Prof Ritumoni Sharma**, IIT Delhi and **Prof Neeldhara Misra**, IITGN.

ACM INDIA SUMMER SCHOOL ON GRAPH THEORY AND GRAPH ALGORITHM

The discipline of Computer Science and Engineering at IITGN, in partnership with ACM India and support from DRDO, organised a three-week summer school on Graph

Theory and Graph Algorithms during June 26-July 15, 2017. The objective was to provide a forum for learning and discussing several foundational aspects of structural graph theory, interleaved with perspectives from algorithmic graph theory. The school had over 50 participants from all over the country. The school was organised by **Prof Anirban Dasgupta** and **Prof Neeldhara Misra**.

INDIAN PROGRAMMING COMMUNITY CAMP

The Discipline of Computer Science and Engineering at IITGN, in partnership with CodeChef and the Indian Programming Community (IPC) organised a programming camp on Jul 3-9, 2017. The program featured talks from some of the most accomplished names in the world of competitive programming. The camp was attended by 30 students from schools and colleges across India. The school was organised by **Prof Neeldhara Misra**.

OATH CEREMONY

IITGN took Sankalp on Aug 9, 2017 to free India from Poverty, Terrorism, Regionalism, Corruption and Non-hygiene by 2022. The evening was observed to mark the beginning of the celebration of 70th year of Indian Independence and 75th year of the Quit India Movement.

NYASA SUMMER CAMP

The third edition of the Nyasa summer camp was organised during May 25 - June 25, 2017 for the children of government schools in Palaj and Basan villages. The four-week camp consisted of interesting sessions like paper art, drawing, hygiene, toys from trash, plantation, dance etc with a daily class on basic English skills.

INAUGURATION OF BUILDING 9

Building 9, the temporary location of Research Park and Incubation Centre was inaugurated by **Shri Abhai Sinha**, Director General, Central Public Works Department (CPWD) on Nov 1, 2017. In time, a separate building will be constructed for the Research Park which will also house the Incubation Centre.

BBC WORLD SERVICE

BBC World Service India Pvt Ltd has set up its media office in the Research Park. BBC will work with IITGN students and faculty members in both technological and content-based research, including joint guidance of projects of mutual interest.

COLLABORATION WITH DESHPANDE FOUNDATION

The institute signed an Expression of Interest (EOI) with Deshpande Foundation on Nov 3, 2017. The collaboration will promote engagement of IITGN students in social sectors as they will have an opportunity to work with Deshpande Foundation through internships and fellowships.

HOUSING FOR CONSTRUCTION WORKERS

IITGN has been working closely with CPWD to ensure the construction workers of our various projects have proper housing with basic facilities. The housing colony for workers of **M/s Shanti Constructions** was inaugurated on Jan 23, 2018. It has toilets, wash basins & bathing rooms, and there is arrangement for sewage disposal through appropriate septic tanks.

ORGANIC FARM

IITGN's organic farm invited the campus residents for a village style get-together and lunch on Jan 21, 2018. Residents enjoyed the healthy dose of vegetables grown in the farm. The food was prepared with warmth and care by the organic farm employees from freshly-picked farm vegetables.

WRITING STUDIO

The much awaited Writing Studio and its website (initiatives.iitgn.ac.in/ writingstudio/wp/) were inaugurated on Feb 14, 2018. The objective of the Writing Studio is to assist students to learn the immersive craft of writing as a central component of human communication. This is a service centre meant for conducting activities related to writing skills on a regular basis and for providing one-on-one support to the students on their specific needs

INDIA KI KHOJ

The sixth edition of **India Ki Khoj** was organised during Dec 11-18, 2017. Six students from California Institute of Technology (CalTech), seven from JAIST and 17 from IITGN participated in the eight-day programme. The event featured lectures on diverse topics, field visits to heritage sites in and around the city of Ahmedabad and cultural performances. The lectures focused on culture, economics, art, music and sociology. The themes central to discussions ranged from Indian architectural heritage and museology to the Harappan civilisation and the uniqueness of Indian Islam.

BOOK LAUNCH

SOLAR POWER IN INDIA: PAST, PRESENT AND 2022

A book on Solar Power in India: Past, Present and 2022 was launched by SRIP Solar study team at IITGN on July 14, 2017. **Prof Juzer M Vasi**, IIT Bombay was the distinguished visitor on this occasion. The book was released by **Prof Sudhir K Jain**, Director IITGN and was presented to Prof Vasi. Responding to the needs of the nation for solar energy and driven by the national solar mission target of 100 GW installed solar power by 2022, students worked on this project during summer break as their contribution to this national endeavor. A team of 8 Students including 2 students from KIIT Bhubaneswar and University of Jaffna (Sri Lanka) were guided by **Prof K Chelvakumar**.

NON-RELATIVISTIC QUANTUM MECHANICS

The launch of book by **Prof Ravinder R Puri** on Non-Relativistic Quantum Mechanics was held on Aug 8, 2017. The chief guests on this occasion were **Prof Dipan Ghosh**, Professor Emeritus, IIT Bombay and **Prof Sudhir K Jain**, Director, IITGN.

CAMPUS ON THE SABARMATI PUBLICATION

The development of IITGN's campus has provided plenty of opportunity for various innovations and experiments, and in turn has been a unique learning process. A publication series titled **Campus on the Sabarmati** series highlights some of these experiences and the various thought processes in the development of the campus.

IITGN has published a total of five booklets in this series thus far, with several more in the pipeline. Out of these five, **Confined Masonry** and **Selection Process for Architectural Consultants** were published in 2015-16. The second booklet gives a detailed view of how the architectural consultants were selected along with their design entries. The next three booklets in this series are titled **Planning the Sustainable Campus**, **Academic Complex** and **Design of Housing for Faculty and Staff** and were all published in 2017-18.

The third booklet in the series, **Planning the Sustainable Campus**, provides details of the master planning process and its features. It describes the key features and the guiding principles laid down by the masterplan including the urban design controls, phasing of construction and green campus features. This masterplan led to IITGN campus being the first campus in the country to receive a **5-star GRIHA LD rating**.

The fourth booklet in this series titled **Academic Complex** describes the various considerations and design evolution of the academic area. It also highlights details of architectural features of the academic complex like gateway, central spine, tower of light, courts, landscape design and development with green architecture and environmental aspects. The academic complex won the first prize in **2016 HUDCO Design Awards** under the Green buildings category.

The booklet titled **Design of Housing for Faculty and Staff** provides an overview of how the modern city Gandhinagar and the historical city Ahmedabad provide the context for the architectural design of the housing complex. It also provides details of site layout, cluster housing, common spaces, external structures and landscape strategies.

ANNUAL PICNIC

The Institute's community looks forward to the annual picnic with eagerness. This year's annual picnic was organised on Feb 18, 2018 as a day-long outdoor activity at Gujarat Forest Research and Training Institute, Gandhinagar. The day was filled with fun, games, conversations, and bonding among members of the community. Several activities were conducted for all age groups and for all the members of staff and faculty of the institute.

COMMUNITY OUTREACH

• The Centre for Creative Learning organised a mammoth "Makers Fest" on Feb 28, 2018, with the Ahmedabad Municipal Corporation (AMC). A total of 2000 children and 300 teachers exhibited science and maths models at the Sardar Patel Stadium in front of an audience of close to 4000 people.

• Students of 6th, 7th and 8th grade from the Government Primary School in Basan village visited the campus on Mar 10, 2018 and built a simple low-cost hydraulic arm that moves with the help of syringes filled with colored water.

• The 3rd edition Sanjeevani - Health Mela and Medical camp was conducted on Jan 28, 2018 by the Nyasa Team at Basan village. Approximately 650 people attended the camp. Doctors and medical students from Indian Institute of Public Health (Gandhinagar), Maharaja Sayajirao University (Baroda) and Government of Gujarat along with volunteers from our student community were the key participants who made this camp a huge success.

CONFERENCES /WORKSHOPS/ SYMPOSIA/SEMINARS

Conferences, workshops, symposia and seminars on focus themes are vital academic activities that help stimulate discussions on different areas of importance. Many of these activities invite participation from other organisations and enhance the Institute's visibility to the outside world. The following activities were organised during 2017-18:

CONFERENCES

- The Chemistry discipline at IIT Gandhinagar and Indian Society of Radiation and Photochemical Sciences organised a one-day discussion meet on the theme **Radiation and Photochemistry**: **Fundamentals to Applications** on Aug 19, 2017. The conference largely focused on aspects of radiation and photochemistry attracted speakers from IIT Gandhinagar, Bhabha Atomic Research Center (BARC) and IIT Bombay and students from Gujarat Forensic Sciences University, Central University of Gujarat, Gujarat University and IIT Gandhinagar are the participants. The speakers were **Dr Devidas B Naik** (BARC), **Dr Anindya Dutta** (IIT Bombay), **Dr A C Bhasikuttan** (BARC), **Dr Saumya Khatua** (IIT Gandhinagar), **Dr H P Upadhyay** (BARC), **Dr Atanu Barik** (BARC), and a concluding presentation by **Dr Prasenjit Maity** (GFSU, Gandhinagar). Many students presented their work through poster presentations and their enthusiastically participation contributed immensely to the great success of this meet.
- The 4th International Conference on **Dialogue of Civilisation** was held in India during Oct 8-14, 2017. The conference was inaugurated in New Delhi and was hosted at IITGN during Oct 9-11, 2017. It was organised by **Prof Michel Danino** in collaboration with Archaeological Survey of India and National Geographic.
- An International Conference on **Exploring the History of Mathematics in India** was held at the institute during Dec 4-6, 2017. Conducted in collaboration with the Indian Society for History of Mathematics, it hosted several prominent scholars in the field from India and overseas. The conference was coordinated by **Prof Indranath Sengupta** and **Prof Michel Danino.**
- Discipline of Chemistry organised the 2nd consecutive National Conference on Chemistry (NConc-18) with a theme **Materials in Chemistry and Biology** on Jan 4-5, 2018. The conference hosted several eminent speakers from universities and industry. This conference also hosted several eminent, young and senior researchers. Eminent scientists **Prof Jayaraman**, IISc Bangalore, **Prof Swapan Pati**, JNCASR, **Prof Vishnu Kamath**, Bangalore University delivered plenary lectures. The conference aimed to foster industry academic relations and also brought in eminent speakers from industries like Biocon, Zydus, Jubilant Biosys, Intas Biopharma and Torrent Pharmaceuticals. This conference also provided an excellent platform for young investigators and students to showcase their research in the form of oral presentations and posters. The conference was partially supported by grant from SERB, Gujarat State Biotechnology Mission (GSBTM) and several other vendors of the institute. The conference was coordinated by **Prof Sivapriya Kirubakaran** and **Prof Sriram Kanvah** along with students and faculty of the discipline of Chemistry.

WORKSHOPS

- Karate workshop on **I am my own security** by **Mrs Rashmi Goyal**, Apr 8-9, 2017.
- Workshop on **Application of Mathematics** by **Prof Saleh Tanveer**, Mathematics, Ohio State University, USA**; Prof Sandeep Juneja**, TIFR, Mumbai; **Prof Chetan D Pahlajani**, Mathematics, IITGN; **Prof K Chelvakumar**, Mechanical Engineering, IITGN; **Prof Dinesh Garg**, Computer Science & Engineering, IITGN; **Prof Nitin Khanna**, Electrical Engineering, IITGN, May 16, 2017.
- Workshop on **Electrochemistry School** by **Mr Ritesh Vyas**, Metrohm India; **Dr Aditi Singhal**, Ahmedabad University; **Prof Arnab Dutta**, IITGN; **Prof Sudhanshu Sharma**, IITGN, Jul 24-25, 2017.
- The NVIDIA **Deep Learning Institute** (DLI) workshop by **Mr Bharat Sharma**, Senior Solutions Architect, Nvidia and **Mr Mukundhan Srinivasan**, Deep Learning Solutions Architect, NVIDIA, Jul 27, 2017.
- Workshop on **Bamboo furniture** by **Dr Supradip Das**, IIT Guwahati, Sep 15-17, 2017.
- **A National Geographic Society grant workshop** by **Dr Christopher Thornton** and **Prof Monica L Smith**, National Geographic Society, Oct 11, 2017.
- Nurture and Empower Entrepreneurial Ventures (NEEV) - the institute's community outreach programme - conducted a six-day Entrepreneurship Development Workshop from Oct 30 - Nov 4, 2017 at IITGN campus. The workshop was attended by third-year BBA students of Gujarat Law Society (GLS) University, Ahmedabad
- Workshop on **Design for a billion** by **Mr Franklin Kristi**, IITGN, Jan 8-19, 2018.
- Workshop on **Using web of science citation database and endNote reference management system** by **Dr Subhasree Nag**, Solution consultant, Scientific Research Division, Clarivate Analytics, Mar 17, 2018.
- Workshop on **Effective use of SCOPUS citation database & MENDELEY - Reference Management Software** by **Dr Shubhra Dutta**, Elsevier publishers, Mar 24, 2018.
- Workshop on **Nature inspired designs with laser** by **Mr Franklin Kristi**, IITGN, Mar 28, 2018.

SEMINARS

- CSE seminar on **Finding small separators in linear time via tree-width reduction** by **Jayesh Choudhari**, IITGN, Apr 3, 2017.
- Panel discussion on **India and the idea of secularism** by **Prof Rita Kothari** and **Prof Michel Danino**, IITGN, Apr 12, 2017.
- CSE seminar series **Experiences and interesting problems from the ACM-ICPC regionals 2016** by **Akash Pallath**, **Chinmay Sonar** and **P R Vaidynathan**, IITGN, Apr 17, 2017.
- **Sufism in Sindh** by **Prof Rita Kothari**, IITGN, Apr 18, 2017.

- **Mathematics discipline seminar series** by **Prof Saleh Tanveer**, Mathematics, Ohio State University, May 15, 2017.
- Mathematics seminar series on **Variants of equidistribution in arithmetic progressions** by **Dr Akshaa Vatwani**, Postdoctoral fellow, University of Waterloo, Canada, Aug 10, 2017.
- **Design and cognitive interventions for large scale social concerns** in collaboration with Japan Advanced Institute of Technology (JAIST) by **Prof Krishna Prasad**, IITGN, Dec 6-8, 2017.
- **Memory storage systems** by **Prof Preeti Ranjan Panda**, IIT Delhi, **Prof R Govindarajan**, IISC, Bangalore, **Mr Vivek Seshadri**, Microsoft Research India, **Mr Saravanan Sethuraman**, IBM India, **Mr Manish Gupta**, NVIDIA, **Mr Arpit Joshi**, University of Edinburgh, **Prof Biswabandan Panda**, IIT Kanpur and **Prof Manu Awasthi**, IITGN, Dec 9-10, 2017.

SHORT COURSES

A variety of short courses are offered throughout the year to increase the choice the flexibility of course offerings, as well as to benefit from the expertise of visiting faculty and experts from varied backgrounds who visit the campus for short durations. The following short courses were delivered during 2017-18 by recognised experts in their respective fields.

- **Reading masculinity in literature and visual arts** by **Prof Niladri Chatterjee**, Professor, Department of English, University of Kalyani, West Bengal, Mar 1, Apr 1 & 2, 2017
- **Mahatma Gandhi** by **Dr Sandeep Pandey**, Visiting Professor, IITGN, Apr 28-30, 2017
- **Protein purification** by **Dr Ashok G**, Senior Scientist, GE Healthcare Life Sciences, May 1-2, 2017
- **Seismic analysis and design of confined masonry buildings** by **Prof Svetlana Brzev**, Visiting Professor, IITGN, May 15-22, 2017
- **Quantum transport phenomenon** by **Dr Sitangshu Bhattacharya** and **Dr Rekha Verma**, IIIT Allahabad, Uttar Pradesh, June 12-16, 2017
- **Space missions** by **Prof Ashok Joshi**, IIT Mumbai, July 8-9, 2017
- **Cells and biomaterials** by **Prof Ketul Popat**, Colorado State University, Aug 4-6, 2017
- **Introduction to public performance** by Mr Stefan Haves, Scholar-in-Residence, IITGN, Aug 8-13 & 18, 2017
- **Introduction to Neuropsychology** by **Prof Setu Havanur**, Aug 12-14, 2017
- **Point-cloud processing in environmental sciences** by **Prof Bodo Bookhagen**, Visiting Professor, IITGN, Aug 16-19, 2017
- **DEM analysis in Earth Sciences** by **Prof Bodo Bookhagen**, Visiting Professor, IITGN, Aug 23 - 26, 2017
- **Inversion-based feed forward control for precision tracking** by **Prof Santosh Devasia**, Professor, Mechanical Engineering, University of Washington, Seattle, Aug 28- Sep 1, 2017
- **Building early-stage startups and valuations** by **Mr B V Jagadeesh**, Managing Director, KAAJ Ventures, Oct 9-13, 2017
- **Scientific writing for beginners** by **Dr Maria João Amante**, Director, ISCTE Lisbon, Portugal, Oct 26-31, 2017
- **Scientific writing for research scholars** by **Dr Maria João Amante**, Director, ISCTE, Lisbon, Portugal, Oct 31 - Nov 7, 2017
- **Experimental economics**: **behavior and institutions** by **Prof Shyam Sunder**, James L Frank Professor of Accounting, Economics, and Finance, Yale School of Management, Dec 27, 2017 - Jan 7, 2018
- **Vehicle navigation**: **principles** & **practices** by **Prof Ashok Joshi**, Department of Aerospace Engineering, IIT Bombay, Dec 28-31, 2017
- **Cells and biomaterials: Part 2** by **Prof Ketul Popat**, Colorado State University, USA, Dec 28-31, 2017
- **Blockchain technology foundation and its commercial applications** by **Mr Kamalesh Dwivedi**, Chairman & Founder, ipLockchain, USA, Jan 15 - 26, 2018
- **Participatory rural appraisal– a tool for participatory social surveys and natural resource planning** by **Prof C N Pandey**, Visiting Professor, IITGN, Jan 19, 20 & 27, 2018, Feb 2, 3 & 9, 2018
- **Winter school on cognition and complexity** by **Prof Jorge Louçã**, ISCTE Lisbon University Institute, Lisboa, Portugal, Jan 22-28, 2018
- **Nonlinear control and applications** by **Prof Ravi Banavar**, IIT Bombay, **Prof Harish P M**, **Prof Vineet Vashista** and **Prof Babji Srinivasan**, IITGN, Jan 26-28, 2018
- **The science and art of photography** by **Prof Brian Barsky**, Professor Emeritus of Optometry, University of California, Berkeley, USA, Feb 8-9 & 12-13, 2018
- **Scientific writing for beginners** by **Dr Maria João Amante**, Director, Documentation & Information Services, ISCTE, Lisbon, Portugal, Feb 8-9 & 12-14, 2018
- **Scientific writing for research scholars** by **Dr Maria João Amante,** Director, Documentation & Information Services, ISCTE, Lisbon, Portugal**,** Feb 21-23 & 26-27, 2018
- **Design of concrete bridges** by **Prof Mahesh Tandon,** Managing Director, Tandon Consultants Pvt Ltd, Mar 9-10 & 16-17, 2018
- **Basic R usage in NGS analysis** by **Dr Prasoon Agarwal**, postdoctoral researcher, University of Manitoba, Canada, Mar 10-11, 2018
- **Terrain model from UAS data** by **Dr Pradeep K Srivastava,** CEPT University, Mar 26-29, 2018
- **Accounting**, **finance and business valuation for engineers** by **Mr Rajiv Bhatt**, Chartered Accountant, Mar 31-Apr 1, 2018

INVITED LECTURES

The following invited lectures were delivered by experts who were invited to the institute:

- **A new proof of the infinitude of primes** by **Dr Bibekananda Maji**, IITGN, Apr 3, 2017

- **Attitude tracking control for aerobatic helicopters: a geometric approach** by **Mr Nidhish Raj**, Apr 3, 2017
- **Fun with programming - competitive programming stories** by **Mr Anup Kalbalia**, Tech Lead at CodeChef, Apr 7, 2017
- **Emerging changes, challenges, opportunities for the world and for India** by **Mr Arvind Singhal**, Technopak Advisors Pvt Ltd, Apr 7, 2017
- **The complete professional in the 21st century: ten commandments** by **Prof Raj Chhabra**, IIT Kanpur, Apr 7, 2017
- **Competitive programming - what it involves and why it can make for an interesting hobby or a serious passion** by **Mr Anup Kalbalia**, a Tech Lead at codechef, Apr 7, 2017
- **Using NEGF formalism for quantum transport simulations** by **Dr Bhaskaran Muralidharan**, IIT Bombay, Apr 10, 2017
- **An adaptive multi-factor authentication (A-MFA) methodology** by **Prof Dipankar Dasgupta**, University of Memphis, USA, Apr 11, 2017
- **Computationally understanding human behavior from non-verbal cues** by **Prof Tanaya Guha**, IIT Kanpur, Apr 13, 2017
- **Innovation and societal relevance** by **Dr Dipankar**, Chief Scientist, TREE Labs Foundation, Apr 14, 2017
- **The coin exchange problem** by **Prof Indranath Sengupta**, Associate Professor, IITGN, Apr 21, 2017
- **Investigation of numerical viscosities and dissipation rates of second-order TVDMUSCL schemes for implicit large-eddy simulation and analytical investigation of thermoacoustic instabilities in premixed combustion systems** by **Dr Sarma L Rani**, University of Alabama, Huntsville, May 8-9, 2017
- **Intel Real Sense** by **Dr Achintya Bhowmik**, Intel Corporation, May 15 -16, 2017
- **Symmetry and conservation laws in quantum mechanics and band topology and interaction-driven topological transition** by **Dr Kush Saha**, Max Planck Institute for the Physics of Complex Systems, June 29, 2017
- **Introduction to string theory** by **Prof K P Yogendran**, IISER Tirupati, July 5, 2017
- **Colliding black holes: from supercomputers to LIGO to the universe** by **Dr Karan Jani**, Center for Relativistic Astrophysics, Georgia Tech, July 7, 2017
- **SciFinder database for academic research** by **Mr Prathamesh Kulkarni**, Sci-Edge Information/ Chemical Abstract Service, USA , Aug 4, 2017
- **Mobilizing the materiality of heritage: India and the world** by **Prof Lynn Meskell**, Director, Archaeology Centre, Stanford University and **Prof Himanshu Prabha Ray**, Jawaharlal Nehru University, Aug 8, 2017
- **Publishing your research in scholarly journals** by **Dr Sangeeta Mehta**, Elsevier Publisher (RELX India Pvt Ltd), Aug 11, 2017
- **Indian startup ecosystem: what's good & what's not** by **Mr Balaji Viswanathan**, CEO, Invento Robotics, Aug 14, 2017
- **Lost river in the NW Indo-Gangetic plains: testing river-culture hypothesis in the context of Harappan Civilization** by **Prof Rajiv Sinha**, IIT Kanpur, Aug 15, 2017
- **Nano-satellites, India must give a try** by **Dr S M Ahmed**, University of Hyderabad, Aug 17, 2017
- **Instability of the vacuum and pair production in De Sitter and anti De Sitter spacetimes** by **Dr Prashant Samantray**, Visiting Faculty, ICTS-TIFR, Bangalore and IUCAA, Pune, Aug 18, 2017
- **Engineering and learning outside the box** by **Mr Bryce Johnson**, Tinkerer and Science Communicator, Aug 18, 2017
- **Surface and interfacial properties of organic crystalline solids** by **Dr Jerry Heng**, Imperial College London, UK, Aug 21, 2017
- **Democratic reforms, cooperatives and social entrepreneurship** by **Prof Trilochan Sastry**, Dean, IIMB and ADR (Association of Democratic Reforms), Aug 21, 2017
- **Rerouting relations: mobile anthropology within and beyond rural Gujarat** by **Dr Sanderien Verstappen**, University of Amsterdam, Netherlands, Aug 24, 2017
- **Population density, climate variables and poverty synergistically structure spatial risk in urban malaria in India** by **Dr Mauricio Santos Vega**, University of Chicago, Aug 29, 2017
- **Control of crystallographic texture and its consequences in materials** by **Prof Satyam Suwas**, Indian Institute of Science, Bangalore, Aug 30, 2017
- **A random sampling of random research problem** by **Dr Dilip Krishnaswamy**, Senior Scientist, IBM Research, Bangalore, Sep 6, 2017

Extreme engineering: A new paradigm for top-class engineering education by **Prof Amrutur Anilkumar**, Vanderbilt University, June 5, 2017

Prof T Pradeep, IIT Chennai, delivered the 6th Roddam Narasimha Lecture titled **Clean water using advanced materials: Science, incubation and industry** on June 6, 2017

- **Dr Kotona Motoyama** and **Dr Shungo Kawanishi**, JAIST delivered talks on **Diversity studies and globalization: its implication for individuals**, Sep 6 - 7, 2017
- Centre for cognitive science organised a series of talk titled **Cogni Talks**, **on Other's perception of architecture** by **Prof Vishvajit Pandya**, DAIICT; **The Neurophysiology of preference reversal** by **Dr Arvind Sahai**, IIM Ahmedabad; **Can neuroscience promise a rethink of education** by **Dr Nandini Chatterjee Singh**, NBRC & UNESCO-MGIEP, and **Human centered design products services and systems** by **Dr Praveen Nahar,** NID Gandhinagar, Sep 8, 2017
- **Cascadingpedagogy:developingcriticalconsciousness & transferable skills whilst teaching gender studies** by **Dr Jyothsna Latha Belliappa**, Srishti Institute of Art, Design and Technology, Bangalore, Sep 8, 2017
- **Application of Zadeh-Deshpande formalism in air quality assessment** by **Prof Ashok Deshpande**, founding Chair, Berkeley Initiative in Soft Computing, Sep 9, 2017
- **Climate change, health, and the biocultural experience of resilience in the Indus Age of South Asia** by **Dr Gwen Robbins**, Appalachian State University, USA, Sep 15, 2017
- **How much information can be extracted from data** by **Prof Shankar Narasimhan**, IIT Madras, Sep 29, 2017
- **Journey of building technology start-ups in India** by **Mr Shyamal Kumar**, Lavelle Networks, Oct 11, 2017
- **The clause for free and compulsory education in India: why deleted from fundamental rights during constitution framing**? by **Prof Nalini Juneja**, National University of Educational Planning and Administration (NUEPA), Oct 12, 2017
- **Will failing students help them learn**? **The RTE 2009 and the reversal of the 'No Detention' policy** by **Prof Nalini Juneja**, NUEPA, Oct 13, 2017
- **Resolving structures across scales with transmission electron microscopy** by **Dr Saikat Chowdhury**, Scripps Research Institute, USA, Oct 13, 2017
- **Design and 3D biofabrication of orthopedic tissues** by **Prof Rohan Shirwaiker**, North Carolina State University, USA, Oct 24, 2017
- **Structure-property relations in advanced composites** by **Dr Suhasini Gururaja**, Indian Institute of Science, Bangalore, Nov 1, 2017
- **From clients to citizens: lessons from Brazil's bolsa familia for Delhi** by **Dr Manisha Priyam**, National University for Educational Planning and Administration, Nov 1, 2017
- **Astrobiology: the cradle of life** by **Prof Nigel Mason**, Open University, Milton Keynes, UK, Nov 2, 2017
- **The past and future (perhaps) of parameterised complexity and multivariate algorithmics** by **Prof Michael Fellows**, University of Bergen, Norway, Nov 2, 2017
- **Kid krypto-encryption systems based on NPhard problems** by **Prof Frances Rosamond**, University of Bergen, Norway, Nov 4, 2017
- **Introductory programming: let us cut through the clutter**! by **Prof Abhiram Ranade**, IIT Bombay, Nov 4, 2017
- **Concentration bounds for stochastic approximation with applications to reinforcement learning** by **Mr Gugan Thoppe**, Technion, Israel Institute of Technology, Nov 8, 2017
- **Constructing climate scenarios for the Netherlands** by **Dr Frank Selten**, KNMI, the Netherlands, Nov 9, 2017
- **A new approach to study climate-induced impacts** by **Dr Karin van der Wiel**, KNMI, the Netherlands, Nov 9, 2017
- **Multicultural education in the United States: do the basic assumptions apply to education in India**? by **Prof John Maddaus**, University of Maine, USA, Nov 13, 2017
- **Inequality and access to education in the United States** by **Prof John Maddaus**, University of Maine, USA, Nov 14, 2017
- **On the brain mechanisms of visual attention, saccadic eye movements and hearing** by **Dr Suresh Krishna**, German Primate Center, Nov 16, 2017
- **Autonomous spacecraft navigation using X-ray pulsars** by **Prof Arvind K Singh**, Space Application Centre, Nov 17, 2017
- **The web of freedom: J C Kumarappa and Gandhi's struggle for economic justice** by **Prof Venu Madhav Govindu**, Indian Institute of Science, Bengaluru, Nov 28, 2017
- **How the BBC has started developing its digital strategy for India** by **Mr Trushar Barot**, BBC World Service, Nov 28, 2017
- **Motion averaging in 3D vision** by **Prof Venu Madhav Govindu**, Indian Institute of Science, Bengaluru, Nov 28, 2017
- **Customised light-sheet microscopy for developmental biology and Cancer Research** by **Dr Gopi Shah**, University of Cambridge, UK, Nov 30, 2017
- **Self-organisation and axes formation in aggregates of embryonic stem cells** by **Dr Vikas Trivedi**, Herchel Smith Fellow, University of Cambridge, Nov 30, 2017
- **Geogenic contaminants in groundwater catchments – concerns for drinking water safety planning from source to tap and management** by **Prof Prosun Bhattacharya**, KTH Royal Institute of Technology, Dec 12, 2017
- **Convergent genomic analyses of a rat model of aerobic capacity and metabolic health** by **Ms Shweta Ramdas**, undergraduate student, National University of Singapore, Jan 1, 2018
- **Hydrologic and water quality modeling in the Mid-Atlantic and South-Southeast Asian regions** by **Dr Venkat Sridhar**, Virginia Tech, Blacksburg, Virginia, Jan 3, 2018
- **How do markets make societies prosperous** by **Prof Shyam Sunder**, Yale University, USA, Jan 3, 2018
- **On the distribution of the number of prime factors - variation of the classical theme on the distribution of the number of prime factors** by **Prof Krishnaswami Alladi**, University of Florida, USA, Jan 4, 2018
- **Towards robust process controls and qualification of additively manufactured metallic components**

with tailored microstructures and properties by **Prof Suresh Babu**, University of Tennessee, Knoxville, Jan 4, 2018

- **Recent algorithms for anomaly detection** by **Prof Kishan Mehrotra**, Syracuse University, USA, Jan 4, 2018
- **mMPU - memristive Memory Processing Unit** by **Mr Nishil Talati**, Graduate student, Erna Viterbi Faculty of Electrical Engineering, Jan 5, 2018
- **Leveraging plan re-costing for online optimization of parameterized queries** by **Prof Anshuman Dutt**, post-doctoral researcher, Microsoft Research, Jan 8, 2018
- **Embodied question answering** by **Prof Devi Parikh**, Georgia Tech, USA, Jan 8, 2018
- **Visual dialog**: **towards AI agents that can see, talk, and act** by **Prof Dhruv Batra**, Georgia Tech, USA, Jan 8, 2018
- **Hypervelocity impact and dynamic fragmentation of brittle materials** by **Prof Vinamra Agrawal,** Auburn University, USA, Jan 8, 2018
- **Recent trends in Industrial Safety** by **Mr Prem Aurora**, Trustee, ASM International, USA, Jan 10, 2018
- **Simple heuristics for a complex World** by **Prof Gerd Gigerenzer**, Yale School of Management, USA, Jan 11, 2018
- **India for diversity** by **Dr Suraj Yengde**, Harvard University, USA, Jan 11, 2018
- **How South Africa, Canada and Australia resisted India's anti-racist foreign policy**: **1945–1961** by **Dr Alexander Davis,** La Trobe University, Australia, Jan 11, 2018
- **Experimental investigations of laser-induced plasma** by **Prof Ajai Kumar**, Institute of Plasma Research, Jan 12, 2018
- **A biography of innovations- from birth to maturity** by **Mr R Gopalakrishnan**, Manager, Tata Ltd, Jan 18, 2018
- **Is the Universe Isotropic?** by **Prof Pankaj Jain**, IIT Kanpur, Jan 18, 2018
- **Human evolution: of mosaic**, **hybrids**, **and braids** by **Dr Yann-Pierre Montelle**, New Zealand, Jan 22, 2018
- **Homo faber**: **ubiquitous needs and cognition** by **Dr Yann-Pierre Montelle**, New Zealand, Jan 23, 2018
- **Homo aestheticus**: **but is it art**? by **Dr Yann-Pierre Montelle**, New Zealand, Jan 24, 2018
- **Modeling and simulations of biopolymers and synthetic polymers** by **Dr Harshvardhan Katkar**, University of Chicago, Jan 24, 2018
- **The enigma of mass: from the smallest to the largest scales** by **Prof Amitava Raychaudhuri**, University of Calcutta, Jan 24, 2018
- **Indian startup ecosystem: what's good & what's not, king of quora** by **Mr Balaji Viswanathan**, CEO, Invento Robotics, Jan 27, 2018
- **Clinical psychology**: **Australian perspectives** by **Mr Mitchell Stroicz**, Psychologist practicing, Uplift Psychological Services, Jan 29, 2018
- **Future of knowledge** & **the academic library ecosystem** by **Ms Karrie Peterson**, MIT Libraries Instruction, and Reference Services, Jan 29, 2018
- **Humans talking to machines: voice AI technology and news distribution and discovery** by **Mr Trushar Barot**, Digital Launch Editor, BBC News, Feb 2, 2018
- **Innovation and Entrepreneurship** by **Dr Peter Wierenga**, Ex-CEO, Philips Research, Feb 3, 2018
- **Temporal persistence of a primed receptor conformation as a mechanism of synergistic interactions in GPCR signaling** by **Dr Tejas Gupte**, University of Minnesota, postdoctoral fellow, Feb 5, 2018
- **India's cross-cultural exchanges in mathematics and astronomy** by **Prof Michel Danino**, IITGN, Feb 7, 2018
- **Insights into the sub-cellular organisation of bacterial cytoplasm from computational modeling** by **Dr Jagannath Mondal**, TIFR Hyderabad, Feb 8, 2018
- **BBC news-gathering ops and digital storytelling** by **Ms Shalu Yadav**, BBC News South Asia Producer, Feb 9, 2018
- **Introduction to stochastic models** by **Prof Raj Srinivasan**, University of Saskatchewan, Canada, Feb 9, 2018
- **The advent of microgrids: business and human impact due to industry structure change** by **Dr Mahesh Bhave**, Founder, BHAVE Power Systems, Feb 12, 2018
- **Leveraging technology for inclusive growth in India** by **Mr Utkarsh Amitabh**, Network Capital Founder, Feb 12, 2018
- **Role of non-covalent interactions in chemistry, biology and materials** by **Dr Ginny Karir**, Indian Institute of Science Education and Research, Mohali, Feb 15, 2018
- **Design and and optimization of silicon nanophotonic devices** by **Prof B M Azizur Rahman**, City University, London, Feb 15, 2018
- **Optical Fiber Sensors for Industrial Applications by Prof Kenneth Grattan**, City University, London, Feb 15, 2018
- **Legacy and Specialty Optical Fibers for Communication and Exotic Applications by Prof Bishnu Pal**, Bennett University, Greater Noida, Feb 15, 2018
- **Debating swaraj** by **Prof Dhananjay Rai**, School of Social Sciences, Central University of Gujarat, Gandhinagar, Feb 21, 2018
- **High energy physics: A reductionist perspective of constituents of matter** by **Prof Romesh Kaul**, The Institute of Mathematical Sciences, Feb 23, 2018
- **The co-evolution of life and Earth – snowball Earth, the cambrian explosion and the origin of animals** by **Prof Paul Smith**, Oxford University Museum of Natural History, Feb 26, 2018
- **Be nerdy be happy & what makes IITs special** by **Dr Anil K Rajvanshi**, Nimbkar Agricultural Research Institute, Maharashtra, Mar 3, 2018
- **Antibiotic-resistant bacteria in water environment** by **Prof Ryo Honda**, Earth Science, Kanazawa University, Mar 6, 2018
- **Imagined terrain: negotiating the paradigms of science, nation, and the self in nineteenth-century Bengali science fiction** by **Dr Atanu Bhattacharya**, Dean, Central University of Gujarat, Gandhinagar and **Dr Angus McBlane**, IITGN, Mar 7, 2018
- **Technology for teaching**: **addressing problems and**

challenges in Indian academic ecosystem technology of teaching by **Dr Ambar Jain**, IISER Bhopal, Mar 9, 2018

- **Magical mathematics of Ramanujan** by **Prof Asok Mallik**, Indian Institute of Engineering Science and Technology, Shibpur, West Bengal, Mar 12, 2018
- **Mathemagical black holes, chaos and fractals** by **Prof Asok Mallik**, Indian Institute of Engineering Science and Technology, Shibpur, West Bengal, Mar 13, 2018
- **Digital technology in education - Akshara's technology tools for education** by **Ms K Vaijayanti**, head, Akshara Foundation, Bangalore, Mar 13, 2018
- **Locating assessments in education-tool for accountability** by **Ms K Vaijayanti**, head, Akshara Foundation, Bangalore, Mar 13, 2018
- **Quality schooling for marginalised - issues in pre-school education and elementary education** by **Ms K Vaijayanti**, head, Akshara Foundation, Bangalore, Mar 14, 2018
- **The battle against terror-financing** by **Mr Abhinav Pandya**, Consultant, Vidya Bhawan, Udaipur, Mar 14, 2018
- **Materials and energy research in green buildings** by **Prof Rachid Bennacer**, University of Paris-Saclay & ECAM-EPMI, **Prof MEl Ganaoui**, University of Lorraine, France, Mar 15, 2018
- **Processing with powders: from powder metallurgy to additive manufacturing** by **Prof Sundar V Atre**, University of Louisville, USA, Mar 15, 2018
- **A local first law of gravity** by **Prof Maulik Parikh,** Arizona State University, Mar 15, 2018
- **E-mail writing session** by **Mr Ivan Brzev**, ex-lead business-Analyst, Rolls-Royce, Mar 17, 2018
- **Soft and biological matter** by **Dr Vijaykumar Krishnamurthy**, International Centre for Theoretical Sciences, Mar 19, 2018
- **Morphogenetic patterns: biochemical signalling, mechanics and geometry** by **Dr Vijay kumar Krishnamurthy**, International Centre for Theoretical Sciences, Mar 20, 2018
- **Enhancing and augmenting human perception and health with advanced sensors and artificial intelligence technologies** by **Dr Achintya Bhowmik**, Chief Technology Officer, Starkey Hearing Technologies, Mar 21, 2018
- **Materials in energy conversion, harvesting and storage: challenges and opportunities** by **Prof Ashish Garg**, IIT Kanpur, Mar 22, 2018
- **Interaction design for emergent users - leveraging digital technologies to solve problems of developing economies** by **Dr Aniruddha Joshi**, IIT Bombay, Mar 23, 2018
- Panel discussion on **Thick HCI: thoughts on the intersections of HCI and the Social Sciences** by **Dr Nimmi Rangaswamy**, IIT Hyderabad, Mar 23, 2018

GIAN COURSES

The following courses within the framework of the Global Initiatives of Academic Networks (GIAN) were organised at IITGN:

- GIAN course on **Pattern matching algorithms** by **Prof Amihood Amir**, Department of Computer Science, Bar-IIan University, Israel, Aug 28 - Sep 7, 2017
- GIAN course on **Computational social choice** by **Prof Edith Elkind**, Department of Computer Science, Oxford University, Dec 5-8, 2107
- GIAN course on **Engineering microbubbles for biomedical applications** by **Prof Mark A Borden**, Colorado University, Boulder, Jan 8-12, 2018

TEQIP -II

Technical Education Quality Improvement Programme (TEQIP) at IITGN has completed three years with generous support from MHRD of Government of India. IITGN is privileged to share this platform with more than 2000 participants including faculty, students and staff members involved in over 90 events focused on improvement in pedagogical approaches in their subject, research and academic leadership. The programme has entered in its third phase from Dec 2017, and is referred as TEQIP-III. The institute has been consistently running programmes for students and teachers from non-IITs under this scheme. The first-of-its-kind Faculty Induction Programme for newly-inducted teachers of technical colleges was conducted at IITGN under TEQIP-III. The programme was attended by 200 Assistant Professors (temporary cadre) of various government engineering colleges of Bihar and Rajasthan. This included three modules – pedagogy, research & development and project orientation. The objective was to enhance the quality of education, reflecting in securing NBA accreditation of the engineering programmes, and looked at enabling the young new faculty members to teach better and enable them to be the game changers technical education in government colleges across the country.

VISITORS

Vice Admiral A K Chawla, Chief of Personnel in Indian Navy visited IIT Gandhinagar on Apr 15, 2017 with his colleagues: **Rear Adm Sandeep Beecha** and **Lt Cdr Rahul Kumbat**. The meeting explored several avenues of working together and forging exciting collaborations in the future.

Lt Gen Vishwambhar Singh, General Officer Commanding, Maharashtra, Gujarat and Goa and UTs of Daman, Diu and Nagar Haveli visited IITGN on Aug 3, 2017, and delivered a talk on **What makes a person successful**. He motivated students by his real-life stories and how to achieve success in life with teamwork, communication, and leadership.

Prof Satish Tripathi, President of University at Buffalo, **Prof Liesl Folks**, Dean of the School of Engineering and Applied Sciences and **Dr Stephen C Dunnett**, Vice Provost, International Education visited the institute on Oct 30, 2017 to explore potential to expand collaborations with IITGN.

Dr Jagdish Chaturvedi, visiting Consultant ENT, Fortis Hospitals and Entrepreneur visited the institute on Nov 4, 2017 and delivered a talk on **Inventing medical devices in India**, at Amalthea, the Annual Technical Summit.

Mr A P Hota, former Managing Director & CEO, National Payments Corporation of India visited IITGN on Nov 4, 2017 for the inauguration of Amalthea, Annual Technical Summit, and delivered a talk on **Building a less cash society: potential of India taking the lead**.

Dr Narendra Chirmule, senior Vice President, Head of R&D, Biocon Research Labs visited the institute and delivered a talk on **The next frontier of biotechnology**, at the Amalthea, Annual Technical Summit on Nov 5, 2017.

Directors of third-generation IITs (setup in 2015) visited the campus with their colleagues to review campus development at IITGN. **Prof Manoj Gaur** from IIT Jammu visited the campus on July 1 2017, **Prof P Seshu** from IIT Dharwad visited on Oct 5, 2017 and **Prof P B Sunil Kumar** from IIT Palakkad visited on Dec 22, 2017.
Mr R Gopalakrishnan, former Executive Director, Tata sons invited to delivered a talk on his book **A biography of Innovations- From Birth to Maturity**, Jan 18, 2018.

Mr Chirag Patel, US-based philanthropist and co-CEO & chairman, Amneal Pharmaceuticals Pvt Ltd, visited IITGN for the inauguration of WIN Foundation Maternal and Child Health Centre and Water & Sanitation Centre on Jan 30, 2018 held at IIT Gandhinagar.

Mr Ashank Desai, Founder, Mastek Ltd, visited the institute to attend 1st Advisory Council meeting of IITGN Research Park & Incubation Centre on Feb 16, 2018.

IIT Gandhinagar and British Council together hosted **Prof Paul Smith**, Director, Oxford University Museum of Natural History on Feb 26, 2018. Prof Smith delivered a lecture titled **The co-evolution of life and Earth – snowball earth, the cambrian explosion and the origin of animals** under the aegis of 'GREAT' series of British Council Talks.

Ms Rupa Jha, Head of Indian Languages, BBC World Services visited the institute on Feb 28, 2018. Ms Jha and **Mr Ankur Jain**, Editor, BBC Gujarati Services visited the campus to foster collaborations with IIT Gandhinagar and BBC teams. They visited the new BBC Gujarati office that has been setup in the IITGN Research Park. They held discussions with faculty members regarding strengthening the dialogues for academic and media related fields.

Dr Anil K Rajvanshi, the Director of Nimbkar Agricultural Research Institute (NARI) visited IITGN to attend the inauguration of Ignite 4.0 and delivered a talk on **Be nerdy be happy & What makes IITs special**, Mar 10, 2018.

Gen P K Singh, Director of United Service Institution of India visited IITGN on Mar 23, 2018 and delivered a talk on **The Defense strategy India needs in the 21st century**.

DISTINGUISHED HONORARY PROFESSOR

PROF SURENDRA PRASAD

Prof Surendra Prasad served IIT Delhi for over four decades in several academic and administrative capacities including the post of the director. He received the Vikram Sarabhai Research Award in Electronics and Telecommunications (1987), the Shanti Swarup Bhatnagar Prize for Engineering Sciences (1988), the Om Prakash Bhasin Prize for research in electronics and communications (1994), the VASVIK Award for Information Technology (2006), the Lifetime Achievement Award of the Systems Society of India (2011), the distinguished alumnus award of IIT Kharagpur. He was also honored with an honorary doctorate by the Loughborough University, UK in 2007. He is a Fellow of the Indian National Academy of Engineering, the Indian National Science Academy, the Indian Academy of Sciences and the National Academy of Science and has been a member of the governing body of CSIR and CSIR Society, Government of India and boards of many IITs, NITs and other engineering institutes.

PROF S P SUKHATME

Prof Suhas P Sukhatme is a professor emeritus of IIT Bombay. He received his DSc (Doctor of Science) from Massachusetts Institute of Technology in 1964 and is widely known for his outstanding contributions to teaching and research. He is the author of two widely known text books on heat transfer and solar energy. He is the recipient of many honours and awards including the Prince of Wales Gold Medal from BHU in 1958, the Shanti Swarup Bhatnagar Prize in 1983 and the Om Prakash Bhasin Foundation Award for Engineering in 2001. He was the first recipient of the Lifetime Achievement Award of IIT Bombay in 2001. He was conferred an honorary doctor of science degree by the Banaras Hindu University in 2001. He was awarded the Padma Shri by the Government of India in 2001.

PROF NITISH THAKOR

Prof Nitish Thakor is a professor of biomedical engineering, electrical and computer engineering, and neurology at the Johns Hopkins University, and leads the Laboratory for Neuroengineering. He is also the director of the Singapore Institute for Neurotechnology at the National University of Singapore. He earned his undergraduate degree from IIT Bombay in 1974 and PhD from the University of Wisconsin, Madison in 1981. Prof Thakor is the recipient of the Research Career Development Award from the National Institutes of Health and the Presidential Young Investigator Award from the National Science Foundation. He is a Fellow of the American Institute of Medical and Biological Engineering, IEEE, the Founding Fellow of the Biomedical Engineering Society, and Fellow of International Federation of Medical and Biological Engineering. He is also a recipient of the Centennial Medal from the School of Engineering, University of Wisconsin (2008), Honorary Membership from Alpha Eta Mu Beta Biomedical Engineering student Honor Society. He received the award of Technical Excellence in Neuroengineering from IEEE Engineering in Medicine and Biology Society and the Distinguished Alumnus Award in 2012 from IIT Bombay and the Centennial Medal from the University of Wisconsin, Madison School of Engineering in 2012.

GUEST PROFESSORS

PROF ANILKUMAR AMURTUR

Prof Anilkumar Amurtur is an aerospace engineer on the faculty at Vanderbilt University. He has been a NASA investigator of microgravity fluid flow phenomena on space shuttle flights and on the International Space Station. His research focus includes experimental fluid dynamics, rocket propulsion, drop and bubble dynamics, bio-encapsulation; energy conversion, wind, thermoelectrics, biodiesel; materials processing: float-zones, directional solidification.

DR NIKHIL BALRAM

Dr Nikhil Balram served as president and CEO of Ricoh Innovations Corporation, a Silicon Valley company that develops innovative technologies and creates new businesses for Ricoh Company Ltd. He has won numerous awards including a 2012 Gold Stevie Award for Executive of the Year in the electronics category in the 9th Annual International Business Awards, a 2012 Fellow Award by the Society for Information Display (SID) and the 2011 Alumni Achievement Award by Carnegie Mellon University. Dr Balram is a visiting professor of vision science at the University of California, Berkeley, a guest professor of design and innovation at the IIT Gandhinagar, and serves on the Industry Advisory Board (IAB) at the School of Engineering at Santa Clara University.

DR ACHINTYA K BHOWMIK

Dr Achintya K Bhowmik is the founding general manager and chief technology officer of the perceptual computing group at Intel Corporation, where he leads research & development, engineering, and marketing of advanced computing products and solutions based on natural sensing and interaction technologies, intuitive interfaces, immersive applications and user experiences, branded as Intel®RealSense Technology.

PROF RAVI BANAVAR

Prof Ravi Banavar is a professor in the Systems and Control Engineering group at IIT Bombay, a unique interdisciplinary group in the country exclusively offering graduate education (masters and doctoral program) in the field. His research interests are in the area of geometric mechanics, nonlinear and optimal control, locomotion with applications in aerospace, mechanical and micro-robotics. He received his BTech from IIT Madras, MS from Clemson University and PhD from University of Texas, Austin. After a short stint as an instructor at the University of California, Los Angeles, he joined the Systems and Control group in IIT Bombay in 1993. He has held visiting appointments at TU Munich and Supelec, Gif-sur-Yvette. He was the Pratt and Whitney Visiting Chair Professor in the Department of Aerospace Engineering at IISc from Jul-Dec 2015, a Visiting Professor from Jan-May 2017 in the Department of Electrical Engineering in IIT Gandhinagar, and is currently a Guest Professor in the same institute.

DR R S BISHT

Dr R S Bisht, joint director general (retd), Archaeological Survey of India; has more than 35 years of experience in archaeological research, conservation and environmental development of national monuments and administration. He has also been associated with Department of Archaeology and Museum Haryana; and Department of Archaeology & Museum Punjab. Dr Bisht is currently the President of the Society for Marine Archaeology; and Chairman of the National Screening and Evolution Committee, nominated by Government of India in the Ministry of Culture. He is the recipient of the Padma Shri and Acharya Narendra Dev Alankar in 2013.

PROF RAJENDRA BORDIA

Prof Rajendra Bordia is currently professor and chair of the Department of Materials Science and Engineering at Clemson University. He has received prestigious awards including Humboldt Senior Scientist Research Award from the Alexander von Humboldt Foundation, Germany (2007); National Young Investigator Award (NSF) (1992-1997); DuPont Young Professor Award (DuPont) (1993-1996); International Expert Award from Technical University Hamburg, Harburg, Germany (1996, 2001 and 2002). He was the sole recipient of the Marsha Landolt Distinguished Graduate Mentor Award from the University of Washington (2007) and was the sole recipient of the Outstanding Educator of the Year by the Ceramic Education Council of the American Ceramic Society (2012).

PROF BIJOY H BORUAH

Prof Bijoy H Boruah is currently associated with IIT Delhi and has been a member of Indian Council of Philosophical Research (ICPR); Research and Publication Committee, ICPR; Advisory Committee, Centre for Philosophy, School of Social Sciences, Jawaharlal Nehru University; External Advisory Committee for Humanities and Social Sciences, Birla Institute of Technology and Science, Pilani; Institute Ethics Committee, Fortis Memorial Research Institute, Gurgaon. He is also a visitor's nominee, Faculty of Humanities and Social Sciences, North Eastern Hill University.

PROF R P CHHABRA

Prof R P Chhabra completed his BE in chemical engineering from University of Roorkee, ME from IISc Bangalore and PhD from Monash University, Australia. He has been associated with Indian Institute of Technology, Kanpur; University of New South Wales, Sydney; University College of Swansea; Monash University, Clayton; and University of Sydney. He is a Fellow of the Indian National Science Academy, the Indian Academy of Sciences, Bangalore, the National Academy of Sciences, India and the Indian National Academy of Engineering. Prof Chhabra was the recipient of Herdillia Award of the Indian Institute of Chemical Engineers for Excellence in Basic Research in Chemical Engineering and the Amar Dye-Chem Award of the Indian Institute of Chemical Engineers for Excellence in Research and Development.

PROF MICHEL DANINO

Prof Michel Danino has been an independent student of the Indian civilization since he came to India in 1977. He has authored papers and books in French and English. His recent titles include The Lost River: On the Trail of the Sarasvati (Penguin India, 2010) and Indian Culture and India's Future (DK Printworld, 2011). He was a visiting faculty at IIT Kanpur in 2011 and is currently a visiting faculty at IIM Ranchi. Prof Danino is the recipient of the Padma Shri Award in 2017 for Education and Literature.

DR PRAVINRAY D GANDHI

Dr Pravinray D Gandhi is currently director of corporate research at the Underwriter's Laboratory (UL). He received his BTech from IIT Delhi and PhD from the University of Notre Dame. His focus is on quantifying fire risks and hazards and has been involved in developing new test methods and standards. He is currently working with the fire safety community and universities to improve fire science education.

PROF DIPAN K GHOSH

Prof Dipan K Ghosh was professor of physics at IIT Bombay and has served as dean and deputy director. He was awarded IIT Bombay's Best Teacher award in 2000. In 2011 he was awarded the Lifetime Achievement Award of IIT Bombay. He has been the president of the Indian Physics Association (2005-07) and is currently the chief editor of Physics News. He is a member of the Academic Council of Homi Bhabha National Institute (DAE), Centre for Basic Sciences of DAE at the University of Mumbai and IIS University, Jaipur.

PROF RAMESH GAONKAR

Prof Ramesh Gaonkar obtained an interdisciplinary PhD degree in instructional technology & electrical engineering from Syracuse University, Syracuse, New York. He is an advisory board member of the College of Technology, SUNYIT. He has received numerous awards for his teaching and scholarly activities, including the American Society for Engineering Education (ASEE) Outstanding Teacher Award, St. Lawrence Section (1984) the SUNY Chancellor's Award for Creative and Scholarly Activities (2003), the CNY Technology - Outstanding Teacher Award (2003), and the OCC Board of Trustees Award for Outstanding Contributions (1982, 1989 and 2007).

DR BIPIN INDURKHYA

Dr Bipin Indurkhya is professor of computer science and the head of the Cognitive Science Lab, IIIT Hyderabad. He received his PhD from University of Massachusetts, Amherst and master's degree from Philips International Institute of Technological Studies, Eindhoven, The Netherlands. He has also initiated new activities in the field of remote sensing applications in archaeology.

DR RAJEN JASWA

Dr Rajen Jaswa is an accomplished serial technology entrepreneur. His most recent role was that of CEO and chairman of Dyyno from 2009-2012. From 2003- 2008, he volunteered full-time for TiE Silicon Valley, serving as president from 2005-2008 and as a director from 2003-2004. Dr Jaswa was the cofounder, chairman and CEO of Selectica from 1996- 2002.

PROF LILAVATI KRISHNAN

Prof Lilavati Krishnan retired from IIT Kanpur in 2014 from the Department of Humanities & Social Sciences. Prof Krishnan completed her PhD in June 1978 from McMaster University, Hamilton, Ontario, Canada. Her area of specialization includes psychology (social psychology, personality; cross cultural psychology). She received the Distinguished Teacher Award, IIT Kanpur on Sep 5, 2003. She was the president, National Academy of Psychology (1998- 99).

PROF DINESH KANT KUMAR

Prof Dinesh Kant Kumar is a professor in RMIT University, Melbourne, Australia and the programme director for biomedical engineering. Prof Kant has received many awards including the European Union's Erasmus Mundus teaching award (2009-2010), Capes (Brazil) senior Professorial Fellowship Award (2012-2013) and senior Professorial Fellowship Award of the Australian Academy of Science (Australia-India Research partnership). He is the founder of the international conference IEEE Biosignals and Biorobotics.

PROF S L NARAYANAMURTHY

Prof S L Narayanamurthy obtained his PhD degree in chemical engineering from the University of Bradford in 1971 as a Commonwealth Scholar. He received the Lifetime Achievement Award of IIT Bombay in 2004 in recognition of his diverse and seminal institution building contributions as a teacher, a team builder, and facilitator of R&D, resource mobilization and alumni networking. He has also received awards for excellence in process/technology development jointly with his colleagues.

PROF ACHAL MEHRA

Prof Achal Mehra received his Bachelor of Technology in mechanical engineering from IIT Kanpur and PhD from Southern Illinois University, USA. Prof Mehra's research interests include online media, media management, investigative reporting, media law, media ethics, censorship, International communications, comparative media systems, mass media and society. He is the editor of Little India, the largest overseas Indian magazine in the world, and BiggerIndia.com, a news aggregating site for overseas Indians.

PROF V N PRABHAKAR

Prof V N Prabhakar is the superintending Archaeologist of the Archaeological Survey of India. Prof Prabhakar received his PhD from Kurukshetra University and joined the Archaeological Survey of India in 1997. He

served at various field offices of the ASI in Agra and Aurangabad, and later as Superintending Archaeologist at Aurangabad Circle and Excavation Branch, Delhi. Prof Prabhakar directed excavations at the Harappan sites of Rupnagar (2011-12) and Karanpura (2012-13 and 2013-14), and the medieval site of Daulatabad (2010), besides participating in excavations at Mehtab Bagh, Madarpur, Fatehpur Sikri, Sanauli (all four in Uttar Pradesh), Ellora (Maharashtra) and Kashipur (Uttarakhand). He conducted metallurgical investigations of copper hoard specimens (from Madarpur), stable isotopic studies of human tooth enamel (from Sanauli), a study of ernestite drill bits (from Dholavira, Gujarat, and Karanpura, Rajasthan) and palaeoclimatic investigations (at Karanpura).

PROF DURGESH C RAI

Prof Durgesh C Rai is a professor in the Department of Civil Engineering at IIT Kanpur. He received the 2000 Shah Family Innovation Prize from the Earthquake Engineering Research Institute (USA) and the Young Engineer Award from the Indian National Academy of Engineering (1999). He was elected as Fellow of Indian National Academy of Engineering in 2010. He is coordinator of National Information Centre of Earthquake Engineering (NICEE at IIT Kanpur and serves on the Board of World Seismic Safety Initiative (WSSI) of International Association of Earthquake Engineering (IAEE).

PROF HIMANSHU PRABHA RAY

Prof Himanshu Prabha Ray is honorary professor, Distant Worlds Graduate Studies Programme, Ludwig Maximilian University, Munich and Board Member, Oxford Centre for Hindu Studies, Oxford. She is the former chairperson, National Monuments Authority, Ministry of Culture and former professor at the Centre for Historical Studies, Jawaharlal Nehru University, New Delhi. Prof Ray was the Shivdasani Fellow at the Oxford Centre for Hindu Studies, Oxford (Oct-Dec 2005) and the Jawaharlal Nehru University Visiting Fellow in Arts at the University of Sydney, Australia (June 2005). She is a member of the Archaeological Society of India, the Indian Association for Prehistoric & Quaternary Studies, the Indian History Congress and the Indo-Pacific Prehistory Association.

PROF T R RAMACHANDRAN

Prof T R Ramachandran was the founder director of the Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC) during 1989-99. He was an Emeritus Scientist at the Nonferrous Materials Technology Development Centre Hyderabad. He has served as part-time director of the National Aluminium Company (1991-93), the Bharat Aluminium Company (1994-97), Paradeep Carbons (2002-2006) and presently Alufluoride. He was awarded the Hindustan Zinc Gold Medal in 1994 and the NALCO Gold Medal in 2006 by the Indian Institute of Metals.

PROF MYTHILY RAMASWAMY

Prof Mythily Ramaswamy is a professor in the

School of Mathematics at TIFR, Bangalore. She received the Fulbright-Nehru Academic and Professional Excellence Fellowship, 2016-17. She was awarded the Kalpana Chawla Award for women scientists in 2004. She is Fellow of the Indian Academy of Sciences, Bangalore, the National Academy of Sciences, Allahabad, and serves on the Editorial Board of the Journal of Ramanujan Mathematical Society, Proceedings of Indian Academy of Sciences Mathematical Sciences and Boundary Value Problems. Currently she is also a guest professor at IIT Gandhinagar and serves as a Board member of IIT Gandhinagar and NIT Calicut Board of Governors and is a member of the IISERs standing committee.

DR G VENKATAPA RAO

Dr G V Rao spent over three decades (1975-2007) at the Indian Institute of Technology Delhi, during which he served as the head of the Department of Civil Engineering and the dean of Student Affairs. His contributions have been recognized with over 25 prestigious awards, including the CBIP Jawaharlal Nehru Birth Centenary Award for outstanding contribution to Water Resources (1994), International Geosynthetic Society-Leadership and Recognition Award (2008) to name a few. He is an Honorary Fellow of the Indian Geotechnical Society, Fellow of the Indian National Academy of Engineering and the Institution Engineers (India).

PROF DHEERAJ SANGHI

Prof Dheeraj Sanghi is currently professor of computer science and engineering at IIT Kanpur. He was a visiting faculty of computer science and engineering (2015-2017) at IIIT Delhi where he also served as the dean of academic affairs and the dean of external relations. From 2008 – 2010, he was the Director, LNM Institute of Information Technology (LNMIIT), a public-private partnership University in Jaipur. He was the Dean of Academic Affairs at IIT Kanpur from 2011 to 2014. He has also served as the head of Prabhu Goel Research Center for computer and internet security, and also of the Institute computer center. Prof Sanghi has a BTech from IIT Kanpur, and MS and PhD from University of Maryland. His research interests lie in computer networks and network security.

DR CHAPIN THOMAS

Dr J Thomas Chapin is the Vice President, Research at Underwriters Laboratories Inc. He received his PhD in polymer science in 1977 from the Institute of Materials Science at the University of Connecticut. Dr Chapin is a UL William Henry Merrill Society Corporate Fellow and Chairman of the UL Fire Council since 2001. His present focus is on emerging trends in the areas of energy, materials and fire science. He joined UL in 2001 after a 21-year career at AT&T Bell Laboratories and 3 years at The Upjohn Co. He has 17 patents in telecommunication product and materials science. He was the past international chairman of the IEC (International Electrotechnical Commission) Technical Committee, TC 113 on Nanotechnology Standardization for Electrical and Electronic Components and Subsystems.

PROF KOSHY THARAKAN

Prof Koshy Tharakan is currently Professor at the Department of Philosophy, Goa University. Prof Tharakan obtained his Masters as well as Doctoral degrees in Philosophy from the University of Hyderabad and began his career as a Lecturer in 1996 at the Department of Philosophy, Goa University. He joined IIT Gandhinagar as an Associate Professor in 2009 where he was also the Dean of Student Affairs. His areas of interest include Phenomenology and Philosophy of Social Sciences.

PROF SHYAM SUNDER

Prof Shyam Sunder is the James L Frank Professor of Accounting, Economics, and Finance at the Yale School of Management; Professor in the Department of Economics; and Fellow of the Whitney Humanities Center. He is a world-renowned accounting theorist and experimental economist. His research contributions include financial reporting, information in security markets, statistical theory of valuation, and design of electronic markets. He is a pioneer in the fields of experimental finance and experimental macroeconomics. Prof Sunder has won many awards for his research that includes six books and more than 200 articles in the leading journals of accounting, economics and finance, as well as in popular media.

PROF MAHESH TANDON

Prof Mahesh Tandon is an international expert in structural engineering. He has served as the President, Indian Association of Structural Engineers (2015-16) and President, Indian Society of Wind Engineering (2015-16). He is a Fellow of Indian National Academy of Engineering (INAE), the past chairman of the National Information Center for Earthquake Engineering at IIT Kanpur and the past president of Indian Concrete Institute.

PROF M VENKATARAMAN

Prof Venkataraman obtained a BTech in civil engineering and MTech in soil mechanics and foundation from IIT Madras in 1971. From 1971-1980 he worked in quasi government organisations to design, execute infrastructure projects. From 1980-1985, he worked as project manager for Swedish consultant for Middle East projects. In 1985, he joined Netlon India and started geosynthetics marketing in India and was involved in geosynthetics projects in roads, railways, ground improvement with Netlon and Tensar products. He retired as AVP from Garware in the year 2005. He is working as a freelance geotechnical and geosynthetics consultant from 2013 onwards. Prof Venkataraman has written and published more than 50 technical papers in various geotechnical journals.

INFRASTRUCTURE AND FACILITIES

PERMANENT CAMPUS DEVELOPMENT

The Institute completed the first phase of constructions of its campus on the banks of river Sabarmati and fully occupied the campus in 2015-2016. The first phase of the campus included academic buildings, student hostels, faculty and staff housing, and associated infrastructure. Since then, planning for projects in the next phase has been undertaken and is nearing completion. Construction is in progress for several projects.

CONSTRUCTION UPDATES

The construction of sports complex with both indoor and outdoor facilities is underway. The indoor sports facility includes an Olympic-size swimming pool and a smaller pool, a table-tennis hall, three squash courts, six badminton courts, an indoor basketball court, an indoor volleyball court, a gym and a yoga hall. The outdoor facilities include grounds and courts for cricket, football, hockey, basketball, volleyball, and an athletics track and a jogging track.

The phase 2 hostel constructions have also started and include six hostel blocks, a dining facility and indoor and outdoor student activity spaces. Construction of the Institute guest house and Director's residence are on in full swing. The guest house will consist of 70 guest rooms, 12 long stay suites, conference and meeting rooms, and dining facilities.

The detailed design for open air theatre is completed and construction activities have started. The open air theatre is planned to have a capacity of 2000 and will be integrated with a garden, thus facilitating large events and evening walks alike. The construction work of the boundary wall and the entrance gates are also progressing well. The boundary wall is designed with a significant amount of transparency and periodic patterns instead of being a long monotonous wall, to allow outsiders to get a sense of the campus from the outside.

The planning and architectural work for next phase of the academic area is nearing completion and includes maker and tinkerers' space and a library. It is in the final stage of planning and construction is expected to start later this year. In addition, planning and architectural designs for studio apartments and compact 1 and 2 BHK apartments have also been completed and construction is expected to start shortly.

GREEN CAMPUS

The community-driven organic farm initiative is growing steadily and in last several months the farm has produced potatoes, tomatoes, spinach, beetroot, broccoli, capsicum, carrots, pumpkins, cauliflowers, cabbage and brinjals. The campus ecological surveys have documented at least 101 species of birds on campus and 18 different species of butterflies. In addition to the existing trees and trees planted in previous years, in 2017-2018 several more trees have been planted including Indian Tree of Heaven (Ailanthus excelsa), neem, kassod (Siamese senna), gulmohar, banyan, fig tree, mahua (madhuca longifolia), jambu, tamarind and badam.

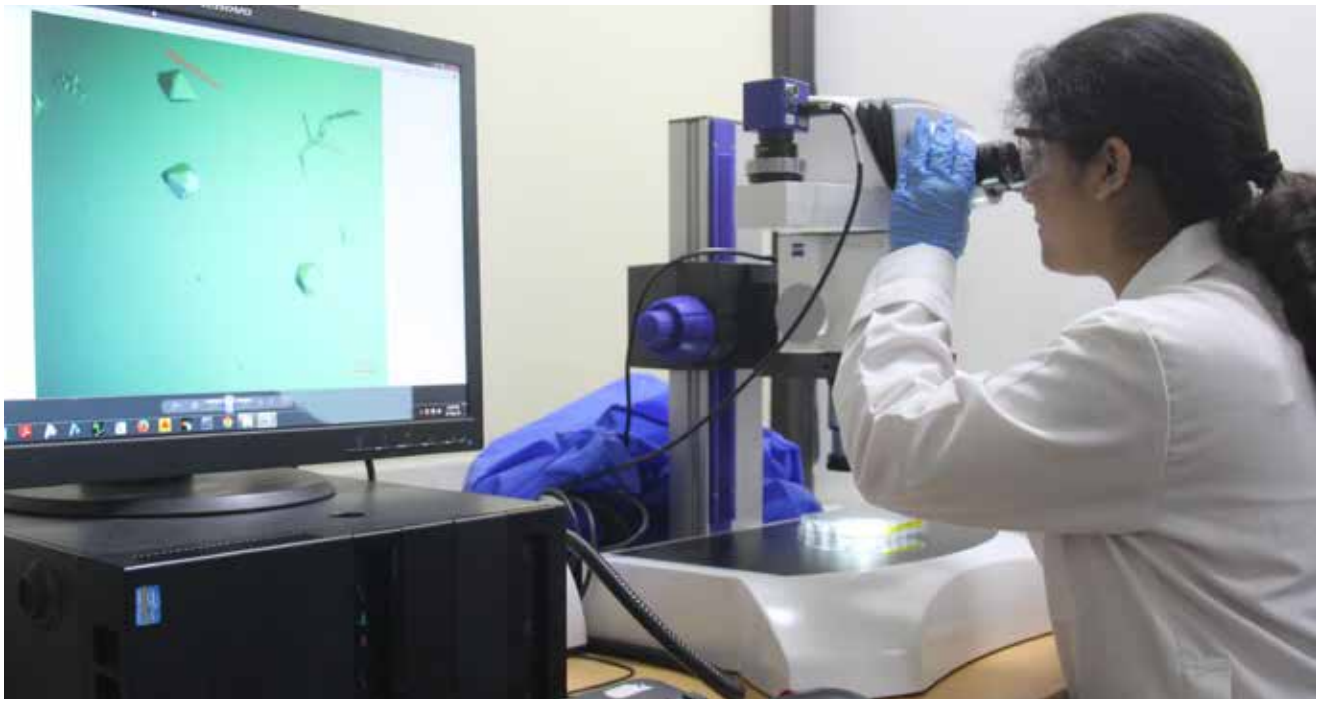
A solar carport with a partially covered walkway was commissioned in the stretch between the hostels and academic area. The campus has expanded the installed solar power capacity from 200 kWp to 500 kWp.

The four Jal Mandaps on campus have been fully operational. Jal Mandaps are underground tanks for harvesting and storing rooftop rainwater. Inspired from the "Vavs" in Gujarat, the water harvesting structure is celebrated with

architecture and a social space with greens and seating around it. In the last monsoon, the harvested rain water in the Jal Mandaps has been supplied to the entire campus water network after adequate testing and treatment. The campus continues to treat all its sewage and recycle the treated water for horticulture and continues to remain a zero-discharge campus.

CAMPUS EXPERIENCE

The campus has a range of cafeterias and food outlets, general store, salon, laundry service, music room, gym and other recreational facilities. These facilities are used by all campus residents. The institute has been also experimenting with a few eco-friendly commute options within the campus such as battery-operated vehicles, CNG vehicles and recently different models for campus-wide bicycle-share systems.



LABORATORY FACILITIES

BIOLOGICAL ENGINEERING

The Biological Engineering laboratory facilities include the Molecular and Cellular Biology Facility (MCBF); Cell Culture Laboratory (CCF); C. elegans facility; Proteomics and Peptide Synthesis facility; Crystallization Laboratory; and Microbiology Laboratory.

THE MOLECULAR AND CELLULAR BIOLOGY FACILITY (MCBF) is home to various research activities in biochemistry, molecular biology and cell biology. This laboratory is equipped with shaker incubators, laminar flow hood, sonicator, refrigerated centrifuges, ultracentrifuge, gradient thermocycler, gel documentation system, water purifiers, ultra-low and low temperature freezers, real-time thermocycler, nano-drop UV-vis spectrophotometer, multimode microplate reader and fast protein liquid chromatography (FPLC) system with various columns.

The Cell Culture Laboratory (CCF) has 3 cell culture labs equipped with biosafety cabinets, CO2 incubators, centrifuges, automated cell counter, UV-crosslinker, sonicator, liquid nitrogen cryopreserver, inverted epifluorescence microscope and a multimode microplate reader with alpha-screen assay capabilities for high throughput assay applications.

The C. elegans facility is a BSL-1 facility which is equipped with bio-safety cabinet, laminar air flow, CO2 incubator, freezers, thermo-mixer, autoclave, refrigerated shakers and centrifuges, liquid nitrogen tank, microinjection scope, fluorescent stereo-zoom microscope and basic stereo-microscopes.

The Proteomics and Peptide Synthesis facility is a mass spectrometry facility dedicated to the characterization of proteins and peptides. The facility is home to Matrix Assisted Laser Desorption Ionization-Time of Flight Mass Spectrometer (MALDI TOF/TOF MS) equipped with software for full mass characterization, sequencing, PTM identification, comparative proteomics and polymer analysis. Peptide synthesis related equipment and other sample preparation instruments are also available such as analytical-cum-preparative HPLC, fume hoods, microwave-based peptide synthesizer, lyophilizer, manual SPPS set-up, centrifuges, refrigerators and freezers.

The Crystallization Lab is equipped with crystallization incubator and stereo-microscope, and **Microbiology Lab** is a BSL-2 facility which is equipped with laminar air flow and incubators.

CHEMICAL ENGINEERING

The Chemical Engineering discipline has state-of-the-art laboratory facilities. There are different experimental setups currently in use covering different courses in BTech program. Fluid mechanics experimental set-ups include Reynolds experiment apparatus, Bernoulli's apparatus, friction factor through different pipes, equivalent length of pipe fittings, orifice and venturimeter, and centrifugal pump characteristics. Unit operations/mass transfer operations experimental set ups include ball mill, sieve

plate/simple distillation, packed bed absorption tower, and solid-liquid/solid-gas/liquid-gas mass transfer. The experimental setups pertaining to heat transfer operations include heat exchangers of various types such as shell and tube/ double pipe/coiled plate/fluidized/ finned tube, and other experiments such as heat transfer in agitated vessel, heat transfer in laminar/turbulent flows, and absorptivity of different materials. Chemical reaction engineering setups cover Batch/PFR/CSTR reactors. Process control and dynamics setups include simple pendulum, bulb thermometer, interacting and noninteracting tanks, on-off controllers, and PID control. The facility also includes special characterization facility such as UV spectrophotometer, HPLC, GC, and particle size analyzer, and a computer facility for process simulation laboratory. Simulation tools such as ANSYS, STAR-CCM, AspenTech suite, MATLAB and COMSOL are also available. The discipline has following laboratories actively involved in different areas of research in Undergraduate and graduate programs.

DRY PROCESS TECHNOLOGY (DRYPROTECH) LABORATORY

The state-of-the-art DryProTech lab has several sophisticated instruments such as surface energy analyser (Inverted Gas Chromatography), simultaneous TG-DSC from Netzsch, FT4 powder rheometer (Freeman Technology), laser diffraction particle size analyzer (CILAS) for characterization in dry and wet mode. In addition, the lab is equipped with V-blender and cone-mill (Prism pharma), humidity controlled glove box and faraday cup with electrostatic charge measurement facility.

COLLOIDAL ENGINEERING LABORATORY

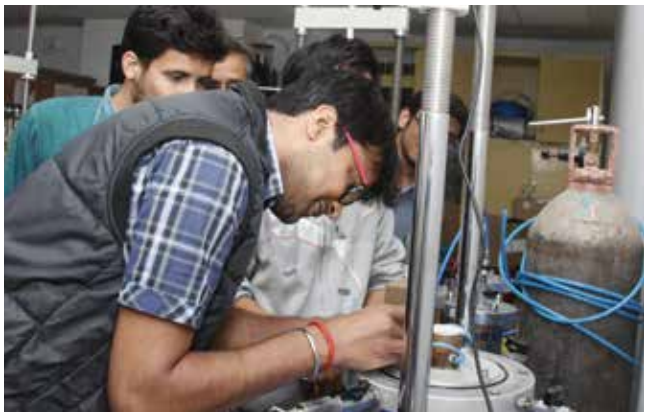
The laboratory has a set-up for nanoparticle production using a probe sonicator (Sonics VC 505), a particle size analyzer (Beckman Coulter LS 13320) for measurement of particle sizes in the range of 40nm-2mm and particle sizing systems (PSSS) zeta analyzer (NICOMP380 ZLS) for estimation of zeta potential of aqueous suspensions of nanoparticles, a Martin Christ freeze dryer (Alpha 1-4 LD plus, a 5-liter high-pressure vessel (operating conditions: 200 bar, and 100o C), a particle size analyzer (PSS NICOMP Accusizer 780 AD), a optical microscope (NIKON TS 100F). The laboratory also has rheometer, optical microscope, and tensiometer etc for research in the area of structure and interactions in soft materials at nano, micro and macroscopic length scales.

FIRE RESEARCH LABORATORY

The Fire Research Laboratory is one of the important laboratories of Centre for Safety Engineering. It has several experimental set ups to support research on the aerosol fire extinguisher, developing early detection for kitchen fire, burning rate evaluation of different materials etc. The laboratory is also equipped with the sophisticated instrument such as Cone calorimeter (FFT, UK; Model: iCone mini) which enables us to measure the heat release rate (HRR) under different incident heat flux (maximum 100 kW/m2) using ISO 5660-1. The present system can also quantify the combustion gases and smoke release rate along with mass loss which is useful for fire modelling and prediction of real scale fire behavior. The facilities in the Fire Research Laboratory are enabling us to validate the observations of the full-scale facade fire tests conducted at IITGN – UL Fire Testing facility at IITGN.

CHEMISTRY

The Chemistry laboratory is equipped with state-of-the-art facilities for a variety of teaching and research activities for undergraduate and postgraduate students. Fume hoods equipped with Schlenk lines cater to a large segment of wet chemical synthetic work. The sophisticated instruments in the institute include 500MHz NMR, Synapt G2S ESI-QToF mass spectrometer, scanning electron microscope (SEM), atomic force microscope (AFM), confocal microscope and more recently a MALDI-ToF. The research instruments such as cyclic voltammeter, a circular dichroism spectrometer, BET surface area analyzer, TGA-DSc and gas chromatography, FTIR spectrophotometer, UV-vis instruments (with reflectance accessory and 8-cell Peltier unit), analytical HPLC, spectrofluorimeter with Peltier, polarizer and solid-state accessories are used both for teaching and research purposes. Instruments such as flow cytometer and isothermal titration calorimetry are being procured. These instruments have significantly enhanced the discipline's capabilities to work in interdisciplinary areas covering chemistry biology interface.



CIVIL ENGINEERING

The Civil Engineering discipline has developed laboratories in the areas of structural engineering, geotechnical engineering, water resource engineering and surveying/ GIS.

STRUCTURAL ENGINEERING LABORATORY

The Structural Engineering laboratory has the following material testing facilities for UG students: standard consistency, initial/final setting time of cement paste; soundness of cement; bulking of sand; slump test for workability of concrete; compaction factor test; vee bee consistometer test; specific gravity of cement; fineness of cement; fineness modulus, specific gravity, bulk density of fine/coarse aggregates; elongation and flakiness index of coarse aggregates; aggregate impact value; aggregate abrasion value (Los Angeles test); compressive strength of cement cube and mortar cube; compressive strength of concrete cube (as per nominal mix); compressive strength of concrete cube (as per mix design); compressive strength of concrete by ultrasonic pulse velocity test; compressive strength of concrete by rebound hammer; finding of air content in concrete; concrete penetration resistance; penetration depth of bitumen; flash & fire point of bitumen; viscosity of tar; efflorescence of brick; water absorption of wood; viscosity of paint; fineness of paint.

GEOTECHNICAL ENGINEERING LABORATORY

The Geotechnical Engineering laboratory is equipped with basic soil testing equipment as well as high end research equipment. The laboratory is equipped with fully automated cyclic triaxial test setup (0.01-10Hz, stress and strain controlled, hydraulic cum pneumatic operation) for liquefaction potential and dynamic properties of soil (high strain amplitude test; 10-4% to 10-2%); cyclic simple shear setup (0.001-5Hz, stress and strain controlled, electromechanical operation) is in the process of purchase, which will be used to determine shear modulus and damping ratio of soil under earthquake loading conditions. Direct shear device for shear strength of cohesionless soils, unconfined compression (UC) testing device for shear strength of cohesive soils, vane shear test for soft soils, triaxial test setup with DAQ and analysis software for measuring shear strength of all soil types with the facility of measurement of pore pressure response and volume change under compression loading conditions (UU, CU,CD tests), advanced automated triaxial setup with additional facility for extension loading test, Ko test and stress path test, large direct shear testing facility. The suction pressure measurement facility is also available such as dew point potentiometer for total suction measurement of soil using chilled mirror technique (suction values from 0-300 Mpa), conventional tensiometer, sensor-based tensiometer, filter paper testing setup. UNSAT triaxial setup is available to determine the unsaturated shear strength of soil under given matric suction. The facility includes falling and constant head devices for permeability of fine and coarse grained soils, four 3-gang oedometer setup (consolidation test), proctor testing setup, CBR for strength of subgrade soil, sieve shaker, vibratory sieve shaker, hydrometer test facility, Atterberg limit equipment (liquid limit, plastic limit, shrinkage limit), swell pressure measurement facility, specific gravity, relative density, core cutter, sand pouring apparatus, muffled furnace (900°C) for organic matter evaluation in soils, optical and digital LCD microscopes.

The field testing laboratory has plate load test of 300 kN capacity with motorized anchoring system for bearing capacity, Standard Penetration Test (SPT), dynamic cone penetration test (DCPT) with automatic free fall hammering system, vibratory plate compactor for field compaction of soils, field permeability test, ground penetration radar with mono and bistatic operations facilitated with antennae of frequencies 100MHz, 400MHz with bistatic operation and 200MHz and 900MHz with monostatic operation.

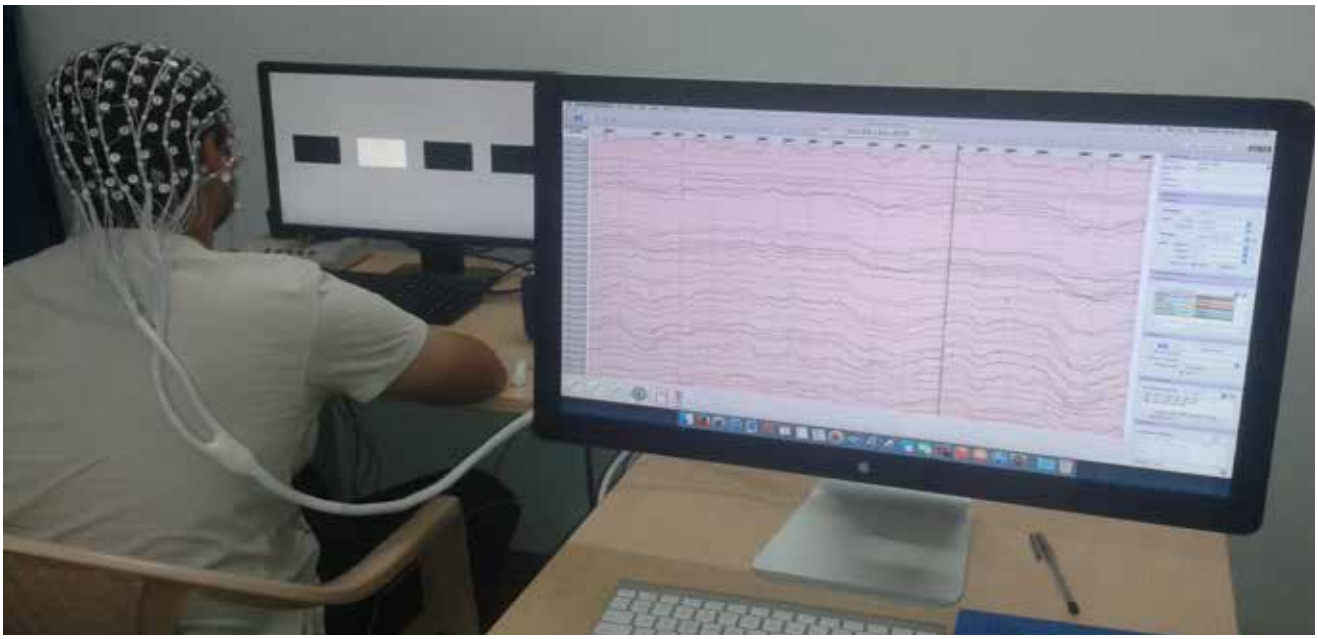
The following equipment have been developed at the Geotechnical laboratory: fully automated flexible boundary plane strain apparatus with real time feedback control system with option of converting to true triaxial device, constant rate of strain (CRS) setup, slurry consolidometer for preparing the remolded specimens of fine grained soils with self-reacting 250kg reaction frame with four double stroke pneumatic pressure cylinders and four consolidation cells.

WATER RESOURCES ENGINEERING LABORATORY

The Water Resources Engineering laboratory has following equipment for teaching purposes: a hydraulic bench, pitot tube, Reynold's apparatus, sharp crested weir (notch), Bernoulli's apparatus, venturimeter and orificemeter, nozzle meter, hydraulic tilting flume, basic hydrology apparatus, free and forced vortex flow apparatus.

SURVEY AND GIS LABORATORY

The Survey and GIS laboratory has been developed with the procurement of various high-end survey equipment and GIS software. Survey equipment includes advanced Integrated surveying kit which consists of kinematic GPS, robotic total station and related field and office software. It provides a common file and user interface to GPS and total station, which complement each other. Integrated surveying provides a platform where GPS techniques can extend a total station survey without the need for extensive traversing. Besides this several total stations, auto level, digital level and hand-held GPS are also procured, which will be used in addition to the advanced integrated surveying kit. Multi-user ArcGIS Info kit is procured to carry out GIS analysis in teaching and research activities. ArcGIS package will add the pre-existing image processing software for handling the satellite data.



COGNITIVE SCIENCE

TRANSCRANIAL DIRECT CURRENT STIMULATION (tDCS)

The tDCS is used for non-invasive stimulation of the brain by using a small direct current across the scalp to modulate brain function. Even extremely low-level currents may simultaneously increase the brain's activity near the anode and decrease the activity near the cathode.

EYE-TRACKING

The eye tracking facility includes a Tobii TX 300 eye tracker and comes with the Tobii Studio™ eye tracking software. This is a state-of-the-art eye tracking facility that can be used for consumer behavior research, vision research and can collect data pertaining to saccades, correction saccades, fixation duration, pupil size and blinks. The facility also includes Tobii Toolbox, which supports data collection using MATLAB, thus minimizing the use of Tobii studio for experimental design. Support is also available for E-Prime through extensions from Tobii.

WIRELESS PHYSIOLOGY-BASED DATA ACQUISITION SYSTEM

The wireless physiology-based data acquisition system (Biopac Systems Inc) facilitates real-time data acquisition of physiological signals such as ECG, EMG, EDA and provides excellent signal quality with digital transmission with high resolution of 16 bit and at high speed up to 400 kHz aggregate. The wireless, wearable physiological monitoring device, noninvasively records high quality data and is the perfect tool for applications that demand greater degrees of subject freedom and advanced experimental design. The system is compatible with the virtual reality-based programming platform from WorldViz.com.

VIRTUAL REALITY-BASED DEVICES AND PROGRAMMING PLATFORM

This is the software-programming platform, namely, Vizard from WorldViz Inc. Vizard is a high-level graphics toolkit for the development of high-performance graphics applications, including Virtual Reality (VR), scientific visualization, games, and flight simulation. The VR platform provides controlled and replicable experimental setups and allows manipulation of the environment (and avatars) that would be impossible or prohibitively expensive in the real world. Use of the VR toolkit along with Biopac data acquisition and analysis system to synchronize events from the virtual world with the physiological data, allows accurate and automated data analysis and adds a new dimension to the research. The Centre has also acquired a 3D virtual reality display (Oculus Rift).

VIRTUAL REALITY MOTION CAPTURE SYSTEM

This custom system uses electromagnetic sensors (Ascension trakStar, Northern Digital) to record arm movements made in the horizontal plane. It is interfaced with the motion monitor (Innsport, Chicago, IL) as well as autonomously developed software to provide a virtual reality environment, which enables recording of arm motion data under a variety of different task conditions. This system can be integrated with a range of external devices including EMG, EEG and TMS equipment, which allows quantification as well as disruption of neural activity during arm motor tasks.

BEHAVIOURAL CUBICLES

Currently, there are three behavioural cubicles that house computers that support behavioural data collection. The cubicles are sound attenuated dark rooms with adjustable lighting. The computers run Matlab with the Psychophysics Toolbox and is used for research on decision-making, attention, agency etc. They also support E-Prime and other softwares such as Blitz3D. These labs are also used as private spaces for paper-and-pencil tests and questionnaires that require an environment free from external interference.

ELECTRICAL ENGINEERING

The Electrical Engineering discipline currently offers four undergraduate laboratory courses and a basic laboratory course to students of other engineering disciplines. The Electronics Engineering laboratory is equipped with standard test and measurement equipments such as 100 MHz dual-channel digital storage oscilloscopes (Tektronix), dual-channel function generators (Agilent), Keithley power supplies, RF spectrum analyzer (Agilent). The research facilities of the discipline are housed in specialized laboratories given below.

WAFER CHARACTERIZATION LABORATORY

The Wafer Characterization laboratory currently houses a 6" wafer probe station, a semiconductor parametric analyzer (with 4 SMUs, 1 LCR meter, 1 pulse unit), a dynamic signal analyzer, a low-noise current preamplifier and ICCAP modeling software.

MICROELECTRONICS LABORATORY

The Microelectronics Laboratory is primarily used for analog and digital VLSI design and semiconductor device related research and for teaching post-graduate laboratory courses in microelectronics. The institute has signed NDAs with IMEC Belgium, UMC and TSMC foundries (Taiwan) and with Semiconductor Laboratory (SCL) India for process design kits and IC fabrication. We have got ASICs fabricated in UMC 180nm and UMC 65nm through the Europractice program and in SCL 180nm. The laboratory is equipped with multi-user licenses for Cadence, Mentor Graphics, Synopsys, Xilinx ISE tools. The laboratory is also equipped with a variety of FPGA boards including Basys, Nexus, Spartan, Kintex-7 boards. Apart from this, the lab is equipped with other computational resources including 5 workstations, approximately 30 computers and server machine that hosts the tools. The ASIC testing facility with high-end FPGA, digital storage oscilloscope, multimeter, etc is also being set up in the laboratory to carry out basic functional tests of ASIC fabricated in the laboratory.

POWER SYSTEMS AND SMART GRID LABORATORY

The Power Systems and Smart Grid laboratory conducts research in the major domain of smart distribution grid, renewable energy, energy management and is equipped with a fully digital real-time power engineering simulation platform consists of Opal-RT (OP4508 F11-3+1) real-time digital simulator - OP5600 and customized modular hardware and firmware of lab-volt for hardware-in- the-loop (HIL) and rapid control prototype (RCP) studies. The lab is also equipped with power systems simulation packages – PSCAD and CYME distribution software.

INTELLIGENT REHABILITATION AND AFFECTIVE COMPUTING SYSTEMS LABORATORY

The Intelligent Rehabilitation and Affective Computing Systems laboratory owns three patented systems, namely (i) Smart Eye technology for stroke diagnosis, (ii) SwasTi walking stick to prevent freezing of gait (FOG) in people with Parkinson's disease, and (iii) One Touch Doctor system for noninvasive measurement of various physiological parameters of human body. In addition, this research lab is equipped with split-belt treadmill platform, automated body weight support system, gait characterization module, wii balance board, remote and wearable eye trackers, biopac(s) for physiological data acquisition, haptic device(s) that have been extensively used with virtual reality-based platform for upper and lower limb stroke rehabilitation and autism intervention.

COMPUTER VISION LABORATORY

The lab houses a Faro Focus 3DX330 laser scanner which is used to scan large structures. The potential applications include digital heritage, structural analysis, and geometric processing. The lab also has Kinect depth sensors. The lab also has coded aperture cameras fabricated with the help of ISRO-SAC for refocusing and extended depth of field recovery from a single image. The coded aperture cameras can be used with any DSLR to achieve these tasks. GPU-enabled workstations are used to solve computationally

expensive problems such as deep learning and the corresponding computer vision applications. The lab has a workstation with software such as Faro Scene, MeshLab, and Geomagic Studio.

PHOTONIC SENSORS LABORATORY

The Photonic Sensors laboratory works on industrial and bio-medical applications of near-IR and mid-IR tunable diode laser spectroscopy (TDLS). The lab is equipped with a very wide array of near-IR and mid-IR semiconductor lasers, photodetectors, test & measurement equipment. The following semiconductor lasers are currently available - quantum cascade lasers (Alpes Lasers) emitting at 4312 nm and 4559 nm, a 1392 nm edge-emitting laser diode (Eblana Photonics), a multi-pass Herriot gas cell, a 100 mW mid-infrared 4.3-4.7 um) quantum cascade laser (Daylight Solutions Inc), a 1650 nm edge-emitting laser diode (Toptica Photonics), a 1533 nm edge-emitting laser diode (Toptica Photonics), a 2004 nm VCSEL (Vertilas GmbH), cooled and uncooled visible, near-infrared and mid-infrared photodiodes. The electronic test and measurement equipment includes a 50 MHz dual channel, lock-in amplifier (Zurich Instruments), laser diode temperature controllers (Thorlabs), laser diode current controllers (Thorlabs), a combined LD driver TEC Controller, (Stanford Research Systems), an arbitrary waveform generator (Agilent), a 500 MHz, 1 GS/s digital phosphor oscilloscope (Tektronix), a digital delay and pulse generator, (DG535, Stanford Research Systems), a 3 GHz RF spectrum analyzer (Agilent), and a wide bandwidth signal generator (Tektronix).

COMPUTATIONAL NANOPHOTONICS LABORATORY

The Computational Nanophotonics laboratory investigates the fundamental physics of light interaction with nanostructured materials with an eye towards applications in imaging, sensing and energy harvesting. Specifically, it investigates nanostructures made from high-refractive index materials: noble metals that exhibit plasmonic behaviour and semiconductors that exhibit enhanced magnetic response. The myriad applications that the lab investigates include high resolution and very wide field-of-view microscopes, monolithic integrated ultra-miniature cameras, ultra-sensitive non-destructive optical measurement techniques for probing objects and dynamics at the nanoscale, bioinspired sustainable energy harvesting and storage techniques. The lab is equipped with broadband supercontinuum lasers, UV-VIS- NIR spectrometers and other tools to allow characterization of optical nanostructures and meta-surfaces. The Computational Nanophotonics laboratory is equipped with: 1) Fianium Whitelase SC400 2 watt supercontinuum laser with Acousto optic tunable filters allowing wavelength selection in the 450 nm to 2000nm window 2) Ocean optics Flame-S and NIR quest spectrometers covering the 200 to 1700 nm spectral window 3) Raptor photonics OWL 320 HS Nir fast camera.

MULTIMEDIA ANALYSIS AND SECURITY LAB

Multimedia Analysis and Security Lab presently focus on investigating problems related to security of multimedia and analysis of remote sensing images. The lab is equipped with standard equipment for acquiring and processing multimedia data such as professional three-sensor cameras for capturing images and videos in raw format (Canon 5D Mark III, Sigma dp2 Quattro, Sony PXW-X200, and Epson Perfection V600), high fidelity pen and touch system for accurate ground truthing (Wacom Cintiq DTH2700) and high-end computational servers equipped with GPUs which are used for solving computationally expensive inverse problems related to multimedia security. The lab has standard commercial software tools for processing multimedia and develops its own homegrown computational systems.

ELECTRICAL MACHINES AND POWER ELECTRONICS LABORATORY

The Electrical Machines and Power Electronics laboratory is equipped to carry out research work on design, control and diagnosis of various electric machines. These include transformers, rotating electric machines and power converters. Design and analysis of novel and existing topologies is carried out using 2D and 3D electromagnetic finite element analysis in Ansys Maxwell. Test-setups for experimentation on various rotating electric machine topologies are available in the lab. These include permanent magnet brushless DC motor, permanent magnet synchronous motor and switched reluctance motor. Analysis and modeling of conventional topologies are carried out on a unified test bench that consists of DC machine, induction machine and synchronous machine. For machine health diagnosis, precision magnetic analyzer and impulse generator are used for carrying out FRA analysis. Lab facilities also include programmable power supply which is used to generate balanced and unbalanced supply to mimic grid behavior. The lab has basic power converters and their corresponding controllers and drivers fabricated. These converter topologies allow for the implementation of ac-dc, ac-ac, dc-ac, and dc-dc conversion. To facilitate research activities for postgraduate students additional power electronic converters have been added, DC -DC converter modules having high gain (Hi-Boost Converter) have been added. This includes a power module and a 32 bit ARM Cortex M4 controller which can run a matlab simulation and generate hardware control signals required to control the power modules.

MATERIALS SCIENCE AND ENGINEERING

Materials Science and Engineering now has a fully functional metallography lab and materials characterization labs. Both of these labs are designed to cater to undergraduate and postgraduate teaching. The metallography lab is equipped with standard polishing equipment (viz. polishing discs, automatic polisher), optical microscopy suite (phase contrast and polarized light microscopes), infrastructure for etching and microstructure revelation. The lab also features slow speed cutting saw to prepare metallographic sample with desired precision. Ms Regina Dietsch, Metallography expert with Rolls Royce Manufacturing Laboratory (Germany) visited IIT Gandhinagar under the

Senior Expert Service Program. **Ms Dietsch** conducted 10 day long metallography training program for the students and engineers from Siddhi Engineers group. She was joined by **Dr Hartwin Weber** (Senior expert service program) for few days for analysis of aluminum alloy microstructure. The materials characterization lab now has equipment that can perform surface characterization (contact angle, AFM, profilometer), thermal characterization (TGA, DSC, STA), elemental composition characterization (AAS). The labs also inducted three new instruments (Inductively coupled plasma-optical emission spectroscopy (ICP-OES, Perkin Elmer Avio 200), inductively coupled plasma-mass spectrometry, (ICP-MS, Perkin Elmer, Nexion 2000) and x-ray fluorescence spectrometer (Panalytical, Epsilon 1) all catering towards evaluating elemental composition. The labs now have facility to detect elemental composition of solids and liquids ranging from parts per million to parts per trillion.

MECHANICAL ENGINEERING

The Mechanical Systems Design laboratory supports the execution of structured experiments on the behaviour of mechanical components and systems has test rigs such as planar linkages, cams, gear box, whirling of shaft, balancing of machines and mechanical vibrations. The gear-box test rig allows fault-detection such as broken tooth by way of vibration characteristics.

SOLID AND FLUID MECHANICS LABORATORY

The Solid Mechanics laboratory has two MTS Universal testing machines of 100 kN and 200 kN capacity, Charpy impact testing machine of 450J capacity (MTS), torsion testing machine (500 nm) and Rockwell and Vickers hardness testing machines (Zwick Roell), and a fatigue testing machine. The Fluid Mechanics laboratory has setups for conducting experiments on fluid statics and fluid dynamics. Several common turbo machines such as gear pump, centrifugal pump, pelton wheel along with various flow measuring devices and accessories have also been installed.

MANUFACTURING LABORATORY

The Manufacturing laboratory has facilities such as lathes, milling machine, vertical machining center, electric discharge machine, welding, fitting and tin smithy equipment. It supports courses on manufacturing practices and processes and supports manufacturing activities in integrated design and manufacturing courses. It also serves as a workshop for fabrication of undergraduate student projects as well as research related equipment and accessories.

CONTROL SYSTEMS LABORATORY

The Control Systems laboratory is shared between several disciplines and covers a range of experiments that help the students understand both the theory and design aspects of control system and the implementation aspects. The test rigs provide hands-on experience with sensors, data acquisition, calibration, stability analysis, PID controller tuning, modeling from experimental data, root locus-based design to meet performance criteria. There are test-rigs for temperature control of hot water baths, liquid level control, inverted pendulum control, servo motor control, and control trainer kits which are used to give an application oriented view of control systems.

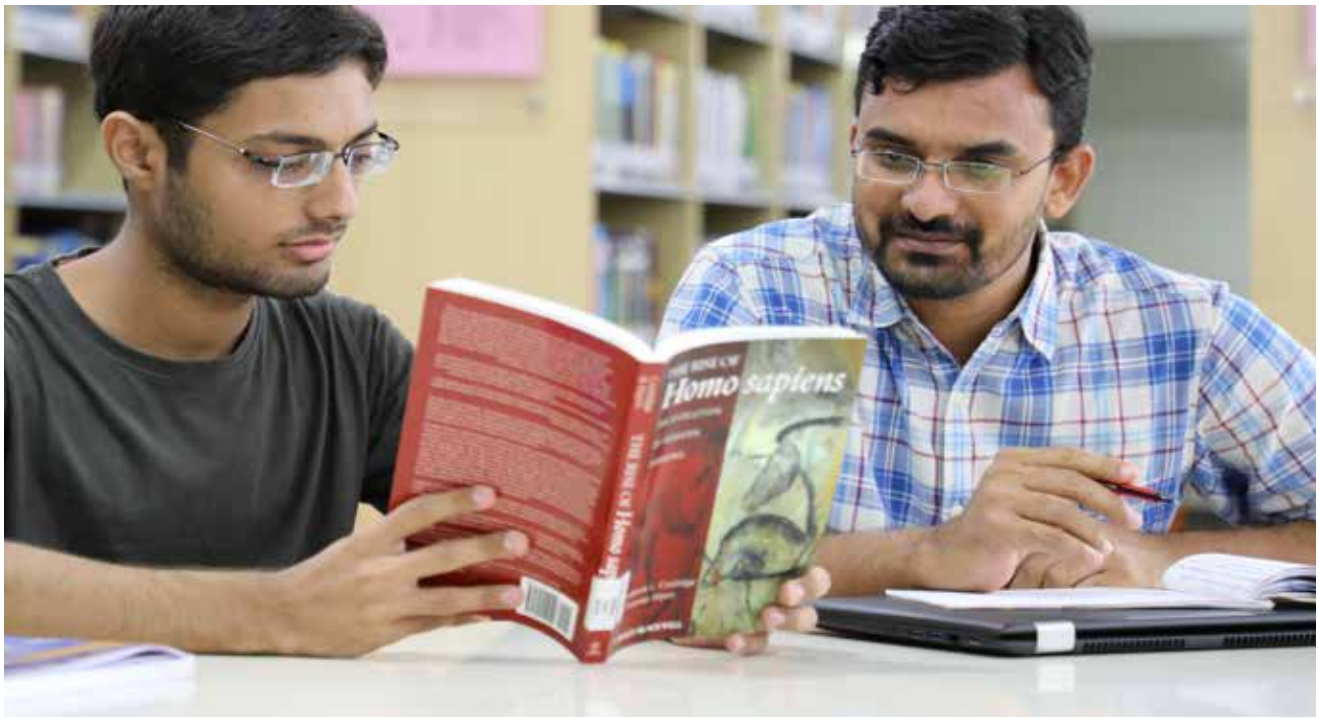
RENEWABLE ENERGY LABORATORY

The motivation behind the Renewable Energy laboratory facility is to provide a broad range of experimental experience to the undergraduate and graduate students in the area of renewable energy. This facility comprises high quality experimental setups in the area of wind, thermal and solar energy. This experimental facility includes thermal energy storage training system, solar concentrator training system, wind energy training system and solar PV training and research system.

PHYSICS

The Physics laboratory is equipped with state-of-the-art equipment for conducting experiments at the undergraduate and postgraduate level. The MSc laboratory consists of eleven experiments covering topics in optics, solid-state physics, spectroscopy, modern physics and electronics. The laboratory has apparatus to study the Hall effect and measurement of energy band gap in semiconductors, interaction of an external magnetic field with electron spins through electron-spin resonance, interaction between the magnetic field and the magnetic dipole moment associated with the orbital angular momentum of electron through Zeeman effect, interferometers like Fabry-Perot and Mach-Zehnder which are used extensively in measurement of wavelength and phase shifts, experiments on lasers include the study of intensity profile of a laser beam and experiments on optical waveguides. The laboratory also offers various experiments on FET, MOSFET, logic gates, operational amplifiers, signal modulation.

The undergraduate physics laboratory has seven experiments covering topics from modern physics, optics and acoustics. In order to encourage students to add some of their own ideas to experiments and find their appropriate scientific interpretations, we have designed the undergraduate laboratory curriculum to develop critical thinking and enhance research aptitude of students. Apart from performing regular experiments in the syllabus, students are advised to pursue short-term projects in groups, under the guidance of the course instructor and the associates. Students come up with proposals based on fundamental principles of physics that are significant either from scientific or technological standpoints. The proposals are expected to have sufficient novelty and are reviewed rigorously by the physics faculties before they are pursued. The approved projects are supported partially by the discipline budget. The students make use of institute workshop, other laboratory facilities and centres outside the physics discipline. This Tinkering Lab exercise ends with an open-to-all poster session at the end of the semester during which, the students get an opportunity to showcase their project to the entire IITGN community, interact and demonstrate their findings to other students and faculties. We have procured several usable small equipment from the discipline budget such as a MiliQ system (dispenses deionized water essential for all synthesis, deposition, sample preparation), Microbalance (precise measurement of chemicals/samples), Infrared thermometer (measurement of temperature without touching the surface), Multimeter, Ultrasonic bath (proper sonication of samples), to facilitate not only the postgraduate and undergraduate labs but also the Tinkering lab and the MSc projects.



LIBRARY

The Library continues to build and expand its collection both in print and digital form, and design and deliver innovative services to support scholarly activity. During the reporting year, the library initiated many important activities and services.

LIBRARY COLLECTION

The Library's collection of research monographs, textbooks, reference books, conference proceedings, CDs, DVDs, etc, has been augmented by the following additions during the year 2017-18.

New collection added as on March 31, 2018

Type of collection	Additions in 2017-18	Total collection
Books	1270	25896
Bound volumes	70	476
Children books	117	1048
Hindi books	12	443
CDs	15	945
DVDs	41	593
Technical reports	0	456
Theses & Dissertations	61	264
Total	1586	30121

During the year, over 66 e-resources were subscribed, out of which 48 were ordered and paid by IITGN library and the remaining 18 resources were ordered and paid by E-Shodh Sindhu (a national consortium for higher education electronic resources). The following three resources have been newly added during the year:

- EOLSS – Encyclopedia Life Support Systems (UNESCO)
- Literary Reference Centre Plus (EBSCO)
- McGraw Hill Access Engineering

CIRCULATION (LENDING) AND INFORMATION SERVICES

CIRCULATION SERVICE

The total number of documents issued to our users during the year was 26303 as compared to 26141 last year.

INFORMATION/REFERENCE SERVICES

Library has been actively promoting references and information services (in person or over the campus network using extensively the library website and Institute email) to its user community.

BOOK EXCHANGE: LEAVE A BOOK - TAKE A BOOK!

The library has initiated a new program i e, Book exchange: Leave a book - Take a book. To facilitate this activity, a small space (dedicated book shelf) in both the libraries has been created.

LIBRARY USER SURVEY

A structured online survey seeking feedback on different aspects of library resources and services was conducted for the outgoing batch of graduating students. The results were analysed and appropriate measures were taken.

MINI-LIBRARY

The library reopened the Mini-Library in the hostel area in August 2017. This library is kept open for 24x7 and has become a popular place among students. A good number

of popular magazines, newspapers and books donated by IITGN community are made available in this library.

RESOURCE SHARING

The library has been taking an active part in availing the benefits of sharing resources with other major libraries (viz. IIMA, IPR, PRL, DA-IICT) in the cities of Ahmedabad and Gandhinagar as well with IITs, NITs, IIMs, IISERs, CSIR Libraries and DELNET member libraries in the country. This is done through Inter-library loan and document delivery services. Through the Inter-library loan service, library borrowed 156 books as compared to 84 books in the previous year and loaned 15 books to other libraries during this period. There is a marked increase in number of books borrowed on loan from other libraries. To meet the ongoing demand, library procured 3673 research articles (as compared to 2563 in the previous year) from other libraries and delivered to faculty and students. Similarly, 368 papers were delivered to other libraries against their requests.

MEMBERSHIPS

ORGANISATIONAL MEMBERSHIP

To avail the benefits of various services, the membership of Development Library Network (DELNET), Ahmedabad Library Network (ADINET) along with ten other library and professional bodies such as ACI, AMS, EUROGRAPHICS, FIB, IAS, IATUL, IBASE, NICEE, SIAM and libraries (British Library and American Library) were renewed.

E-SHODH SINDHU CONSORTIUM (MHRD) MEMBERSHIP

Library continues to be a core member of E-Shodh Sindhu consortium and actively contributed in all meetings held related to subscription to e-resources and had been getting support for accessing 18 core e-resources.

INFORMATION SYSTEMS & TECHNOLOGY FACILITY (ISTF)

The Information Systems & Technology Facility (ISTF) continues to provide user-level services to the IITGN community. The ISTF's state-of-the-art networking infrastructure enables provisioning of information systems and computational facilities to users who live on campus and outside. The IITGN community consists of roughly 1200 end-users including faculty, students and staff. The following is a summary of the key activities undertaken by the ISTF during the last year.

INFORMATION SYSTEMS

The following major tasks have been implemented in the Institute Management System (IMS):

- implementation of pass/fail option and repeating/ substituting process for academic curriculum
- provision to generate transcripts for students
- implementation of the course reaction survey process along with customized reports to gather students' feedback
- sanctioning of GTF/GIF as faculty
- enhanced the PG admission dashboard and DSC panel implementation for PhD students
- IMS page access customization for mobile devices/ tablets
- major R&D related processes namely project initiation and closure, project receipt generation and project staff joining process
- Awards and appraisal for IITGN employees has been conducted successfully via IMS admin processes viz QPAR, Excellence Awards, employee modification and transfer

COMPUTING AND NETWORK

IITGN's new campus at Palaj is well connected through a 10 Gbps high speed optical fiber internal network with 1 Gbps Internet link from National Knowledge Network (NKN). The academic and residential buildings are fully LAN and WiFi enabled. In order to achieve 100% redundancy and zero downtime in internet services, an additional Internet Leased Line (ILL) of 200 Mbps (1:1 dedicated fiber link) from Bharat Sanchar Nigam Limited (BSNL), as well as landlines (Primary Rate Interface (PRI) for 2000 numbers for VoIP services is in operation. Monitoring of the utilization of the bandwidths for both NKN and BSNL connections has become seamless through the use of smart monitoring tools available in the Firewall.

Our campus is protected by a firewall device from Checkpoint that has been commissioned to secure the network from external threats, bots and abusive usage of the network. The firewall device also enables users to connect to campus network through Virtual Private Network (VPN).

The ISTF maintains an extensive software repository for the needs of various disciplines. Some of the most popular software are ANSYS, StarCCM+, Abaqus, Autodesk Inventor, AspenTech, Mathematica, Lab-View, Matlab, Xilinx, Origin, Comsol, Aspentech etc.

The institute also houses VEGA, a High Performance Computing Cluster (HPCC) that enables the users to perform parallel and GPU computing. The institute also has a separate setup powered by two high-end nodes with NVIDIA K20Xm Tesla cards, as part of the NVIDIA CUDA teaching center.

NEW INITIATIVES

ISTF team constantly undertakes various in-house projects to enhance their skill sets and stay up-to-date with the recent technology. The team has successfully completed the following projects:

- procured and configured JIRA and service desk for tracking and resolution of tickets raised through the IMS and monitored by IMS PMO team and eNoah iSolution Pvt Ltd, to calculate the Service Level Agreement (SLA) of each ticket
- procured and installed MATLAB campus license for Total Academic Headcount (TAH) which has all the benefits with respect to all modules, toolboxes free for 3 years. The software can run on Network License Manager and on standalone mode

- implemented a restructured policy on the public email group and mass email rights with effective from July 18, 2017
- published an up to date intercom directory for 2018
- initiated the monitoring of internet bandwidth usage statistics of users, whose actual usage is far more than expected. A Proof-of-Concept (PoC) has been successfully conceived to understand the integration of Active Directory (AD) central login server with the monitoring and management tool (example: Barracuda, 24Online, Trend Micro, Content Keeper etc). It was understood how to implement bandwidth usage quota at the individual user level, selective user group level. It was also checked whether the traffic for both http and https protocol including its logs are getting stored in a way for all such events. The report of all such PoCs has been submitted to the competent authority, through ISTF committee
- Although our central Checkpoint Firewall is self sufficient to protect users and devices from external threats still there were few occasions where the individual user's devices were itself broadcasting bots, malware and thus choking our internal network that resulted in the reduction of overall network throughput. This called for a PoC in order to detect and adopt necessary action for all such internal threats. Using a industry standard tool and running it for 30 days in the internal network, it was found that many users' devices were infected (levels of infection varied) and needs thorough cleaning or reset to factory default (in few cases). The result of the PoC has been submitted to the ISTF committee
- The ISTF generates weekly report for threat prevention from the Checkpoint Firewall and intimates the top malicious hosts or devices to clean their infected devices
- ISTF has migarted a few servers like JIRA, Eduroam services, IMS training and Nagios Server from physical box to virtual environment. This has resulted in improvement of the overall performance, scalability and availability
- A monitoring server called Nagios has been implemented to monitor the IITGN infrastructure. This service provides the intimation over email in case there is any unplanned service outage
- ISTF has initiated complete automation in terms of remote installation of all possible software etc and operating system for the institute computer labs in order to minimise manual work and human intervention

MEDICAL CENTRE

Four qualified doctors are available in the campus from 9:00am - 9:30pm in routine working days. Doctors are available for OPD treatment on weekends. An experienced gynecologist is also available twice a week for OPD. A doctor is also available on campus for any emergency at night. We have empanelled several hospitals in Gandhinagar and Ahmedabad for hospitalization of staff, students and faculty. Hospitalization of all students is covered under a medical insurance policy. A team of two trained male nurses and an assistant nurse is available on a full-time basis to provide first aid and for routine medical services such as checking temperature, blood pressure, blood sugar, oxygen level etc. Other facilities include ECG machine, pulse oximeter, oxygen concentrator, nebulizer, glucometer, otoscope, suction machine, eye check-up facility and 24 hour vehicle facility for patients in case of emergency. The institute has an in-house pharmacy that stocks medicines that are commonly used. A blood collection facility is also available for pathology tests. Four beds are provided for indoor patients. We have fully equipped physiotherapy centre for staff, students and faculties.

PHYSIOTHERAPY CENTRE

A physiotherapist is available at the physiotherapy centre for two hours from 5:30pm - 7:30pm every day except Sunday. The physiotherapy department is well equipped with modern equipment such as electrotherapy machines (shortwave diathermy (SWD), TENS (trans electrical nerve stimulator), IFT (interferential therapy), paraffin wax bath (PWB), muscle stimulator machine, cervical and lumbar traction machine, ultrasound machine, hot and cold packs. The exercise therapy section is equipped with shoulder wheel, wall ladder for frozen shoulder exercises, therabands for strengthening muscles, rope and pulley for shoulder exercise, springs, weights cuffs (sand bags), and physio ball. The following facilities will soon be available: quadricep table, full dumbbells set, tube theraband exerciser, wooden rocker balance board, wrist aupinator-pronator, ankle board with spring, bolsters set, static exercise bicycle, vibrator to improve lower limb blood circulation, handy vibrator. The centre also offers physiotherapy for orthopaedic conditions such as arthritis, tennis elbow and for neurological conditions like sciatica, cervical spondylosis, post-operative and post-fracture physiotherapy management, treatment for sports-related injuries, spinal rehabilitation in postural problems like backache. The patients are also advised about basic exercises and general guidelines for weight management and general well-being.

DAY CARE CENTRE

The IITGN Day Care Centre was started in March 2014 as a community initiative to provide a safe and nurturing environment to the children from IITGN families. Located in one of the housing blocks close to community residences, the child-friendly facility is nothing less than their own beautiful home. A unique feature of the daycare is that unlike most institutes that outsource the job of caring for the children, the daycare centre takes pride in meeting the

needs of the children in-house. Passionate community members who have had some prior experience in child care help with designing the curriculum and facilitating the day-to-day operations. We are proud to have well trained and loving staff members who provide feedback based childcare. The centre is guided by the simple aim of helping in the development of children by engaging them in activities that they enjoy the most. The centre offers unique, non-traditional developmental programs for the children to learn through music, dance, play and exploration. Some of the flagship programs are:

KIDS SUPPORTED AGRICULTURE (KSA): This is the most loved program to date. It lets the kids get their hands dirty and grow their own veggies. Be it ploughing, making scarecrows or simply plucking carrots, the energetic kids are simply unstoppable on the fields

COOKING SESSIONS: A very important activity in a child's day when our expert chefs love putting together sandwiches and decorating cupcakes for dessert

OTHER EVENTS: Besides the above, the centre also hosts pajama parties, movie times, parents date nights, mango and amla picking sessions, festival celebrations and sports day events

The daily routine in the daycare comprises music and movement activities, art and craft sessions, basics of yoga and gymnastics, story time, classroom teaching through play and exploration and also sand and water play sessions. Together these activities hone the children's concentration, imagination, problem solving and motor skills. In summary, the unique curriculum focuses on holistic development to bring out the best in the little children and thereby promote their progress. These activities thus function as vital tools for the development of key physical, social and intellectual skills in the children.

OUTREACH ACTIVITIES

NYASA ACTIVITIES

IIT Gandhinagar continued its strong commitment to underprivileged children welfare through Nyasa. The children of neighborhood migrant workers attend the daily school run by the volunteers and are engaged in several educational activities and general festive celebrations (Republic Day, Independence Day, Diwali, Makar Sankranti, Holi among others). Nyasa held a short summer camp in May 2017 on arts and craft for the students of Basan Primary School and construction workers kids. Unforeseen heavy rains in Ahmedabad in July 2017 created flood-like situation in many parts of the city and Nyasa actively helped provide relief to the slums in low-lying area. Nyasa also held a cradle-making session for the incoming batch of student and later distributed these cradles to five Anganwadis in the neighbouring villages. Nyasa collaborated with the Akshaya Patra Foundation to spread awareness about the importance of cleanliness. Volunteers from Nyasa and Akshaya Patra made demonstration at government schools explaining the importance of being clean. Continuing our tradition, a free health checkup and awareness camp (Sanjeevani) was also conducted on Jan 28, 2018 for the villagers of Palaj and Basan and the grassroots workers at IITGN. This camp benefited about 700 people. This year saw a significant rise in the number of activities along with the impact that the events made on the society around us and we hope to continue this endeavor.

NEEV: IIT GANDHINAGAR COMMUNITY OUTREACH PROGRAMME

NEEV's mission is to empower grassroots communities through workforce development with focus on entrepreneurship and skills training. NEEV helps build a strong bridge with the neighbouring villages reducing the knowledge and communication gaps while sensitizing students to the importance of community engagement. By offering comprehensive training programs aimed at growing employability and entrepreneurship mindset of the surrounding communities, NEEV collaborates with like-minded partners to support sustainable livelihood generation at the grassroots level. **Ms Soumya Harish** is the coordinator of the NEEV programme.

ENTREPRENEURSHIP DEVELOPMENT

NEEV organises entrepreneurship development workshops that include modules on idea generation, market research, negotiation, marketing, cost analysis and financials. NEEV also organises sessions to create awareness about entrepreneurship being a viable avenue to earn a livelihood. iCreate India is the knowledge partner for the workshops and awareness sessions.

The following entrepreneurship development workshops were conducted in 2017-18:

- A 4-day workshop was organised during Apr 12-15, 2017 at IITGN for 19 participants from Palaj village. The lead facilitators were **Mr B R Venkatesh** and **Mrs Tejaswini Venkatesh** from iCreate India. Primary sponsorship for the workshop was provided by The Desai Foundation Trust
- A 5-day workshop was organised during Aug 28-Sep 01, 2017 at IITGN for 32 women from the slum areas of Ramapir No Tekro, Ahmedabad. The lead facilitators were **Mr B R Venkatesh** and **Mr Amit Mere** from MBTLA, Mumbai. Primary sponsorship for the workshop was provided by The Desai Foundation Trust
- A 5-day workshop was organised during Oct 30-Nov 04, 2017 at GLS University and IITGN for 25 students of GLS (J P Shah) BBA, GLS University, Ahmedabad. The lead facilitators were **Mr B R Venkatesh** and **Mr Amit Mere** from MBTLA, Mumbai

The following awareness sessions were conducted in 2017-18:

- An awareness session was organised on Dec 2, 2017 at Jeevantirth Trust, which was attended by 33 women from Ramapir Na Tekro area, Ahmedabad
- Two awareness sessions were organised on Dec 4, 2017 at Pasuniya village, Dehgam attended by 17 participants, and Chamla High School attended by 50 students respectively
- An awareness session was organised on Dec 5, 2017 at Industrial Training Institute, Gandhinagar, which was attended by 109 students
- Two awareness session were organised on Dec 6, 2017 at Industrial Training Institute, Gandhinagar (Mahila), attended by 119 students and Industrial Training Institute, Chandkheda, attended by 86 students respectively
- An awareness session was organised on Feb 20, 2018 at Government Polytechnic, Gandhinagar, which was attended by 76 students

The facilitator for the awareness sessions were **Mr B R Venkatesh** from MBTLA, Mumbai, and **Ms Shraddha Jain** and **Ms Soumya Harish** from NEEV.

SKILL DEVELOPMENT

NEEV conducted a seven-week vocational skills training course at IITGN from May 22 - July 7, 2017 for 21 young men from the local villages. The course included basic skills in trades such as carpentry, wiring, plumbing, and machining. Modules on extra-curricular activities as well as factory visits to local industries were included in the course as well. The lead facilitators were **Mr Babloo Sharma**, **Mr Ramesh Solanki**, **Mr Ramanand Prajapati**, **Mr Palak Bagiya**, **Mr Tushar Brahmbhatt** and **Mr Pragnesh Parekh** from IITGN

- Extra-curricular activity sessions were organised by **Mr Dinesh Parmar**, IITGN. Primary sponsorship for the course was provided by The Desai Foundation Trust
- NEEV facilitated the participation of 8 women from Palaj village in the culinary skills course conducted at International Institute of Hotel Management (IIHM) Ahmedabad in collaboration with FICCI-FLO. The course consisted of eight training sessions organised on saturdays during Sep 23-Dec 02, 2017
- NEEV conducted a pilot course on Basic Spoken English at IITGN from Jan 29-Feb 28, 2017 for 9 participants from local areas. **Ms Suzane Doshi** from Gandhinagar was the trainer for the course

OTHER EVENTS

A village visit was organised on Dec 17, 2017 for the students from Caltech (US), JAIST (Japan), and IIT Gandhinagar participating in the India Ki Khoj programme. The visit was conducted by **Mr Sumesh Ailawadi** from NEEV. Another village visit was organised on Jan 9, 2018 for the team from The New School (US) participating in the Design for a Billion workshop at IIT Gandhinagar. The visit was conducted by **Ms Shradhda Jain** from NEEV.

IITGN INNOVATION AND ENTREPRENEURSHIP CENTRE

IITGN Innovation and Entrepreneurship Centre (IIEC), which is incorporated under the Companies Act, 2013, is fully geared to support the incubation and technology commercialization initiatives of the Institute.

PERMANENT SPACE OF INCUBATION CENTRE: The furnishing of space for incubation centre was completed in October 2017. The space comprises open co-working space and individual office space for startups. The space is equipped with informal interaction spaces, meeting and discussion rooms that are supported by highly reliable IT infrastructure.

ADVISORY COUNCIL OF IIEC AND RESEARCH PARK: The institute constituted an Advisory Council for IIEC and Research Park with **Mr Kris Gopalakrishnan**, co-founder of Infosys Technologies Ltd as its Chairman. The objective of Advisory Council is to guide in setting the strategy and goals, help with networking in attracting mentors for startups and helping us attract resources. The first meeting of the advisory council took place on Feb 16, 2018.

REVIEW MEETINGS: The activities of IIEC were reviewed at a progress review meeting held on May 23 and Aug 10, 2017 which was also attended by **Mr H K Mittal**, Department of Science and Technology, Delhi.

CURRENT INCUBATEES

Think 4Dea Technologies Private Limited (www.4dea.com) started by **Dhyey Shah**, **Eepsit Tiwari, Preet Shah** and **Ankit Pandole**, class of 2015, is a technologically driven start-up in the field of virtual reality and interactive media. It creates virtual walk-throughs of places and events by capturing 360 degree spherical panoramic images. It also provides an information layer which can be used to embed photos, videos and text that can be used to highlight distinctive features in 3D space.

UrbanHunt (www. urbanhunt.in) promoted by **Jinesh Shah** and **Sumit Deshmukh**, class of 2014, is a gamified, micro-reward based engagement platform where brands can run incentivized campaigns to unlock consumer insights and drive peer-powered marketing using comprehensive analytics by collecting shopping preferences and key data at every touchpoint.

Geo-Carte Radar Technology Private Limited (www. geocarte.in), founded by **Silky Agarwal,** class of 2015, works on nondestructive geophysical exploration for sub-surface investigation using ground penetrating radar (GPR).

White Panda (www.whitepanda.in), founded by **Roshan Agarwal**, class of 2017, is a platform through which businesses and individuals can order content, including articles, blogs, press releases, social media posts, web content and product descriptions.

Powency Circuit Private Limited (www.powency.com/)**,** founded by **Sunil Parmar**, MTech, IIT Bombay. Powency's primary goal is to make Power Management Integrated Circuits (PMIC) with higher efficiency. For example, replacing BJT with CMOS in conventional linear regulators, quiescent/operating power can be saved upto 5-30%. The company has been registered in Startup India program.

NOTABLE ACHIEVEMENTS

- Think 4Dea Technologies were among top 10 finalists of the Next Big Idea 2017 (www.nextbigideacontest.com), a pan-India annual startup competition organised by Zone Startup - a Mumbai-based accelerator. They were selected from among around 700 startups. The panel of jury for selection of top startups included industry leaders representing TCS, Capgemini, Accenture, Applyifi.com, Jubilant Life Sciences, Fullerton India, Mphasis and Nudge Foundation. The competition was launched in July 2017, with roadshows across 16 Indian cities where over 1100 entrepreneurs participated in the roadshows even in tier-2 cities such as Jaipur, Vizag, Goa, Pune, Ahmedabad, Indore, Chandigarh,

Coimbatore and Hubballi.

- Geocarte Radar Technology was selected for the grant award for **The Economic Times Power of Ideas 2017 program**. Power of Ideas is one of the India's largest entrepreneurship development program being conducted in partnership by the Economic Times, Facebook, IIM Ahmedabad and the Department of Science and Technology.

TALKS AND PROGRAMS CONDUCTED

- An interactive workshop on **Product Innovation and Smart Manufacturing** was held on Jan 11, 2018. This workshop focused upon the experience and expertise of a diverse group of faculty and scientists involved in product innovation and smart manufacturing. They narrated short stories of innovative products (devices, equipment and software) for medical and manufacturing sectors, developed in an academic setting. The program was attended by over 100 participants. The speakers and panelists include: **Prof Ravi Banavar,** Guest Professor, Mechanical Engineering, IITGN and Head BETiC, IIT Bombay; **Dr A M Kuthe**, Professor and former Head, Mechanical Engineering, VNIT Nagpur; **Dr S Savithri**, Senior Principal Scientist, CSIR-NIIST, Thiruvananthapuram; **Dr Nagahanumaiah**, senior Principal Scientist, CSIR-CMERI, Durgapur
- **Bringing innovations from lab to market** by **Dr Magesh Nandagopal**, Scientist and Technology Commercialization Professional, NCL Innovations, Pune, Aug 16, 2017
- **Business and intellectual property** by **Prof Anurag K Agarwal**, IIM Ahmedabad, Aug 23, 2017
- **Core of an entrepreneur** by **Mr Kiran Deshpande**, Founder and President, Mojo Networks, Sep 8, 2017
- **Mentoring session** by **Mr Sanjay Randhar**, Managing Director, GVFL Ltd, Oct 17, 2017
- A one-day workshop on **Patent system, information and its mining** was conducted by **Dr Arvind Viswanathan**, Director – IP Analytics, was held on Mar 17, 2018 (9 participants from IITGN, others include start-up founders, members from GSBTM, Savli Bioincubator Vadodara, National Productivity Council)

CAPACITY BUILDING

Mr Anand Pandey, Assistant Manager, Commercialization, IITGN attended the Asia-Pacific Forum on Science and Technology Parks Hefei City, Anhui Province, China, Nov 27-29, 2017. The program was organised and funded by UNESCAP.

IIT GANDHINAGAR RESEARCH PARK

The construction and commissioning of Research Park would take about two years and the Institute wished to start the Park activities from the currently available buildings in the academic area. Building 9 of the academic area was made available for Research Park activities. The concept design and layout plans for interiors were finalized to suit the different requirements of the companies. The companies have options to select the office spaces of different sizes to suit their requirements.

IIT Gandhinagar Research Park currently hosts the following companies:

1. Gujarat Urja Vikas Nigam Limited (GUVNL)
2. Finalmile Consultants Pvt Ltd
3. BBC World Services Pvt Ltd
4. Wheels India Niswarth Foundation (WIN)
5. Einfochips

Architectural plan: **M/s Kanvinde Rai & Chowdhury** developed the architectural plan of the Research Park. The buildings are planned on a 1.43 Ha irregular spur shaped site that slopes down to the 10m deep ravines. It is now proposed to build around 19070 sqm which is considered as the buildable capacity of the site. Out of this, about 10,293 sqm will be constructed as fully finished set of buildings and 8777 sqm will be constructed as warm shell structures.

Advisory Council: To effectively pursue our initiatives the institute is constituting an Advisory Council for IIT Gandhinagar Research Park along with IIEC. **Mr Kris Gopalakrishnan**, co-founder Infosys Ltd, Chairs the Advisory Council of the IIT Gandhinagar Research Park and IIT Gandhinagar Innovation and Entrepreneurship Centre. The objective of the council is setting the strategy and goals of the Research Park, helping with networking and thereby getting clients for the Research Park, attracting mentors for startups, funding for the startups or creating a startup fund. The first meeting of the council was held on Feb 16, 2018.

CORPORATE DINNER FOR STAKEHOLDERS

A corporate dinner for stakeholders was organised on Mar 10, 2018 with **Mr Kris Gopalakrishnan**, co-founder Infosys Ltd, Chairman, Advisory Council of the institute's Research Park and the Innovation and Entrepreneurship Centre. The dinner provided an opportunity for feedback and support to undertake extraordinary projects for regional development and for the creation of a cluster innovation.

Progress review meetings: The institute convenes periodic meetings to review the progress made in planning the Research Park. Meetings were held on Jul 26, 2016, May 23, 2017 and Aug 10, 2017 to review the progress made by the institute towards establishing the Research Park and to seek advice on the way forward in terms of plans for construction, process of construction, charges and agreements with companies, funding requirements etc. **Mr H K Mittal**, Advisor, Department of Science and Technology, Government of India attended the meetings and shared his thoughts on various issues.

INTELLECTUAL PROPERTY

During the year 2017-18, a total of 12 invention disclosures were generated by the faculty and students out of which 6 were filed at the Indian Patent Office and 4 invention disclosures are in the process of filing. The patents filed are as follows:

1. Method for the asymmetric synthesis of (s)-paraconic acid: Inventors are **Prof Chandrakumar Appayee** and **Abhijeet Sarkale**
2. Subband feedback cancellation in assistive listening devices: Inventors are **Somanath Pradhan**, **Vinal Patel** and **Prof Nithin George**
3. Flame retardant composition and a process for preparing the same: Inventors are **Prof Kabeer Jasuja** and **Saroj Kumar Das**
4. Phosphate derivatives of myoinositol as ras inhibitors: Inventors are **Prof Sivapriya Kirubakaran**, **Prof Vijay Thiruvenkatam**, **Javeena Hussain**, **Gayathri Purushothaman** and **Siddhant Bhoir**
5. A process for preparing boron based nano-accordions and nano-sheets: Inventors are **Prof Kabeer Jasuja** and **Saroj Kumar Das**
6. A computer implemented system and method for detecting Parkinson's disease: Inventors are **Prof Harish P M** and **Shah Vrutangkumar**
7. US patent application for - Smart eye system for visuomotor dysfunction diagnosis and its operant conditioning claiming priority from earlier filed Indian patent application: Inventors are **Prof Uttama Lahiri**, **Dr Abhijit Das** and **Dr Anirban Dutta**

FACULTY ACTIVITIES

RESEARCH PROJECTS

PROJECTS SANCTIONED DURING 2017-18

Computational pipeline for integrated analysis of large scale NGS data to accurately define genome-wide binding profiles of protein, Department of Biotechnology (DBT). Principal investigator: **Prof Sharmistha Majumdar**, Biological Engineering

Design & prototype demonstration of a CHCP system for scalable building energy use based on methanol powered fuel cell system, Science and Engineering Research Board. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering

Nature in Inter Asia: biodiversity conservation in India, China and Bhutan, sponsored by Social Science Research Council funded by the Andrew W Mellon Foundation (US), Principal investigator: **Prof Ambika Aiyadurai**, Humanities and Social Sciences

Advanced nanotracers for product life cycle assessment and product monitoring, IMPRINT project sponsored by MHRD, Principal investigator: **Prof Superb Misra**, Materials Science and Engineering

Investigation of structure-property performance relations in hierarchical 3-D lattice structures, Science and Engineering Research Board. Principal investigator: **Prof Ravi Sastri Ayyagari**, Mechanical Engineering

Atomistic insight into the structural influences of competitive post-translational modifications; phosphorylation and O-GlcNAcylation, Department of Biotechnology. Principal investigator: **Prof Sairam Swaroop Mallajosyula**, Chemistry

A low-cost, portable, easy-to-use, eye-tracking device integrated with computerized cognitive tests for early diagnosis of Dementia at community level using big-data analytics in cloud under a highly affordable Software-As-A-Service model, Department of Biotechnology. Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering

Tuning oscillatory chemical reactions using metal nanoparticle graphene composites, Science and Engineering Research Board. Principal investigator: **Prof Pratyush Dayal**, Chemical Engineering

A Bayesian approach for CBC parameter reconstruction and tests of general relativity using amplitude-corrected post-newtonian waveforms, Science and Engineering Research Board. Principal investigator: **Prof Anand Sengupta**, Physics

Design of main memory architectures for next generation data center servers, Science and Engineering Research Board. Principal investigator: **Prof Manu Awasthi**, Computer Science and Engineering

Scale-up of diesel autothermal reformer from 5 kWe to 30 kWe for naval applications, IMPRINT project sponsored by MHRD, Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering

Protein disaggregation mechanisms through surface patterning, Science and Engineering Research Board. Principal investigator: **Prof Mithun Radhakrishna**, Chemical Engineering

Evaluation of liquefaction earthquake hazard of Kutch region, Ministry of Earth Sciences (MoES). Principal investigator: **Prof Ajanta Sachan**, Civil Engineering

Detection of partial blockage in a pipe, Science and Engineering Research Board. Principal investigator: **Prof Pranab Kumar Mohapatra**, Civil Engineering

River health analysis of Ramganga river basin – a geomorphologic approach, Centre for Ganga River Basin Management, IIT Kanpur. Principal investigator: **Prof Pranab Kumar Mohapatra**, Civil Engineering

Dynamic properties of confined masonry buildings through ambient and forced vibration testing, Council of Scientific & Industrial Research (CSIR). Principal investigator: **Prof Dhiman Basu**, Civil Engineering

Enhancing shelf life of liquid foods by ultrasound assisted high pressure carbon, Council of Scientific & Industrial Research. Principal investigator: **Prof Sameer V Dalvi**, Chemical Engineering

Immobilisation of Co-Salen complexes on electro-active surfaces and exploring their H2 production reactivity, Shastri Institutional Collaborative Research Grant (SICRG). Principal investigator: **Prof Arnab Dutta**, Chemistry

Nonlinear acoustics of one and two dimensional granular media, Department of Science and Technology (DST). Principal investigator: **Prof Jayaprakash K R**, Mechanical Engineering

Development of new water supply strategies in two major cities of India and Sri Lanka in the context of climate change, rapid urbanization and population growth: a vulnerability assessment approach, Asia Pacific Network. Principal investigator: **Prof Manish Kumar**, Earth Sciences

Development of new water supply strategies for Brahmaputra watersheds of India under climate change regime, Department of Science and Technology (DST). Principal investigator: **Prof Manish Kumar**, Earth Sciences

Effect of oxidation on the magnetic properties of SmCo based permanent magnets, Defence Research and Development Organisation (DRDO). Principal investigator: **Prof Emila Panda**, Materials Science and Engineering

Development of safe and green technology for removal of paint from the surface of the ships for environment-friendly ship recycling, Global Marketing System (GMS). Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering

Extremal partial VC-dimension and fine-grained fold-cut problems, Science and Engineering Research Board. Principal investigator: **Prof Neeldhara Misra**, Computer Science and Engineering

Topology and evolution of black holes in higher curvature gravity, Science and Engineering Research Board. Principal investigator: **Prof Sudipta Sarkar**, Physics

Fabrication and characterization of hybrid organic–inorganic nanocomposite thin films for photovoltaic application resources, Science & Engineering Research Board. Principal investigator: **Prof Rupak Banerjee**, Physics

Development of nanoporous geopolymeric catalysts for industrially relevant liquid-phase reactions, Science & Engineering Research Board. Principal investigator: **Prof Sudhanshu Sharma**, Chemistry

Development of indigenous technology for CZTS (Cu2ZnSnS4) absorber based solar cell using industry friendly magnetron sputtering and RTP (rapid thermal processing) sulfurization process, Science & Engineering Research Board. Principal investigator: **Prof Emila Panda,** Materials Science and Engineering

Regulation of inter-allelic epigenetic differences by CGGBP1-CTCF axis, Department of Biotechnology. Principal investigator: **Prof Umashankar Singh**, Biological Engineering

FIST grant of Rs 2.75 crore (scanning electron microscope with EDS, WDS and EBSD detectors) received to strengthen the post-graduate teaching & research facilities in the Department of Materials Science and Engineering, IITGN

ONGOING RESEARCH PROJECTS

Equipment 300 kN universal testing m/c with accessories sanctioned under DST - Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) program – 2016 presented by **Prof Gaurav Srivastava**, Civil Engineering and **Prof Amit Prashant**, Civil Engineering

Single crystal XRD instrument sanctioned under DST - Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) program – 2016 presented by **Prof Sivapriya Kirubakaran**, Biological Engineering & Chemistry and **Prof Vijay Thiruvenkatam**, Biological Engineering and Physics

Development of a robotic system for gait characterization and performance measurement, Department of Science and Technology. Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering

Towards performance-based earthquake design of unreinforced masonry-infilled reinforced concrete frame structures, Science & Engineering Research Board. Principal investigator: **Prof Manish Kumar**, Civil Engineering

Development of smart, environment friendly and low-cost fire detection and suppression system, Uchchatar Avishkar Yojana. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering

Cost-effective integration of 20-40V n/p LDMOS devices in SCL's 0.18mm CMOS process, Department of Science & Technology. Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering

Molecular mechanisms of kinesin-3 based cargo transport and their implications in human diseases, Department of Biotechnology. Principal investigator: **Prof Virupakshi Soppina**, Biological Engineering

Thermodynamics of black holes: general relativity and beyond, Science & Engineering Research Board. Principal investigator: **Prof Sudipta Sarkar**, Physics

Mechanistic analysis of eukaryotic mobile genetic elements, Science & Engineering Research Board. Principal investigator: **Prof Sharmistha Majumdar**, Biological Engineering

Grobner basis, syzygies and betti numbers of determinantal ideals, Science & Engineering Research Board. Principal investigator: **Prof Indranath Sengupta**, Mathematics

Asymptotic problems for stochastically perturbed switching dynamical systems, Science & Engineering Research Board. Principal investigator: **Prof Chetan Pahlajani**, Mathematics

Geometry of moduli of real parabolic bundles, Science & Engineering Research Board. Principal investigator: **Prof Sanjaykumar Amrutiya**, Mathematics

LHC studies of beyond the standard model physics, Science & Engineering Research Board. Principal investigator: **Prof Baradhwaj Coleppa**, Physics

At the interface of analytic number theory and special functions, Science & Engineering Research Board. Principal investigator: **Prof Atul Abhay Dixit**, Mathematics

Influence of humid environment and high temperature hydrogen exposure on thermo-physical properties of Li2TiO3 and Li4SiO4 pebbles and its formation kinetics through solid-solid reaction, Board of Research & Nuclear Sciences. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering

Regulation of inter-allelic epigenetic differences by CGGBP1-CTCF axis, Science & Engineering Research Board. Principal investigator: **Prof Umashankar Singh**, Biological Engineering

Anti-CGGBP1 adjunct cancer therapy: regional advantage in Gujarat, Gujarat State Biotechnology Mission (GSBTM). Principal investigator: **Prof Umashankar Singh**, Biological Engineering

Singular nonlinear elliptic equations: existence, uniqueness and qualitative questions, Science & Engineering Research Board. Principal investigator: **Prof Jagmohan Tyagi**, Mathematics

Deep analytics of multilayered complex systems: sketching insights from multidimensional time series, Cisco Research Center University. Principal investigator: **Prof Anirban Dasgupta**, Computer Science & Engineering

Biomimetic catalyst design for the cathodic oxygen reduction reaction (ORR) in fuel cell, Science & Engineering Research Board. Principal investigator: **Prof Arnab Dutta**, Chemistry

Developing amino acid containing, bio-inspired cobalt-based electrocatalysts for H2 production under a broader chemical space, Science & Engineering Research Board. Principal investigator: **Prof Arnab Dutta**, Chemistry

Aggregation induced emission in fluorescent materials: design, synthesis and applications, Board of Research & Nuclear Sciences. Principal investigator: **Prof Sriram Gundimeda**, Chemistry

Integration of fuel cells for instrumented surveillance systems: feasibility study and preliminary experimental characterization, Instrumentation Research and Development Establishment. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering

Parameterized methods in bioinformatics, Department of Science & Technology. Principal investigator: **Prof Neeldhara Misra**, Computer Science & Engineering

Towards predictive modeling of oxidation of nanoaluminum particles - A multiscale approach, Science & Engineering Research Board. Principal investigator: **Prof Dilip Srinivas Sundaram**, Mechanical Engineering

Study of lunar geomorphological and impact cratering processes through Chandrayaan-1 data sets, Indian Space Research Organisation. Principal investigator: **Prof Vikrant Jain**, Earth Sciences

Strong electromagnetic fields produced in heavy ion collisions and hot and dense QCD matter, Science & Engineering Research Board. Principal investigator: **Prof Vinod Chandra**, Physics

Investigations on quark-gluon-plasma within the framework of relativistic dissipative hydrodynamics, Department of Science and Technology. Principal investigator: **Prof Vinod Chandra**, Physics

Effective constraint handling for single and multi-objective optimization in Cuckoo search algorithm: application to optimal control problems, Science & Engineering Research Board. Principal investigator: **Prof Nitin Padhiyar**, Chemical Engineering

Reusable and field-deployable nanobiocatalysts for detection of pesticides and herbicides, IMPRINT project, Ministry of Human Resource Development. Principal investigator: **Prof Bhaskar Datta**, Chemistry

Tuning structure and rheology of aggregated suspensions: influence of particle surface, concentration and anisotropic suspending medium, Science & Engineering Research Board. Principal investigator: **Prof Prachi Thareja**, Chemical Engineering

Theoretical and computational investigation of the role of transverse correlations in the thermal response of liquid-on-solid wetting behaviour, Science & Engineering Research Board. Principal investigator: **Prof Kaustubh Rane**, Chemical Engineering

Tethered AMPs for antibacterial surface coatings, Science & Engineering Research Board. Principal investigator: **Prof Abhijit Mishra**, Materials Science and Engineering

Molecular mechanisms of kinesin-3 autoregulation and their biophysical measurements, Science & Engineering Research Board. Principal investigator: **Prof Virupakshi**

Soppina, Biological Engineering

Targeting IMPDH (Inosine Monophosphate Dehydrogenase): developing novel therapeutics for H pylori infection, Science & Engineering Research Board. Principal investigator: **Prof Sivapriya Kirubakaran**, Biological Engineering & Chemistry

Structural investigation of tetraspanin CD151 and laminin-binding integrin α3β1: a possible target for cancer therapy, Science & Engineering Research Board. **Prof Vijay Thiruvenkatam**, Biological Engineering & Physics

Reconnoitering digital image and video history (origin and tampering) using intrinsic signatures, Department of Science & Technology. Principal investigator: **Prof Nitin Khanna**, Electrical Engineering

Understanding the thermodynamics and kinetic factors affecting polymorphism of pharmaceuticals ingredients, Science & Engineering Research Board. Principal investigator: **Prof Sameer Dalvi**, Chemical Engineering

DSIR - Common Research and Technology Development Hub - Chemical processes, Department of Scientific and Industrial Research. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering

Zero-carbon solar-powered hydrogen production via plasmonic nanoantenna enhanced photocatalytic water-splitting, Department of Science & Technology. Principal investigator: **Prof Ravi Hegde**, Electrical Engineering

Development of high voltage (HV) devices for CCD (charge coupled device) clock drivers, Department of Space. Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering

Non-convex optimization techniques for large-scale machine learning problems, Science & Engineering Research Board. Principal investigator: **Prof Dinesh Garg**, Computer Science & Engineering

Fabricating TiO_2-based chemically stable, cost-effective transparent conducting oxide with industrial grade optoelectronic properties: demonstrating its application in thin film solar cell, Science & Engineering Research Board. Principal investigator: **Prof Emila Panda**, Materials Science and Engineering

Nanostructured conducting metal oxides for the electroreduction of CO_2 to make useful products, Science & Engineering Research Board. Principal investigator: **Prof Sudhanshu Sharma**, Chemistry

Real-time concentration measurement of methane, water vapour, carbon dioxide and carbon monoxide in ethanol autothermal reformation, Science & Engineering Research Board. Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering

Development of a fiber-optic sensor network to monitor hazardous gas leaks in industrial plants, Royal Academy of Engineering, UK. Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering

High impact weather events in Eur Asia selected, simulated and storified (HIWAVES3), Ministry of Earth Sciences (MoES). Principal investigator: **Prof Vimal Mishra**, Civil Engineering

Mechanism of kinesin-3 base cargo transport, regulation and their implication in neurodegenerative diseases, Department of Biotechnology. Principal investigator: **Prof Virupakshi Soppina**, Biological Engineering

A survey of aspects of British policies towards school education in Assam, in the nineteenth and early twentieth centuries, Indian Council of Historical Research (ICHR). Principal investigator: **Prof Madhumita Sengupta**, Humanities

Development of cardiovascular disease and diabetes risk assessment model for diverse ethnic Indian population, Department of Biotechnology. Principal investigator: **Prof Malavika Subramanyam**, Social Sciences

Data-Driven intelligent energy management for environmentally sustainable energy access, Department of Science & Technology – UK-India Education and Research Initiative (UKIERI). Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering

Smart integrated campus energy monitoring and management system, Science & Engineering Research Board. Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering

Development of a novel wearable cable-driven exoskeleton for robotic neurorehabilitation, Science & Engineering Research Board. Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering

Development of novel double hydrogen bond donor catalysts for asymmetric Diels-Alder reactions, Department of Science & Technology. Principal investigator: **Prof Chandrakumar Appayee**, Chemistry

Grain boundary structure and transformations, Department of Science & Technology. Principal investigator: **Prof Abhay Raj Singh Gautam**, Materials Science and Engineering

Flow improvement of fine and ultra-fine AP powder through surface modification using flow additives, Defense Research & Development Organisation. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering

Water soluble glycosylated amphiphilic porphyrins: synthesis, photophysical, electrochemical studies and bio-imaging applications, Science & Engineering Research Board. Principal investigator: **Prof Iti Gupta**, Chemistry

Disulfide-rich peptides as scaffold for the development of tau protein aggregation inhibitors in Alzheimer disease, Department of Science & Technology. Principal investigator: **Prof Sharad Gupta**, Biological Engineering

Towards ultra-thin optical wavefront manipulation devices based on all-dielectric high-efficiency transmissive metasurfaces: demonstration of beam focusing and investigation of polychromatic designs, Department of Science & Technology. Principal investigator: **Prof Ravi Hegde**, Electrical Engineering

Printed document security using intrinsic characteristics of imaging devices, Board of Research in Nuclear Sciences. Principal investigator: **Prof Nitin Khanna**, Electrical Engineering

Enhanced single-molecule spectroscopy with tuned dipole antennas of end-to-end dimers of gold nanorods, Science & Engineering Research Board. Principal investigator: **Prof Saumyakanti Khatua**, Chemistry

Bidirectional interaction between perception and motor control, Wellcome Trust - Department of Biotechnology. Principal investigator: **Dr Neeraj Kumar**, Cognitive Science

Integrating robotic gait training system with virtual reality for gait rehabilitation - a novel approach in neurorehabilitation, Department of Science & Technology. Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering

Theoretical investigations of carbohydrate-water interactions, Science & Engineering Research Board. Principal investigator: **Prof Sairam Swaroop Mallajosyula**, Chemistry

Evolution of eukaryotic mobile genetic elements/ transposons, Department of Biotechnology. Principal investigator: **Prof Sharmistha Majumdar**, Biological Engineering

Multi-method approach to evaluate dissolution of engineered nanoparticles in a range of simulated environment for nanosafety, Science & Engineering Research Board. Principal investigator: **Prof Superb Misra**, Materials Science and Engineering

Implications of land cover/land use and climate changes on soil moisture variability in India, Ministry of Environment and Forest. Principal investigator: **Prof Vimal Mishra**, Civil Engineering

Integration of perceptual and value-based decision making: a cognitive & computational approach, Department of Science & Technology. Principal investigator: **Prof Krishna Prasad Miyapuram**, Cognitive Science

Special manpower development project - chips to system design (SMDP-C2SD), DEITY-CEERI - Department of Electronics & Information Technology-Central Electronics Engineering Research Institute. Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering

The neural basis of motor learning, Department of Science & Technology. Principal investigator: **Prof Pratik Mutha**, Biological Engineering

Joint development of low cost automatic triaxial apparatus, AIMIL Ltd. Principal investigator: **Prof Amit Prashant**, Civil Engineering

Extended depth of field imaging using coded camera architecture, Indian Space Research Organisation. Principal investigator: **Prof Shanmuganathan Raman**, Electrical Engineering

Role of predictive mechanisms in attention capture by action, Department of Science & Technology. Principal investigator: **Prof Meera Mary Sunny**, Social Sciences

Theoretical investigation of carbohydrate protein linkages, Department of Science and Technology. Principal investigator: **Prof Sairam Swaroop Mallajosyula**, Chemistry

Heat transfer and visco-plastic flow based model for friction stir welding of copper- YSRA: Young Scientist Research Award, Board of Research in Nuclear Sciences. Principal investigator: **Prof Amit Arora**, Materials Science and Engineering

Process efficiency and stability of auto-thermal reformers in diesel-based marine fuel cell system, Naval Materials Research Laboratory, DRDO laboratory. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering

Synthesizing single-atom thick inorganic nano sheets isomorphous to graphene by developing chemical exfoliation strategies for layered boron-based materials, Department of Science and Technology. Principal investigator: **Prof Kabeer Jasuja**, Chemical Engineering

Developing a fundamental understanding of the Interfacial properties of nanosheets comprising chemically modified boron honeycomb lattice, Department of Science and Technology. Principal investigator: **Prof Kabeer Jasuja**, Chemical Engineering

Optimization and control of household energy in smart grid, Department of Science and Technology. Principal investigator: **Prof Babji Srinivasan**, Chemical Engineering

Design & development of a low-cost binaural hearing aid, Department of Science and Technology. Principal investigator: **Prof Nithin V George**, Electrical Engineering

Post-stroke tele-neurorehabilitation using an operant conditioning paradigm under volitionally driven transcutaneous neuro-muscular electrical stimulation, Department of Science and Technology, and Institute National de Recherche en Informatique et en Automatique

(INRIA) under the Indo-French Programme in Information and Communication Science & Technology (ICST). Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering, IITGN and **Dr Anirban Dutta**, Université Montpellier, France

Measurement to management (m2m): improved water use efficiency and agricultural productivity through experimental sensor network, Media Lab Asia, Ministry of Communications & Information Technology. Principal investigator: **Prof Vimal Mishra**, Civil Engineering

River basin scale hydrological investigation & characterization using variable infiltration capacity (VIC) model, the National Remote Sensing Centre (NRSC), Hyderabad. Principal investigator: **Prof Vimal Mishra**, Civil Engineering

Motor adaptation and skill learning in Parkinson's disease, Science & Engineering Research Board. Principal investigator: **Prof Pratik Mutha**, Biological Engineering

Microstructure studies of self-assembled Cu (In1xGax) Se2 (CIGS) nanodots on ZnO thin film, Council of Scientific and Industrial Research-CSIR. Principal investigator: **Prof Emila Panda**, Materials Science and Engineering

Investigation of object motion categories in dynamic natural scenes and their applications, Department of Science and Technology. Principal investigator: **Prof Shanmuganathan Raman**, Electrical Engineering

CONSULTANCY PROJECTS

PROJECTS SANCTIONED DURING 2017-18

Seismic studies for Barmer to Pali Pipeline Project (BPPL) of M/s GSPL for L&T -GULF Private Limited. Principal investigator: **Prof Sudhir K Jain**, Civil Engineering

Seismic studies on Palanpur – Pali Mundra Pipeline Project of M/s GIGL for L&T - GULF Private Limited. Principal investigator: **Prof Sudhir K Jain**, Civil Engineering

Review and vetting of proposed Suryadhar lake project, Dehradun, Irrigation Department of Uttarakhand. Principal investigator: **Prof Pranab Mohapatra**, Civil Engineering

Mapping of the wild river channels in Uttaranchal region for World Wide Fund for Nature -India, Principal investigator: **Prof Vikrant Jain**, Earth Sciences

Review of hydraulic design of bridge on Panzara river for IL&FS Transportation Networks Ltd. Principal investigator: **Prof Pranab Kumar Mohapatra**, Civil Engineering

Non-destructive subsurface investigation for utility mapping at AMC site for Ahmedabad Municipal Corporation. Principal investigator: **Prof Amit Prashant**, Civil Engineering

GPR investigation of an identified location near Somnath and Prabhas Kshetra for Somnath Trust. Principal investigator: **Prof Amit Prashant**, Civil Engineering

Heat treatment analysis of 6082 extruded aluminium tubes for Siddhi Group. Principal investigator: **Prof Amit Arora**, Materials Science and Engineering

Design verification of 25T and 2T gantry girder and hoist for Techno Industries. Principal investigator: **Prof Gaurav Srivastava**, Civil Engineering

Intra-household empowerment, self-care and wellbeing for EMERGE (Evidence-based Measures of Empowerment for Research on Gender Equity) initiative from the Centre for Gender Equity & Health, University of California, San Diego. Principal investigator: **Prof Tannistha Samanta**, Humanities and Social Sciences

Development of child friendly group hand washing facilities for schools by United Nations Children Fund. Principal investigator: **Mr Franklin Kristi**, Senior Design Associate, Design and Innovation Centre

Seismic safety evaluation of Reserve Bank of India's office building at La-Gajjar-Chambers's, for Reserve Bank of India, Ahmedabad. Principal investigator: **Prof Sudhir K Jain**, Civil Engineering

Addressing soil excavation problem @ WTP project, Dholera for SPML Infra Ltd. Principal investigator: **Prof Amit Prashant**, Civil Engineering

Technology solutions for a safe Rath Yatra in Ahmedabad for Raksha Shakti University. Principal investigator: **Prof Shanmuganathan Raman**, Electrical Engineering

Air temperature and relative humidity, dataset for each district for the period of 1980-2016 at 6-hourly interval for National Dairy Development Board. Principal investigator: **Prof Vimal Mishra**, Civil Engineering

Bridging the innovation gap school program, Principal investigator: **Prof Joycee Mekie**, Electrical Engineering

Metallurgical investigation of cylinder liner, Indian Railways Diesel Loco Shed. Principal investigator: **Prof Superb Misra**, Materials Science and Engineering

Conducting exams for GIL and Gujarat Fibre Grid Network Limited (GFGNL), Gujarat Informatics Limited. Principal investigator: **Prof S P Mehrotra**, Materials Science and Engineering

AWARDS and RECOGNITION

Following faculty members of IITGN received special awards and recognition from external bodies during 2017-18:

PROF AMBIKA AIYADURAI (Anthropology) received the Transregional Research Fellowship from Social Science Research Council funded by the Andrew W Mellon Foundation (US) for a three-country research project entitled **Nature in InterAsia: Biodiversity Conservation in India, China and Bhutan**

PROF TANNISTHA SAMANTA (Social Sciences) received the **Research Award** - Evidence-based Measures of Empowerment for Research on Gender Equality (EMERGE) Initiative from the Center on Gender Equity & Health, UC San Diego, June 2017

PROF KRISHNA KANTI DEY (Physics) received a research grant of CAD 6500 from Shastri Indo-Canadian Institute under Shastri Research Grant (SRG) program 2016-18

PROF VINEET VASHISTA (Mechanical Engineering) received a International Travel Support, from the Science and Engineering Research Board (SERB), Summer 2017

PROF ARUP LAL CHAKRABORTY (Electrical Engineering) **PROF SAUMYAKANTI KHATUA** (Chemistry), **Piue Ghosh and Varsha Thambi,** won a **Best Poster Award** for their paper entitled **Synthesis of gold nanorods with tunable surface plasmon resonance for near-infrared bio-sensing applications** at the IEEE Workshop of Recent Advances in Photonics (WRAP 2017), Hyderabad, Dec 18-19, 2017

PROF SIVAPRIYA KIRUBAKARAN (Biological Engineering) **Siddhant Bhoir**, **Althaf Shaik** received the European Association of Cancer Research Annual Meeting (EACR) Travel Grant from Oxford University, March 2018

PROF SIVAPRIYA KIRUBAKARAN (Biological Engineering), **Javeena Hussain** and **Siddhant Bhoir**, won the **Best Poster Award** at the Indo-German Workshop on Recent Applications of Carbohydrates in Chemistry and Biology (RACCB-2017), IIT BHU, Varanasi, Feb 14-16, 2017

PROF VIJAY THIRUVENKATAM, PROF SIVAPRIYA KIRUBAKARAN (Biological Engineering) **Gayathri Purushothaman**, **Gaurav Sharma**, **R Srimadhav**i and **Sachin Jangra** won the **Best Poster Award** in the ISRAPS discussion meeting on Radiation & Photochemistry: Fundamentals to Applications, Indian Institute of Technology Gandhinagar, Aug 19, 2017

PROF PEDRO POMBO (Anthropology) has been awarded the ASC-IIAS Fellowship 2018 by the Leiden University, Netherlands

PROF KABEER JASUJA (Chemical Engineering) won the People's Choice Award in Nanoartography 2017 competition organised by Drexel University

PROF NARAN M PINDORIYA (Electrical Engineering) has been awarded the **Outstanding Engineer award** by the IEEE Power & Energy Society (PES), Gujarat chapter, in recognition of his scientific/ technical contributions in power systems and smart distribution grid

PROF JOYCEE MEKIE (Electrical Engineering) has been selected for the Young Faculty Research Fellowship under the Visvesvaraya PhD Scheme

PROF PRATYUSH DAYAL (Chemical Engineering), A Agrawal, won the **Third prize for Oral presentation** for their paper titled **Phase behaviour of polymer ionic liquids in presence of external electric field at ICCI 2017,** Pandit Deendayal Petroleum University, Gandhinagar, Aug 30-31, 2017

PROF PRATYUSH DAYAL (Chemical Engineering), **D P J Kumar,** won the **First prize for Oral presentation** for their paper titled **Effect of Ceria-decorated graphene Nanosheets on oscillatory behavior of Belousov-Zhabotinsky (BZ) reaction: An experimental study at RAFTCT 2017,** Nirma University, Gandhinagar, Sep 16, 2017

FACULTY EXCELLENCE AWARDS

The following three faculty members were awarded the Faculty Excellence Awards for the year 2016-17, for their exemplary work in teaching, research and institution building:

Prof Abhijit Mishra, Excellence in Teaching Award
Prof Chinmay Ghoroi, Excellence in Research Award
Prof Pratik Mutha, Excellence in Institution Building Award

HONORARY AND EXTERNAL COMMITTEE WORK

Prof Sanjaykumar Amrutiya, Mathematics
Committee member, Kishore Vaigyanik Protsahan Yojana (KVPY) interview, IIT Gandhinagar, Feb 18-19, 2018

Prof Rupak Banerjee, Physics

- Reviewer for journal: Encyclopedia of Applied Physics, Wiley
- External expert, PhD interview of Physics discipline, IITRAM, Ahmedabad
- Expert, Research Progress Committee at IITRAM, Ahmedabad
- Member, Local Advisory Committee, International Conference on Nanomaterials for Energy Conversion and Storage Applications (NESCA), PDPU, Gandhinagar, Jan 29-31, 2018; National Advisory Committee of National Conference on Emerging Trends in Spectroscopy of Molecules and Materials, IITRAM, Ahmedabad

Prof Sameer Dalvi, Chemical Engineering

- Reviewer, DST project proposal
- Reviewer for international journals: Powder Technology; Chemical Engineering Journal; Ultrasonics Sonochemistry; Carbohydrate Polymers; Crystal Growth and Design; Theranostic; Lab on Chip; Journal of Crystal Growth; Langmuir; CrystEng Comm; Molecular Pharmaceutics; Royal Society Open Science
- Member of Board of studies for Chemical Engineering, GSFC University, Apr 2017
- Expert, Selection of Assistant Professor, Chemical Engineering, GSFC University, Aug 2017
- Advisor, Commission for selection of Technical Advisor (Chemicals) to GOG, GPSC, Feb 2018
- Research Committee member for PhD student (Advisor: Prof Swapnil Dharaskar, Chemical Engineering, PDPU), Feb 2018
- Research Committee member for PhD student (Advisor: Prof Mayur Patel, Institute of Pharmacy, Nirma University), Apr 2018

Prof Michel Danino, Humanities and Social Sciences

- Member, Ministry of Culture's Advisory Committee for the Multidisciplinary Study of the River Saraswati
- Member, Ministry of Culture's Advisory's Expert Committee to evaluate the findings of ongoing excavations at Vadnagar
- Member, Expert Advisory Committee, Indian National Commission for History of Science, INSA (2018-2020)

Prof Krishna Kanti Dey, Physics

- Jury member, Physics challenge at Riverside School, Ahmedabad, Nov 2017

Prof Atul Abhay Dixit, Mathematics

- Member, Editorial Board, Journal of the Ramanujan Mathematical Society

Prof Dinesh Garg, Computer Science and Engineering

- Member, Program Committee: International Conference on Web and Internet Economics (WINE), 2017; ACM Compute- 2017; The European Conference on Machine Learning & Principles and Practice of Knowledge Discovery (ECML-PKDD)- 2017; International Workshop on Parallel and distributed computing for large scale machine learning and big data analytics (ParLearning)- 2017; ACM IKDD Conference on Data Science (CODS), 2018

Prof Nithin V George, Electrical Engineering

- Reviewer for journals: Applied Acoustics (Elsevier); Applied Soft Computing (Elsevier); Circuits, Systems & Signal Processing (Springer); Computers in Biology and Medicine (Elsevier); Digital Signal Processing (Elsevier); Human Technology; IEEE Transactions on Audio, Speech and Language Processing; IEEE Transactions on Circuits and Systems I: Regular Papers; IEEE Transactions on Circuits and Systems II: Express Briefs; IEEE Transactions on Industrial Electronics; IEEE Transactions on Instrumentation and Measurement; IEEE Transactions on Neural Networks and Learning Systems; IET Control Theory and Applications; International Journal of Electronics and Communication (Elsevier); Journal of Sound and Vibration (Elsevier); Mechanical Systems and Signal Processing (Elsevier); Neural Computation (MIT Press); Neurocomputing (Elsevier); Neural Processing Letters (Springer); PLOS One; Signal Processing (Elsevier); Signal, Image and Video Processing (Springer)
- Reviewer for conferences: IEEE Global Conference on Signal and Information Processing (GlobalSIP 2017) Montreal, Quebec, Canada; International Conference on Signal Processing and Communications – 2018 (SPCOM 2018), IISc Bangalore; 26th European Signal Processing Conference (EUSIPCO), Rome, Italy; 24th National Conference on Communications 2018 (NCC 2018), IIT Hyderabad
- Associate Editor, Swarm and Evolutionary Computing (Elsevier)
- Member, Technical Programme Committee:

26th European Signal Processing Conference (EUSIPCO), Rome, Italy; 24th National Conference on Communications 2018 (NCC 2018), IIT Hyderabad; International Conference on Signal Processing and Communications – 2018 (SPCOM 2018), IISc Bangalore; IEEE TENSYMP 2017, Kochi, Kerala; International Conference on Machine Intelligence and Signal Processing 2017 (MISP 2017), IIT Indore

Prof Chinmay Ghoroi, Chemical Engineering
- Guest Editor, Journal of Loss Prevention in the Process Industries
- Member, Board of Studies, Department of Chemical Engineering, Nirma University, Ahmedabad
- External reviewer, MTech thesis, NIT Rourkela

Prof Iti Gupta, Chemistry
- Reviewer for journals: Sensors & Actuators: B Chemical; Chemistry A European Journal; Chemistry An Asian Journal; Chemistry Select; RSC Advances; Journal of Material Sciences; Journal of Chemical Sciences
- External member, PhD Thesis, Gujarat Forensic Science University
- External examiner, PhD Thesis, Chemistry Department, IISER Bhopal
- Reviewer for funded projects of Science & Engineering Research Board (SERB-DST)

Prof Vikrant Jain, Earth Sciences
- Reviewer manuscript for journals: Earth Surface Processes and Landform; Geomorphology; Journal of Hydrology: Regional Studies, Zeitschrift für Geomorphologie (ZFG); Current Science

Prof Sudhir K Jain, Civil Engineering
- Member, Expert Committee, SAARC Disaster Management Centre (SDMC), Gujarat
- Member, Selection-cum-Search Committee for the position of Vice-Chancellor, Banaras Hindu University, Varanasi
- Member, Board of Management, Indrashil University (IU) Dholera, Gujarat
- Chairman, High Level Committee on DTH Operations and Monitoring Group, Department of Higher Education, MHRD, Government of India
- Member, Central Advisory Board of Education, Department of Higher Education, MHRD
- Member of the Board, Science and Engineering Research Board (SERB)
- Member, Board of Management, Building Materials & Technology Promotion Council (BMTPC)
- Member, National Committee on Higher Education, Confederation of Indian Industry (CII)
- Member, Board of Governors; Member, Search Committee for the position of Director General, Institute of Infrastructure, Technology, Research and Management, Maninagar, Ahmedabad
- Member, Board of Governors, Raksha Shakti University, Ahmedabad
- Member, Board of Governors, Pandit Dwarka Prasad Mishra-Indian Institute of Information Technology, Design and Manufacturing (PDPMIIITD&M), Jabalpur
- Member, Board of Governors; Member, Search Committee for the position of Director, Indian Institute of Information Technology Vadodara (IIIT Vadodara)
- Member, Board of Governors, Gujarat Power Engineering and Research Institute (GPERI), Mevad, Mehsana, Gujarat and Gujarat Power Education and Research Foundation (GPERF), Mevad, Mehsana, Gujarat
- Member, Board of Governors; Member, Academic Council; Member, Search Committee for the position of Provost, Anant National University, Ahmedabad
- Member, Search Committee for the position of Provost, Auro University, Surat
- Member, Search Committee for the position of Provost, GSFC University, Vadodara
- Independent Director on the Board, Gujarat International Finance Tec-City Co Ltd, Ahmedabad
- Independent Director on the Board, GIFT-SEZ Ltd, Ahmedabad
- Independent Director on the Board, Gujarat State Petronet Limited (GSPL)
- President, Ahmedabad Chapter, IIT Roorkee Alumni Association

Prof Kabeer Jasuja, Chemical Engineering
- Member, Editorial Board, Scientific Reports (Nature Research Journal)
- Reviewer for international journals: Carbon Journal of Physics D: Applied Physics Scientific Reports Analyst Nanoscale
- Reviewer, project proposals, SERB Early Career and Extra Mural Proposals

Prof Mohan Joshi, Mathematics
- External reviewer, PhD Thesis, IIT Roorkee

Prof Alok Kumar Kanungo, Archaeology
- External examiner, PhD Thesis, Jawaharlal Nehru University, New Delhi
- Panel member, to select the Homi Bhabha Fellows 2017-18; reviewer of proposals

Dr T S Kumbar, Librarian
- Member, 4th National Conference iETD 2017, INFLIBNET 2017
- Member, National Negotiation Committee, e-Shodh Sindhu-Consortium for Higher Education Electronic Resources 2017 (INFLIBNET/MHRD)
- Member, International Association of University Libraries (IATUL), Special Interest Group on Metrics 2017
- Member, Library Advisory Board, Association of Computing Machinery (ACM) USA, 2017
- Corresponding member, Standing Committee, Acquisition and Collection Development, IFLA, Netherlands, 2017
- Chair, Program Committee, National Conference on Role of Academic Libraries for Excellence in Research (ROALER) 2018, IISER Bhopal

Prof Sivapriya Kirubakaran, Chemistry and Biological Engineering

- Reviewer, PhD Thesis, Narsee Monjee Institute of Management Studies (NMIMS), Mumbai University
- Reviewer for journals: Advanced Drug Delivery Reviews: An Elsevier journal; Journal of Chemical Sciences; Journal of Molecular Graphics and Modelling: An Elsevier journal
- Grant reviewer, Early Career Research Award, SERB; Overseas Postdoctoral Fellowship, SERB

Prof Manish Kumar, Earth Sciences

- Co-organised one day symposium on Advances in Civil and Environmental Engineering Practices for Sustainable Development (ACEPS-2018), Sri Lanka, Mar 15, 2018
- Elected as South Asian Convener, IWA Specialist Group, Metals and Related Substances in Drinking Water (METRELS), Feb 2018
- Technical Director, International Seminar on Land and Water Issues in South East Asia, NERIWALM, Tezpur, Assam, Jan 18-20, 2018

Prof Manish Kumar, Civil Engineering

- Session Chair, 24th International Conference on Structural Mechanics in Reactor Technology, Busan, Korea, Aug 2017

Prof Uttama Lahiri, Electrical Engineering

- Reviewer for journals: ACM Transactions on Accessible Computing; Transactions on Autonomous Mental Development; Journal of Medical Imaging and Health Informatics; Journal of Autism and Development Disorder; IEEE Pervasive Computing

Prof Sharmistha Majumdar, Biological Engineering

- Member, Research Consultation Task Force; Executive Committee; Technical Advisory Committee, Gujarat State Biotechnology Mission (GSBTM), Government of Gujarat
- Nodal Officer, IIT Gandhinagar, Vigyan Jyoti initiative of DST

Prof Angus McBlane, Humanities and Social Sciences

- Reviewer, Advisory Editorial board: Language, Literature, and Interdisciplinary Studies
- Reviewer, Journal of Science Fiction and Philosophy

Prof Surya Pratap Mehrotra, Materials Science and Engineering

- Chairman, Research Advisory Council, Jawaharlal Nehru Aluminium Research, Development and Design Centre, Nagpur
- Member, Research Advisory Council, Non-Ferrous Technology Development Centre, Hyderabad
- Member, Projects Evaluation and Review Committee, Ministry of Mines, Govt of India
- Chairman, Monitoring Committee, Ministry of Steel's Chair Professor & Scholarships Scheme, Ministry of Steel, Govt of India
- Chairman, Empowered Board for the R&D, Project on development of microwave assisted iron making process, funded by Ministry of Steel, Govt of India
- Council member, Indian Academy of Engineering
- Member, Fellowship Scrutiny Committee (Engineering Section of Physical Science); National Academy of Sciences; India Member of the Platinum Jubilee Young Scientist Award Committee; National Academy of Sciences, India
- Chaired a technical session on Modelling and simulation, 3rd International Conference on Ironmaking and Steelmaking, IIT Kanpur, Dec 11-13, 2017

Prof Mona G Mehta, Humanities and Social Sciences

- Book manuscript reviewer, Taylor and Francis, Routledge
- Reviewer, Journal of Public Affairs and Change

Prof Joycee Mekie, Electrical Engineering

- Member PhD Committee, Nirma University; Gujarat Technological University
- Masters thesis guide, Gujarat Technological University

Prof Pranab Kumar Mohapatra, Civil Engineering

- External examiner: PhD Thesis, IIT Roorkee, IIT Kharagpur, IIT Guwahati

Prof D V Pai, Mathematics

- Associate editor: Asian European Journal of Mathematics; AEJM, World Scientific Publishers
- Reviewer, Mathematics Reviews; MR; AMS Reviewer; Project Proposal, SERB

Prof Naran M Pindoriya, Electrical Engineering

- Member, Research Advisory Committee, Electrical Research and Development Association (ERDA), Vadodara
- Member, Technical Committee, IEEE 7th International Conference on Power Systems, 2017 (ICPS 2017), Pune, Dec 21-23, 2017
- Member, Technical Program Committee, International workshop on Communication Applications in Smart Grid, Oxford, Great Britain, Sep 14–15, 2017
- Reviewer for journals: Applied Energy; Journal of Energy Storage; CSEE Journal of Power and Energy Systems
- Editorial Board member, International Transactions on Electrical Energy Systems

Prof Amit Prashant, Civil Engineering

- Member, Earthquake Engineering Sectional Committee CED 39; Bureau of Indian Standards

Prof Shanmuganathan Raman, Electrical Engineering and Computer Science and Engineering

- Area Chair, 2nd International Conference on Computer Vision and Image Processing (CVIP), IIT Roorkee, 2017
- Member, Technical Programme Committee, 6th National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG), IIT Mandi,

2017; 24th National Conference on Communications (NCC), IIT Hyderabad, 2018
- Reviewer for journals: IEEE Transactions on Signal Processing; IEEE Signal Processing Letters; IEEE Transactions on Multimedia; Pattern Recognition Letters; IET Computer Vision; IEEE Sensors Letters; Information Fusion
- Reviewer for grants: SERB-DST EMR, SERB-DST ECR

Prof Tannistha Samanta, Humanities and Social Sciences
- Reviewer, Social Science & Medicine
- Reviewer, Genus: Journal of Population Sciences
- External examiner, PhD Qualifying Exam, Faculty of Planning Centre for Planning & Technology (CEPT) University
- Member, Dissertation Advisory Committee, CEPT University
- External reviewer, Masters program in Public Health, Indian Institute of Public Health, Gandhinagar, Jan 9, 2018

Prof Indranath Sengupta, Mathematics
- Member, Board of Studies of the Department of Mathematics, The North Eastern Hill University (NEHU), Shillong

Prof Dilip Srinivas Sundaram, Mechanical Engineering
- Reviewer for journals: Combustion and Flame; Hazardous Materials; Propulsion and Power; Ain Shams Engineering

Prof Vineet Vashista, Mechanical Engineering
- Reviewer for journals: EMB Transactions on Neural Systems and Rehabilitation Engineering; IEEE Robotics and Automation Letters (RA-L); Elsevier Mechanism and Machine Theory; Sadhana Academy Proceedings in Engineering Sciences; Indian Academy of Sciences; Elsevier Robotics and Computer Integrated Manufacturing
- Reviewer for conferences: IEEE International Conference on Robotics and Automation (ICRA); IEEE International Conference on Biomedical Robotics and Biomechatronics (Biorob); IEEE Conference on Rehabilitation Robotics (ICORR); IEEE International Conference on Intelligent Robots and Systems (IROS)
- Guest editor, special collection on Collaborative and Controllable Robotics for Biomedical and Industrial Applications. The Special Collection will be published in Advances in Mechanical Engineering, a SAGE Publishing journal

ACADEMIC LECTURES

In keeping with its goal of promoting a vibrant academic culture, the institute encourages its faculty to deliver academic lectures on cutting-edge research in India and abroad. The lectures delivered by various faculty members are as follows:

Prof Ambika Aiyadurai delivered invited lectures on **Biodiversity conservation in India, China and Bhutan**, SSRC Fellows Meet, Chiang Mai, Jul 18-21, 2017; **Introduction to social science research in conservation**, Society for Conservation Biology meeting, Amity Institute of Wildlife Science and Forestry, Noida, Mar 18-19, 2018; **Environment and development in India**: **issues and challenges**, Akshaya Patra Foundation, Ahmedabad, Jun 2017.

Prof Sanjaykumar Amrutiya delivered series of lectures on **Fibered categories in a focused meeting on the theory of stacks in algebraic geometry**, Harish-Chandra Research Institute, Jun 1- Jul 9, 2017.

Prof Chandrakumar Appayee delivered series of lectures on **Role of organocatalysts in asymmetric synthesis**, pre-conference Workshop on Introduction to Asymmetric Synthesis at the Department of Chemistry, Faculty of Science, Maharaja Sayajirao University of Baroda, Vadodara, Nov 9, 2017; **Highly regioselective alkylation using organocatalysis**, National Conference on Chirality (NCC-2015), Department of Chemistry, Faculty of Science Maharaja Sayajirao University of Baroda, Vadodara, Nov 11, 2017; **Asymmetric organocatalysis for highly regioselective g-alkylation and short syntheses of (S)-paraconic acid and IM-2**, Symposium on Contemporary Facets in Organic Synthesis 2017 (CFOS-17), IIT Roorkee, Dec 23, 2017.

Prof Rupak Banerjee delivered invited lectures on **Harnessing renewable energy sources**: **organic photovoltaic at the FLIGHT (Future Leaders for Inclusive Growth & Human Transformation) 2017**, Akshaya Patra Foundation, Ahmedabad, Jun 9, 2017; **Surface and interface including liquid interfaces** at the discussion meeting on Synchrotron Techniques, Saha Institute of Nuclear Physics, West Bengal, Dec 13-15, 2017; **Phase transitions in amphiphilic layers of silsesquioxanes molecules at the air-water interface**, Indo-US discussion meeting on Surfaces and Interfaces, Saha Institute of Nuclear Physics, West Bengal, Jan 2-4, 2018; **Tailoring length-scales of the phase separation in binary mixtures of organic semiconductors films**, International Conference on Nano-materials for Energy Conversion and Storage Applications, Pandit Deendayal Petroleum University, Gandhinagar, Jan 29–31, 2018; **Organic photovoltaic**: **growth and characterization**, National Conference on Recent trends in Materials Science, MS University, Baroda, Vadodara, Mar 24- 25, 2018.

Prof Svetlana Brzev delivered an invited talk on **Earthquake-resistant masonry shear walls: key concepts and research studies**, Nirma University, Ahmedabad, Feb 16, 2018.

Prof Michel Danino gave invited lectures on **Rethinking education in india**, Policy Boot Camp organised by Vision India Foundation, Jindal Global University, Sonipat, Jun 15, 2017; **How can ancient India help today's India**? Third C V Sundaram Memorial Lecture, National Institute of Advanced Studies, Bengaluru, Jun 28, 2017; **Business and culture**, Centenary celebrations of L L Narayan, founder of the Rane Group, Chennai, Oct 6, 2017; **The Sarasvati river: issues and debates**, seminar on The Saraswati the Lost River, INSA and Asiatic Society, Kolkata, Oct 12,

2017; **Introduction to the history of science in ancient India**, five lectures at a workshop (jointly with Prof K Ramasubramanian and Prof Clemency Montelle): **An overview of science in India**; **Harappan roots of some of Indian science systems**; **Concepts of zero and infinity in Indian astronomy and mathematics**; **Science in ancient India: cultural interactions**; and **Concluding thoughts on Indian science**, IIT Kharagpur, Oct 13–15, 2017; **Harappan town planning: sacred ratios and linear measures**, paper presented at IAS-ISPQS Conference, Banaras Hindu University, Nov 4-6, 2017; **India's cross-cultural exchanges in mathematics and astronomy**, paper presented at International Conference on Exploring the History of Indian Mathematics, IIT Gandhinagar, Dec 4-6, 2017; **Fabricating evidence in support of the Aryan invasion / migration theory**, paper presented at National conference on Indian History: Emerging Perspectives, Indian Council of Historical Research, Delhi, Mar 5–7, 2018.

Prof Pratyush Dayal gave talks on **Start-early PhD and early-admit MTech programs**, at NIT Raipur, Sep 19, 2017 and NIT Rourkela, Sep 20, 2017.

Prof Atul Dixit delivered lectures on **A generalized modified Bessel function and a higher level analogue of the general theta transformation formula**, Number Theory seminar, University of Illinois, Urbana-Champaign, USA, Jun 20, 2017; **A generalized modified Bessel function and a higher level analogue of the general theta transformation formula**, Seminar Talk, Harish-Chandra Research Institute, Allahabad, Jul 3, 2017; **Monotonicity and convexity of quotients of theta functions**, Akshaya Patra Foundation, Bhadaj, Gujarat, Jul 5, 2017; **Transformations involving rk(n) and Bessel functions,** International conference on Class Groups of Number Fields & Related Topics, Harish-Chandra Research Institute, Allahabad, Sep 4-7, 2017; **Modular-type transformations and integrals involving the Riemann Ξ-function,** 28th Hansraj Gupta Memorial Award Lecture, 83rd Annual Conference of the Indian Mathematical Society, Sri Venkateswara University, Tirupati, Dec 13, 2017; **On a new generalization of Ramanujan's formula for ζ(2m+1) and its implications,** Number Theory: Arithmetic, Diophantine and Transcendence, celebrating 130th birth anniversary of Srinivasa Ramanujan, IIT Ropar, Dec 22-25, 2017.

Prof Arnab Dutta gave invited lectures on **Incorporating bio-inspired outer coordination sphere components to induce H2 production in co-salen complexes**, Max-Planck Institute, Center for Energy Conversion, Mulheim, Germany, Jun 13-14, 2017; **Reversibility in molecular complexes requires components from enzymes**, Telluride Science Research Center Workshop (TSRC), Telluride, Colorado, USA, Aug 7-11, 2017; **Bio-inspired catalyst design for H2 production**, 54th Annual Convention of Chemists, Indian Chemical Society, Surat, Dec 23-25, 2017.

Prof Dinesh Garg delivered invited talks on **Latent space embedding for QA retrieval**, Mini Symposium on Big Data and Large Scale computing, ISI Delhi, Dec 27, 2017; **Market equilibria**, Workshop on Artificial intelligence for social good, IISc Bangalore, Apr 17, 2017; **Auction design for online advertising**, QIP Course on Game Theory and Mechanism Design, IISc Bangalore, Apr 13, 2017.

Prof Nithin V George delivered invited lectures on **Introduction to fuzzy logic** at short term training programme on Data Mining and Soft Computing: Tools and Techniques, G H Patel College of Engineering, Anand, Gujarat, Dec 23, 2017; **Design of real-time fuzzy logic control systems** at two-week faculty development programme on Advanced Optimization Techniques, Malaviya National Institute of Technology, Jaipur, Oct 9, 2017; **Alpha to delta of digital signal processing**, Rajiv Gandhi Institute of Technology, Kottayam, Kerala, Oct 3, 2017; **Audio signal processing**, Centre for Audio, Acoustics and Vibration, University of Technology Sydney, Australia, Jul 18, 2017.

Prof Arup Lal Chakraborty delivered an invited talk titled **Environmental monitoring and bio-sensing applications of tunable diode laser spectroscopy**, 3rd IEEE Workshop on Recent Progress in Photonics (WRAP 2017), Mahindra Ecole Centrale (MEC), Hyderabad, 18-19 Dec 2017

Prof Chinmay Ghoroi delivered invited talks on **Nano-scale surface roughness and its distribution for designing super-hydrophobic and super-hydrophilic on micron-scale particles**, Workshop on Complex Fluid, CompFlue 2017, IIT Madras, Dec 18, 2017; **Research in India for India**, 9th Annual Fire Safety Council Meeting of Underwriters Laboratories, Ahmedabad, Dec 18, 2018; **Nano-formulation for controlled for effective drug delivery**, Workshop in Institute of Pharmacy, Nirma University, Ahmedabad, Sep 16, 2017.

Prof Iti Gupta delivered an invited talk on **BODIPYs and Aza-BODIPYs: synthesis and applications,** Modern Trends in Inorganic Chemistry (MTIC-XVII), NCL Pune, Dec 11-14, 2017.

Prof Vikrant Jain delivered invited lectures on **Exploring a fundamental and unified concept in fluvial geomorphology and its applications**, National Conclave on Brahmaputra River Basin, Gauhati University, Guwahati, Feb 12-13, 2018; **Remote sensing for geomorphic and structural analysis**, Workshop on Remote Sensing and Geomatics in Hydrocarbon Exploration, KDMIPE, ONGC, Dehradun, Oct 6, 2017; **Challenges in the geomorphic management of a river system in response to urbanization expansion around a mega city: case study from Yamuna river around Delhi NCR**, International Symposium on Sustainable Urban Environment (ISSUE) 2017, Department of Environmental Science, Tezpur University, Assam, Jun 23-24, 2017.

Prof Kabeer Jasuja delivered invited lectures on **Nanoscaling layered metal diborides to synthesize boron analogs of graphene**, Japan Advanced Institute of Science and Technology, Ishikawa, Japan, Mar 5, 2018; **Stable colloids of boron rich nanodots**, **nanodiscs**, **nanorods**, **and nanosheets as processable dispersions for developing**

boron based slurry, Workshop on High Density (JP 10) High Energy (Boron Based) Slurry Fuel for Gas Turbine Engines, Gas Turbine Research Establishment (GTRE), DRDO, Bangalore, Aug 30-31, 2017.

Prof Shivakumar Jolad delivered invited lectures on **Emptying of government schools challenges of small schools and school consolidation**, IIM Indore, Dec 13, 2017; **Evidence-based research in public policy: problem identification**, Seminar on Research to Inform Policy: Report writing, Directorate of Economics and Statistics, Gandhinagar, Gujarat, Aug 19, 2017; **Shrinking government schools - small schools and implications on access, equity and efficiency in Karnataka**, Akshara Foundation, Bangalore, Jul 7, 2017; **Strengthening schooling system under RTE**, National Discussion Meet on Implementation of RTE Act Status, Issues and Challenges, NLSIU, Bangalore, Mar 28, 2018.

Prof Mohan Joshi delivered series of lectures at the National Workshop on **Nonlinear Functional Analysis**, Graphic Era University, Dehradun, Feb 19-24, 2018.

Prof Sudhir K Jain delivered an invited talk on **Recovery opportunity Building regulation and standards for long-term resilience** at the World Reconstruction Conference 3 on Promoting Resilience through post-crisis recovery, Brussels, Belgium, Jun 6, 2017. Prof Jain also delivered a talk on **Earthquake safety and the Indian subcontinent** at the SAARC Disaster Management Centre, GIDM Gandhinagar for participants from the various SAARC Countries, Sep 20, 2017.

Prof Alok Kumar Kanungo delivered an invited lecture on **Ocean and the Nagas**, University of Kerala, Thiruvananthapuram, Feb 9, 2018.

Dr T S Kumbar presented paper on **Predatory publishing: what librarians need to know and do?** at the National Conference on Role of Academic Libraries for Excellence in Research (ROALER) 2018, IISER Bhopal, Jan 18-20, 2018; **Chemical education in India: transformation through ages** (with Neelam Bharti University of Florida), 255th ACS National Meeting & Exposition, New Orleans, LA USA, Mar 17-22, 2018; Dr Kumbar also delivered invited lectures on **E-Resource management life cycle,** in training programme on E-resources Management organised by INFLIBNET, Jun 14, 2017; **Use of library and scholarly resources for teaching, learning & research**, Research Orientation Programme (ROP 2017) organised by Academic Development and Research (ADR) Cell, Nirma University, Jun 15, 2017; Panel discussion on **Resource sharing and fair use by libraries**, in J-Gate Ess Forum and ILL Centres Meet, INFLIBNET Centre, Gandhinagar, Aug 30, 2017; ETD programs/projects at International level: an overview, 4th National Conference iETD 2017 on Re-envisaging iETDs: roles and responsibilities, INFLIBNET Centre, Gandhinagar, Dec 13-14, 2017.

Prof Manish Kumar (Earth Sciences) gave an oral presentation on **Comparative understanding of arsenic enrichment and mobilization in the aquifers of the river Ganges and Brahmaputra: a provenance, prevalence and health perspective,** Geological Society of America (GSA), Annual Meeting in Seattle, Washington, USA, 2017. He also presented a paper at the National Workshop on **Water conservation and related issues**, organised by Central Ground Water Board (CGWB), West Central Region, Nov 15, 2017.

Prof Sivapriya Kirubakaran delivered invited lectures on **Orientation program for summer interns,** Lilavati Eye Research Center, Ahmedabad, May 17, 2017; **Orientation program for masters students,** Institute of Science, Nirma University, Ahmedabad, Jun 5, 2017; Indian Academy of Science refresher course funded by Academies of India (IAS, NAS) Aruppukotai, Tamilnadu, Nov 13-16, 2017; National Conference on **Contemporary organic synthesis,** CFOS-2017, IIT Roorkee, Dec 22, 2018. Prof Kirubakaran also delivered a keynote lecture on **DDR Kinases: targeted therapy for cancer,** International Conference, Nipicon 2018, Nirma University, Jan 24, 2018; **Convergence of pharmaceutical sciences and biomedical technology,** NIPER Ahmedabad, Mar 22, 2018.

Prof Manish Kumar gave an invited lecture on **Seismic isolation of NPPs using sliding bearings,** Indo-US workshop on Current Practices and Emerging Challenges in Seismic Risk Analysis and Design of Nuclear Facilities, IIT Bombay, Feb 14, 2018.

Prof Manish Kumar was a keynote speaker on **Climate change reproduction by global climate model using models CSIRO-Mk and MIROC5: a case study of Brahmaputra river watershed**, ACEPS-2018, University of Ruhuna, Sri Lanka, Mar 15, 2018; Special RECWET guest lecture on **Water quality issues of the tropical river watershed in the context of climate change, urbanization and population growth: A microcosmic perspective of the Brahmaputra River**, University of Tokyo, Japan, Jan 23, 2018. Prof Kumar also gave invited talks at the International Seminar on **Metal pathways though land and water with special emphasis on geogenic contaminants**, NERIWALM, Tezpur Assam, Jan 18-20, 2018; **Metals in the environment: fate and transport**, Department of Environmental Science, Tezpur University, Oct 4, 2017.

Prof Uttama Lahiri delivered a talk on **Technology-assisted platforms for autism intervention** at Eminence expert speech session held by Government of Gujarat, Ahmedabad, Feb 21, 2018.

Prof Sharmistha Majumdar delivered a lecture on **Evolution of eukaryotic mobile genetic elements/ transposons,** 7th Ramalingaswami Conclave at Imphal, Manipur, Aug 30, 2017.

Prof Angus McBlane delivered invited talks on **Posthumanism and cinema**, Central University of Gujarat, Gandhinagar, Apr 4, 2017; **Posthumanism and Posthumanist philosophy**, Manipal Centre for Humanities and Philosophy, Manipal University, Manipal, Karnataka, Oct 4, 2017; **Posthumanism as method: interrogation, expression, and embodiment in posthumanist philosophy, 401 years after Shakespeare: shifting paradigms from the Shakespearean human to the post-human**, The Heritage College and Shakespeare Society of Eastern India, Calcutta, Nov 24-25, 2017; **Intertwining phenomenology and Cārvāka/ Lokāyata: exploring the viability of posthumanism as method for global philosophy**, **creating a philosophy for the future**, University of Macau, China, Nov 16-18, 2017.

Prof Surya Pratap Mehrotra delivered a keynote lecture on **Processing of low grade iron ores and their effective usage for ironmaking represented indian viewpoint** in the panel discussion on Education of Ferrous Process Metallurgy: Present and Future, International Conference, IIT Kanpur, Dec 11-13, 2017.

Prof Mona Mehta delivered an invited talk on **The neoliberal urban mirage: ironies of middle class co-option and collaboration**, National Seminar on Urban Marginality, Social Policy and Education in India, National Institute of Educational Planning and Administration, New Delhi, Feb 12-13, 2018.

Prof Pranab Kumar Mohapatra gave invited lectures on **Transients in open channels**, NIT Warangal, Mar 21, 2018; **River health, dam break flow**, NIT Silchar, Feb 14-15, 2018; **A smart sensor for hydraulic measurements**, Parul International Conference on Engineering & Technology, Feb 17, 2018; **Sustainable hydraulic measurements for intelligent water management**, International Conference on Sustainable Technologies for Intelligent Water Management, IIT Roorkee, Feb 18, 2018; **Introduction to open channel flow**, Nirma University, Feb 23, 2018; **Flood plain zoning,** Gujarat Institute of Disaster Management, Jan 23, 2018; **Laboratory measurements in hydraulics**, HYDRO 2017, L D Engineering College, Ahmedabad, Dec 23, 2017.

Prof D V Pai delivered an invited talk on **Viscosity approximation method for minimization and fixed point problems**, Symposium on Nonlinear Analysis in honor of Prof P Veeramani on his superannuation, Department of Mathematics, IIT Madras, Mar 30, 2018.

Prof Naran M Pindoriya delivered series of invited talks on **Smart grid in India: path towards efficient and environmentally sustainable electricity access**; **Short-term Forecasting for optimal generation scheduling and demand management**, Newton-Bhabha training school, NIT Surathkal, Karnataka, Feb 16, 2018; **Forecasting in electricity markets**; **ancillary services in electricity markets**, in short-term course on Power System Economics being organised at IIT Kanpur, Noida Extension Center, Dec 13-17, 2017. Prof Pindoriya also delivered invited lectures on **Smart Grid and short-term Forecasting in Energy Management**, Newton-Bhabha workshop on Sustainability of energy systems through smart grid and renewable energy integration, Charusat University, Dec 12-13, 2017; **Smart distribution grid in India**: **a path toward efficient and environmentally sustainable electricity**, National workshop on Multidimensional Smart Energy Grids Analysis, IIT Mandi, Jun 10, 2017.

Prof Pedro Pombo was invited speaker on **Troubling the tide: visual cartographies of mobilities in the Indian Ocean**, International Conference on **Order/Disorder in Asia: Historical Perspectives,** Asiatic Society, Kolkata, Jan 3-4, 2018; International workshop on **Well-Being and social welfare in 21st century India,** TISS Mumbai and University of Sydney, TISS Mumbai, Mumbai, Feb 12, 2018. Prof Pombo gave a guest lecture on **The water and the stone: maritime urbanities, heritage and memory in an Indian island,** Faculty of Planning Public Talks, CEPT, Ahmedabad, Mar 8, 2017; Conference Internationale de L'Observatoire des Societes de l'Ocean Indien, University of Reunion, Nov 23-24, 2017; **Unbounded Heritage: recognizing cartographies of circulation and fluidity in the Indian Ocean**, International seminar on Ending Indenture: Comparative Perspectives 1875-1038, University of Mauritius, Oct 2-4, 2017; **Lines, images and objects: anthropology, art and performing identities in contemporary India**, ICAS 2017, International Conference of Asian Scholars, Chiang Mai, Jul 20-23, 2017; Panel co-convenor, **Africa and the city, Constrained urbanisation through forced displacement**, 7th European Conference on African Studies ECAS 2017, Basel, Jun 29–Jul 1, 2017; Panel co-convenor, **Practices of defiance: resisting colonial maritime power**, III CHAM International Conference on Oceans and Shores: Heritage, People and Environment, Lisbon, Jul 12-15, 2017; **Weaving networks: The economic decline of Diu and maritime circulations of the vanza community**, III CHAM International Conference Oceans and Shores: Heritage, People and Environment, Lisbon, Jul 12-15, 2017.

Prof Amit Prashant delivered invited lectures on **Slope stability and soil nailing**, special course on Railway Formation and Geotech Investigation, IRICEN, Pune, Sep 1, 2017; **Piled raft foundations** in one day National Seminar on Advances in Geotechnical Engineering (AGE 2017), SVNIT, Surat, Nov 4, 2017; **Dynamic soil properties and geophysical site investigation: seismic methods** in one day National Seminar on Conceptual Soil Mechanics at SVNIT, Surat, Feb 3, 2018; **Geotechnical investigations and sampling and conventional field testing methods and issues** in short term course on Geotechnical Investigation & Ground Improvement- Aspects and Prospects, JKLU, Jaipur, Feb 19, 2018; **Introduction to soil dynamics and dynamic soil properties in STTP** on Geotechnical Investigations for Infrastructure Development, IITRAM, Ahmedabad, Mar 21, 2018. Prof Prashant also gave lectures on three-day short course on **Infrastructure development with geosynthetics**, IITGN, Jun 26-29, 2017; **Geotechnical investigation for structural engineering,** IITGN, Oct 12-14, 2017.

Prof Mithun Radhakrishna gave invited lectures on

Understanding how local charge correlations drive phase behavior and self assembly of polymer coacervates, TIFR Center for Interdisciplinary Sciences, May 4, 2017; **Polymer coacervates - phase behavior and self assembly**, NCL Pune, Sep 27, 2017: **Utilizing charge correlations to design polymeric materials**, JAIST Japan-India Symposium on Materials Science 2018, Japan, Mar 5, 2018.

Prof Shanmuganathan Raman delivered invited talks on **Random forests for computational photography in STTP on signal processing and artificial intelligence**, Nirma University, Jul 4, 2017; **Career guidance and opportunities available for STEM**, Grand Education Fair, Ahmedabad, Jun 14, 2017.

Prof Tannistha Samanta delivered an invited talk on **Population aging: perspectives & prospects**, Sardar Patel Institute of Economic & Social Research, Ahmedabad, Mar 22, 2018.

Prof Indranath Sengupta delivered invited lectures on **Computation of primary decomposition of ideals**, National Conference on Algebra, Analysis and Number Theory, North Maharashtra University, Jalgaon, Jan 13-14, 2018; **Applications of gröbner basis: elimination theory; Resource person in the instructional school on gröbner bases and their applications (NCM activity)**, IIIT Delhi, Dec11-23, 2017; **A Gröbner basis method to compute primary decomposition of certain determinantal ideals** in CAAG 2017, IISER, Pune, Dec 5-8, 2017; **Lüroth's theorem and rational parametrization**, NEHU, Shillong, Sep 5, 2017.

Prof Madhumita Sengupta delivered an invited talk on **Historical methodology in the context of reading the archive and textual sources for understanding and interpreting the past**, Workshop on **Capacity Building in Research Methodology**, jointly organised by the Indian Council of Social Science Research, and the Gujarat Institute of Development Research (GIDR), Ahmedabad, Mar 5-14, 2018.

Prof Gaurav Srivastava delivered invited talks on **Fire safety of combustible building facades**, Hyderabad, Jun 23, 2017; **Fire safety of combustible building facades**, Chennai, May 12, 2017.

Prof Babji Srinivasan delivered a guest lecture on **Intelligent power management systems for armored fighting vehicles**, CVRDE, Aavadi, Feb 23, 2018.

Prof Madhu Vadali delivered an invited lecture on **Mechatronics**, Mahindra Research Valley, Chennai, Dec 27, 2017.

Prof Vineet Vashista delivered an expert lecture on **Human-centered robotics,** National Workshop on **Human-centered robotics**, IIT Jodhpur, Mar 18, 2018. He also delivered a keynote lecture on **Innovations in rehabilitative robotics**, ITM Universe, Vadodara, Jan 5, 2018. Prof Vashista also delivered a lecture on Short Course on **Nonlinear control and applications**, IITGN, Jan 28, 2018.

OTHER FACULTY ACTIVITIES

Prof Ambika Aiyadurai was the coordinator of the Summer school on social justice: Research and practice, Jun 19-30, 2017 in collaboration with University of Saskatchewan, Canada. She is currently the co-coordinator of Centre for Sustainable Development, IITGN; Coordinator of the IITGN's quarterly newsletter Connections. Prof Aiyadurai was the organizer of weekly bird watching trips in the campus and to nearby areas in Gandhinagar. She has organized the IITGN campus bird count as part of the Global Backyard Bird count, for students, faculty, staff and their family members, Feb 18-20, 2018. She also has organized Spider talk and walk in the campus to sensitize students and other IITGN family members about different species of spiders, Sep 18, 2017. She was the member of Students' Integration Committee; Record Verification Committee.

Prof Rupak Banerjee represented the Physics discipline on the faculty recruitment committee. He was also a member of Housing Maintenance committee.

Prof Michel Danino is currently the coordinator of the Archaeological Sciences Centre at IITGN.

Prof Atul Dixit is currently the Mathematics faculty search coordinator. He was also the coordinator of the Peer-Assisted Learning (PAL).

Prof Uttama Lahiri represented the Electrical Engineering discipline on the Faculty recruitment committee; Chairman, Internal Complaints Committee; Coordinator, Industry Fellowship. Prof Lahiri is currently the coordinator of Centre for Biomedical Engineering and Organiser of Roddam Narasimha Lecture Series.

Prof Mona G Mehta coordinated and organised talks by three guest speakers Prof Sanderien Verstappen, University of Amsterdam, Jul 2017, Prof Manisha Priyam, NUEPA, New Delhi and Prof Venu Govindu, IISC at India Ki Khoj 2017, Nov 2017. She also delivered talks on Remembering Sardar for Rashtriya Ekta Diwas (National Unity Day), IITGN, Oct 31, 2017; Importance of fundamental duties, on Constitution Day Celebration at IITGN, Nov 26, 2017. Prof Mehta organised a public play by students on Neoliberalism as part of HS 512 Political thought course. She was the committee member of Institute of Eminence brainstorming session on the role and future of IITGN.

Prof Joycee Mekie organised FICE-IITGN School program: trained about 200 students on Arduino platform from among 5 schools in Gandhinagar. Prof Mekie guided about 20 projects from these 5 schools funded by FICE through Intel, Jan-Mar 2018.

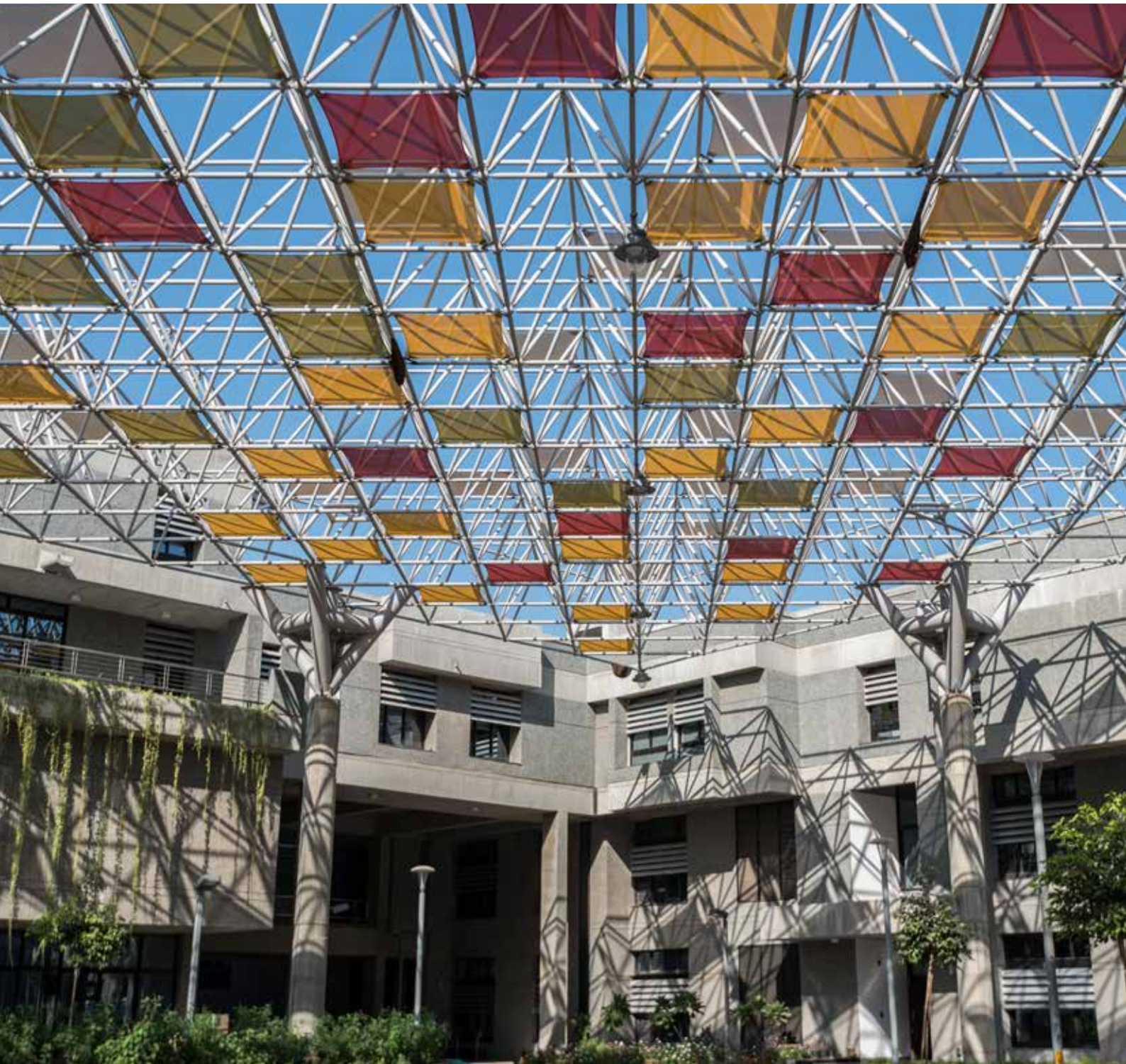
Prof Pranab Kumar Mohapatra has been serving as the Head, Engineering disciplines and Discipline coordinator, Civil Engineering.

Prof Shanmuganathan Raman was the course coordinator of short course on **The science and art of photography** by Prof Brian Barsky, UC Berkeley, at IITGN, Feb 8-13, 2017; Course coordinator, Deep Learning Institute by Nvidia, IITGN, Jul 27, 2017.

Prof Indranath Sengupta organised (jointly with **Prof Michel Danino**) the International Conference on Exploring the history of Indian Mathematics, IITGN, Dec 4-6, 2017; IST on Advanced Linear Algebra (jointly with Prof Sanjay Amrutiya), IITGN, Jul 10-22, 2017; Workshop on **Applications of Mathematics**, IITGN, May 16, 2017.

IN MEMORY OF PROF K V V MURTHY

Prof K V V Murthy, visiting professor of Electrical Engineering passed away on March 31, 2017 in Mumbai. Born on March 18, 1940 in Hassan, Karnataka, he had a long stint as a faculty at IIT Bombay until his superannuation. He joined IITGN in 2009 and was much loved by the students for his inspiring teaching of a variety of courses. Prof Murthy was known for his passion for teaching and research in signal processing. Always friendly with everyone, Prof Murthy was a very engaged person participating in numerous activities. His departure is a great loss to the Institute.



DOCUMENT TYPE	NUMBER OF PUBLICATIONS
Books Edited	4
Papers Presented at Conferences	189
Journal Papers	273
Posters Presented	101
E-Print Archives	86
Book Chapters	24
Others	8
Books	8
Magazine/Newspaper Articles	17
Foreword	2
Book Review	1
Reviews	1
Reports	1
Total	715

PUBLICATIONS

ARCHAEOLOGY

BOOKS EDITED

- **Kanungo, Alok Kumar** ed, *Stone beads of South and Southeast Asia: archaeology, ethnography and global connections*, New Delhi, IN: Indian Institute of Technology Gandhinagar and Aryan Books International, 2017, ISBN: 9788173055850, 9788173055874

BOOK CHAPTERS

- **Bisht, Ravindra Singh**, "Jewels and jewellery in early Indian archaeology and literature", in *Stone beads of South and Southeast Asia: archaeology, ethnography and global connections*, New Delhi, IN: Indian Institute of Technology Gandhinagar and Aryan Books International, 2017, pp 15-40, ISBN: 9788173055850, 9788173055874
- **Kanungo, Alok Kumar**, "Transitions in the stone beadmaking at Khambhat: an ethnohistorical survey", in *Stone beads of South and Southeast Asia: archaeology, ethnography and global connections*, New Delhi, IN: Indian Institute of Technology Gandhinagar and Aryan Books International, 2017, pp 191-222, ISBN: 9788173055850, 9788173055874
- **Prabhakar, V N**, "Documentation and analysis of stone drills from Dholavira", in *Stone beads of South and Southeast Asia: archaeology, ethnography and global connections*, New Delhi, IN: Indian Institute of Technology Gandhinagar and Aryan Books International, 2017, pp 293-316, ISBN: 9788173055850, 9788173055874
- **Prasad, Ravi Kant*; Prabhakar, V N** and **Jain, Vikrant**, "Geological aspects of raw materials for stone beads", in *Stone beads of South and Southeast Asia: archaeology, ethnography and global connections*, New Delhi, IN: Indian Institute of Technology Gandhinagar and Aryan Books International, 2017, pp 115-126, ISBN: 9788173055850, 9788173055874

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- **Danino, Michel**, *Nārada Śilpaśāstra: Ancient Sanskrit Treatise on Architectural Civil Engineering*, Introduction, Text, Translation and Notes by R N Iyengar, K S Kannan, S Y Wakankar, Jain University Press, Jakkasandra, Bengaluru, 2018
- **Danino, Michel**, *Beyond stones and more stones: defining Indian prehistoric archaeology*, vol 1, Ravi Korisettar (ed), The Mythic Society, Bengaluru, 2017, pp xvii–xviii

BIOLOGICAL ENGINEERING

BOOK CHAPTERS

- **Baweja, Lokesh#** and Dhawan, Alok, "Computational approaches for predicting nanotoxicity at the molecular level", in *Nanotoxicology: Experimental and Computational Perspectives*, DOI: **10.1039/9781782623922-00304**, Royal Society of Chemistry, 2017, pp 304-327, ISBN: 978-1-78262-158-4, 978-1-78262-392-2, 978-1-78801-259-1
- **Kumar, Sanjay*; Morya, Vinod#** and **Datta, Bhaskar**, "Application of immobilized enzymes in food industry", in *Enzymes in food Biotechnology*, Elsevier, 2018, ISBN: 9780128132807

JOURNAL PAPERS

- **Angira, Deekshi*** and **Thiruvenkatam, Vijay**, "Gamma secretase activating protein as profound target for Alzheimer's disease", *Acta Crystallographica Section A,* DOI: **10.1107/S2053273317083875**, vol 73, no a2, pp C1187, Aug 2017
- **Bhoir, Siddhant*; Shaik, Althaf*; Thiruvenkatam, Vijay** and **Kirubakaran, Sivapriya**, "High yield bacterial expression, purification and characterisation of bioactive human tousled-like kinase 1B involved in cancer", *Scientific Reports,* DOI: **10.1038/s41598-018-22744-5**, vol 8, no 1, Mar 2018
- Singh, Krishna P; **Baweja, Lokesh#;** Wolkenhauer, Olaf; Rahman, Qamar and Gupta, Shailendra K, "Impact of graphene-based nanomaterials (GBNMs) on the structural and functional conformations of hepcidin peptide", *Journal of Computer-Aided Molecular Design,* DOI: **10.1007/s10822-018-0103-4**, vol 32, no 3, pp 487-496, Mar 2018
- **Mutha, Pratik K**, "Reflex circuits and their modulation in motor control: a historical perspective and current view", *Journal of the Indian Institute of Science,* DOI: **10.1007/s41745-017-0052-2**, vol 97, no 4, pp 555-565, Dec 2017
- **Panjwani, Bhawna*; Gupta, Sharad** and **Thareja, Prachi**, "Ovalbumin at oil–water interfaces: adsorption and emulsification", *Journal of Dispersion Science and Technology,* DOI: **10.1080/01932691.2017.1384387**, Nov 2017
- Haaland, Kathleen Y; Dum, Richard P; **Mutha, Pratik K;** Strick, Peter L and Tröster, Alexander I, "The neuropsychology of movement and movement disorders: neuroanatomical and cognitive considerations", *Transportation Infrastructure Geotechnology,* DOI: **10.1017/S1355617717000698**, vol 23, no 9-10, pp 768-777, Oct 2017
- **Natarajan, Nalini*** and **Thiruvenkatam, Vijay**, "Structural means of assessing the association of hamartin and tuberin", *Acta Crystallographica Section A,* DOI: **10.1107/S2053273317085813**, vol 73, no a2, pp C993, Aug 2017 (Abstract)
- **Purushothaman, Gayathri*** and **Thiruvenkatam, Vijay**, "CD151 – a membrane protein via x-ray crystallography", *Acta Crystallographica Section A,* DOI: **10.1107/S205327331709180X**, vol 73, no a2, pp C393, Aug 2017 (Abstract)

PAPERS PRESENTED AT CONFERENCES

- **Kumar, Sanjay*; Guru Krishnakumar, V*; Morya, Vinod#; Gupta, Sharad** and **Datta, Bhaskar**, "Quercetin-rich onion extract as a potent inhibitor of tau protein aggregation", *Workshop on Water: Challenges and Opportunities*, University of Alberta, Edmonton, CA, Jul 24-25, 2017
- **Kumar, Sanjay*; Morya, Vinod#; Krishnakumar, Guru V*; Gupta, Sharad** and **Datta, Bhaskar**, "Quercetin rich extraction by reusable nano-biocatalysts and the potent drug for neurodegenerative diseases", *International Conference on Biological Applications of Nanoparticles (ICON-BIO 2017)*, IIT Madras, Chennai, IN, Dec 4-5, 2017
- **Ralhan, Krittika*; Guru Krishnakumar, V*** and **Gupta, Sharad**, "Arginine-rich β-sheet breaker peptides as potential tau protein aggregation inhibitors", *Society for Neuroscience 47th annual meeting, Neuroscience 2017, Washington DC, US, Nov 11-15, 2017*
- *Stielstra, Hans;* **Kumar, Sanjay*** and Vegi, Satish, "Featured markets and opportunities for water innovations in India", *EIP Water Conference 2017,* Porto, PT, Sep 27-28, 2017

POSTERS PRESENTED

- **Angira, Deekshi*** and **Thiruvenkatam,**

*Publication by students
Publication by staff
et al – Publications by multiple authors

Vijay, "Gamma secretase activating protein as profound target for Alzheimer's disease", *24th Congress and General Assembly of the International Union of Crystallography*, Hyderabad International Convention Centre, Hyderabad, IN, Aug 21-28, 2017

- **Angira, Deekshi*** and **Thiruvenkatam, Vijay**, "Gamma secretase activating protein as a target for Alzheimer's disease", *National Conference on Chemistry of Materials and Biologicals*, IIT Gandhinagar, IN, Jan 4-5, 2018
- **Angira, Deekshi*** and **Thiruvenkatam, Vijay**, "Probing gamma secretase activating protein (GSAP) as a target for Alzheimer's disease", *EMBL Conference on Revolutions in Structural Biology: Celebrating the 100th Anniversary of Sir John Kendrew, EMBL Heidelberg, DE, Nov 16-17, 2017*
- **Chilka, Pallavi*; Patlolla, Prathap Reddy*** and **Datta, Bhaskar**, "Selective recognition of G-quadruplex DNA by dimeric carbocyanine dye", *20th CRSI National Symposium in Chemistry and 11th CRSI-RSC Symposium, Gauhati University, IN, May 2-5, 2017*
- **Chilka, Pallavi*; Patlolla, Prathap Reddy*** and **Datta, Bhaskar**, "Selective recognition of G-quadruplex DNA by dimeric carbocyanine dye", *International Meeting on Quadruplex Nucleic Acids, Prague, CZ, May 31 – Jun 3, 2017*
- **Desai, Nakshi Nayan*; Chilka, Pallavi*; Reddy Patlolla, Prathap*** and **Datta, Bhaskar**, "Small molecule-mediated imaging of G-quadruplexes to elucidate its biological relevance", *International Symposium on Emerging Areas in Biosciences and Biomedical Technologies (eBBT-2018), IIT Indore, IN, Jan 5-6, 2018*
- **Datta, Subhamoy*; Patel, Manthan*; Patel, Divyesh*** and **Singh, Umashankar**, "Finding commonality between the pattern of histone modifications across normal and cancer cell types dictated by DNA sequence features", *NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) Conference, MAYFAIR Convention, Bhubaneswar, IN, Oct 2-4, 2017*
- **Desai, Nakshi Nayan*; Chilka, Pallavi*; Reddy Patlolla, Prathap*** and **Datta, Bhaskar**, "A fluorescent dimeric carbocyanine dye as a G quadruplex reporter probe", *National Conference and Workshop on Fluorescence and Raman Spectroscopy FCS 2017,* IIT Guwahati, IN, Dec 16-21, 2017
- **Dodla, Ankit*** and **Datta, Bhaskar**, "Development of novel nanoparticle-immobilized enzyme constructs for cascade catalysis", *International Conference on Biological Applications of Nanoparticles (ICON-BIO 2017)*, IIT Madras, Chennai, IN, Dec 4-5, 2017
- **Gadhavi, Joshna*; Ralhan, Krittika*; Gediya, Shweta*** and **Sharad Gupta**, "Effect of Peptide modulators on aggregation of alpha-synuclein", *Intrinsically disordered proteins: forms, functions and diseases (IDP-2017),* IISER Mohali, IN, Dec 9-12, 2017
- **Gadhavi, Joshna*; Gediya, Shweta#** and **Gupta, Sharad**, "Conformational studies of various peptide modulators on aggregation propensity of α-synuclein", *Japan-India Symposium on Materials Science 2018,* Japan Advanced Institute of Science and Technology, Ishikawa, JP, Mar 5-6, 2018
- **Ghawri, Preetika*; Gadhavi, Joshna*** and **Gupta, Sharad**, "Studies on different length of Aβ and their role in aggregation kinetics", *International Symposium on Emerging Areas in Biosciences and Biomedical Technologies (eBBT-2018), IIT Indore, IN, Jan 5-6, 2018*
- **Gupta, Neha*; Sanghavi, Hiral M*** and **Majumdar, Sharmistha**, "Scrutinizing the oligomerization of transposase and its probable role in transposition", *International Congress of Cell Biology 2018,* CSIR-Centre for Cellular and Molecular Biology, Hyderabad, IN, Jan 27-31, 2018
- **Guru Krishnakumar, V*; Hivare, Pravin*** and **Gupta, Sharad**, "Improving heterologous expression of tau protein in E coli and understanding its truncation profile by proteomic approach", *International Symposium on Emerging Areas in Biosciences and Biomedical Technologies (eBBT-2018), IIT Indore, IN, Jan 5-6, 2018*
- **Hivare, Pravin*; Guru Krishnakumar, V*** and **Gupta, Sharad**, "Study of truncated expression of full length tau in E. coli", *Intrinsically Disordered Proteins: Forms, Functions and Diseases (IDP-2017),* IISER Mohali, IN, Dec 9-12, 2017
- **Kumar, Sanjay*; Datta, Bhaskar** and Serpe, Michael, "Nucleic acid enabled nano-biosensor development for pathogenic target DNA detection", *Internship Research Poster Symposium*, University of Alberta, Edmonton, CA, Aug 23, 2017
- **Natarajan, Nalini*** and **Thiruvenkatam, Vijay**, "Structural means of assessing interaction between hamartin and tuberin", *24th Congress and General Assembly of the International Union of Crystallography,* Hyderabad International Convention Centre, Hyderabad, IN, Aug 21-28, 2017
- **Patel, Manthan*; Patel, Divyesh*; Agrawal, Prasoon#** and **Singh, Umashankar**, "Genome-wide CpG and non-CpG methylation regulation by CGGBP1", *NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) Conference, MAYFAIR Convention, Bhubaneswar, IN, Oct 2-4, 2017*
- **Patel, Nishaben*** and **Soppina, Virupakshi**, "Regulation mechamnism of kinesin-3 motors", *Current Trends in Intracellular Transport and Molecular Motors,* IIT Bombay, Mumbai, IN, Dec 22, 2017
- **Purshothaman, Gayathri*** and **Thiruvenkatam, Vijay**, "A membrane protein via x-ray crystallography", *National Conference on Chemistry of Materials and Biologicals*, IIT Gandhinagar, IN, Jan 4-5, 2018
- **Purushothaman, Gayathri*** and **Thiruvenkatam, Vijay**, "CD151-A membrane protein via x-ray crystallography", *24th Congress and General Assembly of the International Union of Crystallography,* Hyderabad International Convention Centre, Hyderabad, IN, Aug 21-28, 2017
- **Raman, Shashank*; Bhoir, Siddhant*** and **Kirubakaran, Sivapriya**, "Molecular cloning and expression analysis of human TLK1B-kinase domain construct in Escherichia coli" *National Conference on Materials and Biologicals 2018, IIT Gandhinagar, IN, Jan 4-5, 2018 (Best poster award)*
- **Saha, Sarmistha#** and **Gupta, Sharad**, "Sequence based design of inhibitor peptides for amyloid beta aggregation", *2nd International Conference on Innovations in Pharmaceutical Sciences (ICIPS-2017),* Guru Nanak Institutions Technical Campus, Hyderabad, IN, Jul 28-29, 2017
- **Sanghavi, Hiral M*** and **Majumdar, Sharmistha**, "Is oligomerization of THAP9 DNA transposase important for mediating DNA transposition?", *FCS2017: National Workshop on Fluorescence and Raman Spectroscopy,* IIT Guwahati, IN, Dec 17-21, 2017
- **Sanghavi, Hiral M*** and **Majumdar, Sharmistha**, "Is oligomerization of THAP9 DNA transposase important for mediating DNA transposition?", *2018 Keystone Symposia Conference on Mobile Genetic Elements and Genome Plasticity,* Santa Fe, US, Feb 11-15, 2018
- **Sharma, Vasudha*** and **Majumdar, Sharmistha**, "Determination of data analysis pipeline for detection of Thap-9 binding sites in human genome", *2017 NextGen Genomics, Biology, Bioinformatics, and Technologies (NGBT) Conference, MAYFAIR Convention, Bhubaneswar, IN, Oct 2-4, 2017*
- **Sharma, Vasudha*** and **Majumdar, Sharmistha**, "Determination of data analysis pipeline for detection of THAP9 binding sites in human genome", *International Congress of Cell Biology 2018,* CSIR-Centre for Cellular and Molecular Biology, Hyderabad, IN, Jan 27-31, 2018
- **Singhal, Aditi*** and **Datta, Bhaskar**, "Investigation of G-quadruplexes as biomarkers of disease conditions", *International Symposium on Emerging Areas in Biosciences and Biomedical Technologies (eBBT-2018), IIT Indore, IN, Jan 5-6, 2018*
- **Singhal, Aditi*; Kumar, Sanjay*** and **Datta, Bhaskar**, "Separation and purification of staining dyes using nano-bioconstructs", *International Conference on Biological Applications of Nanoparticles (ICON-BIO 2017)*, IIT Madras, Chennai, IN, Dec 4-5, 2017

MAGAZINE/NEWSPAPER ARTICLES

- **Srivastav, Apeksha***, "Students voice: How to pick a career you actually like", *The Indian Express,* Dec 25, 2017
- **Srivastav, Apeksha***, "Why all education institutions should make humanity a compulsory subject", *The Indian Express,* Jul 15, 2017

CHEMICAL ENGINEERING

BOOKS EDITED

- Mujtaba, I M; **Srinivasan, Rajagopalan** and Elbashir, Nimir O M ed, *The water-food-energy nexus: processes, technologies, and challenges*, Boca Raton, US: CRC Press, 2017, ISBN: 978-1-4987-6083-6, 978-1-138-74607-7
- Book Chapters
- Halim, Iskandar; Adhitya, Arief and **Srinivasan, Rajagopalan**, "Evaluating sustainability of process, supply chain, and enterprise: a bio-based industry case study", *The water-food-energy nexus: processes, technologies and challenges*, CRC Press, 2017, ISBN: 978-1-4987-6083-6, 978-1-138-74607-7
- **Rani, Mallavarappu Deepika#; Das, Laya*** and **Srinivasan, Babji**, "Fault diagnosis of anaerobic digester system using nonlinear state estimator: application to India's largest dairy unit", *Lecture Notes in Civil Engineering*, DOI: **10.1007/978-3-319-58421-8-43**, vol 4, Springer International Publishing, 2017, pp 272-277, ISBN: 978-3-319-58421-8
- **Srinivasan, Babji; Pal, Jaideep*** and **Srinivasan, Rajagopalan**, "Enhancement of energy efficiency at an Indian milk processing plant using exergy analysis", *Sustainable Energy Technology and Policies*, DOI: **10.1007/978-981-10-7188-1-19**, Springer International Publishing, 2017, pp 425-450, ISBN: 978-981-10-7187-4, 978-981-10-7188-1
- **Srinivasan, Rajagopalan** and **Iqbal, Mohd Umair***, "Inherently safe design", *Handbook of Safety Principles*, DOI: **10.1002/9781119443070.ch17**, John Wiley & Sons, Inc, 2017, pp 386-396, ISBN: 9781118950692, 9781119443070

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- Anuradha, Anuradha; **Kumari, Shweta#; Layek, Samaresh and Deo Pathak, Devendra, "Palladium nanoparticles immobilized on a magnetic Chitosan-anchored Schiff base: application in Suzuki-Miyaura and Heck-Mizoroki coupling reactions",** *New Journal of Chemistry,* DOI: **10.1039/C7NJ00283A**, vol 41, no 13, pp 5595-5604, Jun 2017
- Bergin, Mike H; **Ghoroi, Chinmay; Dixit, Deepa*;** Schauer, James Jay and Shindell, Drew, **"Large reductions in solar energy production due to dust and particulate air pollution",** *Environmental Science & Technology Letters,* DOI: **10.1021/acs.estlett.7b00197**, vol 4, no 8, pp 339-344, Aug 2017 (ACS Editors' Choice article)
- **Bhattacharjee, Archita#** and Ahmaruzzaman, M, "Microwave assisted facile and green

route for synthesis of CuO nanoleaves and their efficacy as a catalyst for reduction and degradation of hazardous organic compounds", *Journal of Photochemistry and Photobiology A: Chemistry,* DOI: **10.1016/j.jphotochem.2017.11.018**, vol 353, pp 215-228, Feb 2018

- **Bhavsar, Punitkumar*; Srinivasan, Babji** and **Srinivasan, Rajagopalan**, "Quantifying situation awareness of control room operators using eye-gaze behavior", *Computers & Chemical Engineering,* DOI: **10.1016/j.compchemeng.2017.06.004**, vol 106, pp 191-201, Nov 2017
- Bhusare, V H; **Kalaga, Dinesh V*;** Dhiman, M K; Joshi, J B and Roy, S, "Mixing in a co-current upflow bubble column reactors with and without internals", *The Canadian Journal of Chemical Engineering,* DOI: **10.1002/cjce.23162**, Feb 2018
- Chang, Li-Wei; Lytle, Tyler K; **Radhakrishna, Mithun;** Madinya, Jason J; Vélez, Jon; Sing, Charles E and Perry, Sarah L, "Sequence and entropy-based control of complex coacervates", *Nature Communications,* DOI: **10.1038/s41467-017-01249-1**, vol 8, no 1, Nov. 2017
- Che, Songwei; **Jasuja, Kabeer;** Behura, Sanjay K; Nguyen, Phong; Sreeprasad, T S and Berry, Vikas, "Retained carrier-mobility and enhanced plasmonic-photovoltaics of graphene via ring-centered η6 functionalization and nano-interfacing", *Nano Letters,* DOI: **10.1021/acs.nanolett.7b01458**, Jun 2017
- **Das, Laya*; Gaurav, Kumar*; Rani, Mallavarapu Deepika#** and **Srinivasan, Babji**, "A novel approach to evaluate state estimation approaches for anaerobic digester units under modeling uncertainties: application to an industrial dairy unit", *Journal of Environmental Chemical Engineering,* DOI: **10.1016/j.jece.2017.07.039**, vol 5, no 4, pp 4004-4013, Aug 2017
- **Das, Laya*; Iqbal, Mohd. Umair*; Bhavsar, Punitkumar*; Srinivasan, Babji** and Srinivasan, Rajagopalan, "Towards preventing accidents in process industries by inferring the cognitive state of control room operators through eye tracking", *ACS Sustainable Chemistry & Engineering,* DOI: **10.1021/acssuschemeng.7b03971**, vol 6, no 2, pp 2517-2528, Feb 2018
- **Das, Saroj Kumar*** and **Jasuja, Kabeer**, "Chemical exfoliation of layered magnesium diboride to yield functionalized nanosheets and nanoaccordions for potential flame retardant applications", *ACS Applied Nano Materials,* DOI: **10.1021/acsanm.8b00101**, Mar 2018
- Gandhi, Pravin; Jagdish, V; Karthikeyan, G; Chakravarthy, Aravind; **Nakrani, Dharmit*; Ghoroi, Chinmay** and **Srivastava, Gaurav**, "Performance of glass-ACP façade system in a full-scale real fire test in a G+2 structure", *Procedia Engineering*, DOI: **10.1016/j.proeng.2017.11.108**, vol 210, pp 512-519, Dec 2017
- **Gunda, Harini*; Das, Saroj Kumar*** and **Jasuja, Kabeer**, "Simple, green and high-yield production of boron based nanostructures with diverse morphologies by dissolution and recrystallization of layered magnesium diboride crystals in water", *ChemPhysChem,* DOI: **10.1002/cphc.201701033**, Jan 2018
- **Guru Krishnakumar, V*;** Paul, Ashim and Segal, Daniel, "Mechanistic insights into remodeled tau-derived PHF6 peptide fibrils by naphthoquinone-tryptophan hybrids", *Scientific Reports,* DOI: **10.1038/s41598-017-18443-2**, vol 8, no 1, Jan 2018
- **Iqbal, Mohd Umair*** and Srinivasan, Rajagopalan, "Simulator based performance metrics to estimate reliability of control room operators", *Journal of Loss Prevention in the Process Industries,* DOI: **10.1016/j.jlp.2017.10.011**, Oct 2017
- Jan, Shumaila; **Ghoroi, Chinmay** and Saxena, D C, "A comparative study of flow properties of Basmati and non-Basmati rice flour from two different mills", *Journal of Cereal Science*, DOI: **10.1016/j.jcs.2017.05.016**, vol 76, pp 165-172, Jul 2017
- Jan, Shumaila; **Ghoroi, Chinmay** and Saxena, D C, "Characterisation of bulk and shear properties of Basmati and non-Basmati rice flour", *Journal of the Science of Food and Agriculture*, DOI: **10.1002/jsfa.8512**, vol 98, no 2, pp 667-673, Jan 2018
- Jan, Shumaila; **Ghoroi, Chinmay** and Saxena, D C, "Effect of particle size, shape and surface roughness on bulk and shear properties of rice flour", *Journal of Cereal Science*, DOI: **10.1016/j.jcs.2017.04.015**, vol 76, pp 215-221, Jul 2017
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- **Jolad, Shivakumar** and K, Vaijayanti, "Drain of government schools in India-small schools and implications on access, equity and efficiency: evidence from Karnataka", *CESI (Criticality, Empathy and Welfare in Contemporary Educational Discourses) Conference 2017, Jammu University, Jammu, IN, Nov 16-18, 2017*
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- **Samanta, Tannistha**, "Ageless living in a culture of youth: understanding consumerism through elder-friendly luxury housing communities in neoliberal India", *Aging & Society: Seventh Interdisciplinary Conference, University of California at Berkeley, Berkeley, US, Nov 3-4, 2017*
- **Samanta, Tannistha**, "Love in the time of aging: sociological reflections on relationship, gender and intimacy", *Conference on Examining the Processual in Kinship and Family in South Asia,* Department of Liberal Arts, IIT Hyderabad, IN, Feb 1-2, 2018
- **Thomas, Tony*** and Coello, Yann, "Enhanced saccade accuracy in the Peri-hand space", *4th Annual Conference on Cognitive Science (ACCS-2017),* Hyderabad Central University, Hyderabad, IN, Oct 5-7, 2017

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- **Chawla, Manisha*** and **Miyapuram, Krishna P**, "Time course of economic bias in perceptual decisions: an EEG study", *4th Annual Conference of Association for Cognitive Science, University of Hyderabad, IN, Oct 5-7, 2017*
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- **Goyal, Shruti* and Miyapuram, Krishna P (2017),** Risk attitude in gain and loss domain with and without feedback: a study on Indian population, Society for Judgement and Decision Making, Vancouver, Nov 10-14, 2017
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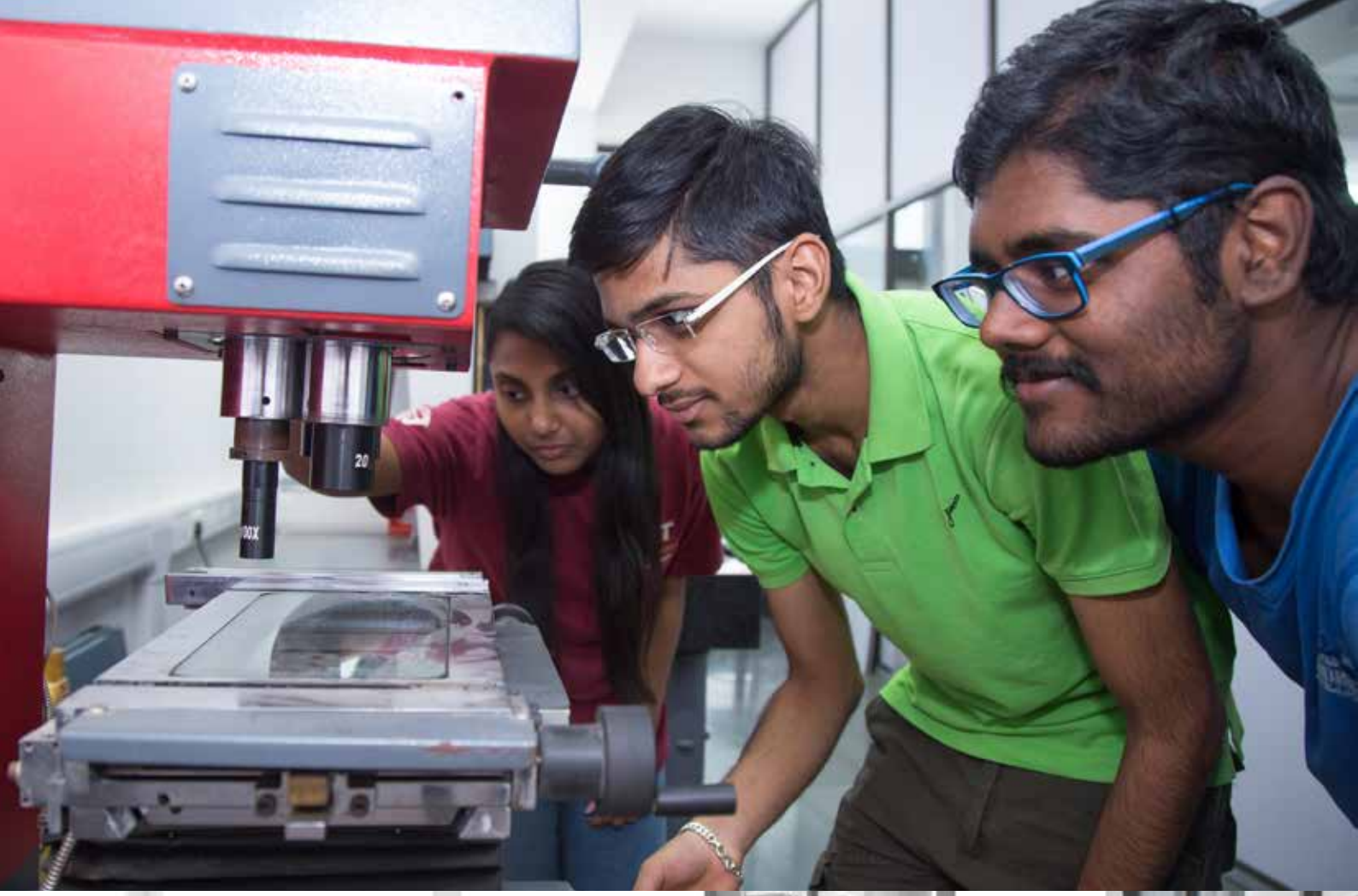
Publication by staff
et al – Publications by multiple authors




ODYSSEY
Sky-Watcher
SMILE
Space

STUDENT AFFAIRS

CO-CURRICULAR ACTIVITIES

CAMPUS PLACEMENTS 2017

Of the 77 eligible undergraduates who sought placements, 68 students were successful in securing placements of their choice. The following organisations offered campus placements for the outgoing undergraduate batch in 2017.

ORGANISATION
Aarti Industries Ltd, Vapi
GCMMF Ltd (AMUL), Anand
Apttus India, Ahmedabad
Barclays, Mumbai
Belcan India Pvt Ltd, Hyderabad
Bharat Dynamics Ltd, Hyderabad
Bharat Forge Ltd, Pune
Bombardier Inc, Vadodara
C V Raman College of Engineering, Bhubaneswar
Cadila Pharmaceuticals Ltd, Ahmedabad
Capgemini, Mumbai
Chhajed Foods Pvt Ltd, Ahmedabad
Cognizant Technology Solutions, Trivandrum
Deloitte, Hyderabad
Easy Pay Private Ltd, Ahmedabad
Gujarat State Fertilizers & Chemicals Ltd, Vadodara
Gyan Data Pvt Ltd, Madras
Hatch Ltd, Gurgaon
Hexagon Capability Center India Private Ltd, Hyderabad
Highly Electrical Appliance India Pvt Ltd, Ahmedabad
Hindustan Petroleum Corporation Ltd, Mumbai
Hyundai Motor India Ltd, Sriperumbudur
Indian Oil Corporation Ltd, Mumbai
Indian Space Research Organisation, Thiruvananthapuram
Intas Pharmaceuticals Ltd, Ahmedabad

ORGANISATION
John Deere, Pune
Johnson Controls, Bangalore
Marvell Technology Group Ltd, Pune
Multi Commodity Exchange of India Ltd, Mumbai
Next Education India Pvt Ltd, Hyderabad
Nimbkar Agricultural Research Institute (NARI), Phaltan
Om Shanti English Medium School, Morbi
Open Door Education, Pune
Quess Corp Ltd, Bangalore
Reliance Jio Infocomm Ltd, Mumbai
RKC Infrabuilt Pvt Ltd, Ahmedabad
Shapoorji Pallonji & Co Ltd, New Delhi
SIM Advisory Inc, Bangalore
Sterlite Technologies Ltd, Mumbai
Strand Life Sciences Private Ltd, Bangalore
Tata Consultancy Services Ltd, Pune
Tata Motors Ltd, Mumbai
The Nielsen Company, Mumbai
Timetooth Technologies Pvt Ltd, Noida

SUMMER INTERNSHIPS 2017

IIT Gandhinagar considers internships as a valuable mechanism through which students gain exposure to real-world problems and cutting-edge research by working in leading academic institutions and industries. Students are encouraged to take up internships that suit their exploratory instincts and future plans. This year 76 students went abroad for internships in institutions like California Institute of Technology, USA; Clemson University, USA; Duke University, USA; Nanyang Technological University, Singapore; Texas A&M University, USA; University of Alberta, Canada; University of Saskatchewan, Canada; University of Washington, USA and many more.

Another 98 students did their internships in various leading industries and institutions within India such as ITC Ltd, Chennai; Arvind Smart Spaces, Ahmedabad; Barclays, Mumbai; DMRC, Delhi; Engineers India Limited, New Delhi; IRICEN, Pune; ISRO Inertial Systems Unit, Thiruvananthapuram; Jacobs Engineering, Vadodara; John Deere, Pune; JSW Group, Delhi; Laser Science and Technology Centre, DRDO Delhi; IIT Bombay; IIM Ahmedabad; IIT Gandhinagar among many others.

FOREIGN INSTITUTIONS

HOST INSTITUTION	STUDENT NAME	DISCIPLINE
California Institute of Technology, USA	Pranavkumar S	Civil Engineering
	Ayushman Tripathi	Electrical Engineering
	Kshiteej Jitesh Sheth	Electrical Engineering
	P R Vaidyanathan	Electrical Engineering
	Vaishnavi Sunil Patil	Electrical Engineering
	Deepak Dhariwal	Materials Science and Engineering
	Dave Sowill	Mechanical Engineering
Clemson University, USA	Dileep Singh	Materials Science and Engineering
	Dudhat Kunal Hansraj	Materials Science and Engineering
	Sonar Chinmay Narendra	Mechanical Engineering
	Trivedi Jaldhir Sanjay	Mechanical Engineering
Duke University, USA	Anmol Kishore Raina	Civil Engineering
	Borse Dinesh Anil	Civil Engineering
	Varun Aggarwal	Electrical Engineering
	Jugal Mehta	Materials Science and Engineering
	Nishant Patel	Mechanical Engineering
École Polytechnique Fédérale de Lausanne, Switzerland	Garima Chaudhary	Civil Engineering
	Homit Singh Pal	Civil Engineering
Friedrich-Schiller- University Jena, Germany	Chinmay Deepak Shirpurkar	Electrical Engineering
ISCTE – University Institute of Lisbon, Portugal	Harsh Madhyan	Chemical Engineering
	Vinaya E H	Cognitive Science
	Megha Sanyal	Cognitive Science
	Arundhathy B	Humanities and Social Sciences
	Verma Piyusha Ramashanker	Humanities and Social Sciences
	Ahamed Naji Shaham	Mechanical Engineering
Japan Advanced Institute of Science and Technology, Japan	Akash Pallath	Chemical Engineering
	Saravanan B	Cognitive Science
	Unnati Palan	Cognitive Science
	Baby Ziliya N A	Cognitive Science
	Shivdutt Sharma	Electrical Engineering
	Aman Kamlesh Singh	Materials Science and Engineering
	Aagam Rajeev Shah	Materials Science and Engineering
	Sujoy Saha	Physics

HOST INSTITUTION	STUDENT NAME	DISCIPLINE
Nanyang Technological University, Singapore	Arvind Roshaan S	Electrical Engineering
	Modi Harsh Jashvantbhai	Mechanical Engineering
Texas A&M University, USA	Arul Mozhi Devan P	Chemical Engineering
	Roy Nikhil Aditya	Chemical Engineering
	Siddharth Sheshadri K	Chemical Engineering
	B Pranav Chakravarthy	Civil Engineering
	Gohil Vasudev Arvindkumar	Electrical Engineering
	Parab Amogh Vishram	Mechanical Engineering
	Vakharia Vismay Dilipkumar	Mechanical Engineering
The New School, USA	Ankit Singh	Chemical Engineering
	Yashasvi Modi	Chemical Engineering
	Sareem Sandeed	Civil Engineering
	Blessy Tom Joseph	Cognitive Science
	Tejas Mehta	Electrical Engineering
	Aparna N Tumkur	Electrical Engineering
	Pawan Sharma	Humanities and Social Sciences
	Yash Bohre	Mechanical Engineering
University at SUNY Buffalo, USA	Heet Vasudevbhai Patel	Civil Engineering
	Anusha Gupta	Civil Engineering
	Solanki Vidhi Rasik	Civil Engineering
	Gohil Karan Nitinbhai	Mechanical Engineering
	Nithin Ramesh	Mechanical Engineering
	Akhilesh	Mechanical Engineering
University of Alberta, Canada	Vivek Kumar	Mechanical Engineering
University of Colorado Boulder, USA	R Yashwanth Kumar	Civil Engineering
University of Saskatchewan, Canada	Pavithra Ashok Kumar	Cognitive Science
	Himanshu Jaswant Singh Chauhan	Chemical Engineering
	Aashay Sandansing	Chemical Engineering
	Jani Purvil Rahulbhai	Chemical Engineering
	Duthade Sanket Rajesh	Electrical Engineering
	Patel Parva Apurva	Electrical Engineering
	Kaustubh Shirish Panse	Materials Science and Engineering
	Lakshmi Gayatri Sivalenka	Mechanical Engineering
University of South Carolina, USA	Prakrut Kansara	Civil Engineering
University of Southern California, USA	Aketi Sai Aparna	Electrical Engineering
University of Washington, USA	Joshi Ankita Abhay	Materials Science and Engineering
	Patel Zainab Shabbar	Materials Science and Engineering
	Kapil Sharma	Mechanical Engineering
	Prasanna	Mechanical Engineering
	Vinod Ramakrishnan	Mechanical Engineering
Washington University in St Louis, USA	Mridul Pareek	Chemical Engineering
	Pawar Bhushan	Chemical Engineering
	Potturu Apurva	Chemical Engineering

INDIAN ORGANISATIONS

HOST INSTITUTION	STUDENT NAME	DISCIPLINE
Arvind Smart Spaces, Ahmedabad	Pranav Kumar Gupta	Civil Engineering
Barclays, Mumbai	Ayush Mathur	Chemical Engineering
	Yashovardhan	Electrical Engineering
Brain Chamber Technologies Pvt Ltd, Kolhapur	Jagdish Choudhary	Electrical Engineering
CPWD, Ranchi	Vishal Kumar Sinha	Civil Engineering
DMRC, Delhi	Ajay Singh Shekhawat	Civil Engineering
Engineers India Limited, New Delhi	Abhinay Rana	Chemical Engineering
Feltso AI, Hyderabad	Janga Sai Kiran	Mechanical Engineering
IRICEN, Pune	Devanand	Civil Engineering
	Kamlesh Choudhary	Civil Engineering
	Kunal Jain	Civil Engineering
	Vikas Yadav	Civil Engineering
ISRO Inertial Systems Unit, Thiruvananthapuram	Nagare Ashwini Tukaram	Electrical Engineering
	Gottumukala Sai Rama Krishna	Electrical Engineering
	Himanshu Pal	Electrical Engineering
	Aditya Kumar	Materials Science and Engineering
	Patel Pinank Kishorbhai	Mechanical Engineering
ITC Ltd, Chennai	Aditya Sundaram	Chemical Engineering
	Pragadeesh R R	Mechanical Engineering
Jacobs Engineering, Vadodara	Krishna Kumar Soni	Mechanical Engineering
John Deere, Pune	Relan Udit Surendra	Mechanical Engineering
JSW Group, Delhi	Tushar Nirmal	Mechanical Engineering
KHS Machinery Private Limited, Ahmedabad	Solleti Goutham	Mechanical Engineering
Laser Science and Technology Centre, DRDO, Delhi	Himanshu Goswami	Electrical Engineering
	Rachit Goyal	Electrical Engineering
MCX India, Mumbai	Sheru Aravind Reddy	Civil Engineering
National Metallurgical Laboratory, Jamshedpur	M Barath Kanna	Materials Science and Engineering
	Sushil Kumar	Materials Science and Engineering
Odohub, Gandhinagar	Sarvepalli Nagasai Vardhan Rao	Electrical Engineering
Omori India, Vadodara	Mitta Venkata Sai Viswanath	Mechanical Engineering
ONGC, Ahmedabad	Vaibhav S Pal	Mechanical Engineering
Reliance Industries Limited, Nagathole	Mayur Madhav Vishe	Electrical Engineering
Sheelafoam Ltd, Greater Noida	Bhaskar Jyoti Saikia	Chemical Engineering
	Parash Aggarwal	Chemical Engineering
Tata Steel, Jamshedpur	Tandale Mohit Mukundraj	Materials Science and Engineering
	Bhupendra Kumar	Materials Science and Engineering
Tyco International, Bangalore	Singampalli Sai Rohit	Mechanical Engineering
Ernst & Young, Ahmedabad	Patel Parth Girishbhai	Chemical Engineering
	Patel Parva Apurva	Electrical Engineering
	Saksham Singal	Mechanical Engineering
Gift City, Gandhinagar	Tarun Sharma	Civil Engineering
Gir Sanctuary, Junagadh	Rushabh Desadala	Chemical Engineering
iCreate, Ahmedabad	Priyang Priyadarshi	Materials Science and Engineering
Internstreet, Karnataka	Shivang Agarwal	Electrical Engineering
	Rushali Atul Prakash Saxena	Mechanical Engineering
Jashubhai Engineering, Ahmedabad	Patel Sooraj Ghanshyambhai	Materials Science and Engineering
	Shashank	Materials Science and Engineering
	Prathamesh Badve	Mechanical Engineering
JK Lakshmi Cement, Changodar	Aishwary Omkar	Civil Engineering

HOST INSTITUTION	STUDENT NAME	DISCIPLINE
ReMaterials, Ahmedabad	Rajat Ranjan	Mechanical Engineering
Sappho for Equality, Kolkata	Prerna Subramanian	Society and Culture
IIT Bombay	Anmol Gaur	Electrical Engineering
IIM, Ahmedabad	Ayush Shrote	Electrical Engineering
IIT Gandhinagar	Reshma Babu	Cognitive Science
	Afridi Zamader	Chemistry
	Geetanjali Panwar	Chemistry
	Govind Sharma	Chemistry
	Komal Bajaj	Chemistry
	Megha Bajaj	Chemistry
	Naveen Tak	Chemistry
	Parsanta Yadav	Chemistry
	Parul Duhan	Chemistry
	Rajvir Singh	Chemistry
	Rakesh Yadav	Chemistry
	Sarla Yadav	Chemistry
	Sachin Giri	Chemistry
	Shivansh Kaushik	Chemistry
	Surya Pratap Singh	Chemistry
	Priyanka	Chemical Engineering
	Priyanshu Gupta	Chemical Engineering
	More Mayuresh Hiren	Chemical Engineering
	Konde Mandar Purushottam	Chemical Engineering
	Aditi Sharma	Chemical Engineering
	Ankur Singh	Chemical Engineering
	Ankit Ghanghas	Civil Engineering
	Puneet Swami	Civil Engineering
	Abhay Varshney	Civil Engineering
	Veeravalli Sai Ganesh	Civil Engineering
	Ayush Garg	Computer Science & Engineering
	Naman Jain	Computer Science & Engineering
	Rushil Shamkant Vispute	Electrical Engineering
	Amit Bhongade	Electrical Engineering
	Aditi Singh	Electrical Engineering
	Aparna Tumkur	Electrical Engineering
	Pansetty Karthik	Electrical Engineering
	Ayon Biswas	Electrical Engineering
	Shivang Agarwal	Electrical Engineering
	Tejas Mehta	Electrical Engineering
	Swara Joshi	Humanities & Social Sciences
	Gandhi Meet Bankim	Mechanical Engineering
	Saksham Singal	Mechanical Engineering
	Prathamesh Badve	Mechanical Engineering
	M Naveen	Mechanical Engineering
	Rishabh Bhattacharya	Mechanical Engineering
	Rajat Ranjan	Mechanical Engineering
	Alrick Dsouza	Mechanical Engineering
	S Santhosh	Mechanical Engineering
Gram Fellowship – Project Potential	Subodh Kumar	Mechanical Engineering

CLASS OF 2017 GRADUATES PURSUING HIGHER STUDIES ABROAD

NAME	INSTITUTE	PROGRAMME	DISCIPLINE AT IITGN
BTECH			
Patel Kishankumar Kaushikbhai	University of Florida, USA	MS	Chemical Engineering
Prerna Singh	Georgia Institute of Technology, USA	PhD	Civil Engineering
Anikesh Satish Kamath	The University of Texas at Austin, USA	MS	Electrical Engineering
Ojas Yashwant Joshi	Carnegie Mellon University, USA	MS	Mechanical Engineering
MTECH			
Asim Bashir	Texas A&M University, USA	PhD	Civil Engineering
K Shravan Kumar	Nanyang Technological University, Singapore	PhD	Electrical Engineering
MSc			
Vamakshi Yadav	Purdue University, USA	PhD	Chemistry
Vani Verma	University of British Columbia, Canada	PhD	Chemistry
MA			
Rohit Revi A V	Queen's University, Canada	PhD	Society and Culture
Ragini Nath	The New School, USA	Graduate Certificate	Society and Culture
Mujeeburahman K C	University of Warwick, UK	PhD	Society and Culture

CLASS OF 2017 GRADUATES PURSUING HIGHER STUDIES IN INDIA

NAME	INSTITUTE	PROGRAMME	DISCIPLINE AT IITGN
BTECH			
Akshay Kumar Verma	IIT Kanpur	MTech	Chemical Engineering
Dewansh Rastogi	IIT Kanpur	MTech	Chemical Engineering
Srinivasan A	IIT Madras	MTech	Civil Engineering
Vyas Samir	IIT Delhi	MTech	Electrical Engineering
Rishab Anand	IIT Bombay	MTech	Electrical Engineering
Rohit Nanavati	IIT Bombay	MTech	Mechanical Engineering
Amit Yadav	IIT Madras	MTech	Mechanical Engineering
Shah Jugal Saurin	IIT Delhi	MTech	Mechanical Engineering
MTECH			
Kolli Mohan Krishna	IIT Gandhinagar	PhD	Civil Engineering
Kushwaha Amarkumar Ayodhyasingh	IIT Bombay	PhD	Electrical Engineering
Rakesh Behera	IIT Gandhinagar	PhD	Materials Science and Engineering
Niladri Naskar	IIT Gandhinagar	PhD	Materials Science and Engineering
Prateek Goyal	IIT Gandhinagar	PhD	Materials Science and Engineering
Nakka Suryasatyasanjeevi	IIT Gandhinagar	PhD	Mechanical Engineering
Ritam Chatterjee	IIT Bombay	PhD	Mechanical Engineering
Amalnath M	IIT Madras	PhD	Mechanical Engineering
Sahil Bharti	IIT Madras	PhD	Mechanical Engineering
MSc			

NAME	INSTITUTE	PROGRAMME	DISCIPLINE AT IITGN
Sohhom Bandyopadhyay	IIT Gandhinagar	PhD	Cognitive Science
Kulkarni Pranjali Shrikant	IIT Gandhinagar	PhD	Cognitive Science
Jyotirban Dey	IIT Kanpur	PhD	Chemistry
Sudhansu Sekhar Ray	Utkal University	PhD	Mathematics
MA			
Khobragade Prateek Pawankumar	IIT Gandhinagar	PhD	Society and Culture
PGDIIT			
Priodyuti Pradhan	IIT Indore	PhD	Computer Science and Engineering

UDAAN: FAREWELL

The formal farewell dinner for graduating batch was organised on Apr 15, 2017. The students looked splendid in formal attire that symbolized their preparedness to face the world. They walked down memory lane and recounted incidents that stood out from their years at IIT Gandhinagar. The evening included anecdotes and speeches by students and faculty, and musical and cultural performances by the students.

EXTRA-CURRICULAR ACTIVITIES

RAAGMALIKA

A classical musical event was held on Apr 7, 2017 in which students and faculty members of IIT Gandhinagar gave classical music performances. **Prof Atul Dixit** and **Prof Srinivas Reddy** were some of the faculty members who performed.

MESS HOUR DEBATE

The house believes that there should be a transparency of funds in all student organised activities of IIT Gandhinagar. **Prof Atul Bhargav** took part in this debate along with other student members on Apr 8, 2018.

HINDI DIWAS

IITGN celebrated Hindi Diwas on Sep 14, 2017. The programme included poem recitations, riddles, and drama by the students. Community members enthusiastically participated in the event.

SPIDER WALK

Spider walk and talk was organised at IITGN campus on Sep 16, 2017. **Mr S Sivakumar**, Park Manager, Sundarvan and **Mr N Ramjee**, Centre for Environment Education, Ahmedabad were the resource persons. The event was organised by **Prof Ambika Aiyadurai**.

OPEN HOUSE ON EXPLORER'S FELLOWSHIP

Ninety-six students participated in the Explorer's Fellowship in summer this year. The fellowship enables them to undertake a six-week adventure journey across the country on a very low budget. The teams presented the summary of their experiences at an open house on Oct 15, 2017.

AMALTHEA 2017

Amalthea 2017 - the annual technical event of the institute was held during Nov 4-6, 2017 with the aim of promoting technology, bestowing knowledge, aiding scientific thinking and stimulating entrepreneurship among students. The 8th edition of Amalthea was inaugurated by **Mr A P Hota,** former MD & CEO of National Payments Corporation of India and **Prof Sudhir K Jain**.

CONSTITUTION DAY

The institute observed Constitution Day (Samvidhan Divas) on Nov 26, 2017 to commemorate the adoption of Constitution of India. **Prof Mona Mehta** spoke on the fundamental duties and their significance.

HOMECOMING

A two-day alumni meet - **Homecoming 2017** - was held at IITGN during Dec 23-24, 2017. Organised by the Office of Alumni Relations, the event hosted 120 alumni from India and overseas. Over the two days, the alumni revisited their college days and took part in faculty-alumni and student-alumni interactions, Halla Bol (an interdepartmental sports contest unique to IITGN) and various cultural events.

JASHN

The 4-day annual intra-college cultural fest that aims to bring the entire student body out of their rooms and labs to participate in exciting cultural events and recreational games was organised from Jan 4-7, 2018. This year's Jashn had a registration of nearly 900 students (the highest number till now) and it was one of the most lively festivals of IITGN.

IGNITE

The Technical Council of IITGN organised IGNITE 4.0 on Mar 10-11, 2018. Drone airshows, laboratory tours and 3D printing workshops were among the highlights of this technological fest. To nurture the culture of experimentation and innovation, the hackathron CodeFri has developed educational applications for school students and week-talks to encourage technical discussions. Apart from this Aeromodelling, Submerge, ATV Racing, Hovercraft and food ordering app for IITGN campus and VR applications to study psychological mapping are some of the indigenous projects that were displayed at the event.

STUDENTS LEADERSHIP CONCLAVE

A Student Leadership Conclave was held at IITGN on Mar 24, 2018. The Conclave was planned and organized by Student Academic Council and led by **Deepak Dhariwal**. The IITGN students along with General Secretary, **Nikhil Roy** were joined by student leaders from IIT Indore, IIT Bombay, IIT Jammu, IIT Kharagpur, IIT Guwahati, IIT Goa, IIT Tirupati, IIT BHU, IIT Jodhpur, IIT Mandi, IIT Patna, IIT Ropar, and IIT Bhilai. They had fruitful discussions on student governance, peer learning and mentorship, functioning of clubs, possible new initiatives such as UG Research Conference and many others. Many new ideas came up in this remarkable initiative and the students had a dynamic and productive interaction.

SPECIAL OCCASIONS

71ST INDEPENDENCE DAY CELEBRATION

IITGN celebrated the 71st Independence Day on Aug 15, 2017. The celebrations began with flag hoisting by the Director **Prof Sudhir K Jain** and followed by the national anthem. The Dean's List for students of all the Undergraduate batches who have excelled in academics was also announced during this cultural event.

RASHTRIYA EKTA DIWAS

The institute celebrated the Rashtriya Ekta Diwas (National Unity Day) with a '**Run for Unity**' on Oct 31, 2017. The day was celebrated to commemorate the 143rd birth anniversary of Sardar Vallabhbhai Patel.

REPUBLIC DAY CELEBRATIONS

The 69th Republic Day celebrations on Jan 26, 2018 began with flag hoisting by **Prof Sudhir K Jain**. To honour and recognize students' excellent academic performance in Semester 1 (2017-18), selected students were awarded in the Dean's List felicitation ceremony.

WINTER CARNATIONS

IITGN's annual carnival night, Winter Carnations was celebrated on the theme of traditions on Jan 7, 2018. The students, faculties, staff members all turned up in the academic block area in beautiful traditional dresses. There were nearly 30 food and games stalls which witnessed interactions and participation of the entire community. The carnival was followed by a stand-up comedy show by the famous **Karunesh Talvar**.

SPORTS NEWS

HALLABOL

Halla Bol was organised during Mar 22-Apr 1, 2018. This is an intra-institute sports festival, that aims to increase interaction among students, staff and faculty of IITGN. The event comprised 13 entertaining games played over 10 days. More than 500 matches attracted 3000 registrations from students, staff and faculty, who formed mixed teams. The

games, played with modified rules, included Futsal, Tug of War, Frisbee, Throwball, Foot Volley, Gully Cricket, 7 Stones, 3 a side Baddy, Dodgeball, Street Hockey and Kho-Kho.

LFP (LEAGUE OF FOOTBALL PLAYERS)

The 8th edition of intra-college football league come to an end this April. The league consisted of 5 teams with total number of 142 players which included students, staff and faculty. The final match between Blitz FC and Rebels United ended in 2-4 score line as Rebels United were crowned champions of LFP 2016-17.

DISHA CUP

IIT Gandhinagar organised the 3rd edition of Disha Cup sports tournament from June 9-11, 2017. The Institute's outsourced and contract workforce actively participated in the annual event and displayed great team spirit.

SUMMER SPORTS CAMP

Summer Sports Camp was organised from June 1-30, 2017 for all games like athletics, basketball, cricket, football, table tennis, volleyball, gymnasium, and yoga under the supervision of the sports coordinator **Mr Dinesh Parmar** and with the guidance of the coaches. Yoga sessions were conducted in the morning from 06:30-08:00 hours and rest of the events were conducted in the evening from 18:30 20:30 hours. The camp was open to all IITGN community and SRIP students.

INTER-IIT SPORTS MEET

A 97-student contingent from IITGN participated in the 52nd Inter IIT Sports Meet held during Dec 15-23, 2017 at IIT Madras. Special appreciation was bestowed upon the teams of Basketball (Boys), Football and Lawn Tennis and Badminton (Girls) for making it to the quarter-finals. IITGN secured fourth rank in the march-past (parade) and Shubhi Maheshwari secured fourth position in high jump, **Julianna Rex, Shubhi Maheshwari, Aastha Soni** and **Anitha D** secured fourth position in the 400-metre relay race.

INTER-IIT CULTURAL MEET

The second Inter-IIT Cultural Meet was held during Dec 28-30, 2017 at IIT Kanpur. Various contests of music, dance, drama, fine arts & design, photography & cinematography and literary arts (speaking, creative writing and quiz) were held as part of the fest. Team Palette and Team 16 Pixels of IITGN secured first position in costume design and online photo story competitions, respectively. Team Palette also ranked third in Online Doodling contest while Team LitSoc ranked fourth in English Poetry Slam and India Quiz.

SRIJA MEMORIAL LEAGUE

This is the first edition of the Intra-college volleyball league called Shrija Memorial League as a commemoration of our senior volleyball player **Ms Srija Vaddineni** who tragically passed away while she was still a student of the institute. After an enthusiastic response from the IITGN community, eight teams were formed through the auction process. The first match of the league started on Feb 9, 2018.

INTERACTIVE SESSION WITH SHAKTI CHAUHAN

Mr Shakti Chauhan, the Assistant Coach of Delhi Dynamos football club, visited the campus on Mar 20, 2018, for an interactive session with the students. He has previously coached the U-16 Girls Team of India. He eagerly answered all the students' questions, giving insights from his own life. His words were a motivation for all to make sports an integral part of their lives.

IITGN BASKETBALL LEAGUE (IBL)

The IITGN Basketball League aimed to provide a platform for the IITGN community to explore basketball, which is the second fastest game in the world, and create a competitive culture at IITGN. This year first edition of the IBL was held from Feb-Apr 2018. Captains were selected from the freshers to give them a new experience and the teams competed hard to win.

SHAURYA'17 – ANNUAL SPORTS FEST OF IIM-AHMEDABAD

This is the tournament where the teams from IITGN participate every year. A total of 10 teams from the institute had participated in the tournament which was held on Oct 6-8, 2017. Of these, four teams reached the semi-finals and one was a finalist. The IITGN frisbee team bagged the silver medal.

4TH INTRA MURAL

Apart from mental skills, one often needs to develop one's physical attributes. Keeping this in mind, intramural activities were organised. These have been an integral part in exploring hidden talent and skills of freshers while simultaneously making them healthy. The opening ceremony included various exercises which enhanced discipline as well as coordination of the students. The activities were mime act, human pyramid, tribal dance and aerobics and zumba dance.

SCHOLARSHIPS FOR STUDENTS

IIT Gandhinagar is committed to ensure that no student has a disadvantage due to financial constraints.

MERIT-CUM- MEANS SCHOLARSHIPS

Merit-cum-Means (MCM) scholarships were awarded to 40 undergraduate and 29 postgraduate students of General and OBC categories during the academic year 2017-18. These scholarships are awarded to meritorious students (a high JEE/JAM rank for first year students and CPI greater than 6.5 for senior students), whose parents have limited income (up to Rs 4.5 lakhs per year). An MCM scholarship carries tuition fee waiver (current value Rs 90,000 per year for undergraduates and Rs 10,000 for postgraduates) and Rs 1,000 per month for ten months. This scholarship was available to undergraduate batches of 2014, 2015 and post graduate batches of 2016 and 2017. In addition, tuition fee waiver (freeship) was also awarded to 6 undergraduate and 4 postgraduate students who did not qualify for MCM on merit but needed financial assistance. All students of SC/ST category avail the tuition fee waiver. In addition, 40 undergraduate and 14 post graduate SC/ST category students whose parents' income was within the limit prescribed for MCM scholarships were granted the facility for free food in the student mess and awarded a pocket allowance of Rs 250 per month for ten months.

S C MEHROTRA SCHOLARSHIP

The S C Mehrotra Scholarship is awarded to a second year civil engineering undergraduate student for the next six semesters. A student who meets the MCM scholarship criteria is eligible for this scholarship. This scholarship carries an amount of Rs 1500 per month for ten months. **Pranav Chakravarthy**, **Anurag Gupta** and **Akshat Bansal** are the recipients of this scholarship for the year 2017-18.

NITEEN P SANT SCHOLARSHIP

The Niteen P Sant Scholarship was instituted by Mr Gaurav N Sant in the year 2014. BTech students of Civil Engineering or Materials Science & Engineering who are in their second year, with a minimum CPI of 6.5 and whose family income is not more than Rs 4,50,000 are eligible to apply. The awardee receives a scholarship of Rs 20,000. **Mukesh Kumar** is the recipient of this scholarship for the year 2017-18.

PROF M H DIVEKAR SCHOLARSHIP

Prof M H Divekar Scholarship is open for the third year UG students of Chemical Engineering. This scholarship is treated as Academic Excellence Scholarship and awarded every year to the student securing highest grade in Chemical Engineering courses at the end of third year. This scholarship carries an amount of Rs 2,000 per month for ten months. **Siddharth Sheshadri K** is the recipient of this scholarship for the year 2017-18.

CLASS-OF-2016 SCHOLARSHIP

The Class-of- 2016 Scholarship was instituted by the IITGN students who graduated in 2016. Students with a minimum CPI of 6.5 (except first year) and whose family annual income is not more than Rs 8,00,000 are eligible to apply. The scholarship carries an amount of Rs 2,000 per month for ten months. **Gaurav Kumar** and **Bedmutha Manas Satish** are the recipients of this scholarship for the year 2017-18.

MAHABIR PRASAD SULTANIA SCHOLARSHIP AND DURGA DEVI SULTANIA SCHOLARSHIP

These two scholarships have been instituted by Mr Deepak Sultania and is awarded to two undergraduate students every year. Students with a minimum CPI of 6.5 (except first year) and whose family annual income is not more than Rs 8,00,000 are eligible for this scholarship. The scholarship carries an amount of Rs 5,000 per month for ten months. **Sagar Gupta** is the recipient of this Mahabir Prasad Scholarship for the year 2017-18. **Sanjeet Kumar Yadav** is the recipient of this Durga Devi Sultania Scholarship for the year 2017-18.

AMALTHEA SCHOLARSHIP

The Amalthea Scholarship was instituted in the year 2016. Students with a minimum CPI of 6.5 (except first year) and whose family annual income is not more than Rs 8,00,000 are eligible to apply. The scholarship carries an amount Rs 5,000 per month for ten months. **Akshay Mittal** and **P S K Sarma** are the recipients of this scholarship for the year 2017-18.

LALITA J SHAH & JAYANTILAL B SHAH SCHOLARSHIP

The Lalita J Shah & Jayantilal B Shah Scholarship was instituted in the year 2016. Students with a minimum CPI of 6.5 (except first year) and whose family annual income is not more than Rs 8,00,000 are eligible for this scholarship. The scholarship carries an amount Rs 2,000 per month for ten months. **Shubham** and **Rishabh Jain** are the recipients of this scholarship for the year 2017-18.

P K KELKAR SCHOLARSHIP

The P K Kelkar Scholarship was instituted in the year 2016. Students with a minimum CPI of 6.5 (except first year) and whose family annual income is not more than Rs 8,00,000 will be eligible for this scholarship. The scholarship carries an amount Rs 2,000 per month for ten months. **Ravi Shrimal** is the recipient of this scholarship for the year 2017-18.

SRI TEMASEK@IITGN SCHOLARSHIP

The Sri Temasek@IITGN Scholarship was instituted in the year 2016. Students with a minimum CPI of 6.5 and whose family annual income is not more than Rs 8,00,000 are eligible to avail this scholarship. The scholarship carries an amount Rs 2,000 per month for ten months. **Rahul Yadav** is the recipient of this scholarship for the year 2017-18.

SATYARAM SCHOLARSHIP

The Satyaram Scholarship was instituted in the year 2016. Students with a minimum CPI of 6.5 (except first year) and whose family annual income is not more than Rs 3,00,000 are eligible for this scholarship. The scholarship carries an amount Rs 10,000 per month for ten months. **Parth Agrawal**, **Anuj Yadav**, **Ayush Kumar Gupta**, **Buddhiraj Sahu**, **Vishnu Karthikeya Narni**, **Patel Vandan**, **Ram Udit Saadh** and **K S Santhosh Kumar** are the recipients of this scholarship for the year 2017-18.

CHANDRAKANT & PATRICIA DESAI SCHOLARSHIP

The Chandrakant and Patricia Desai Scholarship was instituted in the year 2017. Students with a minimum CPI of 6.5 and whose family annual income is not more than Rs 8,00,000 are eligible for this scholarship. The scholarship amount is Rs 5,000 per month for ten months. **Arra Sriya** is the recipient of this scholarship for the year 2017-18.

DR J L NAYYAR SCHOLARSHIP

Dr J L Nayyar scholarship was instituted by Mr Mohinder L Nayyar in the year 2017. Students with a minimum CPI of 6.5 and whose family annual income is not more than Rs. 8,00,000 are eligible for this scholarship. The scholarship amount is Rs 5,000 per month for ten months. **Aketi Sai Aparna** is the recipient of this scholarship for the year 2017-18.

SCHOLARSHIP FOR EXCELLENCE

IITGN has instituted several merit scholarships for outstanding performance in academics, sports, art and culture, and social work and leadership. These scholarships are different from the Merit-cum-Means scholarships and awarded only on the basis of outstanding achievements in respective fields. The scholarship carries a stipend of Rs 2,000 per month for 10 months. Excellence scholarships for the academic year 2017-18 have been awarded as follows:

SCHOLARSHIP FOR EXCELLENCE IN ACADEMICS

Siddharth Sheshadri K (CPI 8.61), **Aketi Sai Aparna** (CPI 9.69), **Vinod Ramakrishnan** (CPI 9.30), **Solanki Vidhi Rasik** (CPI 8.68) and **Kaustubh Shirish Panse** (CPI 9.49) are the recipients of Scholarship for Excellence in Academics for the year 2017-18 from third year batch.

Anusha Kamath (CPI 9.70), **Aparna N Tumkur** (CPI 9.82), **Dsouza Alrick Cyril** (CPI 9.29), **Anurag Kumar Gupta** (CPI 8.69) and **Aman Kamlesh Singh** (CPI 9.00) are the recipients of Scholarship for Excellence in Academics for the year 2017-18 from second year batch.

Khili Khamesra (CPI 9.02), **Shubhranshu Singh** (CPI 9.46), **Rahil Sanwla** (CPI 9.04), **Animesh Rastogi** (CPI 8.80), **Ayan Rakshit** (CPI 9.24) and **Ayush Garg** (CPI 10.22) are the recipients of Scholarship for Excellence in Academics for the year 2017-18 from first year batch.

SCHOLARSHIP FOR EXCELLENCE IN SOCIAL WORK AND LEADERSHIP

The Scholarship for Excellence in Social Work and Leadership is awarded to up to two students for outstanding leadership exhibited by the students either in institutional affairs (including organizing events and in discharging responsibilities in managing students office), or in social work. **Patel Zainab Shabbar** was awarded the scholarship for Excellence in Social Work and Leadership for the year 2017-18.

CASH AWARD FOR RESEARCH PUBLICATIONS

In its 9th meeting on March 28, 2013 the Board of Governors had approved a cash award scheme as an incentive for undergraduate and postgraduate students to publish in peer-reviewed journals. The following students were given cash awards during the year 2017-18:

NAME OF THE STUDENT	PROGRAMME	AMOUNT (IN RS)
Rushi Jariwala	BTech (alumnus)	12500
Ishan Upadhyaya	BTech (alumnus)	12500
Dipen Somani	BTech (alumnus)	12500
Nilay Thakor	BTech (alumnus)	12500
Nilkumar Mathur	MTech	12500
K Shravan Kumar	MTech (alumnus)	25000
Milan Rathod	MTech (alumnus)	12500
Kunal Ghaisas	MTech (alumnus)	25000
Amruta Chatte	MTech (alumnus)	12500
Ravi Verma	MTech (alumnus)	25000
Mohd Umair Iqbal	MTech (alumnus)	25000
Nikhil Joshi	MTech (alumnus)	12500
Bhawna Panjwani	MTech (alumnus)	25000
Haider Ali	PhD	25000
Gopala Krishna Rodda	PhD	25000
P Ravi Prakash	PhD	25000
Murali Krishna Enduri	PhD	25000
Ram Baran verma	PhD	25000
Ram Baran Verma	PhD	25000
Gagan Kanojia	PhD	25000
Anirban Roy	PhD	12500
Chandan Kumar Jha	PhD	12500
Mohammad Yousuf Jamal	PhD	25000
Rajendra Nagar	PhD	25000
Ajinkya Sarode	PhD	12500
Zeeshan Ahmed	PhD	12500
Fairoos C	PhD	25000
Zarin A S	PhD	12500
Swaroop Chakraborty	PhD	12500
Divita Singh	PhD	25000
Sanat Chandra Maiti	PhD	12500
Bhanu Pratap Singh Gangwar	PhD	25000
Amit Reza	PhD	25000
Archini Paruthi	PhD	25000
Komal Pandey	PhD	12500

NAME OF THE STUDENT	PROGRAMME	AMOUNT (IN RS)
Mahesh Kutwal	PhD	25000
Renika Baruah	PhD	25000
Bhanu Pratap Singh Gangwar	PhD	12500
Vrutangkumar V Shah	PhD	25000
Soumen Roy	PhD	12500
Punitkumar Bhavsar	PhD	12500
Sharad Joshi	PhD	25000
Rahul Kumar Kaushal	PhD	25000
Anukesh Krishnankutty Ambika	PhD	25000
Saran Aadhar	PhD	25000
Abhijeet Ojha	PhD	25000
Lata Rani	PhD	25000
Krishna Manwani	PhD	25000
Prathap Reddy Patlolla	PhD	25000
Manu Kurian	PhD	25000
Rahul Kumar	PhD	25000
Annie Rachel Royson (Annie Rachel George)	PhD	25000
Annie Rachel Royson (Annie Rachel George)	PhD	25000
Yogesh Fulpagare	PhD	25000
Sophia Varghese	PhD	25000
Ramendra Sahoo	PhD	25000
Katla Jagadish Kumar	PhD	25000
Katla Jagadish Kumar	PhD	12500
Sonam	PhD	25000
Tony Thomas	PhD	25000
Gopala Krishna Rodda	PhD	25000
Gunda Harini	PhD	12500
Saroj Kumar Das	PhD	12500
Murali Krishna Enduri	PhD	12500
I Vinod Kumar Reddy	PhD	12500
Tvarit Patel	PhD	12500
Chetan Singh	PhD	12500
Fairoos C	PhD	25000
Anuji K V	PhD (alumnus)	10417

AWARDS AND RECOGNITION

Abhijeet Ojha, a PhD student has been awarded for the best research poster among 206 participants from around 42 countries at International Conference on Applied Surface Science organised by Elsevier Publishers group in Dalian City, China

The team of **Anurag Singhania**, **Gunda Harini** and **Prof Kabeer Jasuja** from the discipline of Chemical Engineering received the **People's Choice Award** in the Nano Artography 2017 contest. Their picture titled **The flower and the bud** captures the flower-like morphology of a self-assembled nanostructure, which they observed under an electron microscope while developing a recipe to synthesise nanoforms of boron. The size of the bud is ~1 micron!

Harini G, a PhD student, won the **best poster award** at the International Conference on Advanced Nanomaterials and Nanotechnology (ICANN) 2017, organised by IIT Guwahati. Her paper was titled S**imple, green, and high-yield production of boron-based nanostructures with diverse morphologies by dissolution and recrystallization of layered magnesium diboride crystals in water**

Amarjyoti Das Mahapatra, a PhD student at IITGN, won the **best oral presentation award** at CARBO XXXII's Emerging Chemistry and Biology of Carbohydrates, organised by IIT Kharagpur

Akarsh A, a PhD student in Earth Sciences, has been selected for the **Water Advanced Research and Innovation (WARI) Internship Programme**, supported by the Department of Science and Technology (Government of India), the University of Nebraska-Lincoln (UNL), Daugherty Water for Food Institute and Indo-US Science and Technology Forum (IUSSTF). He will be spending six months at the UNL

Sanjay K, a PhD student in Chemistry, won **second prize** for his presentation at the International Conference on Biological Applications of Nanoparticles (ICON) 2017, held at IIT Madras

Archini Paruthi and **Prateek Goyal**, PhD students in Materials Science and Engineering, won the **best oral presentation award** in the category of Diverse Applications and Energy & Nanoelectronics, respectively, at the International Conference on Nanotechnology: Ideas, Innovation and Initiatives 2017, IIT Roorkee

Siddhant Bhoir, a PhD student has received the Fulbright-Nehru Doctoral Research Fellowship for the year 2018-19

Javeena, a PhD student has been selected for Overseas Research Fellowship, Massachusetts Institute of Technology, Boston, USA, Oct 2017

Althaf Shaik, a PhD Student has been selected for IITGN Overseas fellowship, UT Southwestern, Texas, USA

Gaurav Sharma, class of 2016, IITGN received Academic Excellence Fellowship from Carnegie Mellon University along with the MS in Computation Biology admission offer letter. It is the highest fellowship awarded to incoming students

Piue Ghosh, a PhD student in Electrical Engineering and **Varsha Thambi**, a PhD student in Chemistry won the **Best Poster Award** at the 3rd IEEE Workshop on Recent Advances in Photonics (WRAP) 2017, Hyderabad. The paper is titled **Synthesis of gold nanorods with tunable surface plasmon resonance for near-infrared biosensing applications**

R Srimadhavi, Althaf Shaik, Parul Duhan, Vijay Thiruvenkatam, Sivapriya Kirubakaran, has received travel support - Design and Synthesis of Small Molecules as Effective Inhibitors of Ataxia Telangiectasia Mutated - A key mediator of the DNA damage and response pathway in the International congress of cell biology, Organised by CSIR Centre of Cellular and Molecular Biology, Hyderabad, Jan 27-31, 2018 (Travel Award)

Asha Liza James, a PhD student won the **best poster award** titled **Boron based nanosheets as reductive templates: towards mixed dimensional heterostructures** at the International Conference on Nano Science and Technology (ICONSAT) 2018 organised by the Centre for Nano and Soft Matter Sciences (CeNS), Bengaluru, Mar 2018

Asha Liza James, a PhD student won the best poster award titled **Chemically active boron based nanosheets decorated with gold nanoparticles** at the National Conference on Chemistry of Materials and Biologicals, IITGN, Jan 2018

STAFF ACTIVITIES

ESTABLISHMENT OF STAFF DEVELOPMENT CELL

The **Staff Development Cell** (SDC) at IITGN was constituted on Apr 11, 2017 with the objective of facilitating personal and professional growth of the non-teaching staff. The SDC is committed to facilitating the capacity building of all the staff colleagues, who are the backbone of the institute's human resource. The SDC took its first steps by planning activities that would upgrade and update the knowledge and skill sets of staff, a human resource greatly valued at IITGN. The SDC has been conducting regular biweekly sessions on a variety of aspects ranging from professional growth to life skills development. The cell has effectively used various in-house as well as external resource persons for conducting sessions on topics such as leave rules, body language, emotional intelligence, email writing, team-work, stress management in work and life, financial literacy, communication skills etc. The SDC also introduced peer-learning groups to improve the English language skills of the staff members. The SDC has also taken initiatives for enhancing inter-department interaction and collegiality amongst the staff. These initiatives include an annual indoor event and an outdoor activity session. **Prof Umashankar Singh** is the Chairman and **Mr Krishan Birhman**, coordinator of the Staff Development Cell.

STRIDES: EVENING ABOUT YOU

Strides: An Evening About You was organised on Jul 15, 2017 by the Staff Development Cell. The IITGN community participated in the event and showcased their talent with great enthusiasm. The cultural evening included dance, music, skit and poetry by members of the staff and faculty and their families.

EXCELLENCE AWARDS TO STAFF

The 69th Republic Day celebrations on Jan 26, 2018 began with flag hoisting by **Prof Sudhir K Jain**. The following staff members were awarded the Staff Excellence Awards for the year 2017-18. Through these awards the Institute formally recognizes the sustained devotion and exemplary service of its employees.

Mr Sumit Kumar - security supervisor
Mr Tenils Solanki - junior superintendent
Mr Gaurav Shukla - junior superintendent
Ms Ankita Bhandari - administration assistant
Mr Tej Bahadur Gurung - junior assistant
Mr Pragnesh Parikh - junior technical superintendent
Ms Anandiben Sonara - Day Care Centre helper
Mr Anil Bodar - physiotherapy assistant
Mr Sujit Shah - junior assistant
Mr Shailesh Vaghela - housekeeping staff

EXTERNAL RELATIONS

RESEARCH PARK AT IITGN

IITGN has established a Research Park in the campus to boost industry academia collaboration and innovation in the form of a not-for-profit (Section 8) company. The institute plans to build around 200,000 sq ft space for the research park in next couple of years. However, it has identified and earmarked around 26,000 sq ft of existing space to start the activities even before the construction of permanent buildings starts. **Gujarat Urja Vikas Nigam Ltd** (GUVNL) became the first company to start its R&D unit at the IITGN Research Park.

PARTNERSHIP WITH JAIST

Dr Tetsuo Asano, President, Japan Advanced Institute of Science and Technology (JAIST) visited the Institute and signed an agreement on Aug 28, 2017 to offer a double Master's degree program. The selected students of both institutes will spend one year at the host institute and one year at the parent institute and concurrently earn two Master's degrees, one from IITGN, and the other from JAIST. Both the institutes have shared an extremely vibrant partnership since 2013.

RELATIONSHIP WITH UNIVERSITY OF JAFFNA

IITGN has been interested in developing partnerships with universities in the neighbouring countries. A delegation of **Prof Amit Prashant** and **Prof K Chelvakumar** visited some universities in Sri Lanka in Feb 2016 and Sep 2017 and it was felt that a partnership with University of Jaffna will be most viable. Three undergraduate students of Uof J carried out summer research internships at IITGN in summer of 2017. An memorandum of understanding (MoU) was signed between IITGN and University of Jaffna on Sep 18, 2017 to promote research and academic exchanges. The Consul General of India at Jaffna, **Mr Natarajan** presided over the occasion. **Prof Amit Prashant**, Dean of Academic Affairs, and **Prof K Chelvakumar**, visiting professor have been leading the efforts from IITGN.

GEER FOUNDATION

An MoU was signed with the director of Gujarat Ecological Education and Research (GEER) Foundation **Mr R D Kamboj** on Mar 20, 2018 to promote scientific and academic cooperation and collaboration in the field of ecological research, education, and sustainable development.

AGREEMENT WITH GIDM

Gujarat Institute of Disaster Management (GIDM) and IITGN entered into an agreement to cooperate on training, research, documentation, case study, consultancy / advisory services on disaster resistant construction technology and fire safety. The MoU was signed by IITGN Director **Prof Sudhir K Jain** and Director General of GIDM **Mr P K Taneja** on Mar 23, 2018.

PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY

IITGN Director **Prof Sudhir K Jain** and Papua New Guinea University of Technology (PNG Unitech) Vice Chancellor **Dr Albert Schram** signed a memorandum of understanding (MoU) during the latter's visit to IITGN on Jan 10, 2018. As per the MoU, IITGN will accept two applicants from PNG Unitech for the master's degree (MSc or MTech) on yearly basis.

MoUs

IITGN has been constantly building strong and mutually beneficial relationships with internationally renowned academic institutions and non-academic organisations. Several partnerships forged in the year 2017-18 will benefit the students and the faculty.

INTERNATIONAL

ORGANISATION/INSTITUTION	OBJECTIVE
Portuguese Foundation for Science and Technology	Cooperation in the fields of higher education and scientific research
Japan Advanced Institute of Science and Technology, Japan (JAIST)	Double master's degree programme
University of Jaffna, Sri Lanka	To promote research and academic exchanges
Papua New Guinea University of Technology, Lae Morobe	IITGN and PNG Unitech will mutually accept two Masters students

NATIONAL

ORGANISATION/INSTITUTION	OBJECTIVE
Physical Research Laboratory (PRL), Ahmedabad	To promote and enhance academic interaction and collaboration in areas of education and research
Alumni of IIT Bombay- Class of 1975	Donation in cash and kind towards setting up a Tinkerer's Lab on the campus of IITGN
Final Mile Consultants Pvt Ltd, Mumbai	IITGN shall provide access to Cognitive Science laboratory to researchers
Deshpande Foundation, India	To facilitate students and faculty in getting involved with Deshpande Foundation through internships, fellowships
Institute for Plasma Research, Gandhinagar	To undertake research activities on advanced nano-tracers for product life cycle assessment and product monitoring – IMPRINT Scheme
Embassy of France in India	French language tutor programme
Gujarat Ecological Education and Research Foundation, Gandhinagar	Exchange of knowledge and expertise through collaboration for ongoing and proposed joint research projects
Gujarat Institute of Disaster Management, Gandhinagar	Joint training courses and projects on disaster reduction

IITGN RESEARCH PARK

ORGANISATION/INSTITUTION	OBJECTIVE
Gujarat Urja Vikas Nigam Ltd, Vadodara	To set up and operate an R&D unit at the premises of IITGN
BBC World Service India Pvt Ltd, New Delhi	To set up and operate a satellite unit at the premises of IITGN
Indian Institute of Public Health Gandhinagar	To set up and operate a project office at the premises of IITGN
Final Mile Consultants Pvt Ltd, Mumbai	To set up and operate an R&D unit at the premises of IITGN

REACHING OUT

Prof Sudhir K Jain, Director, visited the United States in November 2017 and reached out to potential faculty candidates, well-wishers and donors. He also delivered a talk titled **The IIT Gandhinagar story: opportunities and challenges in building a world-class institution** at Massachusetts Institute of Technology, University of Maryland, California Institute of Technology, the University of California, San Diego, University of California, Los Angeles and University of California, Berkeley.

Prof Pratik Mutha reached out to potential faculty candidates at the University of Houston, University of Texas at Austin, and Georgia Tech University and **Prof Amit Arora** interacted with several potential faculty candidates at the Pennsylvania State University.

Prof Sudhir K Jain participated in a meeting of the directors of the IITs, IISERs and IISc hosted by the President of India in his capacity as Visitor of these institutes. The President of India was a keen listener in all 31 presentations made by the directors on achievements and challenges of the respective institutes. It is heartening to see the confidence being placed in the role of the IITs in nation building.

SUPPORT FOR THE INSTITUTE

MAJOR NEW GIFTS

ESTABLISHMENT OF MAULANA ABUL KALAM AZAD CHAIR

Mrs Hamida Banu Chopra has established a generous endowment to create the **Maulana Abul Kalam Azad Chair** at IITGN for the teaching of Urdu. Maulana Azad, a visionary and a scholar, was the first education minister of independent India and played a critical role in the creation of the IIT system. Mrs Chopra, who holds an MA in Philosophy from Udaipur University (1961) and Adeeb Kamil from Jamia Urdu Aligarh University (1971), has taught Urdu at the University of California at Berkeley and IIT Gandhinagar. She has published several English translations and lectured extensively on seminal Urdu poets, such as Sahir Ludhanvi, Ghalib and Faiz Ahmad Faiz.

BHALODIA FUND AT CALTECH

Dr Mohan A Bhalodia and **Mrs Rasila M Bhalodia** have set up a fund to support two IITGN students per year for the next ten years to conduct summer research at the California Institute of Technology (Caltech). Since 2011, between 6 to 8 IITGN students have participated every year in the Summer Undergraduate Research Fellowship (SURF) at Caltech and this fund will serve to strengthen this exchange at Caltech. Dr Bhalodia is a veteran professional of refinery operations and control, and retired from ExxonMobil. He obtained a BE in Chemical Engineering (1968) from M S University, Baroda, and a PhD (1973) from the State University of New York.

CLASS-OF-1975 ALUMNI OF IIT BOMBAY

A Tinkering Laboratory supported by Class-of-1975 alumni of IIT Bombay, was inaugurated on Jan 13, 2018 by **Prof S P Sukhatme**, former Director of IIT Bombay. Students have open access to this facility on a 24x7 basis.

FUND TO SUPPORT IITGN'S EXPLORER FELLOWSHIP

Mr Bhupen Shah has provided substantial funds to support IIT Gandhinagar's Explorer Fellowship. Mr Shah has over 25 years of experience in technology development, product development, and engineering management in embedded digital media and communication solutions at Sling Media, Emuzed, Dazzle, RealChip, Philips Semiconductors, IBM, etc.

NEW SCHOLARSHIPS

KANDOI-DAIRKEE-GAURAV SCHOLARSHIP



Mr Abhishek Kandoi, **Mr Maisum Ali Dairkee** and **Mr Anchit Gaurav** (Pioneer batch BTech graduates of 2012) have set up an undergraduate scholarship of Rs 50,000 per year. The scholarship is to be awarded to a student who is actively involved in co-curricular activities and shows promise of all rounded growth. **This is the first named scholarship by alumni of IITGN.**

SULTANIA SCHOLARSHIPS

Mr Deepak Sultania has setup two scholarships of Rs 50,000 per year for undergraduate students: **Mahabir Prasad Sultania Scholarship** and **Durga Devi Sultania Scholarship**. Mr Sultania is the Director of Durga Bearings group, the largest distributor of bearings in India. Starting at an early age in business, he has a rich and varied experience of 37 years in the bearing trade. He is father of an alumnus of IIT Gandhinagar and has set up these scholarships to honour his parents. **Sri Mahabir Prasad Sultania** was the founder of Durga Enterprises. **These are the first scholarships set up by parents of our alumni.**

PROF K V VENKATESHA MURTHY SCHOLARSHIP

Mrs Usha Murthy has set up a scholarship of Rs 50,000 per year for BTech students of Electrical Engineering in honour of her late husband **Prof K V V Murthy**. Prof Murthy was one of the pioneer faculty members of IIT Gandhinagar who joined the newly established institute on Dec 29, 2009. He was a passionate teacher with an infectious enthusiasm for the subjects that he taught.

PROFESSOR D V PAI SCHOLARSHIP

Prof D V Pai has set up a scholarship for the students of MSc program in Mathematics. Prof Pai is one of the pioneer faculty members of IIT Gandhinagar, who joined the institute in Aug 2008. He obtained his BSc (Hons) and MSc (Mathematics) from Mumbai University, and a PhD from IIT Bombay. He also served as President, Indian Mathematical society during the year 2016-17.

MRS SITA JHA MEMORIAL SCHOLARSHIP

Mr Nirmal Jha has setup a scholarship of Rs 50,000 per year for BTech students in honour of his mother **Smt Sita Jha**. Mr Jha has more than 38 years of experience in the multinational power industry across Asia, USA and China. He has also served on the board of several international companies. He is currently associated with IIT Gandhinagar as Advisor (Industry Partnerships). Mr Jha obtained a BTech in Electrical Engineering from IIT Kanpur in 1977.

SANTOSH RANI TANDON SCHOLARSHIP

Prof Mahesh Tandon has setup a scholarship for one girl student to carry out summer research internship overseas in the area of structural engineering. Prof Tandon is the managing director, Tandon Consultants Pvt Ltd, Delhi. He is a renowned structural engineer and has designed numerous challenging projects. His special areas of interest includes motivating the next generation to adopt civil engineering as their profession. The scholarship has been set up in honour of his mother **Smt Santosh Rani Tandon.**

CLASS-OF-2015 SCHOLARSHIPS

The **Class-of-2015 alumni** have set up undergraduate scholarships of Rs 20,000 per year. This scholarship will be awarded initially to one undergraduate student starting in 2017-18. The number of scholarships will increase by one every year till it reaches to four scholarships by the year 2020-21.

DONORS LIST

NAME	CATEGORY	CITY
RS 25,00,000 - 99,99,999		
Gujarat Mineral Development Corporation Ltd	well-wisher	Ahmedabad
Anil and Hamida Banu Chopra	well-wisher	Orinda, USA
Anonymous	well-wisher	Palo Alto, USA
RS 5,00,000 - 24,99,999		
Desai Foundation	well-wisher	Mumbai
Sandeep Singhal and Kavita Iyer	well-wisher	Bangalore
Atul Jain	well-wisher	Virginia, USA
Tata Motors Limited	well-wisher	Mumbai
Cumulus Systems Private Limited	well-wisher	Pune
Durga Bearings Mumbai Pvt Ltd	well-wisher	Mumbai
Suman Marble (I) Private Limited	well-wisher	Mumbai
Ruyintan Mehta	well-wisher	New Jersey, USA
Usha Murthy	well-wisher	Mumbai
Bhupen Shah	well-wisher	San Francisco, USA
Piyush Shah	well-wisher	Ahmedabad
Mahesh Tandon	well-wisher	New Delhi
Venkatsai Laxman Vangipurapu	well-wisher	Ahmedabad
RS 1,00,000 - 4,99,999		
Abhishek Kandoi	BT/ME/2012	Jodhpur
Ramesh Gaonkar	faculty	New York, USA
Sudhir K Jain	faculty	Gandhinagar
D V Pai	faculty	Gandhinagar
R Sharan	faculty	Gandhinagar
Manish Jain	staff	Gandhinagar
Nirmal Jha	staff	Gandhinagar
Kamlesh Dwivedi	well-wisher	Greenwood Village, USA
Atlas Foundation	well-wisher	Ahmedabad
Science for Monks	well-wisher	Gandhinagar
HUDCO	well-wisher	New Delhi
Anonymous	well-wisher	USA
Karen Peterson	well-wisher	Massachusetts, USA
Gaurav Sant	well-wisher	California, USA
Nitish Thakor	well-wisher	Clarksville, USA
Ahmedabad University	well-wisher	Ahmedabad
RS 25,000 - 99,999		
Anchit Gaurav	BT/ME/2012	Navi Mumbai
S P Mehrotra	faculty	Gandhinagar
Neeldhara Misra	faculty	Gandhinagar
Pratik Mutha	faculty	Gandhinagar
D P Roy	faculty	Gandhinagar
Meera Mary Sunny	faculty	Gandhinagar

NAME	CATEGORY	CITY
Abhay Bhushan	well-wisher	Palo Alto, USA
Ticknor Christopher	well-wisher	Los Alamos, USA
Hemant Gor	well-wisher	Sharjah
Ram Misra	well-wisher	Montville, USA
Chris Olivers	well-wisher	Amsterdam
Dheeraj Sanghi	well-wisher	Kanpur
Shyam Sunder	well-wisher	Connecticut, USA
RS 5,000 - 24,999		
Tanmay Balwa	BT/ME/2012	Bangalore
Luv Gupta	BT/CL/2012	Bangalore
Sarthak Jain	BT/EE/2012	Mumbai
Aditi Dighe	BT/EE/2013	Durham, USA
Adit Gupta	BT/CL/2013	Mumbai
Shalinee Kavadiya	BT/CL/2013	St Louis, USA
Sandeep Reddy Panuganti	BT/EE/2013	Maryland, USA
Mohak Patel	BT/ME/2013	Mehsana
Ramesh Kumar	BT/ME/2015	Bettiah
Ronak Mehta	BT/ME/2015	San Francisco, USA
Abhishek Navarkar	BT/ME/2015	Bangalore
Akshay Randad	BT/ME/2015	Seattle, USA
Parth Sane	BT/EE/2015	Bangalore
Akash Keshav Singh	BT/ME/2015	Kushinagar
Kinley Mehra	MSc/CG/2015	Torrington, USA
Salecha Kushal Dilipkumar	BT/EE/2016	Ahmedabad
Ajinkya Tupkar Jain	BT/EE/2016	Indore
Ravi Kumar	BT/EE/2016	Kota
Rakesh Ranjan	BT/ME/2016	Banka
Muzammil Moinuddin Rawoot	BT/ME/2016	Thane
Margaj Om Vijay	BT/ME/2016	Aurangabad
Priyanka	BT/CL/2017	Begusarai
Chandrakumar Appayee	faculty	Gandhinagar
Atul Bhargav	faculty	Gandhinagar
Arup Lal Chakraborty	faculty	Gandhinagar
Michel Danino	faculty	Gandhinagar
Sriram K Gundimeda	faculty	Gandhinagar
Shivakumar Jolad	faculty	Gandhinagar
Sharmistha Majumdar	faculty	Gandhinagar
Nihar Ranjan Mohapatra	faculty	Gandhinagar
S L Narayanamurthy	faculty*	Gandhinagar
Vinod Narayanan	faculty	Gandhinagar
Ajanta Sachan	faculty	Gandhinagar
Sudhanshu Sharma	faculty	Gandhinagar
P K Chopra	staff	Gandhinagar
Meena Joshi	staff	Gandhinagar
T S Kumbar	staff	Gandhinagar
Pijush Majumdar	staff	Gandhinagar
Sunita Menon	staff	Gandhinagar

*For part of the year

NAME	CATEGORY	CITY
C S Sharma	staff	Gandhinagar
Anonymous	well-wisher	-----
Little India	well-wisher	USA
Rita & Minesh Kinkhabwala	well-wisher	New Jersey, USA
Vijaykumar R Kulkarni	well-wisher	Mumbai
Swarn Kumar	well-wisher	Patna
Vijay Dashrathlal Shah	well-wisher	Ahmedabad
Vineet Singh	well-wisher	Bangalore
Balkrishna B Soneji	well-wisher	Ahmedabad
Chandra Srivastava	well-wisher	New Jersey, USA
UPTO RS 4,999		
Shaikh Siddhik Hussain	BT/EE/2012	Vadodara
Ajinkya Mukund Kulkarni	BT/ME/2012	Mumbai
Abhik Patel	BT/ME/2012	Mumbai
Swati Verma	BT/ME/2012	New Delhi
Dhruv Chokshi	BT/EE/2013	Hanover, Germany
Rohit Chouksey	BT/ME/2013	Corlu, Turkey
Ajinkya Dahale	BT/ME/2013	Mumbai
Gourav Dubey	BT/ME/2013	Bangkok, Thailand
Rajat Jain	BT/ME/2013	Jaipur
Shruti Jain	BT/CL/2013	Austin, USA
Chetas Joshi	BT/EE/2013	Santa Clara, USA
Shyamal Kishore	BT/ME/2013	Kingston, USA
Shashank Naphade	BT/EE/2013	Nagpur
Arth M Patel	BT/CL/2013	Ahmedabad
Rudra Prasad	BT/ME/2013	Bokaro
Ekta Prashnani	BT/EE/2013	Bokaro
Ayesha Sayed	BT/EE/2013	West Lafayette, USA
Yash Shah	BT/ME/2013	Ahmedabad
Pratham Shah	BT/ME/2013	Mumbai
Nagender Singh	BT/CL/2013	Meerut
Kishan Suthar	BT/EE/2013	Sirohi
Mohit Verma	BT/CL/2013	Indore
Monica Yadav	BT/CL/2013	New Delhi
Shivani Rani	MT/CE/2013	Norman, USA
Yash Kotak	BT/EE/2014	Vadodara
Sushrut Pramod Meshram	BT/EE/2014	Nagpur
Shah Jinesh Rajesh	BT/ME/2014	Mumbai
Dhwanil Shukla	BT/ME/2014	Atlanta, USA
Abhay C A	BT/ME/2015	North Paravur
Akash	BT/ME/2015	Pune
Aryan	BT/ME/2015	Muzaffarpur
Ajay Devedwal	BT/ME/2015	Jaipur
Sukriti Gakhar	BT/CL/2015	Davis, USA
Vaibhav Gandhi	BT/EE/2015	San Diego, USA
Aalok Gangopadhyay	BT/EE/2015	Gandhinagar
Parth Gudhka	BT/EE/2015	Gandhinagar

NAME	CATEGORY	CITY
Anshul Gupta	BT/ME/2015	Bangalore
Rahul Harnotia	BT/ME/2015	Delhi
Mishita Jaiswal	BT/EE/2015	Jabalpur
Rahul Khandait	BT/CL/2015	Vadodara
Prem Prakash Meena	BT/CL/2015	Sawai Madhopur
Rounak Mehta	BT/ME/2015	San Francisco, USA
Shreyans Nahar	BT/ME/2015	Savroli
Lakshminarasimhan Narayanan	BT/ME/2015	Hyattsville, USA
Sai Teja Pachipulusu	BT/ME/2015	Hyderabad
Vivek Prakash	BT/ME/2015	Jharkhand
Aashrith Saraswathibhatla	BT/ME/2015	Madison, USA
Preet Shah	BT/EE/2015	Mumbai
Dhyey Shah	BT/ME/2015	Ahmedabad
Mihika Shah	BT/CL/2015	Mumbai
Abhishek Singh	BT/EE/2015	Unnao
Saurabh Singhal	BT/ME/2015	Bundi
Madan Janardan Taldevkar	BT/ME/2015	Rudrapur
Eepsit Tiwari	BT/ME/2015	Gandhinagar
Prashant Verma	BT/EE/2015	Bikaner
Nandan Vora	BT/CL/2015	Bloomfield, USA
Vishal Yadav	BT/ME/2015	Noida
Chinmay Ajnadkar	BT/EE/2016	North Carolina, USA
P V S Anurag	BT/ME/2016	Bareilly
Sanchayni Bagade	BT/CL/2016	Bangalore
Naman Bansal	BT/EE/2016	Jind
Gullapally Sai Chowdary	BT/EE/2016	Hyderabad
Rocky Dongre	BT/ME/2016	Bhilai Nagar
Rahul Garg	BT/ME/2016	Sirohi
Ashish Kumar Gupta	BT/EE/2016	Ahmedabad
Sanjit Jena	BT/ME/2016	Jamnagar
Lavdeep Kaur	BT/CL/2016	Gandhinagar
Paturu Veerabadra Lokesh	BT/EE/2016	Nellore
Vivek Maida	BT/CL/2016	Banswara
Yash Mehta	BT/EE/2016	Houston, USA
Rahul Pancholi	BT/CL/2016	Mumbai
Ankit Pandole	BT/CL/2016	Gandhinagar
Virendra Singh Panwar	BT/CL/2016	Jaipur
Abhishek Ranjan	BT/EE/2016	Lohardaga
Medaramatla Sidhartha Reddy	BT/EE/2016	Puntagutta
Sunil Sahra	BT/CL/2016	Karauli
Pranshul Saini	BT/ME/2016	Mandi
Gaurav Sharma	BT/ME/2016	Ghaziabad
Raj Shekhar	BT/EE/2016	Allahabad
Prashant Shekhar	BT/CL/2016	Kota
Alok Singh	BT/EE/2016	Allahabad
Abhinav Singh	BT/ME/2016	Ahmedabad
Manjot Singh	BT/CL/2016	Bangalore

NAME	CATEGORY	CITY
Konduru Venkata Naga Sai Ravi Teja	BT/ME/2016	Guntur
Divyansh Tripathi	BT/ME/2016	Jabalpur
Saurabh Sandeep Vaichal	BT/ME/2016	Aurangabad
Samarth Sanjiv Vaijanapurkar	BT/ME/2016	Surat
Alpana Thorat	PhD/CL/2016	West Lafayette, USA
Srinivasan A	BT/CE/2017	Chennai
Ankit Agarwal	BT/ME/2017	New Delhi
Anurag Agrawal	BT/ME/2017	Pune
Vikram Alriya	BT/EE/2017	Jaipur
Rishab Anand	BT/EE/2017	Mumbai
Abhishek Anand	BT/CE/2017	Bangalore
Aparna Arya	BT/EE/2017	New Delhi
Ankit Pritam Bhange	BT/EE/2017	Mumbai
Thakor Nilaysinh Bharatsinh	BT/ME/2017	Valsad
Prathyusha Challa	BT/ME/2017	Mumbai
Manu Chaudhary	BT/CE/2017	Ahmedabad
Manjeet Chaudhary	BT/EE/2017	New Delhi
Shaleen Chhajer	BT/CE/2017	Barauni
Aravind Damacharla	BT/EE/2017	Bangalore
Rushabh Desadla	BT/CL/2017	Pune
Kunal Devedwal	BT/ME/2017	Jaipur
Bhosale Surajkumar Dhananjay	BT/ME/2017	Ahmedabad
Pradeep Diwakar	BT/CL/2017	New Delhi
Aditya Ganesh	BT/EE/2017	Mumbai
Jitendra Gehlot	BT/ME/2017	Jodhpur
Pratham Goel	BT/EE/2017	Mumbai
Sakkari Akash Goud	BT/CE/2017	Nirmal
Vaibhav Gupta	BT/ME/2017	Bareilly
Rajat Kumar Gupta	BT/CL/2017	Bangalore
Patil Shubham Hanumant	BT/EE/2017	Gurgaon
Doshi Darshil Hiteshbhai	BT/EE/2017	Gandhinagar
Devanshu Manoj Jain	BT/CL/2017	Kolkata
Rishabh Jain	BT/CE/2017	New Delhi
Yogendra Jaiswal	BT/CE/2017	New Delhi
Rushi Jariwala	BT/EE/2017	Mumbai
Ojas Yashwant Joshi	BT/ME/2017	Pune
Vaibhav Joshi	BT/CL/2017	Mumbai
Kesani Kalyani	BT/CL/2017	Hyderabad
Anikesh Satish Kamath	BT/EE/2017	Austin, USA
Patel Kishankumar Kaushikbhai	BT/CL/2017	Gainesville City, USA
Harsh Khandelwal	BT/CL/2017	Ahmedabad
Mayank Khewaria	BT/CE/2017	Pune
Aashish Kose	BT/CE/2017	Ujjain
Amber Kothari	BT/ME/2017	Solapur
Jitendra Kuldeep	BT/EE/2017	Jaipur
Dharmendra Kumar	BT/CE/2017	Bangalore

NAME	CATEGORY	CITY
Pabbathi Akhil Kumar	BT/EE/2017	Bangalore
Punit Kumar	BT/CE/2017	New Delhi
Purushottam Kumar	BT/CL/2017	Kanpur
Rahul Kumar	BT/CE/2017	Mehsana
Sachin Kumar	BT/CE/2017	New Delhi
Shailendra Kumar	BT/CE/2017	New Delhi
Sumit Kumar	BT/ME/2017	Gandhinagar
Suman Kumari	BT/CL/2017	Gurgaon
Suryakumar Mane	BT/ME/2017	Hyderabad
Jainidhi Maurya	BT/CL/2017	Vapi
Devendra Meena	BT/ME/2017	New Delhi
Sumit Kumar Meena	BT/EE/2017	Alwar
Ankit Mittal	BT/ME/2017	Ahmedabad
Lokeshwar Naik K	BT/EE/2017	Chennai
Rohit Nanavati	BT/ME/2017	Surat
Niharika	BT/EE/2017	Patna
Nishanth	BT/ME/2017	Ahmedabad
Osker	BT/CE/2017	Panipat
Kashyap Patel	BT/EE/2017	Gandhinagar
Kapil Pathak	BT/EE/2017	Bangalore
Pawan	BT/ME/2017	New Delhi
Mane Prasannajeet Pradip	BT/ME/2017	Earley, England
Pomraj Prajapat	BT/CE/2017	Nagaur
Vipin Prajapati	BT/EE/2017	Ahmedabad
Ramniwas	BT/CL/2017	Jodhpur
Dewansh Rastogi	BT/CL/2017	Kanpur
Abhishek Raut	BT/ME/2017	Bangalore
Nisha Rawat	BT/CL/2017	Mumbai
Chenchala Sai Ramana Reddy	BT/EE/2017	Bangalore
Bubna Rakesh Rishi	BT/ME/2017	Mumbai
Ekta Umesh Samani	BT/EE/2017	Mangalore
Vyas Samir	BT/EE/2017	New Delhi
Aditya Shah	BT/EE/2017	Mumbai
Kanak Sharma	BT/ME/2017	Gandhinagar
Nikhil Sharma	BT/CE/2017	Jaipur
Namana Naga Sindhu	BT/EE/2017	New Delhi
Kshitij Singh	BT/EE/2017	Mumbai
Lokesh Singh	BT/EE/2017	Jaipur
Prerna Singh	BT/CE/2017	Atlanta, USA
Suman Kumar Singh	BT/CL/2017	Madhubani
Anurag Singhania	BT/CL/2017	Kolkata
Sourabh Soni	BT/CL/2017	Gandhinagar
Guguloth Srinivas	BT/ME/2017	Mahbubabad
Nikhil Tank	BT/EE/2017	Pali
Amit Tiwari	BT/EE/2017	New Delhi
Sharad Kumar Tiwari	BT/ME/2017	Pune

NAME	CATEGORY	CITY
Dinendra Pratap Singh Tomar	BT/EE/2017	Bangalore
Akshay Kumar Verma	BT/CL/2017	Chandigarh
Prince Kumar Verma	BT/CL/2017	Kolkata
Aatman C Vora	BT/EE/2017	Mumbai
Bhuwan Vyas	BT/EE/2017	Jodhpur
Amit Yadav	BT/ME/2017	Chennai
Sakshi Yadav	BT/EE/2017	Bangalore
Shinde Aashaka Amar	MA/HSS/2017	Vadodara
Raj Kumar Dadrawal	MSc/MA/2017	New Delhi
Shalini Dungdung	MSc/MA/2017	New Delhi
Vamakshi Yadav	MSc/CH/2017	Indiana, USA
Umesh Kumar	MSc/CH/2017	New Delhi
Sonali Abhay Parekh	MSc/MA/2017	Mumbai
Sachin	MSc/CH/2017	Gandhinagar
Leema Saikia	MSc/PH/2017	Tinsukia
Jyotsna Saini	MSc/CH/2017	Ahmedabad
Sanjeet	MSc/MA/2017	Sonipat
Mridupavan Sonowal	MSc/CH/2017	Ahmedabad
Ayushi Tyagi	MSc/CH/2017	Ahmedabad
Kushwaha Amarkumar Ayodhyasingh	MT/EE/2017	Mumbai
Asim Bashir	MT/CE/2017	Bryan, USA
Rakesh Behera	MT/MSE/2017	Gandhinagar
Siddharth Behere	MT/ME/2017	Hyderabad
Sahil Bharti	MT/ME/2017	Chennai
Ritam Chatterjee	MT/ME/2017	Mumbai
Deshpande Ameya Dilip Dipa	MT/EE/2017	Thane
Prateek Goyal	MT/MSE/2017	Gandhinagar
Kanika Gupta	MT/CE/2017	Ahmedabad
Nikhil Joshi	MT/ME/2017	Ahmedabad
Kolli Mohan Krishna	MT/CE/2017	Gandhinagar
Brijesh Kumar	MT/ME/2017	Ahmedabad
Mayuri Madhukar Kushare	MT/ME/2017	Gandhinagar
Amalnath M	MT/ME/2017	Chennai
Rojan Mathew	MT/CE/2017	Ahmedabad
Niladri Naskar	MT/MSE/2017	Gandhinagar
Vora Aditya Narendrabhai	MT/EE/2017	Bangalore
Harshit Nema	MT/CE/2017	Ahmedabad
Sompura Jay Nileshbhai	MT/EE/2017	New Delhi
Patel Valay Paresh	MT/EE/2017	Anand
Akhil Patnaik	MT/ME/2017	Chennai
Sidhartha Rath	MT/ME/2017	Koraput
Ashish Soni	MT/EE/2017	Bangalore
Shubham Soni	MT/CE/2017	Gandhinagar
Nakka Suryasatyasanjeevi	MT/ME/2017	Gandhinagar
Chimane Pratik Tulsiram	MT/ME/2017	Hyderabad
Nithin V George	faculty	Gandhinagar

NAME	CATEGORY	CITY
Harish P M	faculty	Gandhinagar
N Ramakrishnan	faculty	Gandhinagar
Srinivas G Reddy	faculty	Gandhinagar
Arika Patel	staff	Gandhinagar
Santosh Raut	staff	Gandhinagar
Komal Tarunkumar Sangtani	staff	Gandhinagar
Seema Saxena	staff	Gandhinagar
Tenlis Solanki	staff	Gandhinagar
Dipen Mahendrabhai Vaghani	staff*	Gandhinagar
Amazon	well-wisher	USA
Apple	well-wisher	USA
Met Ayalp	well-wisher	Burnaby, Canada
Pravin Dangar	well-wisher	Bhavnagar
Ritika Dusad	well-wisher	New York, USA
C R S Kumar	well-wisher	Pune
Hrushikesh Maid	well-wisher	Shirdi
Tanmay Maratkar	well-wisher	Pune
Kunsang Tashi	well-wisher	New Delhi

*For part of the year

ORGANISATION

BOARD OF GOVERNORS

CHAIRMAN

To be appointed. Currently functions being discharged by the Director

MEMBERS

PROF CHANDRIMA SHAHA
Professor of Eminence and former Director
National Institute of Immunology
New Delhi

PROF MYTHILY RAMASWAMY
Professor
TIFR Centre for Applicable Mathematics
Tata Institute of Fundamental Research
Bengaluru

PROF SHOBHANA NARASIMHAN
Dean, Academic Affairs
Jawaharlal Nehru Centre for Advanced Scientific Research
Bengaluru

SHRI R SUBRAHMANYAM, IAS
Additional Secretary (Technical Education)
Department of Higher Education
Ministry of Human Resource Development
Government of India, New Delhi

DR J N SINGH, IAS
Chief Secretary
Government of Gujarat
Gandhinagar

SHRI PRAFULBHAI K PATEL
Administrator
U T Administration of Daman and Diu
Daman

PROF SUDHIR K JAIN
Director
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

PROF AMIT PRASHANT
Dean, Academic Affairs
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

PROF R SHARAN
Visiting Professor
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

SECRETARY

SHRI P K CHOPRA
Registrar
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

FINANCE COMMITTEE

CHAIRMAN

To be appointed. Currently functions being discharged by the Director

MEMBERS

PROF SUDHIR K JAIN
Director
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

SHRI R SUBRAHMANYAM, IAS
Additional Secretary (Technical Education)
Department of Higher Education
Ministry of Human Resource Development
Government of India, New Delhi

SMT DARSHANA M DABRAL
Joint Secretary & Financial Advisor
Ministry of Human Resource Development
Government of India, New Delhi

SHRI BHADRESH MEHTA
Chartered Accountant
Ahmedabad

PROF D P ROY
Professor-in-Charge (General Administration)
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

SECRETARY

SHRI P K CHOPRA
Registrar
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

BUILDING AND WORKS COMMITTEE

CHAIRMAN

PROF SUDHIR K JAIN
Director
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

MEMBERS

PROF NEELKANTH CHHAYA
former Dean
Faculty of Architecture
CEPT University
Ahmedabad

SHRI K S WAGH
Chief Advisor (Civil Infrastructure)
Indian Institute of Technology Bombay
Powai, Mumbai

SHRI A K JAIN
former Special Director General
Central Public Works Department
Government of India
New Delhi

SHRI M B BHALALA
former Chief Engineer
Roads & Buildings Department
Government of Gujarat
Gandhinagar

SHRI L P SRIVASTAVA
Advisor (Works)
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

PROF HARISH P M
Dean (Campus Development)
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

SECRETARY

SHRI P K CHOPRA
Registrar
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

SENATE

CHAIRMAN

PROF SUDHIR K JAIN

Director

MEMBERS

Prof Ashwini Kumar
Prof D V Pai
Prof D P Roy
Prof G K Sharma
Prof S P Mehrotra
Prof N Ramakrishnan
Prof R Sharan
Prof Jyoti Mukhopadhyay
Prof Pranab Mohapatra
Prof Amit Prashant
Prof Mohan Joshi
Prof R R Puri
Prof R N Singh
Prof A Ramanathan
Prof C N Pandey
Prof Neelkanth Chhaya
Prof Raghavan Rangarajan
Prof Deepak Kunzru
Shri Anand Parekh
Shri Sunil Parekh
Prof Harish P M
Prof Jaison Manjaly
Prof Vikrant Jain
Prof Sharmistha Majumdar
Prof Umashankar Singh
Prof Gaurav Srivastava
Prof Vimal Mishra
Prof Sairam Mallajosyala
Prof Bhaskar Datta
Prof Pratyush Dayal
Prof Kabeer Jasuja
Prof Meera M Sunny
Prof Pratik Mutha
Prof Bireswar Das
Prof Anirban Dasgupta
Prof Nihar Ranjan Mohapatra
Prof Nithin V George
Prof Tannistha Samanta
Prof Ambika Aiyadurai
Prof Indranath Sengupta
Prof Neeldhara Misra
Prof Ravi Sastri Ayyagari
Prof Dilip Srinivas Sundaram
Prof Superb Misra
Prof Abhijit Mishra
Prof Sudipta Sarkar
Prof Baradhwaj Coleppa
Dr T S Kumbar

SECRETARY

SHRI P K CHOPRA

Registrar

STUDENT INVITEES

Roy Nikhil Aditya (General Secretary)
Ayushman Tripathi (Convener, Student Senate)
Zainab Patel
Dalia N
Rajat Goel

STANDING COMMITTEES OF THE SENATE

SENATE ACADEMIC PERFORMANCE EVALUATION COMMITTEE (SAPEC)

Prof R R Puri, Convener
Prof Pratik Mutha (Dean, Academic Affairs)
Prof Kabeer Jasuja
Prof Nithin V George
Prof Bhaskar Datta
Prof Virupakshi Soppina
Prof S Rajendran
Prof Rita Kothari*

SENATE ACADEMIC PROGRAMMES COMMITTEE (SAPC)

Prof Pratik Mutha, Chairman, (Dean, Academic Affairs)
Prof Kabeer Jasuja
Prof Nithin V George
Prof Sharmistha Majumdar
Prof Pranab Mohapatra
Prof Sairam Mallajosyala
Prof Pratyush Dayal
Prof Meera M Sunny
Prof Bireswar Das
Prof Nihar Ranjan Mohapatra
Prof Vikrant Jain
Prof Jaison A Manjaly
Prof Indranath Sengupta
Prof Ravi Sastri Ayyagari
Prof Superb Misra
Prof Sudipta Sarkar
Deepak Dhariwal, Student Nominee
Heet Patel, Student Nominee

SENATE SCHOLARSHIP AND PRIZES COMMITTEE (SSPC)

Prof Jaison A Manjaly, Chairman (Dean, Student Affairs)
Prof Manu Awasthi
Prof Chetan Pahlajani
Prof Manish Kumar

SENATE STUDENT AFFAIRS COMMITTEE (SSAC)

Prof Jaison A Manjaly, Chairman (Dean, Student Affairs)
Prof Nithin V George
Prof Angus McBlane
Prof Atul Bhargav
Prof Sharmistha Majumdar
Prof Arnab Dutta
Prathamesh Badve, General Secretary
Ayushman Tripathi, Convener
Aarushi Shah, Student Nominee
Jaldhir Trivedi, Student Nominee

SENATE LIBRARY COMMITTEE (SLC)

Prof R Sharan, Chairman
Dr T S Kumbar
Prof Sudipta Sarkar
Prof Madhumita Sengupta
Prof Manish Kumar
Sparsh Jain, Student Nominee
Himanshu Chauhan, Student Nominee

*For part of the year

ACADEMIC OFFICIALS

Prof Sudhir K Jain
Director

Prof Pratik Mutha
Dean, Academic Affairs

Prof Nithin V George
Associate Dean, Postgraduate Studies

Prof Kabeer Jasuja
Associate Dean, Undergraduate Studies

Prof Jaison A Manjaly
Dean, Student Affairs

Prof Gaurav Srivastava
Associate Dean, Students Affairs

Prof Abhay Raj Singh Gautam
Head, Career Development Services (and also Coordinator, Placement)

Prof Shanmuganathan Raman
Coordinator, Internships

Prof Vijay Thiruvenkatam
Coordinator, Industry Visits

Prof Bhaskar Datta
Head, Student Counselling Services

Mr C S Sharma
Coordinator, Communication & Life Skills Programme

Prof Chetan Pahlajani
Advisor, Sports

Prof Mithun Radhakrishna
Advisor, Cultural Activities

Prof Atul Bhargav
Advisor, Technical Activities

Prof Manish Kumar
Advisor, Scholarships

Prof Umashankar Singh
Coordinator, Students Integration

Prof Arnab Dutta
Warden, Student Welfare

Prof Sivapriya Kirubakaran
Warden, Hostel Facilities

Prof G K Sharma
Professor-in-Charge, Faculty Affairs

Prof Sameer Dalvi
Associate Dean, Faculty Relations

Prof Dilip S Sundaram
Associate Dean, Faculty Recruitment

Prof S P Mehrotra
Professor-in-Charge, Research and Development

Prof Vikrant Jain
Associate Dean, External Projects

Prof S P Mehrotra
Professor-in-Charge, External Relations

Prof Ravikumar Bhaskaran
Honorary Advisor, External Relations

Prof Neeldhara Misra
Associate Dean, External Communication

Mr Nirmal Jha
Advisor, Industry Partnerships & Team Leader-External Relations

Prof Amit Prashant
Team Leader- Partnership with Overseas Universities

Col S S Kapoor
Advisor, Coordination

Prof Harish P M
Dean, Campus Development

Prof Gaurav Srivastava
Associate Dean, Campus Management

Prof D P Roy
Professor-in-Charge, General Administration

Prof Pranab Kumar Mohapatra
Head, Engineering Disciplines

Prof Jaison A Manjaly
Head, Humanities and Social Sciences

Prof Vikrant Jain
Head, Natural Sciences

Prof Pranab Kumar Mohapatra
Chief Vigilance Officer

Prof Dinesh Garg
Chief Information Security Officer

STUDENT LEADERSHIP

The following students were declared elected as office bearers for the academic year 2017-18:

General Secretary	Prathamesh Badve	(Apr 4, 2017 - Oct 15, 2017)
	Nikhil Roy	(Nov 4, 2017 - Apr 8, 2018)
Convener, Student Senate	Ayushman Tripathi	
Academic Secretary	Deepak Dhariwal	
Cultural Secretary	Aditya Goel	
Sports Secretary	Bhupendra Kumar	
Technical Secretary	Dinesh Anil Borse	
Industry Relations and Projects (IR&P) Secretary	Siddharth Sheshadri K	(Apr 4, 2017 - Oct 15, 2017)
	Arul Mozhi Devan P	(Nov 4, 2017 - Apr 8, 2018)
Student Welfare Secretary	Anmol Raina	
Professional Development Council (PDC)	Pragadeesh R R	(Apr 4, 2017 - Oct 15, 2017)
	Rana Singh	(Jan 3, 2018 - Apr 8, 2018)

FACULTY

DISCIPLINE	DESIGNATION	PHD /LAST DEGREE	SPECIALIZATION
ARCHAEOLOGY			
Alok Kumar Kanungo	Assistant Research Professor	Deccan College, 2003	History and origin of glass
BIOLOGICAL ENGINEERING			
Sharad Gupta	Assistant Professor	University of Pittsburgh, 2009	Protein misfolding in Alzheimer's and Huntington's diseases
Sivapriya Kirubakaran	Assistant Professor (jointly with Chemistry)	IISc Bangalore, 2007	Medicinal chemistry and drug discovery
Sharmistha Majumdar	Assistant Professor	Cornell University, 2006	Genomic and proteomic analysis of transposases and transposase homologs
Pratik Mutha	Assistant Professor (jointly with Electrical Engg)	Pennsylvania State University, 2009	Sensorimotor control and learning
Umashankar Singh	Assistant Professor	Uppsala University, Sweden, 2006	Cytoprotection
Virupakshi Soppina	Assistant Professor	Gulbarga University, Gulbarga, 2006	Kinesins and intracellular transport
Premalatha Chelvakumar	Visiting Professor	Veterinarian, US Equivalent D V M (University of Peradeniya)	Quality assurance and regulatory compliance in pharmaceutical and medical device industries
CHEMICAL ENGINEERING			
Sameer V Dalvi	Associate Professor	IIT Bombay, 2007	Supercritical fluid processing
Pratyush Dayal	Assistant Professor	University of Akron, 2007	Self-oscillating polymer gels
Chinmay Ghoroi	Associate Professor	IIT Bombay, 2007	Particle engineering and powder processing
Kabeer Jasuja	Assistant Professor	Kansas State University, 2011	Synthesis of two-dimensional nanomaterials
Nitin U Padhiyar	Assistant Professor	IIT Bombay, 2008	Process optimization and control
Babji Srinivasan	Assistant Professor (jointly with Electrical Engg)	Texas Tech University, 2011	Design, Control and monitoring of complex systems with human-in-the-Loop
Kaustubh Rane	Assistant Professor	University at Buffalo, 2014	Thermodynamics and statistical mechanics of the interfacial systems
Mithun Radhakrishna	Assistant Professor	Columbia University, 2014	Study of soft matter systems through theory and molecular simulations
Prachi Thareja	Assistant Professor	University of Pittsburgh, 2008	In-situ rheology of crystallizing fatty acid pastes
Rajagopalan Srinivasan*	Professor	Purdue University, West Lafayette, 1998	Computational systems biology
CHEMISTRY			
Chandrakumar Appayee	Assistant Professor	IISc, Bangalore 2008	Asymmetric catalysis

*For part of the year

DISCIPLINE	DESIGNATION	PHD /LAST DEGREE	SPECIALIZATION
Bhaskar Datta	Associate Professor (jointly with Biological Engg)	Carnegie Mellon University, 2004	Nucleic acid based chemical biology
Arnab Dutta	Assistant Professor	Arizona State University, 2012	Bio-inorganic chemistry
Sriram V Gundimeda	Associate Professor	IIT Bombay, 2001	Bio-organic chemistry
Iti Gupta	Associate Professor	IIT Bombay, 2005	Macrocyclic receptors & expanded porphyrinoids
Saumyakanti Khatua	Assistant Professor	Rice University, 2011	Plasmonics
Sairam Swaroop Mallajosyula	Assistant Professor	JNCASR, Bangalore, 2009	Carbohydrate-protein interactions
Sudhanshu Sharma	Assistant Professor	IISc Bangalore, 2009	Materials, electrochemistry
CIVIL ENGINEERING			
Dhiman Basu	Assistant Professor	SUNY, Buffalo, 2012	Rotational seismology, complex structures
Svetlana Brzev	Visiting Professor	IIT Roorkee, 1994	Earthquake risk mitigation in developing countries
Gaurav Srivastava	Assistant Professor	University of Minnesota, 2011	Uncertainty quantification
Sudhir K Jain	Director & Professor	Caltech, 1983	Earthquake engineering, structural dynamics
Manish Kumar	Assistant Professor	State University of New York at Buffalo, 2015	Performance-based earthquake engineering
Ashwini Kumar	Visiting Professor	University of Waterloo, 1974	Stability and large deformation of structures
Vimal Mishra	Associate Professor	Purdue University, 2010	Surface water hydrology
Pranab Kumar Mohapatra	Professor	IIT Kanpur, 1999	Hydraulics and Water resources engineering
Amit Prashant	Professor	University of Tennessee, 2004	Constitutive modeling for granular materials
Ajanta Sachan	Associate Professor	University of Tennessee, 2005	Material characterization
C N Pandey	Visiting Professor (jointly with Earth Sciences)	North Gujarat University, 2011	Forestry, wildlife, environment
D C Rai*	Visiting Professor	University of Michigan Ann Arbor, USA), 1996	Experimental seismic behavior of structures, seismic evaluation and strengthening
COMPUTER SCIENCE & ENGINEERING			
Bireswar Das	Assistant Professor	Institute of Mathematical Sciences, Chennai, 2010	Computational complexity theory and algorithms
Anirban Dasgupta	Associate Professor	Cornell University, 2005	Algorithms for large scale data
Manoj Gupta	Assistant Professor	IIT Delhi, 2013	Dynamic graph algorithms
Neeldhara Misra	Assistant Professor (jointly with Mathematics)	The Institute of Mathematical Sciences, Chennai, 2012	Design and analysis of algorithms

DISCIPLINE	DESIGNATION	PHD /LAST DEGREE	SPECIALIZATION
Dinesh Garg	Associate Professor	Indian Institute of Science, Bangalore, 2006	Large scale optimization for machine learning
Manu Awasthi	Assistant Professor	University of Utah, 2011	Computer architecture, operating systems, memory and storage hierarchies
Souradyuti Paul*	Assistant Professor	Katholieke Universiteit Leuven, Belgium, 2006	Information security, cryptography, theoretical computer science
EARTH SCIENCES			
Vikrant Jain	Associate Professor	IIT Kanpur, 2001	Earth surface processes
R N Singh	Visiting Professor	Banaras Hindu University, Varanasi, 1969	Modeling of near-surface geophysical and environmental processes
Pradeep Srivastava	Adjunct Faculty	Peoples' Friendship University, Moscow, Russia, 1983	Theoretical mechanics & control systems
Manish Kumar	Assistant Professor	The University of Tokyo, 2009	Pathways of contamination in freshwater system
ELECTRICAL ENGINEERING			
Arup Lal Chakraborty	Associate Professor	University of Strathclyde, UK, 2010	Tunable diode laser spectroscopy for gas parameter measurement
Nithin V George	Assistant Professor	IIT Bhubaneswar, 2012	Active noise control, adaptive signal processing
Ravi S Hegde	Assistant Professor	University of Michigan, Ann Arbor, 2008	Optical properties of nanostructures
Ragavan K	Associate Professor	IISc Bangalore, 2006	Transformer diagnostics
Nitin Khanna	Assistant Professor	Purdue University, USA, 2009	Multimedia security- sensor forensics
Uttama Lahiri	Associate Professor	Vanderbilt University, 2011	Virtual reality based human computer interaction used in affective computing
Joycee Mekie	Assistant Professor	IIT Bombay, 2009	VLSI design
Nihar R Mohapatra	Associate Professor	IIT Bombay, 2003	Semiconductor devices and technology
Naran M Pindoriya	Assistant Professor	IIT Kanpur, 2009	Restructuring power systems- technical and economical issues
S Rajendran	Associate Teaching Professor	IIT Madras (MTech), 1988	High speed packaging machines-VFFS and HFFS technologies
Shanmuganathan Raman	Assistant Professor	IIT Bombay, 2011	Computational photography
Ravi Banavar*	Visiting Professor	University of Texas at Austin, 1992	Optimal control, nonlinear control
R Sharan	Visiting Professor	University of Waterloo, 1968	Technological progress and human values

*For part of the year

DISCIPLINE	DESIGNATION	PHD /LAST DEGREE	SPECIALIZATION
HUMANITIES & SOCIAL SCIENCES			
Rajmohan Gandhi*	Visiting Professor	University of Calgary, Canada, 1997	Indian independence movement and its leaders, Indo-Pakistan relations, human rights and conflict resolution
Rita Kothari*	Professor	Gujarat University, 2000	Hinglish, communities in Banni (Kutch), cultural history of Sindh & Gujarat
Sharmita Lahiri	Assistant Professor	University of Houston, 2008	Postcolonial literature and composition
Jaison A Manjaly	Associate Professor	IIT Kharagpur, 2008	Experience, consciousness, rationality
Angus McBlane	Visiting Assistant Professor	Cardiff University, 2014	Cultural theory, embodiment, environmental humanities
Mona Mehta	Assistant Professor	University of Chicago, 2010	Democracy, ethnic conflict, civil society, nationalism and identity politics in India
Krishna P Miyapuram	Assistant Professor (jointly with CSE)	University of Cambridge, UK, 2008	Brain imaging (fMRI) & cognitive science
Pedro Manuel S Pombo	Visiting Assistant Professor	ISCTE-IUL, Lisbon, 2015	Ethnicity and cultural identity
Arnapurna Rath	Assistant Professor	IIT Bombay, 2010	South-Asian literature, critical theories, Bakhtin studies, creative writing
Srinivas Reddy	Assistant Professor	University of California, Berkeley, 2011	Sanskrit, Tamil and Telugu literary traditions
Tannistha Samanta	Assistant Professor	University of Maryland, 2012	Social demography, aging in developing countries
Madhumita Sengupta	Assistant Professor	University of Calcutta, 2009	Colonial India and the socio - political history of Assam from the eighteenth to the early twentieth centuries
Malavika Subramanyam	Assistant Professor	Harvard University, 2009	Socioeconomic context and neighbourhoods on nutrition and diabetes
Meera M Sunny	Assistant Professor	University of Warwick, 2011	Visual attention, attention capture
Ambika Aiyadurai	Assistant Professor	National University of Singapore, 2015	Anthropology of nature conservation and the role of local communities
Leslee Lazar	Visiting Faculty	National Brain Research Centre, India, 2013	Neuroscience of design, science communication, cultural cognition, behavioral change

DISCIPLINE	DESIGNATION	PHD /LAST DEGREE	SPECIALIZATION
A Ramanathan	Visiting Professor	Bombay University, 1981	Managerial economics, cost benefit analysis, applied econometrics and monetary economics
Mana Apoorva Shah	Teaching Associate	Gujarat University, 2012 (MA)	Sanskrit and Prakrit grammar, Jain Kavya and Stotra literature, manuscriptology
Arka Chattopadhyay	Assistant Professor	Western Sydney University, 2016	20th Century Literature: Modernism and postmodernism, modern theatre, European avant garde fiction
Antonio Fonseca	Visiting Faculty	ISCTE – Lisbon, 2015	Complex social systems, measures of complexity
Achal Mehra	Visiting Professor	Southern Illinois University, Carbondale, 1985	Online media, Media management, Investigative reporting, Media law, Media ethics
MATERIALS SCIENCE AND ENGINEERING			
Amit Arora	Assistant Professor	The Pennsylvania State University, 2011	Friction stir welding, heat transfer and visco-plastic flow
Abhay Raj Singh Gautam	Assistant Professor	University of Virginia, 2009	Interface structure and dynamics
S P Mehrotra	Visiting Professor	IIT Kanpur, 1973	Mineral processing and process metallurgy
Superb Misra	Assistant Professor	Imperial College London, UK, 2007	Biomaterials and tissue engineering
Manas Paliwal	Assistant Professor	McGill University, 2013	Thermodynamic and kinetic modeling of material processes
Abhijit Mishra	Assistant Professor	University of Illinois, Urbana-Champaign, 2010	X-Ray diffraction, membrane properties
Jyoti Mukhopadhyay	Visiting Professor	IIT Bombay, 1982	Structure – property correlation
Emila Panda	Associate Professor	Max Planck Institute, Germany, 2009	Investigations of thin films and nanostructured materials
MATHEMATICS			
Sanjaykumar H Amrutiya	Assistant Professor	Harish-Chandra Research Institute, Allahabad, 2012	Tannakian group schemes, Moduli spaces, Vector bundles
Atul Abhay Dixit	Assistant Professor	University of Illinois at Urbana-Champaign, 2012	Analytic number theory
Mohan Joshi	Visiting Professor	Purdue University, USA, 1973	Nonlinear analysis
Surjeet Kour	Assistant Professor	IIT Kanpur, 2013	Simple derivations

*For part of the year

DISCIPLINE	DESIGNATION	PHD /LAST DEGREE	SPECIALIZATION
N R Ladhawala	Adjunct Professor	Purdue University, 1976	Harmonic analysis
Chetan D Pahlajani	Assistant Professor	University of Illinois, Urbana-Champaign, 2007	Probability theory and stochastic processes
D V Pai	Visiting Professor	IIT Bombay, 1972	Functional analysis, approximation theory
Kamana Porwal*	Assistant Professor	Indian Institute of Science Bangalore, 2014	Analyzing finite element methods for elliptic optimal control problems
Indranath Sengupta	Associate Professor	IISc Bangalore, 2001	Commutative algebra, algebraic geometry
Jagmohan Tyagi	Assistant Professor	IIT Kanpur, 2008	Ordinary differential equations, elliptic partial differential equations
MECHANICAL ENGINEERING			
Atul Bhargav	Associate Professor	University of Maryland, College Park, 2010	Fuel cell systems design and simulation
Sandeep Pandey*	Visiting Professor	University of California, Berkeley, 1992	Control theory
K Chelva Kumar	Visiting Professor	Caltech, 1985	Healthcare finance and engineering mechanics
Harish P Madapusi	Associate Professor	University of Michigan, Ann Arbor, 2007	Systems and control theory, system identification (data-based modeling)
Vinod Narayanan	Assistant Professor	JNCASR, 2006	Fluid mechanics
N Ramakrishnan	Visiting Professor	IIT Bombay, 1980	Manufacturing, automation & composite materials
D P Roy	Visiting Professor	Tech University Aachen, 1976	Fluid dynamics and fluid machinery
G K Sharma	Visiting Professor	Moscow Power Engineering Institute, 1974	Thermal engineering
Jayaprakash K R	Assistant Professor	University of Illinois, Urbana Champaign, 2013	Wave propagation in one and two-dimensional granular media
Ravi Sastri Ayyagari	Assistant Professor	Illinois Institute of Technology, 2013	Solid mechanics, constitutive modeling, computational mechanics
Dilip Srinivas Sundaram	Assistant Professor	Georgia Institute of Technology, 2013	Thermofluid sciences, combustion, and energetic materials
Vineet Vashista	Assistant Professor	Columbia University, 2015	Design and control of mechanical systems
Venkata Madhukanth Vadali	Assistant Professor	University of Wisconsin, Madison, 2013	Dynamic systems, Control systems, Manufacturing, Mechatronics, Robotics

DISCIPLINE	DESIGNATION	PHD /LAST DEGREE	SPECIALIZATION
Uddipta Ghosh	Assistant Professor	IIT Kharagpur, 2016	Low-reynolds number hydrodynamics, with special focus on electrokinetics of complex systems
PHYSICS			
Rupak Banerjee	Assistant Professor	University of Calcutta (Saha Institute of Nuclear Physics), 2012	Surface physics and materials science
Vinod Chandra	Assistant Professor	IIT Kanpur, 2009	Quark-gluon-plasma and relativistic heavy ion collisions
Bharadhwaj Coleppa	Assistant Professor	Michigan State University, 2009	Beyond the standard model – model building and LHC phenomenology of new states
Shivakumar Jolad	Assistant Professor (jointly with Social Sciences)	The Pennsylvania State University, 2010	Networks - complex systems, information theory
Barun Majumdar*	Assistant Professor	University of Calcutta, 2008 (ABD)	Quantum cosmology
R R Puri	Visiting Professor	Bombay University, 1981	Theoretical quantum optics, quantum mechanics, random matrix theory of quantum chaos
Sudipta Sarkar	Assistant Professor	University of Pune, IUCAA, 2009	General relativity and black hole thermodynamics
Anand Sengupta	Assistant Professor	IUCAA Pune, 2005	Detection of gravitational waves, aspects of CMB data analysis
Vijay Thiruvenkatam	Assistant Research Professor (jointly with Biological Engg)	Jiwaji University, 2009	Small molecules x-ray crystallography
Krishna Kanti Dey	Assistant Professor	IIT, Guwahati, 2011	Active matter, colloidal dynamics, nanotechnology

*For part of the year

DISTINGUISHED HONORARY PROFESSORS

NAME	AFFILIATION
Prof Surendra Prasad	former Director, IIT Delhi
Prof S P Sukhatme	Professor Emeritus, Mechanical Engineering, IIT Bombay
Prof Nitish Thakor	Professor, Biomedical Engineering, Johns Hopkins School of Medicine, USA

SCHOLAR-IN-RESIDENCE

NAME	AFFILIATION
Dr Maria João Amante	Director, Information and Documentation Services at ISCTE-IUL, Lisbon University Institute
Ms Marjorie Greene	Consultant for Earthquake Engineering Research Institute (EERI), USA
Mr Atul Singh	Founder, CEO & Editor-in-Chief, Fair Observer, USA
Prof Shungo Kawanishi	Director, Global Communication Center of Japan Advanced Institute of Science and Technology (JAIST), Japan
Prof Rosa Maria Perez	Associate Professor, Department of Anthropology, ISCTE, Lisbon
Prof Frederick Coolidge	Professor, University of Colorado, USA
Dr Jorge Louca	Assistant Professor, Department of Information Science and Technology, ISCTE-IUL, Lisbon University Institute, Portugal
Prof Stefan Haves	Stefinity Entertainment and Director of Cirque, Cinema, and Theatre, USA

GUEST PROFESSORS

NAME	AFFILIATION
Prof A V Anilkumar	Professor, Vanderbilt School of Engineering, USA
Prof Nikhil Balram	former President and CEO of Ricoh Innovations Inc, USA
Dr Achintya Bhowmik	Chief Technology Officer & General Manager Perceptual Computing Group, Intel Corporation, CA, USA
Prof R S Bisht	Joint Director General (retd), Archaeological Survey of India & Padma Shri Awardee, 2013
Prof Rajendra Kumar Bordia	Professor and Chair of the Department, Materials Science and Engineering, Clemson University, USA
Prof Bijoy H Boruah	Professor, Humanities and Social Sciences, Indian Institute of Technology Delhi
Prof Ravi Banavar	Professor, Systems and Control Engineering, IIT Bombay
Prof R P Chhabra	Professor, Department of Chemical Engineering, Indian Institute of Technology Kanpur
Prof Michel Danino	Independent Scholar of Indian Civilization
Dr Pravinray D Gandhi	Director Corporate Research, Underwriters Laboratories Inc, USA
Prof Dipan K Ghosh	Professor (retd), Department of Physics, IIT Bombay
Prof Ramesh Gaonkar	Guest Professor, Electrical Engineering, IITGN
Prof Bipin Indurkhya	Professor, International Institute of Information Technology, Hyderabad
Mr Rajen Jaswa	CEO & Chairman, Dyyno
Prof Lilavati Krishnan	Professor (retd), HSS Department, IIT Kanpur
Prof Dinesh Kant Kumar	Program Director for Biomedical Engineering, School of Electrical and Computer Systems Engineering, College of Science Engineering and Health, RMIT University, Melbourne, Australia
Prof Achal Mehra	Editor and publisher, Little India Group, USA

NAME	AFFILIATION
Prof S L Narayanamurthy	formerly Dean, Academic Affairs, IIT Gandhinagar
Prof V N Prabhakar	Superintending Archaeologist, Archaeological Survey of India, New Delhi
Prof Durgesh C Rai	Professor, Department of Civil Engineering, Indian Institute of Technology Kanpur
Prof Himanshu Prabha Ray	Honorary Professor, Distant Worlds, Munich Graduate School of Ancient Studies, Ludwig Maximilian University, Munich
Prof T R Ramachandran	Visiting Professor, Nonferrous Materials Technology Development Centre, Hyderabad
Prof Mythily Ramaswamy	Professor, Mathematics Department, Tata Institute of Fundamental Research Centre, Bangalore
Prof G Venkatapa Rao	Professor (retd), Department of Civil Engineering, IIT Delhi
Prof Dheeraj Sanghi	Professor, Department of Computer Science and Engineering, IIT Kanpur
Prof Shyam Sunder	James L Frank Professor of Accounting, Economics, and Finance, Yale School of Management, USA
Prof Chapin Thomas	Vice President, Research and UL Corporate Fellow, Underwriters Laboratories Inc, USA
Prof Koshy Tharakan	Associate Professor, Department of Philosophy, Goa University
Prof Mahesh Tandon	Managing Director, Tandon Consultants Pvt Ltd, New Delhi
Prof M Venkataraman	Vice President, Indian Chapter of International Geosynthetics Society

NON-TEACHING STAFF AGAINST REGULAR POSITIONS

EMPLOYEE NAME	DESIGNATION
Akshay	Junior Accountant
M Armugam	Junior Laboratory Attendant
Suganya Arumugam	Junior Technical Superintendent
Viral J Asjola	Senior Library Information Assistant
Babloo	Junior Laboratory Attendant
Palak R Bagiya	Junior Laboratory Assistant
Sudeep Narayan Banerjee	System Analyst/Scientist B
Suvakanta Barik	Junior Technical Superintendent
Timir Yakunj Berawala	Junior Assistant
Ram Babu Bhagat	Deputy Registrar
L K Bhargawa	Superintending Engineer
Rahulendra Bhaskar	Junior Technical Superintendent
Shri Krishan Birhman	Assistant Registrar
Tushar H Brahmbhatt	Junior Laboratory Attendant
Biresh Chaubey	Assistant Registrar
Pannaben P Chaudhari	Senior Library Information Assistant
G C Chaudhary	Superintending Engineer
Rohitkumar B Chaudhary	Junior Technical Superintendent
Krupeshkumar P Chauhan	Junior Accountant
Prem Kumar Chopra	Registrar
Tapas Kumar Das	Senior Library Information Assistant
Sonali S Dawada*	Junior Assistant
Dineshbhai B Desai	Junior Laboratory Attendant
Nisha Dhanwani	Junior Accountant
Bhavna Virambhai Dharani	Junior Accountant
Supin Gopi	Junior Technical Superintendent
Memo Gupta	Junior Account Officer
Hemant Kumar Gupta	Junior Assistant
Tej Bahadur Gurung	Junior Assistant
Laxmi P Hirani	Junior Laboratory Assistant
Yogesh Dattatraya Jade	Junior Superintendent
N Jayakumar	Assistant Engineer (Civil)
Meena Joshi	Assistant Registrar
Vishnu Deth J J	Assistant Engineer (Electrical)
Jithesh V K	Junior Superintendent
Navdiwala Ankur Kanchanlal	Junior Laboratory Assistant
Dharmeshkumar V Kapadiya	Junior Laboratory Attendant
Hani M Khamar	Junior Assistant
Hiral S Khatri	Junior Assistant
Ram Nivas Kumavat*	Executive Engineer
T S Kumbar	Librarian
Prajapati Ramanand Lalsaheb	Junior Laboratory Attendant
Pijush Majumdar	Assistant Registrar
Prashant G Makwana	Junior Assistant
Saumya Malavia	Junior Assistant
Vijay Meena	Junior Accountant
Jay Mehta	Junior Accountant
Parth Rajendrakumar Mehta	Junior Assistant
Shreejit B Menon	Junior Superintendent
Laxmi Kant Mishra	Assistant Engineer
Pradipbhai Kamajibhai Ninama	Junior Laboratory Attendant
Dharmendrakumar S Panchal	Junior Engineer
Ashish Kumar Pandey	Junior Laboratory Attendant
Sanjeev Kumar Pandey	Junior Account Officer

EMPLOYEE NAME	DESIGNATION
Pragnesh D Parekh	Junior Technical Superintendent
Dinesh H Parmar	Physical Training Instructor
Switi Rameshchandra Parmar	Junior Assistant
Shaileshkumar Jayantibhai Patani	Junior Assistant
Darshan C Patel	Junior Assistant
Sanketkumar J Patel	Junior Technical Superintendent
Arika K Patel	Junior Accountant
Kamini A Patel	Junior Assistant
Sanjaykumar T Patel	Junior Laboratory Assistant
Bhikhabhai R Patel	Junior Laboratory Attendant
Jignesh S Patel	Junior Laboratory Assistant
Twinkle Patel	Junior Account Officer
Harshad Kumar J Patel	Junior Account Officer
Akash Mahendra Kumar Patel	Junior Superintendent
Sachin Maganlal Patel	Senior System Analyst
Darshak Hareshbhai Pathak	Junior Accountant
Jitendra Pukhraj Pawar	Junior Accountant
Ramanand L Prajapati	Junior Laboratory Attendant
Narendra J Rabadiya	Junior Assistant
Santosh Raut	Junior Superintendent
Shashin A Raval	Assistant Registrar
N Ravi	Junior Superintendent
Pavitra Kumar Rout	Junior Accountant
Saswati Roy	Assistant Registrar
Komal Sangtani	Junior Assistant
Sujit Kumar Shah	Junior Assistant
Viral Y Shah	Junior Superintendent
Jigar Shah	Junior Account Officer
Mukesh Sharma	Staff Nurse
Hradesh Kumar Sharma	Deputy Registrar
Gaurav Shukla	Junior Superintendent
Nitin Shukla	Junior Technical Superintendent
Gaurav Kumar Singh	Junior Assistant
Amit Kumar Singh	Assistant Registrar
Narendrakumar M Solanki*	Junior Accountant
Mrugesh R Solanki	Junior Superintendent
Tenils Wilsonbhai Solanki	Junior Superintendent
Rohit Pranav Somabhai	Assistant Registrar
Nileshkumar B Soni	Junior Engineer
Ravi Subhash Soni	Assistant Engineer (Civil)
Una Sujit	Junior Superintendent
Sachin S Tawde	Junior Technical Superintendent
Prabhuji Thakor	Junior Laboratory Attendant
Supresh Thaleshari	Junior Laboratory Attendant
Sunny Thomas	Junior Laboratory Assistant
Dipen Mahendrabhai Vaghani*	Junior Assistant
Rajendra Vaishnav	Junior Account Officer
Lakshmipriya G Valappil	Junior Accountant
Piyushbhai P Vankar	Junior Assistant
Nand Lal Vishwakarma*	Junior Superintendent
Rahul Wadhwani*	Junior Accountant
Anjanaba Rajendrasinh Zala	Junior Accountant
Devendrasinh Dahyaji Zala	Driver

*For part of the year

PHD SCHOLARS

NAME OF THE STUDENT	DISCIPLINE	SUPERVISOR/ PROGRAMME ADVISOR
Abhijeet Ojha	Biological Engineering	Prof Prachi Thareja
Anjali Rajwar	Biological Engineering	Prof Dhiraj Bhatia
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Abhimanyu	Mechanical Engineering	Prof Atul Bhargav
Adil Mohammad	Mechanical Engineering	Prof Jyoti Mukhopadhyay
Akash Unnikrishnan	Mechanical Engineering	Prof Vinod Narayanan
Ankit Diwvedi	Mechanical Engineering	Prof Atul Bhargav

NAME OF THE STUDENT	DISCIPLINE	SUPERVISOR/PROGRAMME ADVISOR
Ankit Sharma	Mechanical Engineering	Prof Dilip Sundaram
Arun Cherkkil	Mechanical Engineering	Prof Vinod Narayanan
Arunav Choudhury	Mechanical Engineering	Prof K R Jayaprakash
Ashu Gupta	Mechanical Engineering	Prof Kaustubh Rane
Deep Bakshi	Mechanical Engineering	Prof Ravi Ayyagari
Dhanurdhar	Mechanical Engineering	Prof Atul Bhargav
Hemant Pahuja	Mechanical Engineering	Prof Vinod Narayanan
John Sherjy Syriac	Mechanical Engineering	Prof Vinod Narayanan
Kishankumar Chauhan	Mechanical Engineering	Prof N Ramakrishnan
Nashit Jalal	Mechanical Engineering	Prof Kaustubh Rane
Pinki	Mechanical Engineering	Prof Dilip Sundaram
Piyush Agrawal	Mechanical Engineering	Prof Atul Bhargav
Pragya Mishra	Mechanical Engineering	Prof Atul Bhargav
Prasanna Kulkarni	Mechanical Engineering	Prof Dilip Sundaram
Pratik Prajapati	Mechanical Engineering	Prof Vineet Vashista
Rakesh Tunk	Mechanical Engineering	Prof Jyoti Mukhopadhyay
Rasik Jain	Mechanical Engineering	Prof Vinod Narayanan
S Srikesh Iyer	Mechanical Engineering	Prof Vineet Vashista
Sagardeep Bhakta	Mechanical Engineering	Prof Atul Bhargav
Sanjeev Kumar	Mechanical Engineering	Prof K R Jayaprakash
Sourav Mukul Tewari	Mechanical Engineering	Prof Ravi Ayyagari
Suyash Kumar Gupta	Mechanical Engineering	Prof Vinod Narayanan

2016 BATCH

NAME OF THE STUDENT	DISCIPLINE	SUPERVISOR/PROGRAMME ADVISOR
Aditi Singhal	Biological Engineering	Prof Bhaskar Datta
Aishwarya Vijayakumar	Biological Engineering	Prof Sharad Gupta
Ankit Dodla	Biological Engineering	Prof Bhaskar Datta
Ankit Pandey	Biological Engineering	Prof Sharmistha Majumdar
Apeksha Srivastava	Biological Engineering	Prof Virupakshi Soppina
Gaurav Panthi	Biological Engineering	Prof Pratik Mutha
Neha Gupta	Biological Engineering	Prof Sharmistha Majumdar
Preetika	Biological Engineering	Prof Sharad Gupta
Shashank Raman	Biological Engineering	Prof Sivapriya Kirubakaran
Sitesh Kumar	Biological Engineering	Prof Pratik Mutha
Subhamoy Datta	Biological Engineering	Prof Umashankar Singh
Charu Oberoi	Chemical Engineering	Prof Prachi Thareja
Goverdhan Singh	Chemical Engineering	Prof Prachi Thareja
Kusum Panwar	Chemical Engineering	Prof Sameer Dalvi
Mayank Vashishtha	Chemical Engineering	Prof Mithun Radhakrishna
Parth Sinha	Chemical Engineering	Prof Nitin Padhiyar
Prashant Lavania	Chemical Engineering	Prof Prachi Thareja
Proteek Chaudhuri	Chemical Engineering	Prof Babji Srinivasan
Rohit Saraswat	Chemical Engineering	Prof Kabeer Jasuja
Sachin Verma	Chemical Engineering	Prof Pratyush Dayal
Saikat Sen	Chemical Engineering	Prof Babji Srinivasan
Sandesh Shirude	Chemical Engineering	Prof Nitin Padhiyar
Abhijith T K	Civil Engineering	Prof Ajanta Sachan
Akshay Nandurkar	Civil Engineering	Prof Gaurav Srivastava
Anupama B	Civil Engineering	Prof Manish Kumar
Ashutosh Sonpal	Civil Engineering	Prof Manish Kumar
Bala Harsha Srusti	Civil Engineering	Prof Amit Prashant

NAME OF THE STUDENT	DISCIPLINE	SUPERVISOR/PROGRAMME ADVISOR
Harsh Janakkumar Shah	Civil Engineering	Prof Gaurav Srivastava
Nama Rakesh	Civil Engineering	Prof Gaurav Srivastava
Neha Khairkar	Civil Engineering	Prof Gaurav Srivastava
Rajat Kumar Gupta	Civil Engineering	Prof Pranab Mohapatra
Rakesh Meghwal	Civil Engineering	Prof Vimal Mishra
Sarana Kota	Civil Engineering	Prof Gaurav Srivastava
Sujit Vasant Matale	Civil Engineering	Prof Manish Kumar
Shivangi Singh	Earth System Science	Prof Vikrant Jain
Tanya Shukla	Earth System Science	Prof Vikrant Jain
Ajinkya Bhagwat	Electrical Engineering	Prof Ravi Hegde
Amit Joshi	Electrical Engineering	Prof Babji Srinivasan
Ashutosh Jindal	Electrical Engineering	Prof Ragavan K
Ashutosh Parida	Electrical Engineering	Prof Naran Pindoriya
Balveer Singh	Electrical Engineering	Prof Naran Pindoriya
Biswajeet Rout	Electrical Engineering	Prof Naran Pindoriya
Chakka Yaswanth Sai Kiran	Electrical Engineering	Prof Nihar Mohapatra
Chandra Sekhar Ravuri	Electrical Engineering	Prof Shanmuganathan Raman
Dhanapala Prudhviraj	Electrical Engineering	Prof Naran Pindoriya
Geetika Chalia	Electrical Engineering	Prof Ravi Hegde
Harsh Oza	Electrical Engineering	Prof Babji Srinivasan & Prof Nithin George
Harsha Vardhan Tetali	Electrical Engineering	Prof Shanmuganathan Raman
Ishant Anand	Electrical Engineering	Prof Joycee Mekie
Jerry Samuel R	Electrical Engineering	Prof Nithin George
Kumar Saurav	Electrical Engineering	Prof Uttama Lahiri
M Sai	Electrical Engineering	Prof Babji Srinivasan
Mohit Lamba	Electrical Engineering	Prof Nitin Khanna
Namrata Pandey	Electrical Engineering	Prof Nihar Mohapatra
Naveen Kavuri	Electrical Engineering	Prof Joycee Mekie
Preet Khaturia	Electrical Engineering	Prof Nitin Khanna
Rohan Chawhan	Electrical Engineering	Prof Arup Lal Chakraborty
Rohit Dawar	Electrical Engineering	Prof Nihar Mohapatra
Shiv Prakash	Electrical Engineering	Prof S Rajendran
Shubhanshu Gupta	Electrical Engineering	Prof Joycee Mekie
Shweta Dahale	Electrical Engineering	Prof Naran Pindoriya
Smriti Gupta	Electrical Engineering	Prof Joycee Mekie
Smruty Ranjan Sahu	Electrical Engineering	Prof Ragavan K
Sohini Dhar	Electrical Engineering	Prof Babji Srinivasan
Vishal Kushwaha	Electrical Engineering	Prof Naran Pindoriya
Vishwanath Hiremath	Electrical Engineering	Prof Joycee Mekie
Ajay Singh	Materials Science and Engineering	Prof Emila Panda
Arpan Rout	Materials Science and Engineering	Prof Amit Arora
Ashutosh Kumar	Materials Science and Engineering	Prof Amit Arora
Bhoopendra Kumar	Materials Science and Engineering	Prof Amit Arora
Brajesh Singh	Materials Science and Engineering	Prof Abhay Raj Gautam
Nitish Kumar	Materials Science and Engineering	Prof Jyoti Mukhopadhyay
Param Punj Singh	Materials Science and Engineering	Prof Superb Misra
Priyanka Rawat	Materials Science and Engineering	Prof Emila Panda
Rajat Srivastava	Materials Science and Engineering	Prof Abhijit Mishra
Rana Pratap Singh	Materials Science and Engineering	Prof Sudhanshu Sharma
Rishi Dhawan	Materials Science and Engineering	Prof Emila Panda
Roshan Sebastian	Materials Science and Engineering	Prof Abhay Raj Gautam
Sarang Kulkarni	Materials Science and Engineering	Prof Ravi Hegde
Shashank Naik B S	Materials Science and Engineering	Prof Abhijit Mishra
Sooraj Patel	Materials Science and Engineering	Prof Jyoti Mukhopadyay
Syed Ansari S	Materials Science and Engineering	Prof Jyoti Mukhopadyay

NAME OF THE STUDENT	DISCIPLINE	SUPERVISOR/PROGRAMME ADVISOR
Vipul Anand	Materials Science and Engineering	Prof Amit Arora
Vivek Chaitanya Peddiraju	Materials Science and Engineering	Prof Abhijit Mishra
Aditya Sakhare	Mechanical Engineering	Prof Dilip Sundaram
Anashusen Saiyad	Mechanical Engineering	Prof Atul Bhargav
Ashish Dubey	Mechanical Engineering	Prof Atul Bhargav
Atul Sharma	Mechanical Engineering	Prof Kaustubh Rane
Bhaskar Shukla	Mechanical Engineering	Prof Ravi Sastri Ayyagari
Giridhari Pattnaik	Mechanical Engineering	Prof Atul Bhargav
Nevilkumar Panchal	Mechanical Engineering	Prof Vineet Vashista
Nilkumar Mathur	Mechanical Engineering	Prof Dilip Sundaram
Priyank Mehta	Mechanical Engineering	Prof Dilip Sundaram
Ravinder Kumar Daroch	Mechanical Engineering	Prof Atul Bhargav
Satbir Singh	Mechanical Engineering	Prof Dilip Sundaram
Saurabh Lanje	Mechanical Engineering	Prof Vineet Vashishta
Shubham Chouksey	Mechanical Engineering	Prof Kaustubh Rane
Shubhankar Gurav	Mechanical Engineering	Prof Amit Arora
Sourabh Singh	Mechanical Engineering	Prof Amit Arora

2015 BATCH

NAME OF THE STUDENT	DISCIPLINE	SUPERVISOR/PROGRAMME ADVISOR
Jaideep Pal	Chemical Engineering	Prof Babji Srinivasan
Amjeth Basheer	Civil Engineering	Prof Amit Prashant & Prof Ajanta Sachan
Kaustubh Deshpande	Civil Engineering	Prof Manish Kumar
Lambhate Harshal Sandesh Sushama	Civil Engineering	Prof Gaurav Srivastava
Rajdeep Ghosh	Civil Engineering	Prof Manish Kumar
Rimpy Khokhar	Civil Engineering	Prof Svetlana Brzev
Sujata Sinha	Computer Science and Engineering	Prof Uttama Lahiri
Korat Chirag Mukeshbhai	Mechanical Engineering	Prof Vinod Narayanan
Nishant Kumar	Mechanical Engineering	Prof Amit Arora

2014 BATCH

NAME OF THE STUDENT	DISCIPLINE	SUPERVISOR/PROGRAMME ADVISOR
Sunnda	Civil Engineering	Prof Amit Prashant
Vikalp Kamal	Civil Engineering	Prof Amit Prashant

MSc STUDENTS

2017 BATCH

NAME OF THE STUDENT	DISCIPLINE
Abhishek Saini	Chemistry
Ajay Kumar	Chemistry
Dhanraj Kumawat	Chemistry
Divyansh Prakash	Chemistry
Garima	Chemistry
Jyoti	Chemistry
Kriti Kapil	Chemistry
Lhingneichong Touthang	Chemistry
Nikhil Sharma	Chemistry
Priyanka	Chemistry
Rudra Prasad	Chemistry
Shriya Arora	Chemistry
Simpi Verma	Chemistry
Tanya Hans	Chemistry
Tarun Kumar	Chemistry
Aarushi Nilen Shah	Cognitive Science
Azba Yasin Shaikh	Cognitive Science
Dhwani Parimal Sadaphal	Cognitive Science
Dighbijoy Samaddar	Cognitive Science
Greeshma Mohan	Cognitive Science
Harry Antony	Cognitive Science
Joel V Joseph	Cognitive Science
Lakshman Chakrav Nallan Chakravarthula	Cognitive Science
Lipsa Sahoo	Cognitive Science
Luke Nihal Dasari	Cognitive Science
Manisha Biswas	Cognitive Science
Meghana Gautam	Cognitive Science
Prankur Saxena	Cognitive Science
Prashant Lawhatre	Cognitive Science
Saawani Niranjan Rajadhyaksha	Cognitive Science
Saba Nasir Pathan	Cognitive Science
Sanika Gupta	Cognitive Science
Sreekanth C	Cognitive Science
Aditi Sethia	Mathematics
Anuradha Sharma	Mathematics
Ashish Shukla	Mathematics
Ayush Agrawal	Mathematics
Dasharath Meena	Mathematics
Deepak	Mathematics
Gajera Sagarkumar Bharatbhai	Mathematics
Harmeet Kumar Garg	Mathematics
Jaya Meena	Mathematics
Jyotsna Gadhwal	Mathematics
Kale Laxmikant Jalaba	Mathematics
Lata Yadav	Mathematics
Meghali	Mathematics
Mohammad Aqib	Mathematics
Pawan Jakhar	Mathematics
Pulkit	Mathematics
Ravikant Bairwa	Mathematics
Saloni Gupta	Mathematics
Satyanarayan Pruseth	Mathematics
Shadab Ali	Mathematics
Shashi Chourasiya	Mathematics
Shobha Mangal	Mathematics
Shrikant Shekhar	Mathematics
Shubham Kumar	Mathematics
Sukhwant Singh	Mathematics
Suresh Choudhary	Mathematics
Surjeet Singh Choudhary	Mathematics
Tanisha	Mathematics
Taru Taniya	Mathematics
Abdul Ghaffar	Physics
Abhishek Kumar	Physics
Ankit	Physics
Arvind Kumar	Physics
Goutam M	Physics
Kamal Kant Chandra	Physics
Kanhaiya Gupta	Physics
Kanshokmi Tuithung	Physics
Kapil Dev	Physics
Karishma Gupta	Physics
Mohit Kumar Dubey	Physics
Nikhil Sharma	Physics
Pankaj Borah	Physics
Praveen Kumar Gupta	Physics
Rajes Ghosh	Physics
Rajesh Biswas	Physics
Ravi Kumar	Physics
Richa Dobal	Physics
Sajjan	Physics
Samardhi	Physics
Saraswati Sharma	Physics
Sonu Yadav	Physics
Tathagata Mandal	Physics
Virendra Choudhary	Physics

2016 BATCH

NAME OF THE STUDENT	DISCIPLINE
Afridi Zamader	Chemistry
Anjana Thakur	Chemistry
Ankush Tyagi	Chemistry
Geetanjali	Chemistry
Govind Kumar Sharma	Chemistry
Harshit Kumar Agarwal	Chemistry
Komal Bajaj	Chemistry
Megha Bajaj	Chemistry
Naveen Tak	Chemistry
Parsanta	Chemistry

NAME OF THE STUDENT	DISCIPLINE
Parul Duhan	Chemistry
Rajvir Singh	Chemistry
Rakesh	Chemistry
Sachin Dev	Chemistry
Sachin Giri	Chemistry
Sarla Yadav	Chemistry
Shivansh Kaushik	Chemistry
Sumeet Kataria	Chemistry
Surya Pratap Singh	Chemistry
Baby Ziliya N A	Cognitive Science
Bhavesh Sonwani	Cognitive Science
Blessy Tom Joseph	Cognitive Science
Kamyaban Hazarika	Cognitive Science
Megha Sanyal	Cognitive Science
Pavithra Ashok Kumar	Cognitive Science
Reshma Babu	Cognitive Science
Saravanan B	Cognitive Science
Shalin Gomez	Cognitive Science
Shobhit Kakaria	Cognitive Science
Unnati Palan	Cognitive Science
Vinaya E H	Cognitive Science
Akshay Kumar	Mathematics
Amit Kumar	Mathematics
Archit Agarwal	Mathematics
Aritra Kumar Bhaduri	Mathematics
Arvind Kumar Nath	Mathematics
Deepak Singh	Mathematics
Deepika Parmar	Mathematics
Gaurav Yadav	Mathematics
Harshitha C	Mathematics
Indrajit Narah	Mathematics
Kamaraj P	Mathematics
Mahajan Samiksha Satish	Mathematics
Monu	Mathematics
Parul Punia	Mathematics
Priyanka Shoora	Mathematics
Rahul Kumar Bansal	Mathematics
Rahul Mahla	Mathematics
Rohit Srivastava	Mathematics
Sajal Kumar	Mathematics
Sangeeta Chhabarwal	Mathematics
Shaina Kakkar	Mathematics
Shivani Huvor	Mathematics
Siyaram Gurjar	Mathematics
Souvik Mukherjee	Mathematics
Sudip Pandit	Mathematics
Tikam Chand Soyal	Mathematics
Vinod Kumar	Mathematics
Abhijit Jana	Physics
Akash Arya	Physics
Anoop Singh	Physics
Ashish Joseph	Physics
Ayatri Singha	Physics
Daphisha Mary Nonghuloo	Physics
Gourav Kumar	Physics
Jitendra Kumar Gurjar	Physics
Julianna Rex	Physics
Kousik Loho	Physics
Neha Patel	Physics
Prashant Chouhan	Physics
Prateek Chauhan	Physics
Rajesh Maurya	Physics
Sachin Kumar	Physics
Samten Bhutia	Physics
Sandeep Kumar Singh	Physics
Sanu Kumar Gangwar	Physics
Shivam Awasthi	Physics
Shubham Garg	Physics
Sujoy Saha	Physics
Sukanta Mukherjee	Physics
Uday Singh	Physics
Vaishali Yadav	Physics

2015 BATCH

NAME OF THE STUDENT	DISCIPLINE
Lakshmi Vinod Pillai	Cognitive Science
Khushi Ram Meena	Mathematics
Rahul	Mathematics
Soumodeep Mitra	Physics

MA IN SOCIETY & CULTURE

2017 BATCH

NAME OF THE STUDENT
Ajin K Thomas
Anupam Sharma
Anuracti Sharma
Anushka Mukherjee
Arya Adityan
Dalia N
Devika Jayssell
Heisnam Olivia Devi
Isai Amudhu S S
Janaki R Nair
Kadeeja Nourah B H
Medha Deshpande
Omi Kumari
Pankaj Tiwari
Ramesh N
Sakshi Sunil Soni
Shantanu Sharma
Shreya Sen
Suhair K K
Suyash Dhan Vir Pasi
Tanvi Jain

2016 BATCH

NAME OF THE STUDENT
Aastha Soni
Aditya S
Aishwarya Joshi
Ambarish Singh
Arundhathy B
Debapriya Ray
Neha Tetali
Nitya Pawar
Pawan Sharma
Poonam Meena
Prerna Subramanian
Riddhi Garg
Rituparna Rana
S Paragnee
Swara Joshi
Verma Piyusha Ramashanker

PGDIIT STUDENTS

2017 BATCH

NAME OF THE STUDENT	DISCIPLINE
Akashsingh Rajput	Earth System Science
Uday Kumar	Materials Science and Engg

2016 BATCH

NAME OF THE STUDENT	DISCIPLINE
Parimala Rao V	Biological Engineering
Nikhil Srivastava	Chemical Engineering

BTECH DUAL MAJOR

2015 BATCH

NAME OF THE STUDENT	DISCIPLINE
Gandhi Meet Bankim	Mechanical Engineering & Electrical Engineering

BTECH-MTECH DUAL DEGREE

2014 BATCH

NAME OF THE STUDENT	DISCIPLINE
B Pranav Chakravarthy	Civil Engineering

2013 BATCH

NAME OF THE STUDENT	DISCIPLINE
Ramchandra Gawas	Chemical Engineering
Valleti Sai Mani Prudhvi	Mechanical Engineering

BTECH STUDENTS

2017 BATCH

NAME OF THE STUDENT	DISCIPLINE
Anand Hiren Merchant	Chemical Engineering
Ankur Vaibhav	Chemical Engineering
Anurag Singh	Chemical Engineering
Arun Shakya	Chemical Engineering
Ayushman Bahuguna	Chemical Engineering
Deependra Kumar	Chemical Engineering
Dev Ajay Kakkad	Chemical Engineering
Dip Nilim Das	Chemical Engineering
Gaurav Sonkusle	Chemical Engineering
Harshal Rashtrapal Thool	Chemical Engineering
Manraj Meena	Chemical Engineering
Mohmmad Aslam	Chemical Engineering
Parth Upadhayay	Chemical Engineering
Patel Ajjkumar Dahyalal	Chemical Engineering
Pradumn Pandey	Chemical Engineering
Priyansh Singh	Chemical Engineering
Rachit Ray	Chemical Engineering
Rahul Dhamania	Chemical Engineering
Rajan Meena	Chemical Engineering
Rajas Prasad Shah	Chemical Engineering
Rajkumar Sain	Chemical Engineering
Samyak Jain	Chemical Engineering
Sanjeet Kumar Yadav	Chemical Engineering
Satti Kartik Naik	Chemical Engineering
Shantanu Sakti Jana	Chemical Engineering
Shreya Pamecha	Chemical Engineering
Shubhi Maheshwari	Chemical Engineering
Solanki Soham Pratik	Chemical Engineering
Varun Dolia	Chemical Engineering
Vatsal Ketankumar Joshi	Chemical Engineering
Vyom Mudgal	Chemical Engineering
Akash Ajnare	Civil Engineering
Akshat Mangal	Civil Engineering
Akshay P Nambiar	Civil Engineering
Anil Berwal	Civil Engineering
Chintakayala Venu Gopal	Civil Engineering
Deepak Meena	Civil Engineering
Deepika Soni	Civil Engineering
Gaurav Kumar	Civil Engineering
Harsh Sarju Shah	Civil Engineering
Jeetendra Kumar	Civil Engineering
Kunal Yadav	Civil Engineering
Madhav Tiwari	Civil Engineering
Nishant	Civil Engineering
Patel Urvishkumar Jayrambhai	Civil Engineering
Pavan Kumar Meena	Civil Engineering
Pranjal Singh	Civil Engineering
Pranjali Anil Borse	Civil Engineering
Rensi Pipalia	Civil Engineering
Sarang Patil	Civil Engineering
Shahzaib Khan	Civil Engineering
Shivang Pareek	Civil Engineering
Shubham Raviprakash Baheti	Civil Engineering
Sumit Kumar	Civil Engineering
Utkarsh Sandeep Gangwal	Civil Engineering
Utsav Prashant Racca	Civil Engineering
Varanganti Hari Pratap Goutham	Civil Engineering
Vishesh Roy Anand	Civil Engineering
Yashaswi Soni	Civil Engineering
Abhisht Tiwari	Computer Science and Engineering
Aditya Garg	Computer Science and Engineering
Ankush Chauhan	Computer Science and Engineering
Anshuman Yadav	Computer Science and Engineering

NAME OF THE STUDENT	DISCIPLINE
Anup Ravindra Aglawe	Computer Science and Engineering
Atharva Pandurang Chewale	Computer Science and Engineering
Ayush Agarwal	Computer Science and Engineering
Chandan Maji	Computer Science and Engineering
Chenna Kesava Tirunagari	Computer Science and Engineering
Debarya Das	Computer Science and Engineering
Dharavath Anitha	Computer Science and Engineering
Dyavarashetty Peeyush	Computer Science and Engineering
Kakumani Prudhvi Raj	Computer Science and Engineering
Kanishk Kalra	Computer Science and Engineering
Kavita Vaishnaw	Computer Science and Engineering
Kishen N Gowda	Computer Science and Engineering
Lakshay	Computer Science and Engineering
M Mohit Mina	Computer Science and Engineering
Mrinal Anand	Computer Science and Engineering
Nidhin Harilal	Computer Science and Engineering
Parimi Siva Krishna Sarma	Computer Science and Engineering
Patel Vandan	Computer Science and Engineering
Pittala Nikhil	Computer Science and Engineering
Ram Bhagwan Prajapat	Computer Science and Engineering
Rohit Shantaram Patil	Computer Science and Engineering
Saumitra Sharma	Computer Science and Engineering
Shah Rushil	Computer Science and Engineering
Shah Ujjaval Satishkumar	Computer Science and Engineering
Shaurya Agarawal	Computer Science and Engineering
Vraj Patel	Computer Science and Engineering
Ajay Meena	Electrical Engineering
Akshay Biju	Electrical Engineering
Anubhav Jain	Electrical Engineering
Ashish Kumar Meena	Electrical Engineering
Chauhan Jainish Nileshkumar	Electrical Engineering
Dehade Sankesh Deepak	Electrical Engineering
Ishita Goyal	Electrical Engineering
Jaspreet Singh	Electrical Engineering
Jethva Utsav	Electrical Engineering
Kaoshik Ronak Nitin	Electrical Engineering
Karri Revanth Ratna Kireeti	Electrical Engineering
Manoj Kumar Kumawat	Electrical Engineering
Mohammed Aasim Shaikh	Electrical Engineering
Naman Kumar Singh	Electrical Engineering
Narni Vishnu Karthikeya	Electrical Engineering
Nayan Chaudhary	Electrical Engineering
Onteddu Rama Krishna Reddy	Electrical Engineering
Pandipati Vamshi Nikhil	Electrical Engineering
Pardeshi Shweta Rajesh	Electrical Engineering
Parichay Thakore	Electrical Engineering
Preet Gokulesh Patel	Electrical Engineering
Pundru Chandrahas	Electrical Engineering
Ram Udit Saadh	Electrical Engineering
Ravi Rathod	Electrical Engineering
Ribhu Vajpeyi	Electrical Engineering

NAME OF THE STUDENT	DISCIPLINE
Rohan Prashant Patil	Electrical Engineering
Rushikesh Vijay Kumthekar	Electrical Engineering
Tanmaey Gupta	Electrical Engineering
Uttharapally Sai Chandra	Electrical Engineering
Vedanta Krishna Bhutani	Electrical Engineering
Abhinav	Materials Science and Engineering
Anuj Yadav	Materials Science and Engineering
Atharv Mahendra Gholap	Materials Science and Engineering
B Dhyanesh	Materials Science and Engineering
Banoth Vishnu Sai Naik	Materials Science and Engineering
Buddhiraj Sahu	Materials Science and Engineering
Dhaiwat Kabaria	Materials Science and Engineering
Dhruval Suresh Shah	Materials Science and Engineering
Harendra Singh Gurjar	Materials Science and Engineering
Jain Harshil Rakesh	Materials Science and Engineering
Karra Uma Naga Srikar	Materials Science and Engineering
Kaushik Kumar Bhaiya	Materials Science and Engineering
Krutarth Hemant Khot	Materials Science and Engineering
Mewada Rohan	Materials Science and Engineering
Mithbavkar Ojas Shashikant	Materials Science and Engineering
Mulastham Amitha Rani	Materials Science and Engineering
Neena Tatu	Materials Science and Engineering
Parth Shinde	Materials Science and Engineering
Pinniboina Muneeswar	Materials Science and Engineering
Sagar Singh Meena	Materials Science and Engineering
Shivani Patley	Materials Science and Engineering
Shuchi Dhirendra Sanandiya	Materials Science and Engineering
Surabhi Ashutosh Torne	Materials Science and Engineering
Ujjwal Gautam	Materials Science and Engineering
Vinod Kumar	Materials Science and Engineering
Yasham Amar Mundada	Materials Science and Engineering
Agrawal Parth Sunilkumar	Mechanical Engineering
Ajay John	Mechanical Engineering
Akshay Jay Tandale	Mechanical Engineering
Anirudha Pradeepkumar Soni	Mechanical Engineering
Ankush Mishra	Mechanical Engineering
Ashish Kumar Jha	Mechanical Engineering
Ayush Kumar Gupta	Mechanical Engineering
Bhukya Heram Naik	Mechanical Engineering
Deepak Kumar Meena	Mechanical Engineering
Kakadiya Harsh Babulal	Mechanical Engineering
Karanam Avinash	Mechanical Engineering
Mohamed Shamir T M	Mechanical Engineering
Parmar Hitarth	Mechanical Engineering
Prakash R	Mechanical Engineering
Sabbi Pavan Kumar Chakri	Mechanical Engineering
Saurabh Kartik Muneshwar	Mechanical Engineering
Shah Dhruvin	Mechanical Engineering
Shah Jainam	Mechanical Engineering
Shah Meet Parag	Mechanical Engineering
Shireesh Raghunath Shelke	Mechanical Engineering

NAME OF THE STUDENT	DISCIPLINE
Shreyas Dattatray Sonawane	Mechanical Engineering
Sourabh Khatik	Mechanical Engineering
Sukkala Balaji	Mechanical Engineering
Tushar Choudhary	Mechanical Engineering
Vala Vedangraj	Mechanical Engineering
Vandit Goyal	Mechanical Engineering
Yannawar Pranav Sameer	Mechanical Engineering
Yash Gaur	Mechanical Engineering
Yash Nilkanth Dhake	Mechanical Engineering

2016 BATCH

NAME OF THE STUDENT	DISCIPLINE
Abhavya Chandra	Chemical Engineering
Abhishek Dubey	Chemical Engineering
Anish Dubey	Chemical Engineering
Bhumika Sandilya	Chemical Engineering
Buditi Prudhvi	Chemical Engineering
Gameti Nirav	Chemical Engineering
Kamle Mayank Shrikant	Chemical Engineering
Khili Khamesra	Chemical Engineering
Lakhan Agrawal	Chemical Engineering
Manjot Singh	Chemical Engineering
Patel Milanbhai	Chemical Engineering
Rahul Shakya	Chemical Engineering
Raman	Chemical Engineering
Ritik Jain	Chemical Engineering
Rohan Gupta	Chemical Engineering
Shubham Sankhla	Chemical Engineering
Singh Shivam	Chemical Engineering
Sourabh Saini	Chemical Engineering
Spand Bharat Mehta	Chemical Engineering
Sparsh Jain	Chemical Engineering
Varsha Singh	Chemical Engineering
Yash Makwana	Chemical Engineering
Ajay Bhardwaj	Civil Engineering
Akhil Anil Rajput	Civil Engineering
Akshay Mittal	Civil Engineering
Amar Baroliya	Civil Engineering
Animesh Rastogi	Civil Engineering
Anubhav Meena	Civil Engineering
Arra Sriya	Civil Engineering
Ayush Singh	Civil Engineering
Chekkala Sai Srishal	Civil Engineering
Chinmay Girish Kulkarni	Civil Engineering
Danish Mansoor	Civil Engineering
Hansraj Bijarnia	Civil Engineering
Ishank Singh	Civil Engineering
Jitesh Mittal	Civil Engineering
Kaushal Chhimpa	Civil Engineering
Kishan Khichi	Civil Engineering
Kokkonda Prashanth	Civil Engineering
Krishan Kumar	Civil Engineering
Mayank Kumar	Civil Engineering
Mohit Gadhwal	Civil Engineering
Muhammed Sinan R K	Civil Engineering
Mukesh Kumar	Civil Engineering
Piyush Chandra	Civil Engineering
Pranav Peepre	Civil Engineering
Rishabh Jain	Civil Engineering
Sahil Jain	Civil Engineering
Utkarsh Meena	Civil Engineering
Wani Tejas Sakhahari	Civil Engineering
Anmol Gautam	Computer Science and Engineering
Apoorv Agnihotri	Computer Science and Engineering
Atishay Jain	Computer Science and Engineering
Ayush Garg	Computer Science and Engineering
Bikramjot Singh Dhindsa	Computer Science and Engineering
Davinder Singh	Computer Science and Engineering
Debanuj Nayak	Computer Science and Engineering
Dutta Ritik	Computer Science and Engineering
Gajapure Kshitij Dewanand	Computer Science and Engineering
Gohil Varun	Computer Science and Engineering
Heer Ambavi	Computer Science and Engineering
Kukunuri Sai Venkata Ratna Rithwik	Computer Science and Engineering
Kunal Verma	Computer Science and Engineering
Meet Panchal	Computer Science and Engineering
Monika Chouhan	Computer Science and Engineering
Mridul Sharma	Computer Science and Engineering
Naman Jain	Computer Science and Engineering
Nitiksha	Computer Science and Engineering
P Jayakrishna Sahit	Computer Science and Engineering
Pachpande Soham Kishor	Computer Science and Engineering
Parmar Monarch	Computer Science and Engineering
Pathlavath Prashanth	Computer Science and Engineering
Pranjali Jain	Computer Science and Engineering
Pratik Kayal	Computer Science and Engineering
Rahul Challa	Computer Science and Engineering
Rayan Gaat	Computer Science and Engineering
Rendla Aditya	Computer Science and Engineering
Rohit Sharma	Computer Science and Engineering
S Deepak Narayanan	Computer Science and Engineering
S Vinu Sankar	Computer Science and Engineering
Sammed Shantinath Kagi	Computer Science and Engineering
Shivansh Choudhary	Computer Science and Engineering
Shivji Bhagat	Computer Science and Engineering
Shreyas Singh	Computer Science and Engineering
Smeet Vora	Computer Science and Engineering
Abhinav Narayan Harish	Electrical Engineering
Akhilesh Ravi	Electrical Engineering
Amit Kumar Singh Yadav	Electrical Engineering
Anshul Shivhare	Electrical Engineering

NAME OF THE STUDENT	DISCIPLINE
Balani Mohit	Electrical Engineering
Banoth Dinesh	Electrical Engineering
Bedmutha Manas Satish	Electrical Engineering
Chakka Snehith	Electrical Engineering
Chavali Bharath Chandra	Electrical Engineering
Chennuri Prateek	Electrical Engineering
Deshpande Ajit Umesh	Electrical Engineering
Girish Chandar G	Electrical Engineering
Gupta Sagar Rajeev	Electrical Engineering
Himanshu Rai	Electrical Engineering
Jai Parmar	Electrical Engineering
Jatin Ashish Dholakia	Electrical Engineering
K S Santhosh Kumar	Electrical Engineering
Kratika Bhagtani	Electrical Engineering
Meshram Abhilasha Dilip	Electrical Engineering
Pankaj Vatwani	Electrical Engineering
Penumaka Gopi Kishore	Electrical Engineering
Pranjal Darda	Electrical Engineering
Pratik Puri Goswami	Electrical Engineering
Priolkar Neha Satyendra	Electrical Engineering
Rahul Yadav	Electrical Engineering
Rajat Kumar Verma	Electrical Engineering
Ramesh Meena	Electrical Engineering
Sai Praneeth Maddi	Electrical Engineering
Shubham Ashok Kalgunde	Electrical Engineering
Shubhranshu Singh	Electrical Engineering
Siddharth Krishnan	Electrical Engineering
Sumit Walia	Electrical Engineering
Suraj Kumar Meena	Electrical Engineering
Vasu Bhalothia	Electrical Engineering
Anjali Kumari	Materials Science and Engineering
Anushikha	Materials Science and Engineering
Ayan Rakshit	Materials Science and Engineering
Bidyan Basumatary	Materials Science and Engineering
Bukya Vinay	Materials Science and Engineering
C R Greeshma	Materials Science and Engineering
Dhrmendra Sablaniya	Materials Science and Engineering
Dineshraj D	Materials Science and Engineering
Godina Ganga Hrishikesh	Materials Science and Engineering
Ingle Varad Jitendrakumar	Materials Science and Engineering
Joshi Kavan	Materials Science and Engineering
Kunwar Shivam Pratap	Materials Science and Engineering
Neha Meena	Materials Science and Engineering
Pankaj Kumar Saini	Materials Science and Engineering
Rahul Rajeev	Materials Science and Engineering
Rampratap Kumar	Materials Science and Engineering
Ratul Chakraborty	Materials Science and Engineering
Shreyas Sreeram	Materials Science and Engineering
Shubham Gond	Materials Science and Engineering
Sriram Sriharsha	Materials Science and Engineering
Tanisha Aggrawal	Materials Science and Engineering
Utkarsh Balodi	Materials Science and Engineering
V V S Akhil	Materials Science and Engineering
Vikas Dudi	Materials Science and Engineering
Adithya R	Mechanical Engineering
Akshat Bansal	Mechanical Engineering
Ashar Akhil Parag	Mechanical Engineering
Bharg Mehta	Mechanical Engineering
Chitipolu Gowtham	Mechanical Engineering
Dashpute Chinmay Laxmikant	Mechanical Engineering
Deshpande Shubham Gopal	Mechanical Engineering
G Ramanan	Mechanical Engineering
Kadam Omkar Devidas	Mechanical Engineering
Karthik Subramanya Karvaje	Mechanical Engineering
Kathroth Pavan Kalyan	Mechanical Engineering
Kaushal R Modi	Mechanical Engineering
Kevin Patel	Mechanical Engineering
Kshitij Sendre	Mechanical Engineering
Manish Alriya	Mechanical Engineering
Manvendra Singh Chauhan	Mechanical Engineering
Mudit Jangid	Mechanical Engineering
Mukul Lawas	Mechanical Engineering
Nisarg Ujjainkar	Mechanical Engineering
Polampalli Bala Srimannarayana	Mechanical Engineering
Putsala Anirudh	Mechanical Engineering
Rahil Sanwla	Mechanical Engineering
Rajat Biluniya	Mechanical Engineering
Rathi Aditya Manish	Mechanical Engineering
Sakhalikar Pushpakraj Shyamappa	Mechanical Engineering
Surve Sushrut Sudarshan	Mechanical Engineering
Suyash Patidar	Mechanical Engineering
Tandale Atharva Madhukar	Mechanical Engineering
Tare Aditya Dayanand	Mechanical Engineering
Ukey Vishal Hemraj	Mechanical Engineering
Upendra Kumar	Mechanical Engineering
Vedant Rajendra Gote	Mechanical Engineering
Yogesh Meena	Mechanical Engineering

2015 BATCH

NAME OF THE STUDENT	DISCIPLINE
Aditi Sharma	Chemical Engineering
Akash Pallath	Chemical Engineering
Akhil Markam	Chemical Engineering
Ankit Singh	Chemical Engineering
Ankur Singh	Chemical Engineering
Ankur Yadav	Chemical Engineering
Anusha Kamath M	Chemical Engineering
Avinash Joy Bara	Chemical Engineering
Deepti Gautam	Chemical Engineering
Kavish Kumar	Chemical Engineering
Koripalli Rohith	Chemical Engineering
Kunal Singhmar	Chemical Engineering

NAME OF THE STUDENT	DISCIPLINE
Madhyan Harsh Mukesh	Chemical Engineering
Patel Parth Girishbhai	Chemical Engineering
Prateek Verma	Chemical Engineering
Priyanka	Chemical Engineering
Priyanshu Ranjan Gupta	Chemical Engineering
Purooshotam Garg	Chemical Engineering
Rajat Goel	Chemical Engineering
Rajeev Kumar Mahto	Chemical Engineering
Shah Atmin Shitalbhai	Chemical Engineering
Shiv Kumar	Chemical Engineering
Shubham	Chemical Engineering
Suresh Kumar	Chemical Engineering
Tanikella Sri Savya	Chemical Engineering
Vijendra Maurya	Chemical Engineering
Yashasvi Modi	Chemical Engineering
Aishwary Omkar	Civil Engineering
Anant Agarwal	Civil Engineering
Anil Kumar	Civil Engineering
Ankit Ghanghas	Civil Engineering
Anshul Yadav	Civil Engineering
Anurag Dhebana	Civil Engineering
Anurag Kumar Gupta	Civil Engineering
Avinash Singh Soda	Civil Engineering
Bannelly Naresh	Civil Engineering
Chaudhari Divya Jeevraj	Civil Engineering
Choudhary Saurabh Sunil	Civil Engineering
Gopal Singh	Civil Engineering
Honey Kumar Singla	Civil Engineering
Kushal Agrawal	Civil Engineering
Lavalesh Kumar Bajpayee	Civil Engineering
Maya Kumari	Civil Engineering
Naman Jain	Civil Engineering
Nikesh Panwar	Civil Engineering
Nikhil Chandra	Civil Engineering
Pulkit Singhal	Civil Engineering
Puneet Swami	Civil Engineering
Purusottam Kundara	Civil Engineering
Rahul Kumar Saini	Civil Engineering
Ravi Meena	Civil Engineering
Rohan Nyayadhish	Civil Engineering
Sachin Kumar Meena	Civil Engineering
Sareem Sandeed	Civil Engineering
Sarthak Mittal	Civil Engineering
Siddhant Gulechha	Civil Engineering
Tarun Sharma	Civil Engineering
Aditi Singh	Electrical Engineering
Aditya Anand	Electrical Engineering
Amit Parihar	Electrical Engineering
Anand Yadav	Electrical Engineering
Ansh Joshi	Electrical Engineering
Anusha Rajendra Malani	Electrical Engineering

NAME OF THE STUDENT	DISCIPLINE
Aparna N Tumkur	Electrical Engineering
Arik Pamnani	Electrical Engineering
Ayon Biswas	Electrical Engineering
Battu Deepak	Electrical Engineering
Chauhan Anand	Electrical Engineering
Chitta Sai Pavan	Electrical Engineering
Gaurav Singh Khatana	Electrical Engineering
Hardeep	Electrical Engineering
L Madhulika	Electrical Engineering
Mandlem Manikanta	Electrical Engineering
More Rishikesh Babu	Electrical Engineering
Navin Kumar	Electrical Engineering
Pankaj Kumar	Electrical Engineering
Pansetty Karthik	Electrical Engineering
Ravi Jangir	Electrical Engineering
Ravi Shrimal	Electrical Engineering
Ritesh Kumar	Electrical Engineering
Samarth Kathal	Electrical Engineering
Shah Harshil Kalpeshkumar	Electrical Engineering
Shipra Mohan	Electrical Engineering
Shivang Agarwal	Electrical Engineering
Shivdutt Sharma	Electrical Engineering
Sobhan Kumar Bhoi	Electrical Engineering
Swathi S G	Electrical Engineering
Tejas Mehta	Electrical Engineering
Uday Kiran Banoth	Electrical Engineering
Veeramallu Giridhar Sai	Electrical Engineering
Aagam Rajeev Shah	Materials Science and Engineering
Abhiroop Mishra	Materials Science and Engineering
Akshat Pachauri	Materials Science and Engineering
Akshat Sandhaliya	Materials Science and Engineering
Aman Kamlesh Singh	Materials Science and Engineering
Ayush Gupta	Materials Science and Engineering
Gyan Chand Maurya	Materials Science and Engineering
Himani Verma	Materials Science and Engineering
Jammu Tarun Kumar	Materials Science and Engineering
Jayshankar Sharma	Materials Science and Engineering
Kuldeep Singh	Materials Science and Engineering
Priyang Priyadarshi	Materials Science and Engineering
Sujeet Singh Mathur	Materials Science and Engineering
Tulasi Narendra Das Tripurana	Materials Science and Engineering
Amit Jangid	Mechanical Engineering
Anilraj Meena	Mechanical Engineering
Anupam Swarnkar	Mechanical Engineering
Arshdeep Singh Brar	Mechanical Engineering
Ayaz Lakhani	Mechanical Engineering
Bhattad Varun Rajkumar	Mechanical Engineering
Dsouza Alrick Cyril	Mechanical Engineering
Jagmohan	Mechanical Engineering
Lahane Yogesh Ratnakar	Mechanical Engineering
M Naveen	Mechanical Engineering

NAME OF THE STUDENT	DISCIPLINE
Mihir Hitendra Salot	Mechanical Engineering
Patel Darshankumar Parasotambhai	Mechanical Engineering
Rahul Bharti	Mechanical Engineering
Rahul Meena	Mechanical Engineering
Rajat Ranjan	Mechanical Engineering
Rishabh Bhattacharya	Mechanical Engineering
Rohit Kumar Singh	Mechanical Engineering
Rushali Atul Prakash Saxena	Mechanical Engineering
S Santhosh	Mechanical Engineering
Saeed Aamer	Mechanical Engineering
Saksham Singal	Mechanical Engineering
Sandeep Kumar Yadav	Mechanical Engineering
Saurav Nagar	Mechanical Engineering
Shashi Mohan Singh	Mechanical Engineering
Shikhar Rajput	Mechanical Engineering
Shrinidhi Dilip Bhide	Mechanical Engineering
Subham Meena	Mechanical Engineering
Tukkani Sandeep Reddy	Mechanical Engineering
Tushar Pareek	Mechanical Engineering
Vaibhav Mittal	Mechanical Engineering
Vikalp Lanjewar	Mechanical Engineering
Yash Patel	Mechanical Engineering

2014 BATCH

NAME OF THE STUDENT	DISCIPLINE
Aashay Sandansing	Chemical Engineering
Abhinay Rana	Chemical Engineering
Aditya Sundaram	Chemical Engineering
Arul Mozhi Devan P	Chemical Engineering
Ashish Gehlot	Chemical Engineering
Ayush Mathur	Chemical Engineering
Badri Vishal Meena	Chemical Engineering
Bhaskar Jyoti Saikia	Chemical Engineering
Himanshu Jaswant Singh Chauhan	Chemical Engineering
Jani Purvil Rahulbhai	Chemical Engineering
Konde Mandar Purushottam	Chemical Engineering
Lakshmi Narayan Meena	Chemical Engineering
More Mayuresh Hiren	Chemical Engineering
Mridul Pareek	Chemical Engineering
Mukul Tyagi	Chemical Engineering
Navdeep Prakash	Chemical Engineering
Navpreet Singh	Chemical Engineering
Parash Aggarwal	Chemical Engineering
Pawar Bhushan	Chemical Engineering
Potturu Apurva	Chemical Engineering
Raveena	Chemical Engineering
Roy Nikhil Aditya	Chemical Engineering
Setti Satya Sai Venkata Ravi Teja	Chemical Engineering
Siddharth Sheshadri K	Chemical Engineering
Abhay Varshney	Civil Engineering

NAME OF THE STUDENT	DISCIPLINE
Ajay Singh Shekhawat	Civil Engineering
Anmol Kishore Raina	Civil Engineering
Anusha Gupta	Civil Engineering
Bhoge Shashank Vilas	Civil Engineering
Borse Dinesh Anil	Civil Engineering
Devanand	Civil Engineering
Garima Chaudhary	Civil Engineering
Heet Vasudevbhai Patel	Civil Engineering
Homit Singh Pal	Civil Engineering
Kamlesh Choudhary	Civil Engineering
Kartik Mandlekar	Civil Engineering
Khushdeep Singh	Civil Engineering
Kunal Jain	Civil Engineering
Prakrut Kansara	Civil Engineering
Pranav Kumar Gupta	Civil Engineering
Pranavkumar S	Civil Engineering
Pushpender Kumar Kuntal	Civil Engineering
R Yashwanth Kumar	Civil Engineering
Rohit Kumar	Civil Engineering
Satish Kumar Meena	Civil Engineering
Satya Prakash	Civil Engineering
Sheru Aravind Reddy	Civil Engineering
Solanki Vidhi Rasik	Civil Engineering
Sushant Kumar	Civil Engineering
V Avinash	Civil Engineering
Veeravalli Sai Ganesh	Civil Engineering
Vikas Yadav	Civil Engineering
Vishal Kumar Sinha	Civil Engineering
Aditya Goel	Electrical Engineering
Ajay	Electrical Engineering
Aketi Sai Aparna	Electrical Engineering
Amit Bhongade	Electrical Engineering
Anmol Gaur	Electrical Engineering
Arvind Roshaan S	Electrical Engineering
Ashim Raj Konwar	Electrical Engineering
Ayush Shrote	Electrical Engineering
Ayushman Tripathi	Electrical Engineering
Bhavya Jain	Electrical Engineering
Duthade Sanket Rajesh	Electrical Engineering
Gohil Vasudev Arvindkumar	Electrical Engineering
Gottumukala Sai Rama Krishna	Electrical Engineering
Himanshu Goswami	Electrical Engineering
Himanshu Pal	Electrical Engineering
Jagdish Choudhary	Electrical Engineering
Koda Dinesh Kumar	Electrical Engineering
Kshiteej Jitesh Sheth	Electrical Engineering
Mayur Madhav Vishe	Electrical Engineering
Nagare Ashwini Tukaram	Electrical Engineering
P R Vaidyanathan	Electrical Engineering
Patel Parva Apurva	Electrical Engineering
Rachit Goyal	Electrical Engineering

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Rahul Raj Bharati	Electrical Engineering
Rushil Shamkant Vispute	Electrical Engineering
Sarvepalli Nagasai Vardhan Rao	Electrical Engineering
Shirpurkar Chinmay Deepak	Electrical Engineering
Vaishnavi Sunil Patil	Electrical Engineering
Varade Amit Bhaskar	Electrical Engineering
Varun Aggarwal	Electrical Engineering
Vikas Kumar Meena	Electrical Engineering
Yashovardhan	Electrical Engineering
Aditya Kumar	Materials Science and Engineering
Antima Meena	Materials Science and Engineering
Bhupendra Kumar	Materials Science and Engineering
Deepak Dhariwal	Materials Science and Engineering
Dileep Singh	Materials Science and Engineering
Dudhat Kunal Hansraj	Materials Science and Engineering
Joshi Ankita Abhay	Materials Science and Engineering
Jugal Mehta	Materials Science and Engineering
Kaustubh Shirish Panse	Materials Science and Engineering
Kotamsetti Ravi Teja	Materials Science and Engineering
M Barath Kanna	Materials Science and Engineering
Patel Zainab Shabbar	Materials Science and Engineering
Sisara Pratikkumar Dhirubhai	Materials Science and Engineering
Sushil Kumar	Materials Science and Engineering
Tandale Mohit Mukundraj	Materials Science and Engineering
Ahamed Naji Shaham	Mechanical Engineering
Akhilesh	Mechanical Engineering
Dabhi Parth Lalitkumar	Mechanical Engineering
Dave Sowill	Mechanical Engineering
Gohil Karan Nitinbhai	Mechanical Engineering
Harshad Gawali	Mechanical Engineering
Janga Sai Kiran	Mechanical Engineering
Kapil Sharma	Mechanical Engineering
Krishna Kumar Soni	Mechanical Engineering
Lakshmi Gayatri Sivalenka	Mechanical Engineering
Mitta Venkata Sai Viswanath	Mechanical Engineering
Modi Harsh Jashvantbhai	Mechanical Engineering
Ninama Rishilkumar	Mechanical Engineering
Nishant Patel	Mechanical Engineering
Nithin Ramesh	Mechanical Engineering
Panna Lal Saini	Mechanical Engineering
Parab Amogh Vishram	Mechanical Engineering
Patel Pinank Kishorbhai	Mechanical Engineering
Pragadeesh R R	Mechanical Engineering
Prasanna	Mechanical Engineering
Prathamesh Badve	Mechanical Engineering
Rahul Kumar	Mechanical Engineering
Relan Udit Surendra	Mechanical Engineering
Singampalli Sai Rohit	Mechanical Engineering
Solleti Goutham	Mechanical Engineering
Sonar Chinmay Narendra	Mechanical Engineering
Subodh Kumar	Mechanical Engineering
Trivedi Jaldhir Sanjay	Mechanical Engineering
Tushar Nirmal	Mechanical Engineering
Vaibhav S Pal	Mechanical Engineering
Vakharia Vismay Dilipkumar	Mechanical Engineering
Vinod Ramakrishnan	Mechanical Engineering
Vivek Kumar	Mechanical Engineering
Yash Bohre	Mechanical Engineering

2013 BATCH

NAME OF THE STUDENT	DISCIPLINE
Sahilkumar Tabiyad	Chemical Engineering
Bulabai Sreedhar Gopi Krishna	Civil Engineering
Praveen Pandey	Civil Engineering
Pushpak K Baviskar	Civil Engineering
Ram Pranav Agasthya Purhit Chavaly	Civil Engineering
Sai Kiran	Civil Engineering
Darshil Chauhan	Mechanical Engineering
David Noel Biradala	Mechanical Engineering
Mundru Hemanth Surya Madhav	Mechanical Engineering
Somireddy Udaykumarreddy	Mechanical Engineering
Teki Vinay	Mechanical Engineering
Venu Agarwal	Mechanical Engineering

2012 BATCH

NAME OF THE STUDENT	DISCIPLINE
Kanak Kumar Nayak	Chemical Engineering
Shashank Gautam	Electrical Engineering

2011 BATCH

NAME OF THE STUDENT	DISCIPLINE
Banoth Surya Kiran	Chemical Engineering

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