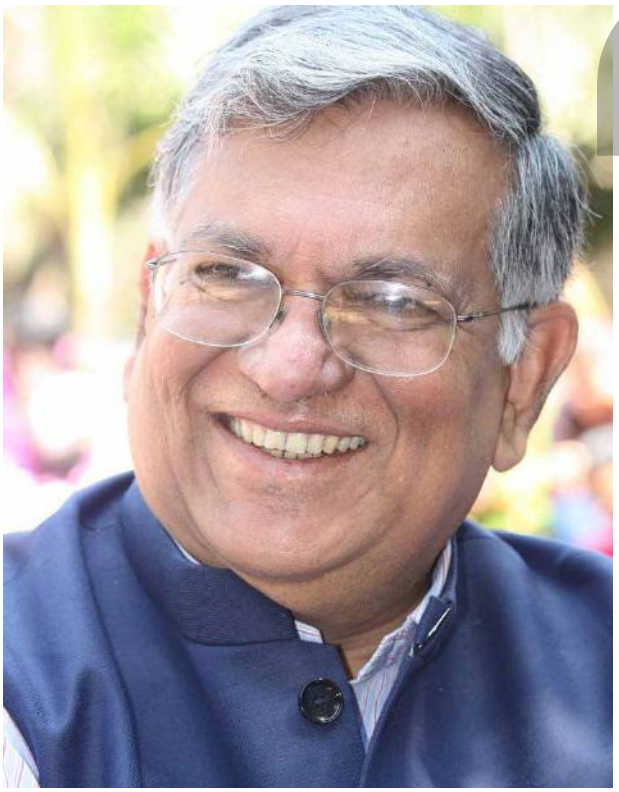
ANNUAL REPORT
2016 - 2017

INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

16/17 ANNUAL REPORT

CONTENTS

FROM THE DIRECTOR'S DESK



> Globalization is one of the distinctive features of the IIT Gandhinagar education

Consolidation and renewal were the two underlying features of IIT Gandhinagar during the past year.

The Institute completed the shift to its permanent Palaj campus, which was recognized with the First Prize in the category of "Green Buildings" for its academic complex at the HUDCO Design Awards 2016.

The Department of Science & Technology has approved the development of a Research Park at IIT Gandhinagar, significantly expanding the boundaries of innovation and research and collaborations between industry and academia at the Institute.

Globalization is one of the distinctive features of the IIT Gandhinagar education and this year saw substantial growth in our international partnerships, including the USAID supported collaborations with Duke University.

IITGN has developed a national reputation for its pedagogical innovations with such initiatives as the Foundation Programme, Peer Learning Initiative, Self-Learning Mode of Instruction, the Summer Research Internship Programme, and the Explorers Fellowship, all of which expanded during the past year. And we launched new ones, such as the Creative Learning Initiative to foster hands-on experiential learning and creativity, as well as the Gram Fellowship, which offers opportunities for our students to immerse themselves in village life.

Many of these and other educational innovations have benefited, and in some instances, made possible, thanks to the generous contributions of our donors. We had an unusually successful year with donations this year exceeding Rs 15 crores. We are touched by the enormous confidence so many well-wishers have placed in the Institute.

Our academic programmes continue to expand with the introduction of BTech in Computer Science and Engineering; BTech-MTech Dual degree programmes; Dual Major in BTech Programme; and MTech and PGDIIT in Biological Engineering, and in Earth System Science.

As the Institute gets ready to enter its second decade, we are excited by both the challenges and opportunities that the next phase of radical growth has to offer.

We stand ready, renewed and rejuvenated for the ambitious task of building an institution of global stature on which we embarked nine years earlier.

Sudhir K Jain
Director

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.

VALUES

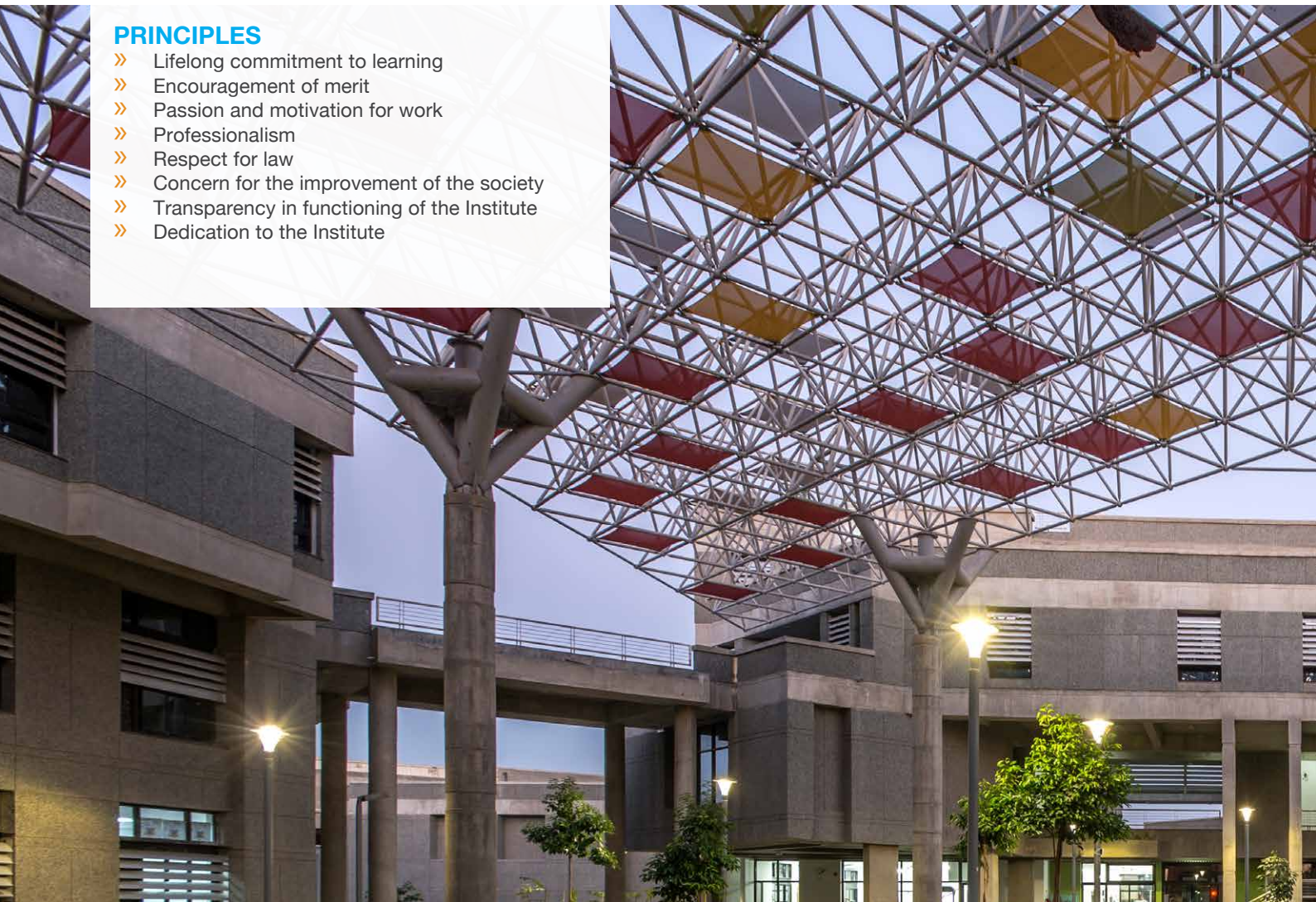
- Meritocracy
- Unparalleled quality and excellence
- Honesty, Integrity, Sincerity and Devotion
- Trust and freedom with accountability
- Appreciation and celebration of creativity
- Willingness to try new ideas and make mistakes
- Social and Moral responsibility
- Respect for every individual, and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

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

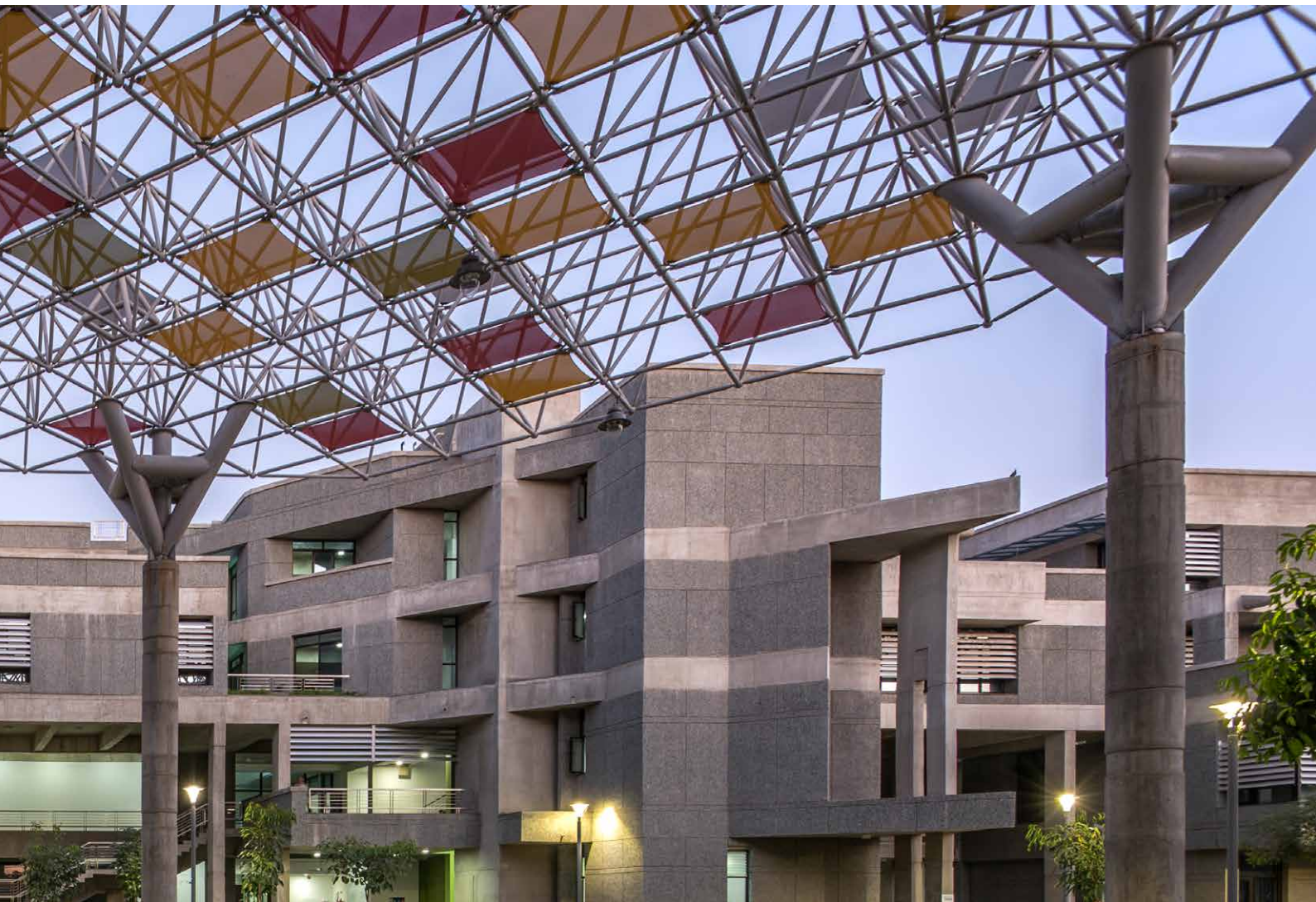


GOALS

- 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.



ACADEMICS

PROGRAMMES OFFERED

BTECH
Chemical Engineering I Civil Engineering I Computer Sciences and Engineering I Electrical Engineering I Materials Science and Engineering | Mechanical Engineering

MTECH / PGDIIT
Biological Engineering I Chemical Engineering I Civil Engineering I Computer Science and Engineering I Earth System Science I Electrical Engineering I Materials Science and Engineering I Mechanical Engineering

MSc
Chemistry I Cognitive Science I Mathematics I Physics

MA
Society and Culture

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


ARCHAEOLOGICAL SCIENCES CENTRE

CENTRES

ARCHAEOLOGICAL SCIENCES CENTRE

The Archaeological Sciences Centre (ASC) at IITGN was formally constituted in December 2012. The ASC's faculty consists of **Prof V N Prabhakar** (on deputation from ASI) and **Prof Alok Kanungo**, **Dr R S Bisht** (former Joint Director General of ASI) and **Prof Michel Danino** (author and scholar), **Dr M B Rajani** (expert in remote sensing). The ASC has the following principal objectives:

- create state-of-the-art facilities that will be used by the archaeological community at large
- carry out cutting-edge research in scientific disciplines allied to archaeological investigations
- engage with Archaeological Survey of India (ASI) and other institutions / university departments to stimulate fresh research and provide professional training in the archaeological sciences
- nurture bridges between humanities and scientific disciplines

As per the MoU signed between ASI and IITGN, the ASC has been undertaking research projects related to multidisciplinary investigation of the excavated site of Dholavira (Rann of Kutch). This flagship project will considerably add to our understanding of the most impressive Harappan site in India which was an important city of the Indus age. The following activities have been initiated under the overall guidance of **Dr R S Bisht**, who directed excavations at the site in the 1990s and 2000s, and guided several visits of IITGN faculty to the site:

- documentation, analysis, classification, typological and scientific analysis of Dholavira ceramics was continued during 2015-16 with significant progress achieved in completing the documentation of one complete trench, which covers all cultural layers of Dholavira.
- stone beads comprising etched and decorated carnelian beads and long barrel cylindrical agate-carnelian beads were studied documented by the ASC as evidence of the flourishing stone bead industry at Dholavira during the third millennium BCE.
- detailed documentation and analysis of Dholavira sealings by **Dr Dennys Frenez**, University of Bologna, Italy in collaboration with ASC was formulated and with the permission of ASI, the preliminary studies were carried out in Apr-May 2016.
- ASI also sought the Centre's assistance in converting the excavation report of Dholavira which was submitted to DG, ASI, in January 2014 into a publication-ready format.
- Remote sensing study of Dholavira and environs was continued in this regard a fieldwork consisting of the faculty members of ASC and **Dr M B Rajani** was arranged in January 2016 to cross-check the potential localities and probably archaeological features identified through remote sensing sources.
- Study of mathematical aspects (proportions and linear units) in Dholavira's town-planning. Earlier results obtained through geometrical processes could be confirmed through a statistical test.

The ASC has continued various projects such as:

Palaeoclimatology and Archaeobotany: to understand the palaoclimate and palaeodietary practices of past cultures.

Characterization of Archaeomaterials: to study the site of Dholavira to uncover the 1500-year history of the archaeometallurgy, followed by various studies in terms of composition using quantitative and qualitative techniques and lastly the manufacturing processes involved.

Bead drilling technology of the Harappan Civilization: The analysis of bead impressions obtained from Harappan sites like Karanpura, Dholavira, Daimabad, Sanauli have been continued during 2015-16 also.

Petrological studies of stone raw materials from Dholavira: Stone raw material samples from Dholavira were analysed using the petrology principles of geology. Samples of agate, amazonite, jasper, turquoise, bloodstone, carnelian, chert and ernestite were analysed using petrological microscope. These studies have helped in understanding the mineral inclusions and compositions leading to understanding of the origin, exploitation and nature of raw materials used in antiquity by humans.

The ASC collaborates with other faculty members / disciplines within IITGN. Techniques such as ground-penetrating radar (GPR), remote sensing and 3D laser scanning for characterization of soils, rocks and clays, chemical characterizations, have been adopted. The ASC has also striven to set up basic lab facilities to carry out the analysis. The equipment that have been approved and that are in various stages of the procurement process include a stereo zoom microscope for preliminary study and documentation of archaeomaterials including the archaeobotanical aspects, petrological microscope to study petrological aspects of rocks, minerals and ceramics from both geological and archaeological contexts, automatic cutter, grinder and polisher for preparation of samples of ceramics, rocks and stones for petrological analyses.

Prof V N Prabhakar is the coordinator of the Centre.

CENTRE FOR BIOMEDICAL ENGINEERING

The Centre for Biomedical Engineering at IIT Gandhinagar (IITGN) 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 Center 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 at this 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.

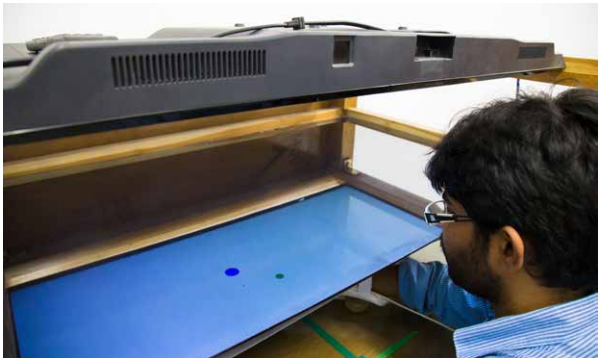
Research projects carried out under the aegis of the Centre fall under three broad categories as follows:

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.

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



CENTRE FOR COGNITIVE SCIENCE

The Centre for Cognitive Science was set up with the aim of promoting scholarship in cognitive science through cutting edge research, student training, and knowledge dissemination and outreach. Cognitive scientists seek to understand the mind and the brain, and come from diverse backgrounds ranging from philosophy to computer science. Cognitive science is relatively a new discipline in Indian academia and IIT Gandhinagar has been a leader in terms of developing such a program and nurturing it. The Centre began as a Program when an international conference on Cognitive Science was convened at the institute in 2010. The conference was a turning point where researchers from India and abroad learned about IITGN's commitment to the subject. Strong institutional support then saw the establishment of a PhD program with one faculty member and two students. The group has now grown to 6 full time faculty, more than 15 PhD scholars, more than 20 MSc students and several visiting scholars and academics from around the globe. The Centre was formally established by resolution of the Board of Governors on Dec 2, 2014.

The primary objective of the Centre is to engage in interdisciplinary research to study cognition, brain and behavior. Faculty members that are part of the Centre conduct research activities in a wide array of areas including philosophy of mind, perception, attention, learning and decision making, motor control and rehabilitation and neuro-developmental disorders like autism. This research is expected to benefit areas like education, mental health, social behavior and technological development. IIT Gandhinagar is in a unique position to achieve these objectives due to the institutional priority on seamless cross-disciplinary interaction and support for unique fields of work. The Centre has also focused extensively on engaging with other institutions around the country to forge collaborative partnerships, as well as with the common public to communicate the knowledge generated through the Centre's research activities. Several by eminent speakers and the annual conference of the Association for Cognitive Science (India) were facilitated by the Center. **Prof Jaison Manjaly** is the coordinator and **Prof Pratik Mutha** is the co-coordinator of the Centre.

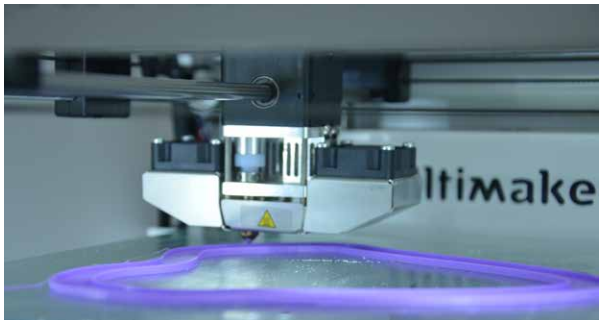
DESIGN AND INNOVATION CENTRE

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.

The focus of the DIC is to develop innovations that have a major impact on the improvement in the quality of life in Indian society in particular and the world in general. The Centre fosters a multidisciplinary approach and supports projects of an innovative nature and collaborates with globally acclaimed institutions. The projects at the DIC have a strong industry and social focus and follow a human-centric design philosophy in a wide range of areas, such as biomedical innovations, sustainable social innovations, ecological design, frugal engineering, etc.

"Swasti"- an innovation for Parkinson patients was selected for Exhibition on "Innovations in Medical Science and Biotechnology" at Rashtrapati Bhavan on Mar 9, 2017. Apart from Swasti, DIC is involved in providing design solutions in "One Touch Doctor" (devise for measuring six body parameters) and head mounted device for post-treatment of heart disease patients.

The DIC organized an international workshop in collaboration with the Japan Institute of Science and Technology (JAIST), Dec 5-9, 2016. The focus area of the workshop was to derive a sustainable solution for pedestrian and road safety for Ahmedabad. A team of eight students with **Prof Tsutomu Fujinami**, **Prof Hisashi Masuda** and **Prof Atsuo Yoshitaka** visited IIT Gandhinagar from Dec 5-9, 2016. Possibilities on joint course on design and other disciplines are being explored.



The DIC has played a key role in developing the Tinkering Lab at IIT Gandhinagar that provides a platform to students and community members to explore design skills in their respective fields. The Tinkering Lab provides hi-tech facilities such as rapid prototyping, 3D scanning and profile projection systems. The DIC mentors students on design research and product development processes that includes creative thinking, representation techniques, prototyping and design detailing. The institute has introduced a compulsory design course for all undergraduates in the second year. The DIC seeks to cultivate a design ecosystem at IITGN with talks, seminars, symposium and workshops. It also conducts periodic design contests around active projects and facilitates student and faculty design and innovation projects.

The DIC offers in-house design services to the Institute community, including development of promotional videos, posters, flyers, brochures, reports, conference materials, book covers, mobile app design, etc. **Prof Harish P M** is the coordinator of the Centre.

CENTRE FOR SUSTAINABLE DEVELOPMENT

Centre for Sustainable Development (CSD) at IITGN aims to identify sustainability related challenges that have a high societal importance, conduct high-quality research on them, and to provide cost-effective sustainable solutions through its strong outreach and technology-transfer programs. Major activities related to these Sustainable Development Goals of the UN are currently underway in the water resources, sustainable energy, climate change, public health,natural resources and environment. Research studies undertaken along these themes in the year 2016-17 include studies of air particulate matter in indoor and outdoor environments in Ahmedabad; measurement of urban carbon dioxide levels in Ahmedabad and Gandhinagar using tunable diode laser spectroscopy; assessment of climate change impact on water resources; management of sediment dynamics and river hazards; development of a hydrogen generator fuelled by bio-ethanol; renewable energy sources; wastewater treatment system; household survey on health, well-being and intergenerational relationships of older adults in Ahmedabad; and spread of dengue and its control in Ahmedabad. These research activities have resulted around 20 research publications in the 2016-17 year in international and national journals.

A 10-day training program on 'Optimal design and control of Smart community: New ideas for off-grid communities' was conducted under the Energy theme from Nov 7-17, 2016. It was supported by the Newton-Bhabha India-UK Advanced Training School (IUATS). The aim of the training program was to provide training to UK and Indian participants in advanced research techniques and methodologies related to optimal design and control of Smart community. A workshop on 'Sustainable Groundwater Management' was conducted for 5 days duration under Water Resources theme.

The Centre has also supported various environment-friendly practices at the IITGN campus. Major activities include roof-top water harvesting, roof-top solar photovoltaic panels of 200 kW, starting of passive cooling technologies in some of the buildings, three-stage fully-natural (chemical-free) sewage treatment plant and initiation of biogas plant with 1-ton biogas generator. A biodiversity survey of the IITGN campus has also started from this year. The first biodiversity survey was carried out in collaboration with GEER Foundation and 101 species of birds were spotted in the IITGN campus.

Prof Vikrant Jain is the coordinator and **Prof Vimal Mishra** is the co-coordinator of the Centre.

SAFETY CENTRE

The Safety Centre of IITGN pursues high-impact research and quality education in the field of safety. The Safety Centre 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:

The Safety Centre of IITGN pursues high-impact research and quality education in the field of safety. The Safety Centre 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 technical 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 IIT Gandhinagar's operations such as labs and event organization.

A highlight of the centres activities was the

IITGN-UL FIRE SAFETY RESEARCH STATION

IITGN-UL Fire Safety Research Station was commissioned at IITGN with active support and participation from Underwriters Laboratories. It is a full-scale 3-story test facility that enables a variety of fire tests under realistic conditions, and is the first such facility in India. The Station was inaugurated on Dec 8, 2016 and first test was conducted the same day to study fire performance of building façade materials and their fire safety characteristics. UL has been our active partner since June 2009 and this partnership is a fine example of strong collaboration between industry and academia.

commissioining of the IITGN-ULFire Safety Research Station at IITGN on Dec 8, 2016 with active support and participation from Underwriters Laboratories. The 3-storey test facility is the first full-scale facility in India for testing under realistic conditions. The first test was conducted the same day to study the fire performance of building façade materials and their fire safety characteristics.

Safety Centre was awarded a major research project to develop a 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 Brother, Ahmedabad, Gujarat. The condensed aerosol in the extinguishers produces ultra-fine fine particles in the form of aerosol upon reaction and break the fire chain reaction and extinguish the fire. These products are currently only available in developed countries such as Netherlands, USA, and Russia. The product will be marketed by the industry partner (Shah Bhogilal & Jethilal Brother) in India and abroad.

Other research projects within the Safety Centre are related to eye tracking for operator training to evaluate operators’ expertise in process plant, chemical sensing using tunable diode laser spectroscopy, physio-chemical characterization of cement mortar at high temperature, mesoscale modeling of concrete at elevated temperature, topology optimization of steel girders subjected to thermal and mechanical loads, safety, performance and reliability of roof-top solar photovoltaic systems, seismic performance assessment of new and constructed facilities, ground motion characterization for seismic design, experimental evaluation of dynamic characteristics

The Safety Centre conducted a Workshop on Fire Forensic in association with Underwriters Laboratories from Dec 10-11, 2016. The lead trainers were **Jamie Novak** and **Robert James** from the USA. The 3rd edition of the International Conference on Safety (ICS 2017)was held from Jan 3–4, 2017. The interdisciplinary conference brought together about 150 researchers, educators, safety officials, engineers, safety advocates, policy makers and consultants to undertake a comprehensive analysis and explore solutions to pressing safety challenges in India and around the world. The Symposium on Process Safety (SPS 2017) was organized alongside the main ICS 2017 conference in association with Mary Kay O’Connor Process Safety Center (MKOPSC) during Jan 5-6, 2017. A Symposium on Structures Under Fire (SSUF 2017) was arranged during Jan 5-6, 2017. The SSUF 2017 introduced the participants to the fundamentals of design and safety of structures when exposed to fire.

Prof Rajagopalan Srinivasan is the coordinator and **Prof Chinmay Ghoroi** is the co-coordinator of the Centre.

MAJOR DEVELOPMENTS

AWARDS

IIT GANDHINAGAR RANKED 8TH BY NATIONAL INSTITUTIONAL RANKING FRAMEWORK (NIRF)

IIT Gandhinagar was ranked 8th among all engineering institutions in the country by the **National Institutional Ranking Framework** (NIRF) on Apr 4, 2016. IITGN was ranked 4th in Teaching, Learning and Resources and 5th in Outreach and Inclusivity. The NIRF has been initiated by the MHRD and was launched on Sep 29, 2015. The framework outlines a methodology to rank institutions across the country. The parameters broadly cover Teaching, Learning and Resources; Research and Professional Practices; Graduation Outcomes; Outreach and Inclusivity; and Perception.

IIT GANDHINAGAR WON HUDCO DESIGN AWARDS 2016

The Academic Complex of IIT Gandhinagar, Palaj campus has won the **first prize of Housing and Urban Development Corporation Limited (HUDCO) Design Awards 2016** in the category of **Green Buildings** for its green initiatives including passive shading, orientation design, extensive use of natural light, use of fly ash bricks, cavity walls, solar PV and saving the existing trees. The prize has been awarded jointly with the architectural consultant M/s Mitimitra Consultants. Previously, the institute had bagged the first prize of HUDCO Design Awards 2015 under the category of **Cost Effective Rural/Urban Housing including Disaster Resistant Housing** for staff housing and student hostel. The Academic Complex also bagged the AESA Award 2017: Outside Pune District. AESA is a professional organisation of Architects Engineers and Surveyors and has a long history in Pune.

PADMA SHRI AWARD TO IITGN FACULTY

Prof Michel Danino was awarded the **Padma Shri**, one of the highest civilian awards of the nation. He was awarded for his contributions towards **Literature and Education**. Professor Danino has been a Guest Professor at IITGN since 2011, where he has been teaching courses that give a broad panorama of the Indian culture and civilization. He played a key role in establishing the Centre for Archaeological Sciences at IITGN.

NEW ACADEMIC PROGRAMMES INTRODUCED

The institute has introduced the following new academic programmes from the Academic Year 2016-17:

- BTech in Computer Science and Engineering
- MTech and PGDIIT programmes in Biological Engineering and in Earth System Science
- Early Admit MTech programme
- Dual major in BTech programme
- BTech and MTech dual degree programmes

IITGN-UL FIRE SAFETY TEST STATION

Glass facade are used very commonly in modern construction. In addition to being aesthetically pleasing, they enable better energy management of buildings and have therefore become an integral part of green building design. While glass façade systems offer excellent energy management advantages, they can easily become vehicles for movement of fire along the building. Many past fire incidents in buildings indicate the risks associated with using façade systems. IIT Gandhinagar collaborated with UL, a global safety science organization, for an innovative project to study the nature of fires in buildings with glass exteriors. The goal of the study, which includes regulators, manufacturers, and stakeholders of the fire and security community, was to emphasize the urgent need for developing performance-based codes and to align norms governing fire safety with country-specific standards. A live fire test was conducted at IIT Gandhinagar on Dec 8, 2016. To replicate a real-world scenario, the test building with a glass façade was equipped with furniture common in contemporary commercial buildings. The fire load was implemented as per National Building Code specifications. The entire experiment, which was captured using sophisticated cameras and drones, provided invaluable data on the spread of fire within the building.

CREATIVE LEARNING INITIATIVE (CLI)

IIT Gandhinagar started Created Learning Initiative (CLI) based on the overwhelming feedback of the teachers workshops.

The overarching goal is to make learning (especially science and math) interesting and hence joyous. The participants would spend time creating interesting models, toys, films and engage in workshops and outreach for teachers/students in Gujarat and other states. It would be an inspiring space where people would come, explore, design, make things that they can feel proud of. The goal is to take these science and math outreach activities to a larger scale. **Mr Manish Jain** who graduated from IIT Kanpur in 1993) and **Mr Ravi Sinha** (who graduated from IIT Delhi in 2014) came on board to spearhead the initiative.

Activities of the CLI:

1. content-creation-curation of hands-on Science and Maths
2. dissemination of knowledge through inspiring workshops
3. create experiential-science-center

THE TEACHER WORKSHOP

IITGN conducted four workshops for high school science and mathematics teachers from Government schools of Gujarat in the period of Jan-Mar 2017. The event was sponsored by the Rashtriya Madhyamik Shiksha Abhiyan (RMSA). Through hands-on approaches teachers learned the basics of science and maths which helped to make learning joyous and experiential. The goal of the workshop is to trigger interest in the subject and make a difference in the classrooms.

SIGNIFICANT ACTIVITIES

VISIT OF TWO NOBEL LAUREATES

IIT Gandhinagar had the proud privilege of hosting two Nobel laureates on Jan 11, 2017. The lectures were attended by over 1200 students from all over Gandhinagar and Ahmedabad apart from IITGN students. Their inspiring lectures will no doubt leave an indelible mark on the minds of those who were present.

Prof Harold Varmus: Nobel laureate, 1989, Medicine/ Physiology

Prof Harold Varmus gave an inspirational talk about the science behind cells becoming cancers. Remarkably, his first degree is in literature. Subsequently he went into medicine, and then developed keen interest in biology while working at National institute of Health. His lecture covered the basis behind normal cells turning to cancer and the factors that induce this transformation. He also emphasized the importance of "Targeted Therapy" in cancer and importance of cure especially in India. He stressed the importance of care and counselling in the process of curing of cancer patients.

Prof Randy Schekman, Nobel laureate, 2013, Physiology/Medicine

Prof Randy Schekman delivered a fascinating lecture about his inspirational scientific journey. He narrated how his childhood curiosity for understanding the unknown, led him to persistently pursue his parents to buy him a microscope, which he has now donated to the Nobel museum in Sweden. Prof Schekman, then led the audience back in time, and narrated how over the past three decades, he and his many graduate students and postdocs in Berkeley deciphered the fundamentals of eukaryotic membrane traffic using a genetic and biochemical approach. Prof Schekman emphasized the importance of rigorously pursuing basic scientific questions out of simple curiosity.

The event was organized by **Prof Sivapriya Kirubakaran** and **Prof Sharmistha Majumdar**.

PORTUGUESE MINISTER VISITS IITGN

Two distinguished visitors from Portugal, **Prof Manuel V Heitor**, Minister for Science, Technology and Higher Education and **Prof Antonio M Cunha**, Rector, University of Minho (and President, Portuguese Universities Rector's Council) visited IITGN on Jan 10, 2017. The minister's visit was aimed at strengthening the scientific and technological cooperation between the universities in Portugal and IITGN. The Portuguese delegates and IITGN faculty members discussed joint researches, exchange of faculty and students and possibilities of promoting collaborative research projects.

THE 5TH CONVOCATION CEREMONY

The 5th Convocation Ceremony of IIT Gandhinagar was held on the Aug 6, 2016 at the Palaj campus. A total of 114 BTech students, 79 MTech students, 23 PhD students, 30 MSc students, 12 MA students and 4 PGDIIT students were awarded degrees on the occasion. **Shri Senapathy 'Kris' Gopalakrishnan**, co-founder Infosys and the Chief Guest for this occasion encouraged students to serve the nation with sincerity and dedication. He welcomed the graduates to the legend called IITs. Director **Prof Sudhir K Jain** in his speech for the graduating batches appreciated the great support and maturity of the students in helping build a new campus. He spoke about the great opportunities that IIT Gandhinagar provides to its students. **Radhika Pramod Patil** was awarded the President's Gold Medal for BTech, **Nanditha J S** received the President's Gold Medal for MTech, and **Sini Varghese** received the President's Gold Medal for MSc and MA batches. The Director's Gold Medal for PhD went to **Dr Payel C Mukherjee**, Directors Gold Medal for BTech went to **Yash Pratap Singh**, and Director's Gold Medal for MSc and MA went to **Ratna Bharti**. Institute Medals and awards in several categories were conferred upon the meritorious students.

6TH ACADEMIC ADVISORY COUNCIL MEETING

The **6th Academic Advisory Council** meeting was held on Dec 26, 2016 to brainstorm on several important issues. These included initiatives for strengthening teaching and learning process, improving governance systems, identifying focus areas in research, and planning future academic facilities. The Academic Advisory Council comprises of eminent and leading academicians and meets every year to discuss academic issues of priority to IITGN. It provides strategic and external inputs on issues of key importance as the Institute grows from being a 1200 student Institute to one with 5000 students.

7TH LEADERSHIP CONCLAVE

The **7th Leadership Conclave** was held on Dec 27, 2016, to discuss initiatives for strengthening and sustaining the culture of the institute, grooming young faculty for leadership roles, alumni engagement, and IITGN's Research Park. The Conclave provides guidance to the institute about in its short, medium, and long-term strategic issues. It includes some of the most eminent thinkers from India and around the world, and includes participants from industry, academia and government.

INDUSTRY-ACADEMIA CONCLAVE: CONNECTIONS 2016

IITGN hosted an **Industry Conclave** on Sep 30 - Oct 1, 2016. The event provided an opportunity for the academic community at IITGN to interact with several top functionaries from different groups of industries. Apart from talks and panel sessions, the event also included a campus tour and a "Walk by the Wall" poster session.

FOUNDATION PROGRAMME

The Foundation programme (FP) is a unique academic programme that the first year BTech students undergo at IIT Gandhinagar. The programme is designed to enhance the abilities of the target group of students in five aspects: (i) social awareness (ii) communication, teamwork and leadership (iii) values and ethics (iv) creativity (v) physical fitness and sports. This year the five-week long Foundation Programme was held during Jul 24 - Aug 26, 2016. The programme was inaugurated by **Shri Maheswar S Sahu**, former IAS officer, along with IITGN alumni **Kislay Pankaj**, senior electrical engineer at Ather Energy and **Nisarg Shah**, technology analyst, Goldman Sachs. The program included sessions on photography, caricature, origami, warli painting, music, painting, model making, metal sculpture, mean mechanics, juggling, Lego, toys from trash, creative thinking, yoga, sports, heritage walk, theatre activities, railway station cleaning and tree-planting. Several engaging talks on leadership, team spirit, gender sensitivity, ethics and value education were also organized to encourage the students to open up their minds. The programme concluded with Eureka, a cultural evening organized by freshers' where they showcase their talent and potential to the rest of the IITGN community with performances of dance, drama, music, poetry recitation, and other activities. The program was coordinated by **Prof Atul Dixit, Prof Arnab Dutta, Prof Ketki Sharma, Prof Umashankar Singh** and **Prof Dilip Sundaram**.

EXPLORER'S FELLOWSHIP 2016

Fifty IITGN students received the **IITGN Explorer's Fellowship** for the summer of 2016. Students formed 23 teams and every team member was awarded Rs 35,000 to travel to different states in India over a period of six weeks during May-June 2016. The Explorer Fellowship programme aims to introduce students to the cultural and geographic diversity of the country. Students are required to explore six or more states, including at least one state each from the southern, northern and north-eastern regions of the country. The fellowship stipulates that students travel by sleeper class in trains or by state government buses and stay in low-cost accommodation. Students are also expected to maintain a diary or blog during the travel, within city the two best diaries or blogs being eligible for a prize of Rs 5,000 and a certificate of merit.

INDIA KI KHOJ

One of the unique programmes at IITGN is **India ki Khoj**, an intensive module focused on the understanding and appreciation of India through diverse lectures and field visits. The aim of the programme is to explore India in a multidisciplinary way through perspectives from sociology, economics, culture, art, technology and beyond. This year **India ki Khoj** was organized during Dec 12-19, 2016 and included twelve students from Caltech (US), eight students from JAIST (Japan) and ten students from IITGN. Some of highlights included an inaugural lecture by **Prof Chinmay Tumbe** (IIMA) on **Migration and Urbanization in India, 1870-2020** and an interactive session entitled **Popular Cinephilia in South Asia** by **Prof Ravikant**, Centre for the Study of Developing Societies (CSDS). Field visits included trips to Old Ahmedabad, Gandhi Ashram and L D Museum of Indology.

SERC PREPARATORY SCHOOL IN THEORETICAL HIGH ENERGY PHYSICS (THEP)

The High Energy Physics community in India organizes SERC Schools in **Theoretical High Energy Physics (THEP)** since 1985. The Preparatory School 2016 was organized at IIT Gandhinagar from Sep 5 – Oct 1, 2016. The school was attended by 50 participants. The objective of these schools was to train PhD students in subjects they need to learn to carry out research in THEP and to expose them to recent developments in the field.

NEWTON-BHABHA INDIA-UK ADVANCED TRAINING SCHOOL

IITGN organized the **Newton-Bhabha India-UK Advanced Training School (IUATS)** on Optimal design and control of Smart community: New ideas for off-grid communities from Nov 7-17, 2016. IUATS is designed to provide training to UK/India-based post-doctoral and early career (holding a PhD) researchers in advanced research techniques and methodologies. It also provided a unique opportunity to participants to share their research expertise and build their professional network with focus on promoting international collaboration and supporting capacity for investigation and innovation in the broad area of "Smart community". A total of 27 participants, 8 faculty members from UK and 19 faculty/postdoc researchers from across India participated at the IUATS.

INTERNATIONAL SAFETY CONFERENCE

The Safety Center at IITGN organized the **3rd International Safety Conference** during Jan 3 - 6, 2017. The conference also featured a symposium on **Process Safety** during Jan 3 - 4, 2016 and a symposium on **Structures under Fire** during Jan 5 - 6, 2017. The conference was coordinated by **Prof Chinmay Ghoroi**, Chemical Engineering.

RESEARCH OPPORTUNITIES IN COMPUTER SCIENCE (ROCS)

The discipline of Computer Science and Engineering organized a one-day workshop on **Research Opportunities in Computer Science** on Feb 24, 2017. The program featured talks from the faculty of the CSE discipline highlighting major research trends in various areas of computer science and engineering. The workshop was organized by **Prof Manu Awasthi** and **Prof Neeldhara Misra**, Computer Science and Engineering.

CAMPUS ON THE SABARMATI PUBLICATION

Another publication in this series was brought out. It documents the intent, process and the content of the **selection process for architectural consultants for Phase I of planning of the campus** along with an introduction of the context. It captures the multiplicity of ideas, design solutions and responses that were generated to address the given program requirements. IITGN's intention, unique approach and methodology to adopt a multi-stage selection process to select the architectural consultant are also captured in this book. This publication intends to serve as a ready reference and a learning tool for students of architecture, academicians and professionals dealing with educational campus design. The requirements of Phase I of the Masterplan presented in this publication include different typologies for residential facilities such as Hostel blocks for students, Guest House with allied facilities as well as Director's Residence for the new IITGN Campus.

SEMINAR ON CAMPUS DEVELOPMENT

A **Campus Development Seminar** event was organised on Feb 01, 2017. The event was an opportunity to pause after the first set of constructions and reflect on successes and learnings before the next set of constructions begins. Architects, CPWD and Works engineers, peer reviewers, other consultants, faculty and staff, and well-wishers who contributed at various stages of the project were invited. Campus Development Awards were distributed by **Prof Sudhir K Jain** and **Shri Abhai Sinha** (Director General, CPWD). **Mr Chinmay Ajnadkar** (IITGN alumnus); **Ms Jagruti Ben** (teacher for construction workers' children); **Mr Dinesh Borse** (IITGN Student); **Ar Dhara Mehta Dalal** (architect with Mitimitra Consultants); **Mr Chandrakant Mehta** (Relcon Subconsultant); **Mr A L Patel** (CPWD); **Mr Nilesh Paseriya** (HEC Infra Project); **Ms Shantu Pindoriya** (organic Farm Coordinator); **Mr Gaurav Shukla** (IITGN); **Mr K R Singh** (CPWD); **Mr Nand Lal Vishwakarma** (IITGN) and **Mr P H Yadav** (Horticulture) received awards for extra-ordinary contributions.

UL CHALLENGE 2015

Underwriters Laboratories (UL) floats an engineering challenge for undergraduate students of IITGN every year since 2009. In 2015, the contest focused on **Rooftop Solar PV Safety**. Seven students (**Nikhil Roy, Ajay Singh, Kunal Dudhat, Aagam Shah, Ayon Biswas, Ansh Joshi, Aman Singh**) were selected as winners of UL Challenge 2015. During Phase 2 the team worked at IITGN & UL lab in Bangalore on design of experiments and to undertake site visits. Based on the Phase 1 and Phase 2 learnings, the team came up with a report titled "Guidelines for grid-connected rooftop solar PV systems", which was a result of the team's understanding that installation practices need critical consideration in India considering that over 40 GW of rooftop solar PV systems are going to be installed by 2022. The report was submitted to UL, Bangalore for further considerations and to be eventually submitted to MNRE.

SUMMER SCHOOL ON ENGINEERING

A four-week **Summer School on Engineering Topics** was held at IITGN under **TEQIP-II** initiative (MHRD and Government of Gujarat), Jun 6 - Jul 2, 2016. The Summer School provided the participants with better understanding and effective teaching methodology for the first three years of engineering education. Around 35 speakers and resource persons from IITGN and other IITs were a part of this initiative which was attended by 337 faculty and students from other institutes.

SUMMER RESEARCH INTERNSHIP PROGRAMME (SRIP)

The 5th edition of **Summer Research Internship Programme (SRIP)** offered around 70 research projects for students to work with IITGN faculty. The programme which began on May 2, 2016 concluded on Jul 8, 2016. The programme is aimed at building strong ties with other institutions through research at IITGN. The number of applications for SRIP was more than 10,000 this year. A total of 123 students from outside IIT Gandhinagar and 104 students from IIT Gandhinagar participated in the programme. A large number of students from leading engineering institutes in the country including IIT Delhi, IIT BHU, IIT Roorkee, NIT Trichy, NIT Karnataka, NIT Calicut, Birla Institute of Technology and Science (BITS) Pilani, Indian Institutes of Science Education and Research (IISER) Bhopal, National Institute of Science Education and Research (NISER) Bhubaneswar, and other premier institutes were part of SRIP 2016. There was a poster presentation on Jul 6, 2016. **Prof Vineet Vashista, Prof Manish Kumar** and **Prof Shanmuganathan Raman** coordinated the programme.

UNDERGRADUATE RESEARCH CONCLAVE

The 1st Undergraduate Research Conclave (UGRC) was held at IIT Gandhinagar on Sep 3, 2016. The Conclave saw the participation of 17 undergraduate students from IITGN, who did their summer internships at prestigious institutions within or outside the country (including Caltech, Duke, IIT Gandhinagar and ISRO). The Conclave was organized by **Prof Manish Kumar, Prof Shanmuganathan Raman**, and **Prof Vineet Vashista**. The winning poster was by **Mr Vipin Prajapati** and was titled **Fully printed carbon nanotube - thin film transistors for pressure and sensing applications**. The students who were selected for the oral presentations were **Srinivasan A, Suraj Bhosale, Garima Chaudhary, Deepak Dhariwal, Amber Kothari** and **Vipin Prajapati**.

TEXAS A&M PARTNERSHIPS

Ten students and a professor from the Texas A&M University visited IITGN this summer. This continues our strong partnership with Texas A&M, with many students from IITGN having visited their campus for summer research in the past.

NUS SINGAPORE STUDENTS VISIT IITGN

Students from National University of Singapore visited IITGN on Dec 5, 2016. The programme consisted of talks by IITGN faculty members on natural history of Gujarat, archeology and development issues in Gujarat. The visit was part of NUS's annual STEER-India programme, which is two-week exposure trip in Gujarat's educational institutes, NGOs and local communities.

IITGN ALUMNI RELATIONS

The Office of Alumni Relations was started at IITGN in 2016 to build strong and long-lasting connections with the alumni of the institute. This office plans to provide

support to alumni in their personal and professional endeavours. As a welcoming gesture to all the alumni, the Office of Alumni Relations will provide free campus accommodation for two nights in a calendar year **Prof Amit Arora** is the coordinator of the Alumni office. The office is supported by Sumesh Ailawadi (Coordination Intern) and Lavdeep Kaur (Coordination Assistant, IITGN Alumnus). An Alumni-Student Interaction session was held on Mar 3-4, 2017 with Ameya Yashwant Joshi, alumni from the 2010-14 Electrical Engineering batch delivering a talk about opportunities for IITGN students abroad and about his journey from IIT Gandhinagar to pursuing his masters in Stanford and subsequent employment with Apple Inc.

JEE OPEN HOUSE

IITGN hosted two JEE Open House events on Jun 5 and Jun 18, 2016 with the aim of offering guidance and exposure to students who appeared for Joint Entrance Examination (JEE) Advanced 2016. The objective of the Open House was to help the prospective engineering students in their decision-making process. During these events, **Prof Sudhir K Jain** (director, IITGN) and **Prof Dheeraj Sanghi** (Dean of Academic Affairs and Dean of External Relations at IIIT Delhi) addressed the students and their parents in an interactive session. The Open House also had several other sessions with IITGN faculty, students and alumni. A campus tour was also organized. Both the open house events had over 150 participants including students and their parents.

INTERNATIONAL CONFERENCE ON CHANGING LANDSCAPE SCIENCE & TECHNOLOGY LIBRARIES (CLSTL)

IITGN organized a conference on **Changing Landscape of Science & Technology Libraries** from Mar 2 - 4, 2017. The aim of the conference was to bring together library professionals and researchers to exchange innovative ideas to understand how Science & Technology (S&T) libraries are transforming in the midst of rapid technology developments. The conference was coordinated by **Dr T S Kumbar**, Librarian.

WORLD ENVIRONMENT DAY

The IITGN community planted around 100 saplings in the campus to mark the celebration of **World Environment Day** on Jun 5, 2016. The event was initiated by a group of students at the institute that calls themselves the 'Green Gang'.

SANJEEVANI CAMP

IITGN organized **Sanjeevani – Health Camp** on Jan 28, 2017. Around 750 people from nearby villages with the help of a dedicated team of 7 doctors, their assistants and 20 medical volunteers from M S University, Vadodara and IIPH Gandhinagar participated in the camp. The health camp was organized in collaboration with the US-based Desai foundation. The camp was inaugurated by **Mr Pankaj Kumar**, Principal Secretary of Health & Family Welfare Department, Govt of Gujarat.

ANNUAL PICNIC 2017

IITGN hosted the 9th faculty and staff picnic at Aranya Udhyan, Gandhinagar on Feb 12, 2017. It was a day full of games, musical performances, a bird-identifying walk in the jungle, visit to Sabarmati river bank and an interesting crossword competition. The picnic was organized by **Prof Manu Awasthi** and **Prof Kaustubh Rane**.

IITGN BIRD CENSUS

IITGN participated in the **Campus Bird Count** on Feb 18, 2017. It was a coordinated effort to document the birdlife in multiple campuses across India. This is the first time IITGN took part in this initiative. **Mr Sivakumar Jalod** and **Mr Ramjee Nagarajan** from Centre for Environment Education and Sundarvan Nature Discovery Centre helped identify and count the birds.

CONFERENCES/WORKSHOPS/SYMPOSIA/SEMINARS

Conferences, symposia, workshops 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 organizations and enhance the Institute's visibility to the outside world. The following activities were organized during 2016-17:

- Workshop to **Introduce world history and sequence and perspective to heritage issues** by **Ms Gauri Waagenar**, Apr 9-10, 2016.
- **Pahel** - *Ek Shuruat* aimed to explore the role of counselling services at educational institutes and ways in which the institutes can reach out to students more effectively was organized at IITGN during Jun 18-19, 2016. Some of the institutes that participated in this workshop included IITBHU; IIM Indore; FLAME University, Pune; Pandit Deendayal Petroleum University, Gandhinagar; Sardar Vallabhbhai National Institute of Technology, Surat and others. The event was coordinated by **Ms Nitu Singh Bhadouria**, **Ms Jasbir Kaur Thadhani**, and **Prof Kabeer Jasuja**.
- A two-day long workshop on **Reflections on six years of Right to Education Act - 2009**, organized by IIT Gandhinagar and sponsored by **Sarva Shiksha Abhiyan**, was held on Jul 22, 2016. Eminent academics, government officials, NGO's, school teachers, and students discussed the challenges of Right to Education (RTE) and ways of addressing them in this national workshop.
- Symposium on **Regional Mahabharata** on Sep 13, 2016. **Prof T S Satyanath** of Delhi University, **Dr Vikas Kumar** of Azim Premji University and **Prof Srinivas Reddy**, IITGN were the moderators of the event. **Prof Rita Kothari** chaired the session.
- The Center for Cognitive Science hosted the **3rd Annual Conference of the Association of Cognitive Science** (India) from Oct 3-5, 2016. The conference saw widespread participation from a multidisciplinary audience from across the country. The keynote addresses were delivered by **Dr Brendan Weekes** (University of Hong Kong), **Dr Anindya Sinha** (National Institute of Advanced Studies, Bangalore), **Dr V Srinivasa Chakravarthy** (IIT Madras), **Dr Sonali Nag** (The Promise Foundation, Bangalore) and **Dr Neeraj Jain** (National Brain Research Center, Gurgaon). Approximately 30 talks and 55 poster presentations were also delivered as part of the conference. The conference was supported by the Cognitive Science Research Initiative, Department of Science and Technology, Govt of India.
- IITGN organized a regional workshop on **Career Opportunities in Mathematics** during Dec 20-21, 2016. The workshop aimed to provide exposure to women faculty and students from Gujarat and neighboring states, engaged in teaching/research or pursuing their graduation in mathematics, to various career options in mathematics.

SCIENCE AND MATHEMATICS WORKSHOP FOR TEACHERS

IITGN hosted a two-day hands-on science and math workshop for school teachers on Oct 3-4, 2016. This workshop was attended by 100 teachers from Sabarkantha district. The second workshop was attended by 100 teachers from Aravalli district on Oct 6-7, 2016. These workshops were organised by **Prof Sriram Kanvah** and **Mr Manish Jain**.

NATIONAL MATHEMATICS INITIATIVE WORKSHOP

IITGN organized **National Mathematics Workshop** on Complexity Theory from Nov 2-6, 2016. The workshop had a broad scope that highlighted exciting research developments in areas such as structural complexity, low complexity classes, circuit complexity, parameterized complexity and communication complexity.

CHEMFERENCE 2016

IITGN hosted **ChEmference**, a national conference on Dec 3-4, 2016. The aim of the conference was to bring together graduate students and researchers from industry to exchange and share their experiences

and ideas on all aspects of Chemical Engineering and Technology, discuss the practical challenges encountered and the solutions adopted. Previously, ChEmference was held at IIT Kanpur (2008 and 2010), IIT Madras (2009), IISc Bangalore (2011), jointly at IIT Bombay and ICT Mumbai (2012) and IIT Hyderabad (2015).

NATIONAL CONFERENCE ON CHEMISTRY OF LIGHT AND MEDICINE

Discipline of Chemistry Organized a two-day National Conference with a theme **Chemistry of Light and Medicine** on Dec 8-9, 2016. The conference hosted several eminent speakers in the field of chemistry. The Bhatnagar Award winner and well-known chemist of our country **Prof S Chandrasekaran** gave a keynote address. **Prof Ramachandra Rao Dasari**, MIT, USA, spoke about "Use of biophotonics for clinical applications". The symposium also hosted several eminent and younger scientists. About 15 speakers across the country were invited. The speakers were from NCBS, HCU, IISERs, NIIST and from various parts of Gujarat. The meeting was attended by about 70 students and the students cherished the interactions with the distinguished speakers and guests. There were 30 poster presentations by the students and best posters were awarded. The symposium was generously supported by several vendors of the discipline and IIT Gandhinagar.

SEMINAR: ENIGMA OF NATURE/ ENIGMA OF THE NON-HUMAN

The discipline of Humanities and Social Sciences at IITGN, in association with the Balvant Parekh Centre for General Semantics, organized a seminar on **the Enigma of Nature/ Enigma of the Non-Human** during Jan 27–28, 2017. **Prof Nikolas Kompridis**, Research Professor in Philosophy and Political Thought, and Director, Institute of Social Justice, Australian Catholic University, delivered the keynote address on The Enigma of Agency: Human and Non-Human. The seminar was coordinated by **Prof Arnapurna Rath**, Humanities and Social Sciences.

EVENT ON SOCIAL JUSTICE

A session on **Songs of Protest** was organised by IITGN on Mar 21, 2017. **Mr Shambhaji Bhagat** and his group of the revolutionary artists and dalit activists performed their 'protest music' on the issues of social justice pertaining to caste and class in contemporary India.

SHORT COURSES

A variety of short courses are offered throughout the year to increase the choice and 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 2016-17 by recognized experts in their respective fields.

- Short course on **Quantitative methods in microscopy** by **Prof T Ramachandran**, formerly with IIT Kanpur, Mar 29 - Apr 11, 2016.
- Short course on **Basic bioinformatics: NGS analysis** by **Dr Prasoon Agarwal**, College of Medicine, Manitoba, Canada, May 21-23, 2016.
- Short course on **Bionics** by **Mr Samir Shukla**, former Visiting Faculty at IIMA, Jun 11-12, 2016.
- Short course on **Finite element analysis** by **Prof J N Reddy**, Texas A&M University, Jun 11-19, 2016.
- Short course on **Geosynthetics applications in infrastructure development** by **Prof G V Rao**, IIT Gandhinagar, **Shri M Venkataraman**, Former Vice President of Garware-Wall Ropes Ltd., **Prof Ajanta Sachan** and **Prof Amit Prashant**, IIT Gandhinagar, Jul 14 –15, 2016.
- Short course on **International health & community development** by **Dr Sonia Gulati**, University of Ottawa, Aug 9-10 & 13, 2016.
- Short course on **Development Studies** by **Dr Sandeep Pandey**, IIT Gandhinagar, Aug 13-14, 2016.
- Short course on **Promoting evidence-based policy to reduce poverty** by **Mr Gautam Patel**, J-PAL South Asia, Aug 27-28 & Sep 3-4, 2016.
- Short course on **Introduction to computer**

networking by **Mr Amit Saha**, OpenStack group in Cisco, Sep 7-11, 2016.

- Short course on **An Introduction to the Kautiliya Arthsastra** by **Dr Vikas Kumar,** Azim Premji University, Bangalore, Sep 8, 9, 12, 14 & 16, 2016.
- Short course on **Industrial Internet of Things (IIoT) - a practical perspective** by **Mr Amit Kumar**, Antarriksh, Nov 4-6, 2016.
- Short course on **Basic bioinformatics: databases-based analyses** by **Dr Prasoon Agarwal**, College of Medicine, Manitoba, Canada, Nov 11-13, 2016.
- Short course on **Innovation to deployment: roadmap and case studies** by **Dr Vikram Rao** and **Dr Raghubir Gupta**, RTI International, Nov 11 – 13, 2016.
- Short course on **Basics of space mission** by **Prof Ashok Joshi**, IIT Bombay, Nov 11-13, 2016.
- Short course on **Geopolitics of change: transitions in 21st century** by **Dr Olivier Lavinal**, Globe SAS, Dec 30, 2016 & Jan 5, 2017.
- Short course on **Systemic approach in satellite photogrammetry** by **Dr Pradeep K Srivastava**, Jan 16-21, 2017.
- Short course on **Sleep, dreams and dream Interpretation** by **Prof Frederik Coolidge**, University of Colorado, Jan 20-22, 2017.
- Short course on **Issues in social cognition** by **Prof Lilavati Krishnan**, National Academy of Psychology, Mar 5-11, 2017.
- Short course on **Science, experience and social theory** by **Dr Sundar Sarukkai**, National Institute of Advanced Studies, Bangalore, Mar 11-12, 2017.
- Short course on **Sustainable groundwater Management with special emphasis on managed aquifer recharge** by **Prof Ratan Jain**, Gujarat Water Resources Development Corporation, Mar 10-11 & 17-18, 2017.
- Short course on **Evolutionary dynamics** by **Prof Supreet Saini**, IIT Bombay, Mar 18-19, 2017.
- Short course on **Writing** by **Prof Atul Singh**, University of California, Berkeley, Mar 24-26, 2017.

INVITED LECTURES

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

- **Lessons learned from the April 2015 Nepal earthquake: damage, recovery, and reconstruction** by **Prof Svetlana Brzev**, IITGN; **Prof Durgesh Rai**, IIT Kanpur; **Mr Vivek Rawal**, People in Centre, Ahmedabad; and **Mr Rajendra Desai**, National Centre for Peoples' Action in Disaster Preparedness, Ahmedabad, Apr 1, 2016.
- **Experimental research in earthquake engineering** by **Prof Durgesh Rai**, IIT Kanpur, Apr 2, 2016.
- **Seismic isolation in safety-related nuclear facilities** by **Prof Andrew Whittaker**, State University of New York (SUNY) Buffalo, Apr 4, 2016.
- **Membranes in biological assembly and organization: insights from reconstituted systems** by **Dr Senthil Arumugam**, Curie Institute, Paris, France, Apr 7, 2016.
- **Experiences in using geosynthetics in Gujarat and potential of its applications** by **Mr Vivek Kapadia**, Water Resource Department, Government of Gujarat, Apr 9, 2016.
- **Introduction on Archaeozoology** by **Prof P P Joglekar**, Deccan College, Pune, Apr 15, 2016.
- **Internal security management in India and threats like the Islamic state** by **Mr Vappala Balchandran**, former RAW Chief, Apr 18, 2016.
- **Beyond Meluhha: evidence for Harappans out of Greater Indus Valley** by **Dr Dennys Frenez**, University of Bologna, Apr 18, 2016.
- **A route to permanent valley polarization in monolayer MoS2** by **Dr Nirpendra Singh**, King Abdullah University of Science and Technology (KAUST), Apr 20, 2016.
- **Silicene: A functional material for future electronics?** by **Dr Udo Schwingenschlögl**, King Abdullah University of Science and Technology (KAUST), Apr 20, 2016.
- **Digital mobile plans of BBC on messaging platforms** by **Mr Trushar Barot**, British Broadcasting Corporation's (BBC) World Service Group, Apr 27, 2016.

- **Four lectures on random walk problem and Brownian motion** by **Prof Anupam Kundu**, ICTS, Bangalore, Apr 27-30, 2016.
- **Compact modeling of bipolar devices** by **Prof Anjan Chakravorty**, IIT Madras, May 9, 2016.
- **Interconnection between matter and life** by **Prof Ananta Kumar Giri**, Madras Institute of Development Studies, May 22, 2016.
- **Planning technology based startups** by **Mr Hemant Kumar**, IIIT Delhi, Jun 6, 2016.
- **On subadditivity of maximal shifts in the resolutions of graded algebras** by **Prof Hema Srinivasan**, University of Missouri, Columbia, USA, Jun 15, 2016.
- **Sampling linear extensions using promotion** by **Dr Arvind Ayyer**, Indian Institute of Science, Bangalore, Jun 20, 2016.
- **The technological Indian** by **Dr Ross K Bassett**, North Carolina State University, USA, Jun 29, 2016.
- **Black holes in String theory** by **Prof Gautam Mandal**, Tata Institute for Fundamental Research (TIFR), Jul 4, 2016.
- **Using Zotero (reference management software) for managing references- a hands-on session or beginners** by **Dr T S Kumbar**, Librarian, IIT Gandhinagar, Jul 11, 2016.
- **The use of polymeric materials in the chemical industry and current research challenges** by **Mr Pradip Khaladkar**, Head, Plastics, Elastomers and Composites Technology (PECT) at DuPont Engineering Technologies (DuET), United States, Jul 19, 2016.
- **My Story Session** by **Mr Faisal Farooqui**, Founder of Mouthshut.com, Jul 22, 2016.
- **Integration of research, education and outreach - a perspective of a materials scientist and engineer** by **Dr B L Ramakrishna**, Arizona State University, Jul 23, 2016.
- **Performance of free-space optical systems and some PHY-layer security issues** by **Dr Imran Shafique Ansari**, Jul 27, 2016.
- **Fundamentals of optical communication systems** by **Dr Imran Shafique Ansari**, Postdoctoral Research Associate (PRA), Texas A&M University at Qatar (TAMUQ), Jul 27, 2016.
- **Skilled reading in Indian writing system: case of Hindi/Devangari** by **Dr Anurag Rimzhim**, Assistant Professor at Central Connecticut State University, Aug 1, 2016.
- **Development of multifunctional lightweight Mg based alloys and their microstructural engineering to optimize the property profile for lightweight, bio-implant and aerospace applications** by **Dr Saurabh Nene**, IIT Bombay, Aug 3, 2016.
- **The capabilities of COMSOL Multiphysics® 5.2a and Application Builder** by **Garima Singh**, COMSOL, Aug 4, 2016.
- **Cell death** by **Dr Chandrima Shaha**, Director of National Institute of Immunology, New Delhi, Aug 5, 2016.
- **Computational biomedicine, leveraging the window of opportunity** by **Dr Tavpritesh Sethi**, Wellcome Trust/DBT India Alliance Fellow at the All India Institute of Medical Sciences, Aug 8, 2016.
- **Speeding innovations** by **Dr Vikram Rao**, Executive Director, Research Triangle Energy Consortium, Aug 9, 2016.
- **On aerospace systems engineering: the way forward?** by **Prof A Anilkumar**, Professor of the practice of Aerospace Engineering, Professor of the practice of Mechanical Engineering, Vanderbilt University, Tennessee, USA, Aug 9, 2016.
- **Defeating gender discrimination** by **Prof Madhu Purnima Kishwar**, Centre for the Study of Developing Societies, Aug 10, 2016.
- **Disruptive innovations and pitching for funding** by **Mr Shekhar Chandra**, YouLEAD, Aug 12, 2016.
- **A public lecture** by **Dr Arvind Panagariya**, Vice Chairman, NITI Aayog at IIM Ahmedabad, Aug 17, 2016.
- **Clean water using advanced materials: science, incubation and industry** by **Prof T Pradeep**, Institute Professor, Deepak Parekh Institute Chair Professor, IIT Madras, Aug 24, 2016.
- **Global stability analysis of spatially developing boundary layers** by **Ramesh Bhoraniya**, PhD candidate, Mechanical Engineering, IIT Gandhinagar, Aug 29, 2016.
- **Talk on Frantz Fanon and Mahatma Gandhi** by **Prof P C Kar**, Director of Center for Contemporary

Theory, Baroda, Aug 31, 2016.

- **Viscoelastic properties of colloidal particles in liquid crystals composites and liquid crystal anchoring transitions at interfaces** by **Siddharth Kulkarni**, PhD candidate, Department of Chemical Engineering, IIT Gandhinagar, Sep 5, 2016.
- **How Deep are the Roots of Indian Culture? An Archaeologist Inquires** by **Prof B B Lal**, Padma Bhushan, former Director General of the Archaeological Survey of India Sep 6, 2016.
- **Linking science to practice: tools to assess river status and guide rehabilitation to optimize river basin management** by **Prof Brierley**, Chair of Physical Geography, University of Auckland, New Zealand, Sep 8, 2016.
- **Innovative teaching for the global era** by **Prof Shungo Kawanishi**, Director of Institute of General Education, Sep 9, 2016.
- **Electrical conductivity and charge diffusion in hot QCD medium** by **Dr Sukanya Mitra**, postdoctoral fellow in Physics at IIT Gandhinagar, Sep 16, 2016
- **Generic dynamics on the Cantor space** by **Prof Dario Darji**, Professor of Mathematics, University of Louisville, Sep 16, 2016.
- **Band structure and electronic properties of semiconductors** by **Dr Avishek Saha**, Chemistry, University of Erlangen-Nuremberg, Sep 20, 2016.
- **Human race facing an inevitable apocalypse?** by **Dr Arnab Dutta**, Sep 21, 2016.
- **Regularity questions to elliptic partial differential equations** by **Mr Ram Baran Verma**, Oct 10, 2016.
- **Achieving excellence – lessons from music** by **Mr Rajiv Bhatt**, Ernst & Young, Oct 16, 2016.
- **Cold spray gas deposition of materials** by **Dr Antonello Astarita**, University of Naples, Oct 17, 2016.
- **String Theory and Gauge Gravity Correspondence** by **Prof Shiraz Minwalla**, TIFR Mumbai, Oct 19, 2016.
- **Quadratic forms: ancient to modern** by **Prof Sujatha Ramdorai**, University of British Columbia, Oct 20, 2016.
- **Quantum theory of consciousness** by **Prof Yeshwant Rao Waghmare**, National Academy of Sciences, Oct 21, 2016
- **Bias for action** by **Dr Ashish Nanda**, IIMA, Nov 9, 2016.
- **Exploring elementary particles** at LHC by **Prof Kerstin Borass**, CERN, LHC, Nov 10, 2016.
- **Introduction to machine learning and approximation theory and Local analysis using spectral data** by **Prof Hrushikesh Mhaskar**, California State University, Dec 22–23, 2016.
- **Application of aluminum alloys** by **Dr Kumar Jata**, Jata Materials Solutions, LLC, Dayton Ohio, Dec 29, 2016.
- **Leadership and literature, challenges of higher education and innovation in India education, building social sciences with human and artificial agents** by **Prof Shyam Sunder**, Yale School of Management, Jan 1-4, 2017.
- **Save the tiger and maybe also the Rudra Veena** by **Dr Kiran Seth**, founder of SPICMACAY, Jan 9, 2017.
- **An insight into spontaneously ordered and engineered ferroelectric domain pattern** by **Dr Amit Kumar**, Queen's University Belfast, UK, Jan 9, 2017.
- **Self-assembly of π-gelators on carbon allotrops** by **Prof A Ajayaghosh**, Director NIIST Trivandrum, Jan 10, 2017.
- **Junctions of two dimensional Dirac materials** by **Prof Krishnendu Sengupta**, Indian Association of Cultivation of Science, Jan 12, 2017.
- **Photonic integrated circuits** by **Dr T Srinivas**, IISc Bangalore, Jan 12, 2017.
- **Global opportunities for Indian institutes and entrepreneurs** by **Dr Gururaj "Desh" Deshpande**, Jan 13, 2017.
- **Women's movement in India** by **Dr Ela Ramesh Bhatt** from SEWA, Jan 17, 2017
- **Nashamukt Bharat** by **Medha Patkar**, Jan 23, 2017.
- **Advances in frame theory: optimal frames for erasers** by **Prof Ram N Mohapatra**, University of Central Florida, Feb 3, 2017.
- **Proteins therapeutics: present and future potential** by **Dr Sridevi Kambhampati**, Vice President, Intas Biopharma, Ahmedabad, Feb 7, 2017.
- **What prevents negative energy from violating causality?** by **Dr Aron Wall**, Institute of Advanced Study, Princeton, Feb 10, 2017.
- **Water, complexity and public policy** by **Prof R J Wasson**, Institute of Water Policy, National University of Singapore, Feb 28, 2017.
- **Solvable primitive extensions** by **Prof Chandan S Dalawat**, HRI Allahabad, Mar 3, 2017.
- **Action for India: scaling social impact by leveraging technology** by **Mr Sanjay Kadaveru**, Founder & President of Action For India (AFI), Mar 6, 2017.
- **Spacecraft attitude control and the fiber bundle structure of the gimbal-spacecraft system** by **Arjun Narayanan**, Scientist, ISRO, VSSC, Thiruvananthapuram, Mar 7, 2017.
- **Quantum chaos and stochastic webs in a quantum-mechanical kick system** by **Dr Martin Engel**, SAP SE, Germany, Mar 8, 2017
- **NSF-NHERI wall of wind experimental facility focusing on resilience of structures to hurricane multi-hazards** by **Prof Arindam Chowdhury**, Florida International University, Mar 14, 2017.
- **Use of radio pulsar data to understand basic physics** by **Dr Manjari Bagchi**, Institute of Mathematical Sciences, Chennai, Mar 15, 2017.
- **The changing position of the researcher and research participants: implications for the ethics of fieldwork** by **Dr Jyothsna Latha Belliappa**, Mar 15, 2017.
- **Micro/nano-engineering of material surfaces**

for tissue engineering and regenerative medicine by **Dr Ketul Popoat**, Colorado State University, USA, Mar 15, 2017.

- **Seismic behavior of SC wall piers under in-plane and out-of-plane loadings** by **Prof Andrew Whittaker**, University at Buffalo (UB), Mar 22, 2017.
- **India's naval contribution during WW I & II** by **Commodore Odakkal Johnson**, University of Mumbai, Mar 22, 2017.
- **Confession of an accidental entrepreneur** by **Dr Pravin Bhagwat**, Co-founder, Mojo Networks, Mar 27, 2017.

GIAN COURSES

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

- **Asynchronous and synchronous approaches to Network-on-chip (Noc) Architecture design** by **Prof Peter A Beerel**, University of Southern California and **Prof Virendra Singh**, IIT Bombay, Jun 7-18, 2016, hosted by Prof Joycee Mekie.
- **Black Hole information paradox** by **Prof Samir Mathur**, Ohio State University, Jun 27- Jul 8, 2016, hosted by Prof Sudipta Sarkar.
- **Fuel cell technology** by **Prof Gregory Jackson**, Colorado School of Mines, Dec 9, 2016, hosted by Prof Atul Bhargav.

INDIRA FOUNDATION LECTURES

Prof Rajmohan Gandhi, Research Professor at the Center for South Asian and Middle Eastern Studies, University of Illinois at Urbana-Champaign, USA, delivered two public lectures on the theme **Glimpses of Modern South Indian History** on Feb 7 & 9, 2017. This was the second in the series of Indira Foundation Lectures held annually at IITGN with an aim to present the latest research in various disciplines to a wider audience.

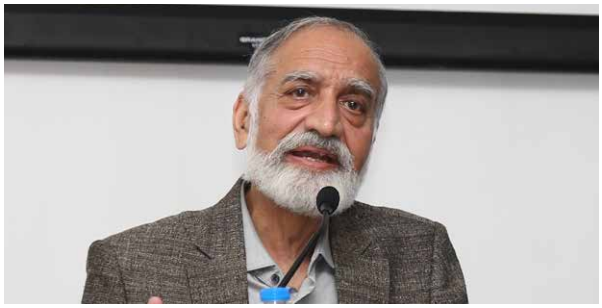
TEQIP-II

Technical Education Quality Improvement Program (TEQIP) at IITGN has completed three years with generous support from the Government of Gujarat and MHRD of Govt of India under the Technical Education Quality Improvement Programme, Phase-II. 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. More than 900 participant senrolledin several workshops, symposia, conclaves and courses this year. These activities covered advanced topics of engineering as well as interactive research methods courses/ workshops. A 1-month summer school was organized covering 15 fundamental undergraduate courses. It attracted more than 300 participants and about half of those were faculty members from the TEQIP supported colleges. Several short courses on advanced topics have been organized such as Geosynthesis Applications in Infrastructure Development, Teaching Methodologies for Engineering Mathematics, Advanced Digital Signal Processing, Geometry, Robotics and Control etc. Workshops were also organized to target students and young faculty members such as a workshop on writing academic publications, professional skill development workshop for students, microcontrollers and embedded systems designing etc.

VISITORS

- **Shri N R Narayana Murthy**, co-founder of Infosys and a great supporter of IITGN, visited the institute on Oct 25, 2016 and held an interactive session with students. This is Mr Murthy's third visit to the institute.

- **Dr R A Mashelkar**, former Director General CSIR, the Founder Chairman of Board of Governor of IITGN delivered the Nani Palkhivala Lecture titled **From incremental to disruptive innovation: the vision and strategy** on Sep 17, 2016.



- **Shri Kiran Karnik**, ex-president of NASSCOM and eminent administrator visited IITGN on Oct 27, 2016 and delivered the Nani Palkhivala Memorial lecture titled **Of umbrellas and satellites: linking the dots to innovate**. Nani A Palkhivala Memorial Trust, Mumbai sponsored the lecture.

- **Shri Ashok K Balyan**, CEO, Reliance Oil & Gas, and **Shri R K Tyagi**, former Chairman, HAL, visited IITGN on Nov 5, 2016 to discuss various possibilities.

- **Shri Amitabh Malik**, Director, Amitiv, DRDO visited IITGN on Oct 22, 2016 for Amalthea, Annual Technical Summit and delivered a talk on **Energy & Environment Concerns: Impact on Nation Security**.

- IIT Gandhinagar hosted **Lt Gen Subrata Saha**, Deputy Chief of Army Staff, on Jul 22, 2016, for an army-academia interactive session. The aim of the session was to promote and nurture a partnership between the armed forces and IITGN in areas of mutual interest. Lt General Saha and other officers shared with students and faculty numerous research problems that are of value to the army.

- **Shri A S Kiran Kumar**, Chairman, Space Commission and ISRO delivered the 5th Roddam Narasimha Lecture titled **Space technology – contribution to India's development** on Aug 10, 2016.

- **Dr V K Saraswat**, Managing Director of Niti Aayog, an accomplished researcher visited IITGN on Oct 22, 2016 for the inauguration of **Amalthea**, Annual Technical Summit, and delivered a talk on **Technology for Defense, Aerospace and Internal Security**.

- **Dr S D Balaji**, Director, Aeronautical Development Agency (ADA), an outstanding scientist visited IITGN on Oct 22, 2016 for Amalthea, Annual Technical Summit and delivered a talk on **Design and development Challenges in the LCA (Tejas) Programme**.

- **Shri R Mukandan**, Managing Director, Tata Chemicals, visited IITGN on Oct 13, 2016 for discussions on building a relationship between the two organizations.

DISTINGUISHED HONORARY PROFESSORS

PROF SURENDRA PRASAD

Prof Surendra Prasad has served IIT Delhi for more than four decades, having held several academic and administrative positions 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 V S RAJU

Prof V S Raju, former director of IIT Delhi (1995-2000) obtained a bachelor's degree in engineering from Andhra University, a master's degree from IISc Bangalore and a doctorate from the Karlsruhe University of Technology, Germany. During his academic career of 42 years he was also a part-time member ofthe Telecom Regulatory Authority of India (TRAI) and worked in various capacities at IIT Madras. He was also the chairman of the Naval Research Board, DRDO and member of several boards and committees dealing with technical education and research in the country. He is a Fellow of the Indian National Academy of Engineering and was its honorary secretary. The Federal Republic of Germany honored him with the Commander's Cross, the highest award given to a foreigner.

PROF S P SUKHATME

Prof Suhas P Sukhatme is a professor emeritus, IIT Bombay, received his ScD (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 the 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".

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 (E I duPont Co) (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, currently associated with IIT Delhi,

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 SVETLANA BRZEV

Prof Svetlana Brzev is professor at British Columbia Institute of Technology, Vancouver, Canada. She served as director and vice president of Earthquake Engineering Research Institute, Oakland, California, USA from 2001-2003. She has served as member of National Science Foundation (NSF), NEES programme; reviewer of NSF Partnerships for International Research and Education and reviewer of NSERC research proposals. As a seismic engineering consultant to the World Bank and to the Government of Maharashtra, India, she prepared a management strategy and technical guidelines for repair and retrofitting/reconstruction of over 200,000 masonry residences damaged in the Sep 30, 1993 Latur earthquake in India.

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 receipeint of the Padma Shri Award in 2017 for Education and Literature.

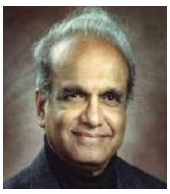
DR PRAVINRAY D GANDHI

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 is currently 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 IITBombay. 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.

DR K CHELVAKUMAR

Dr K Chelvakumar is the president of EPIR Technologies, Inc, Bolingbrook, IL. He has also served on various senior administrative positions in Saint Louise Regional Hospital, Gilroy, CA, Caritas Business Services, Redwood City, CA, St Francis Medical Centre, CA, ReproNet, Los Angeles, CA. He was the faculty in California State University, Los Angeles and Fullerton campuses, CA, Carnegie Mellon University and Peradeniya University, Sri Lanka.

PROF ACHAL MEHRA

Prof Achal Mehra holds a PhD in journalism from Southern Illinois University, Carbondale (1985). He completed his BTech in mechanical engineering from IIT Kanpur (1980). He is the editor and publisher of Little India Magazine, the largest overseas Indian publication in the world. In the past three years,

the magazine has won 20 Ippie awards from the Independent Press Association, six New American Media Awards and nominations for the Utne-IPA Award and the GLAAD Media Awards. He is a Fellow of the Royal Society for the Arts, UK.

PROF ASHOK MITTAL

Prof Ashok Mittal received his BTech (Honors) and MTech from IIT Kharagpur, MS and PhD from Case Western Reserve University. He has been associated with IIT Kanpur and the Kellogg School of Management, Northwestern University, USA. Prof Mittal is the Fellow of the Institution of Engineers, India, member of Operations Research Society of USA, president of Operational Research Society of India and Life member ISTE.

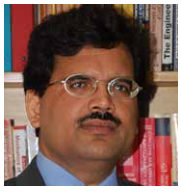
PROF S L NARAYANAMURTHY

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.

DR SANDEEP PANDEY

Dr Sandeep Pandey earned his PhD degree in mechanical engineering from University of California, Berkeley in 1992 and is currently a social activist based in Lucknow. He works in the areas of right to education, work, food, information, human rights, empowerment of marginalized communities, grassroots democracy, anticorruption movements, land reforms, communal harmony, nuclear disarmament and peace, peace and friendship between India and Pakistan, corporate accountability and people's politics. He is deeply involved in building a genuine grassroots political alternative to the mainstream politics dominated by corruption.

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 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 A RAMANATHAN

Prof A Ramanathan holds a PhD degree in economics from Mumbai University. He is a senior professor and a former head of the Department of Humanities and Social Sciences of IIT Bombay. He specializes in managerial economics, applied econometrics and social cost-benefit analysis.

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 a visiting faculty of Computer Science and Engineering at IIIT Delhi. He holds dual responsibilities of Dean of Academic Affairs and Dean of External Relations at IIIT Delhi. He was the Dean of Academic Affairs at IIT Kanpur from 2011 - 2014. He is passionate about improving higher education and runs a popular blog on the topic. 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 SHILADITYA SENGUPTA

Dr Shiladitya Sengupta is currently the assistant professor of Medicine and Health Sciences and Technology at Harvard Medical School Brigham & Women's Hospital. Dr Sengupta is the recipient of DoD Breast Cancer Research Program Collaborative Innovators Award, the Mary Kay Ash Foundation Career Award, the DoD era of Hope Scholar Award, the Indus Technovator award and the Coulter Foundation Young Investigator Award in Bioengineering.

PROF KOSHY THARAKAN

Prof Koshy Tharakan is professor in the Department of Philosophy, Goa University. He received his PhD degree from University of Hyderabad in philosophy of social science.

DR HARRY YUKLEA

Dr Harry Yuklea is a research professor at Technion, Israel; Visiting Professor at ORT University Uruguay and San Andres University Argentina; and an Independent Management Consultant. He is the Committee Member, Prime Minister of Israel Prize for Entrepreneurship and Innovation (2010-present); and Advisory Board Member, iCreate, India (2012 – to date). He is the recipient of the Rosenfeld Prize for Research in Innovation and Entrepreneurial International Finance, 2004.

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.

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.

INFRASTRUCTURE AND FACILITIES

PERMANENT CAMPUS DEVELOPMENT

All the buildings of academic, hostel and housing parcels under Phase-1A have been completed. Infrastructure and external services such as road network, electricity, water supply, STP are also functioning. The horticulture work in the campus has also been completed simultaneously. The temporary campus at VGEC, Chandkheda, Ahmedabad has completely been vacated on Jan 13, 2017.

The campus has an ambience that is conducive to academic endeavours and is situated in a neighbourhood that is well connected and rapidly developing. The GIFT City near the permanent campus site is ramping up its operations, the road and services network near the campus site have been significantly upgraded, other national institutes are coming up near the campus, and several defense establishments and a large forest reserve area are situated in the immediate vicinity of the campus.

The Academic Complex of IIT Gandhinagar, Palaj campus has won the first prize of **Housing and Urban Development Corporation Limited (HUDCO)** Design Award 2016 in the category of **Green Buildings** for its green initiatives including passive shading, orientation design, extensive use of natural light, use of fly ash bricks, cavity walls, solar PV and saving the existing trees, etc. The prize has been awarded jointly with our architectural consultant M/s Mitimitra Consultants. Previously, the Institute had bagged first prize of **HUDCO Design Awards 2015** under the category of **Cost Effective Rural/Urban Housing including Disaster Resistant Housing** for staff housing and student hostel. The Academic Complex also bagged the **AESA Award 2017**: Outside Pune District. AESA is a professional organisation of Architects Engineers and Surveyors and has a long history in Pune.

Planning for the next phase of constructions are on in full swing and construction activity will likely start in the coming months.

An indoor sports facility and sports grounds designed by M/S Mitimitra are being developed and are expected to be completed in next 2 years. The sports facility is currently planned to have an olympic-size swimming

pool and a smaller amateur pool, a table-tennis hall, 3 squash courts, 6 badminton courts, an indoor basketball court, an indoor volleyball court, a gym and a yoga hall. These are in addition to external courts and grounds that are being developed.

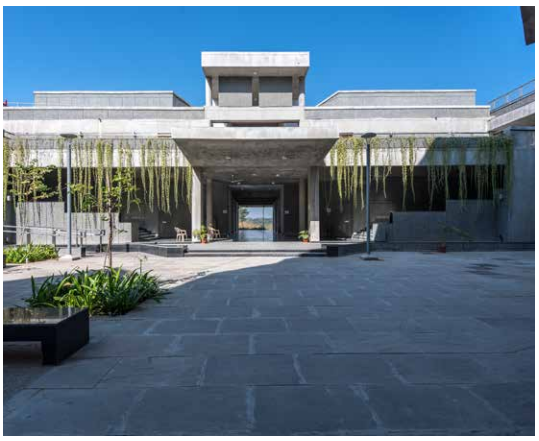
The Central Arcade designed by M/S Mitimitra will be housing various amenities for the students and staff. This place will be the hub of all non-academic activities of the institute and is expected to be a very active, vibrant and popular joint for all. It will have various food joints, restaurants and various recreation facilities too.

The detailed design and estimate by M/S NMA of the proposed students' hostels under Phase 1 and Institute Guesthouse are concluded and the tendering process will start shortly. The work for Central Vista and Interim Car Parking is progressing well and is expected to be completed in coming few months.

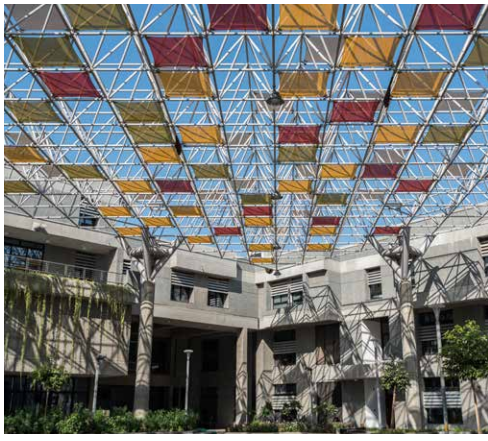
Installation work of signage and wayfinding for academic and the external parcel is in progress. The design and drawings of signage for hostel and housing parcels are also under preparation and work is expected to be taken up soon.

The work of installation of chairs in both 520 capacity and 300 capacity auditorium is completed. The institute has received a major donation from Jasubhai Foundation, Mumbai to name the large auditorium as "**Jasubhai Memorial Auditorium**". The naming ceremony was held on Feb 10, 2017.

www.iitgn.ac.in/new-campus






LABORATORY FACILITIES

BIOLOGICAL ENGINEERING

Biological Engineering laboratory facility is equipped with virtually all the required instrumentation for carrying out molecular and chemical biology related experiments. Some of the equipment include, shaker incubators, refrigerated centrifuges, ultracentrifuge, gradient thermocycler, water purifiers, laminar flow hoods, ultra-low and low-temperature freezers, real-time thermocycler, nano-drop UV-vis spectrophotometer and fast protein liquid chromatography (FPLC) system with various columns. In addition, a crystallization incubator and stereo-microscope are available to support protein crystallization experiments. For synthesis, purification and characterization of peptides a microwave-based peptide synthesizer along with an organic synthesis module, preparative cum analytical HPLC, and multimode microplate reader are also available. The cell culture facility is equipped with a biosafety cabinet, CO_2 incubator, high-speed centrifuge, automated cell counter, UV-cross linker, liquid N_2 cryo-preserver and an inverted fluorescence microscope to support research activities related to the mammalian cell culture. A multimode microplate reader with alpha-screen assay capabilities supports high throughput assay applications.

Multilabel plate reader was procured and installed in Biomedical Engineering Wet Lab. This plate reader can measure absorbance, fluorescence and luminescence depend on samples like proteins, cells etc.

CHEMICAL ENGINEERING

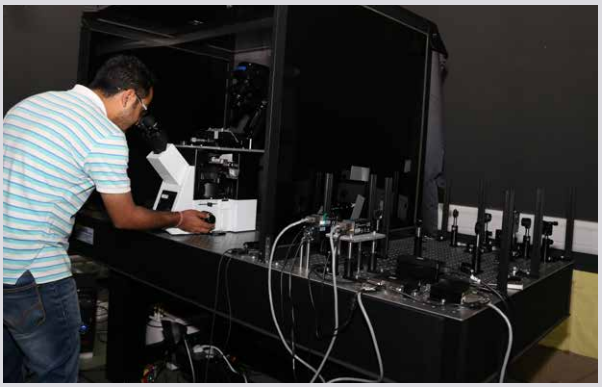
The laboratory facility in the Chemical Engineering discipline has an extensive range of modern experimental setups. Fluid mechanics experimental set-ups include Reynolds experiment apparatus, Bernoulli's apparatus, friction factor through different pipes, equivalent length of pipe fittings, orifice and venturimeter, and centrifugal pump characteristics. Unit operations/mass transfer operations experimental set ups include ballmill, 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 non-interacting 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.

DRY PROCESS TECHNOLOGY (DRYPROTECH) LABORATORY

New humidity controlled glove box and Faraday cup with electrostatic charge measurement facility have been installed in the Dry Process Technology (DryProTech) Lab. The facility will be used to conduct experiments under controlled humidity (25% to 90% RH) and temperature(up to 65°C). Electrostatic charge of any materials can be measured using the Faraday cup and electrostatic charge measurement instrument.

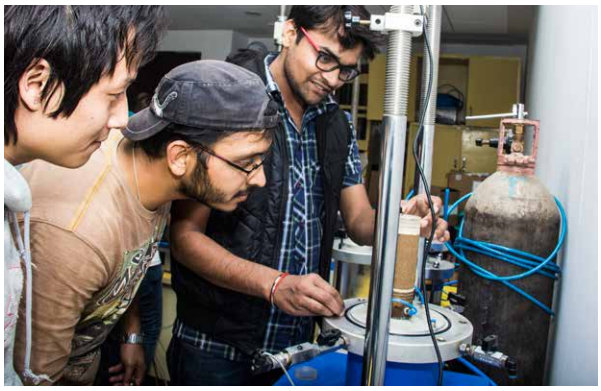
WASTE WATER TREATMENT LABORATORY

The WasteWater Treatment Laboratory has **COD measurement** instrument that uses closed reflux method to determine chemical oxygen demand (COD) of waste water samples. The **Total Kjeldal nitrogen (TKN) measurement** instrument has an automated scrubber and distillation system attached to a heating digester to prevent any leakage of harmful gases. The **nitrous and nitric oxide sensors** are used to quantify dissolved nitrous and nitric oxide formed during aerobic treatment of waste water. The **pH, DO, conductivity and TDS electrodes** give accurate values of the related parameters in waste water samples. The **SIMBA** software is used to accurately simulate large-scale wastewater treatment plants.



CHEMISTRY

The Chemistry discipline moved into new state-of-the-art facilities in the new campus of IITGN at Palaj. The research space of nearly 250 m^2 is used for a variety of activities including undergraduate and postgraduate teaching as well as doctoral research. Fume hoods equipped with Schlenk lines cater to a large segment of wet chemical synthetic work. These include a 500MHz Ascend FT NMR (Bruker), a Synapt G2S ESI-QToF mass spectrometer (Waters) and cyclic voltameter (CH Instruments). Further circular dichroism (CD) spectrometer (JASCO), 3 Flex-BET surface area analyzer (Micromeritics, USA), TGA-DSc and Gas Chromatography are also used by researchers in Chemistry. Several research facilities including digital polarimeter (Anton-Paar), an FTIR spectrophotometer (Thermo Scientific), digital melting point apparatus (MR-VIS), a photochemical apparatus (Luzchem), UV- Vis instruments (Shimadzu and Analytik Jena), a spectrofluorimeter (Horiba-JobinYvon) are used for teaching of postgraduate students. Over the past year the discipline has acquired several high-end research equipments. These include a preparatory and analytical scale HPLC (Shimadzu) and MALDI-TOF spectrometer. These have significantly enhanced the discipline's capabilities to work in interdisciplinary areas covering biological chemistry and nanoscience. Metrohm Autolab 204 potentiostat and Avantes spectro-electro-chemistry were installed in Nov 2017.



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; viscocity of tar; effloresence of brick; water absorption of wood; viscocity 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 & strain controlled, hydraulic cum pneumatic operation) for liquefaction potential and dynamic properties of soil (high strain amplitude test; 10^{-4}% to 10^{-2}%), bender element system for shear modulus of soil (low strain amplitude test; 10^{-6}% to 10^{-4}%), 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, kotest and stress path test. 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 to 300 MPa), conventional tensiometer, sensor based tensiometer, filter paper testing setup. 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 sieveshaker, 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 anddigital LCD microscopes. The field testing laboratory has plate load test of 300kN 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 & 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 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 staions, 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. tDCS mechanisms are considered to result from the ability of very weak DC currents to safely induce reversible changes in cortical plasticity. The induction of lasting changes in cortical excitability can, under some conditions, reversibly modify behavior and interact with normal learning.

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 400kHz 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

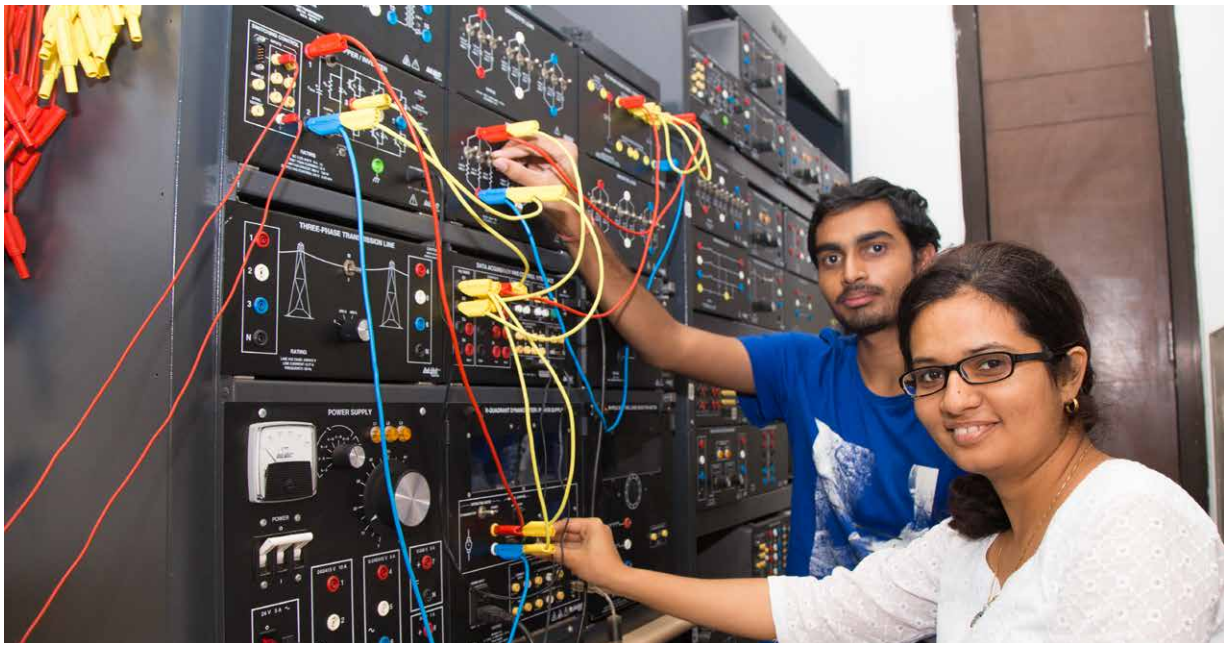
This is the software-programming platform, namely, Vizard from WorldViz Inc. Vizard is a high-level graphics toolkit for the development of high-performance graphics applications, including Virtual Reality (VR), scientific visualization, games, and flight simulation. The VR platform provides controlled 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-developed 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.

BEHAVIORAL 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 PCs 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 pencil tests and questionnaires that require an environment free of external interference.



ELECTRICAL ENGINEERING

The Electrical Engineering discipline currently offers six 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 equipment such as 100 MHz dual-channel digital storage oscilloscopes (Tektronix), dual-channel function generators (Agilent), 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. The VLSI Design lab facility has been now enhanced with almost all the necessary software and a considerable amount of hardware support.

MICROELECTRONICS LABORATORY

The Microelectronics laboratory is primarily used for analog and digital VLSI design and semiconductor device related research and teaching post-graduate laboratory courses in microelectronics. The institute has signed NDAs with IMEC Belgium for UMC, TSMC and with Semiconductor Laboratory (SCL), India for design library support and IC fabrication. Chips have been fabricated in UMC 180nm and in UMC 65nm. The laboratory is equipped with multi-user licenses for Cadence, Mentor Graphics, Synopsys, Xilinx ISE, tools. The lab is equipped with several FPGA boards (Basys, Nexus, Spartan, Kintex-7); along with about 30 computers and a server machine that hosts the tools.

REAL-TIME POWER ENGINEERING SIMULATION (RT- PES) TEST-BED

The Real-time Power Engineering Simulation (RT- PES) test-bed is a fully digital real-time simulation platform with customized modular hardware prototypes. It has been set-up to study the behavior of the electrical system as a "virtual" prototype. The actual computer-controlled HIL and RCP capability of RTPES test-bed provide the opportunity to test the performance of the various equipment/controllers before introducing them into the real environment.

POWER SYSTEMS AND SMART GRID LABORATORY

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 hardware and firmware of Lab-Volt for hardware-in-the-loop (HIL) and rapid control prototype (RCP) studies. This lab 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 (System A shown below), (ii) SwasTi walking stick to prevent Freezing of Gait (FOG) in Parkinson Disease patients (System B), and (iii) One Touch Doctor system for noninvasive measurement of various physiological

parameters of human body (System C). In addition, this research lab is equipped with split-belt treadmill platform, 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 (System D, E, F and G) and autism intervention (System H).

COMPUTER VISION

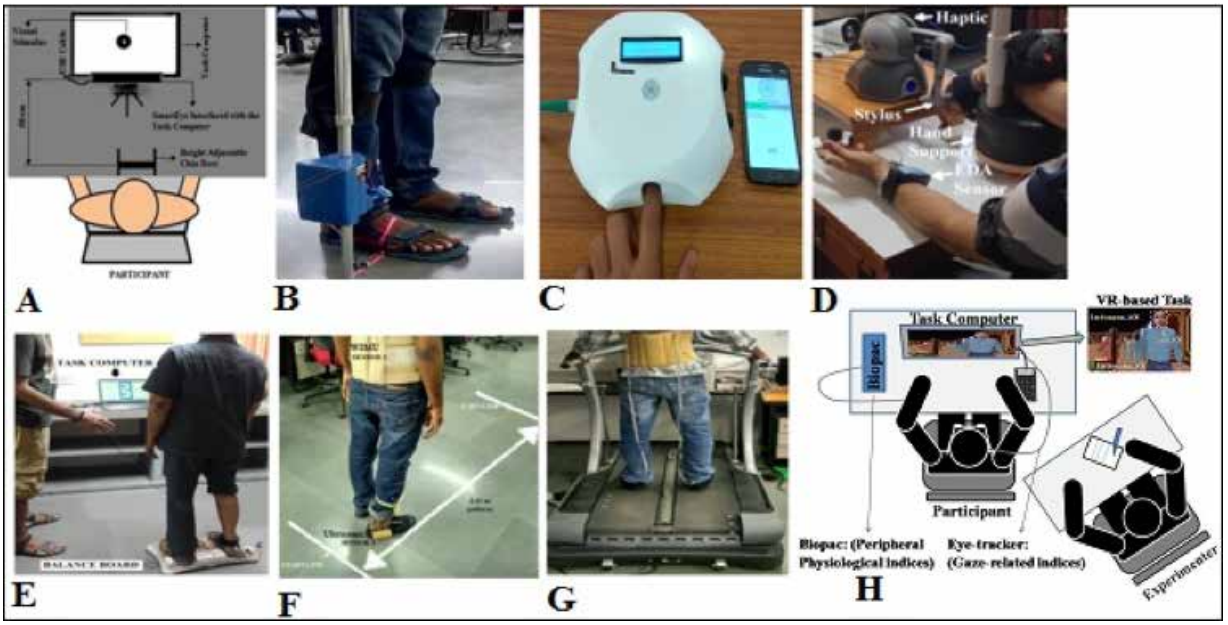
The lab houses a Faro Focus 3Dx330 laser scanner which is used to scan large structures. The potential applications include digital heritage, structural analysis, and geometric processing. The lab also has coded aperture cameras fabricated with the help of ISRO-SAC for refocusing and extended depth of 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. Apart from the laser scanner, there is a workstation with software such as Faro Scene, MeshLab, and Geomagic Studio.

PHOTONIC SENSORS LABORATORY

The focus of the Photonic Sensors Laboratory is on industrial and medical applications of near-infrared and mid-infrared tunable diode laser spectroscopy (TDLS). TDLS uses a narrow line width semiconductor laser for accurate recovery of the rotational-vibrational absorption lines of gases to extract the mole fraction, pressure and temperature of the gas. Measurements can be done in real-time with fast embedded electronics that allows compact, portable systems to be developed for use in industrial applications as well as in cross-disciplinary research that may involve field measurements. The lab is equipped with a wide array of semiconductor lasers, photodetectors, test & measurement equipment. The following semiconductor lasers are currently available - a 1392 nm edge-emitting laser diode (Eblana Photonics), a multi-pass Herriot gas cell, a 100 mWmid-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 photodiodes that operate in visible, near-infrared and mid-infrared spectral regions. 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 behavior 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, bio-inspired sustainable energy harvesting and storage techniques. The lab relies heavily on the computational resources at the institute and uses home-brew codes as well as commercial software tools.



MATERIALS SCIENCE AND ENGINEERING

Materials Science and Engineering at IITGN has access to several state-of-the-art equipment and facilities. These include the ambient scanning probe microscope (Multimode-8-AM, Bruker), the x-ray diffraction system (D8 Discover, Bruker), and friction stir welding equipment. The thin film lab carries out film deposition using an RF magnetron sputtering unit (Model: Table Top Sputter coater MM–237, Supplier: M/S Milman Thin Film Systems Pvt Ltd) with facility for co-deposition from two targets. The laboratory is also equipped with a four-point probe measurement system to measure the resistivity of the semiconductor thin films. The metallography lab has facility for sample sectioning, mounting, grinding-polishing, etching, observation under optical microscope and hardness testing. The materials characterization lab evaluates the microstructural (SEM, AFM), electrical (IV Probe) thermal (TGA, DSC, STA), surface (contact angle, AFM, profilometer), optical (UV-vis, Photoluminescence), structural (XRD) and compositional properties (AAS) of materials. In addition to analytical techniques, we have furnaces (up to 1600oC) for thermal processing, and planetary ball mills for mechanical processing. The differential thermal/ the rmogravimetric analyser (DTA/TGA) measures the thermal properties of materials. Structural and surface properties of materials are measured by contact angle meter and surface area analyzer. UV-Vis spectrophotometer and photoluminescence measurement systems are used to evaluate the optical properties of materials. The Wet Lab and liposome preparation facility houses the instruments necessary for preparing liposomes and protein-lipid complexes. The instruments include ultrasonic processor, analytical weighing balance, dessicator with vacuum pump, centrifuge, incubator and autoclave.

FRICTION STIR WELDING

Friction stir welding (FSW) is a solid state joining process, where a rotating tool forms the weld due to severe plastic deformation. The tool rotating at high rotational speed generates heat due to friction at the tool-workpiece contact surface. The rotating tool moves along the weld line and forms a joint by deforming the softened plasticized material. Lack of fusion during FSW avoids issues such as solidification cracks, porosity, distortion and mechanical properties. The FSW machine at IIT Gandhinagar can join various materials such as aluminium, copper, magnesium, steels etc in solid state. The machine has a 12.5HP electrical motor for tool rotation and can generate enough torque to join hard materials. The motor can be rotated upto 3000rpm and can measure various process parameters during friction stir welding such as tool rotation speed, welding speed, plunge force, feed force, torque, and power. A part from the main machine, we have developed various tools to join different materials including polymers, and fixtures to join work piece materials of different sizes.

MECHANICAL ENGINEERING

The Mechanical Systems Design Laboratory supports the execution of structured experiments on the behavior 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 centre, 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 under-graduate 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 teaching laboratory is equipped with state-of-the-art equipment and facilities for conducting experiments and demonstrations at the undergraduate and postgraduate level. Over the past one year, it has been significantly expanded to conduct advanced experiments at the MSc level. The MSc physics laboratory consists of eleven experiments covering topics in optics, solid-state physics, spectroscopy, modern physics and electronics. The procured state-of-the-art equipment include apparatus to study the Hall effect and measurement of energy band gap in semiconductors, the study of interaction of an external magnetic field with an electron spin and measurement of gyromagnetic ratio by electron-spin resonance, the study of the interaction between the magnetic field and the magnetic di-pole moment associated with the orbital angular momentum of electron by Zeeman effect, interferometers like Fabry-Perot and Mach-Zehender which are used extensively in measurement of extremely small changes in wavelength, distances and for measuring refractive indices of various substances, experiments on lasers include the study of intensity profile of a laser beam and experiments on optical waveguides. Keeping in mind the significant role that electronic instrumentation plays in experimental physics, the laboratory also offers various introductory experiments on electronic components like FET, MOSFET, logic gates, operational amplifiers, signal modulation (AM, FM, PWM). Other high-end equipment that are in the pipeline include X-ray diffractometer for elemental analysis, crystal growth and crystal density measurements. Apart from standard experiments students are encouraged to participate in proposing new experiments as part of the standard curriculum. The physics laboratory houses an astronomical telescope to encourage students to develop interest in this area. It has a reflector with an eight-inch mirror of focal length 1200 mm on a Dobsonian mount and fitted with lunar as well as solar filters. Many students use it regularly to observe planets, star clusters and other cosmic objects. We plan to expand physics lab to carry out more sophisticated experiments in the near future.

DOUBLE BARRIER LANGMUIR-BLODGETT DEPOSITION TROUGH

A new facility (Double Barrier Langmuir-Blodgett trough) has been procured and installed and is operational since March 2017 at IITGN. This equipment is used to measure surface pressure vs area isotherms to determine phase transitions in monolayers at the air-water interface. Additionally, layer-by-layer deposition of the material is also possible with precise control. The sub-phase pH, and temperature (0 to 50 Celsius) can be varied to deposit materials with desired growth conditions. This facility can be used to identify which types of structures and phases are formed and what parameters characterize the order, the influence of surface coverage or temperature on the structural order of the thin films, the nature of phase transitions involved in the process, and the effect that the various degrees of freedom and different constituents of the material have on the final growth and structure. Such studies are crucial in understanding the driving forces of self-assembly, the growth kinetics and different growth regimes and identification of the internal and the external control parameters of self-assembly of thin films.

LIBRARY

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

LIBRARY COLLECTION

PRINT AND AUDIO VISUAL COLLECTION

The Library's collection of research monographs, textbooks, reference books, conference proceedings, CDs, VCDs, DVDs, etc, is presented below.

New collection added as on March 31, 2017

Type of Collection	Additions in 2016-17	Total Collection
Books	1295	24626
Children books	45	931
Hindi collection	10	431
CDs	26	930
VCD/DVDs	4	552
Technical reports	0	456
Theses	97	203
Total	**1477**	**28129**

ONLINE PROCUREMENT OF BOOKS

Books that are required urgently are procured from online bookstores. During this period, library procured 39 books through different online bookstores.

COLLECTION OF BOOKS IN HINDI

The library has been adding Hindi books on subjects such as history, literature, science & technology. Ten new books were added this year, taking the collection to 431 books.

CHILDREN'S BOOK COLLECTION

The library has started to develop a collection of popular books specifically for the young readers on campus. The library added 45 new titles during this year taking the total to 931 books.

PRINT JOURNALS AND MAGAZINES

The Library subscribes to many scholarly journals, magazines and newspapers. During the year the library renewed the subscription to 132 journal titles and discontinued 7 journals. This is in addition to a large number (over 12000) of scholarly e-journals subscribed.

DIGITAL RESOURCES

The library has been subscribing to several major e-resources both in bibliographic and full- text forms. During the year, over 60 e-resources were subscribed, out of which 37 were ordered and paid by IITGN Library. Of the remaining 20 resources, 14 were ordered and paid by E-Shodh Sindhu (a national consortium for higher education electronic resources) and nine new resources which were not subscribed by us previously but were offered by the same consortium. The names of these nine new resources are given below:

- ASTM Digital Library- Standards & Journal collection
- Emerald Insights Enhanced

- ISID: Bibliographic database for HSS
- JGate+JCCC- a Bibliographic database
- Oxford University Press Journals
- ProQuest ABI/INFORM Complete
- South Asia Archive
- Web of Science (limited edition)
- World eBook Library

CIRCULATION (LENDING) AND INFORMATION SERVICES

CIRCULATION SERVICE

Every registered user is entitled to borrow reading materials physically available as a part of library collection. The total number of documents issued to our users during the year was 26141.

INFORMATION/REFERENCE SERVICES

Library has been actively promoting reference and information services (in person or over the campus network) to its user community. In 2016-17, library introduced the following services.

- New additions of books with links to publisher website, display of book covers
- QR Codes applied for various services and documents
- Institute research publications and conference presentations weekly alert
- Book of the Week
- Author of the Week
- Discipline-wise listing of e-resources
- Created MTech and PhD dissertations catalogue
- Virtual reference collection with link to citation styles, e-print archives
- Promoting use of reference management software & citation styles and others
- Created and updated over 35+ bibliographies on different subjects including reference sources
- Catalogue of Hindi children books and audio-visual resources
- Virtual exhibition of books and other resources added to library collection

LIBRARY ANNUAL USER SURVEY

The library strives to improve upon the existing services by taking feedback from its user community. A structured online survey seeking feedback on different aspects of library resources and services was conducted for the outgoing batch of BTech and MA, MSc and MTech students. The results were analysed and appropriate measures were taken.

RESOURCE SHARING

The library has tie-ups with other major libraries in Ahmedabad and Gandhinagar (viz IIMA, IPR, PRL, NID, DA-IICT) as well with IITs, NITs, IIMs, IISERs, CSIR Libraries and DELNET member libraries in the country.

INTER-LIBRARY LOAN

Through the Inter-library loan service library borrowed 97 books as compared to 136 books in the previous year and loaned 35 books to other libraries during this period.

DOCUMENT DELIVERY SERVICE

The document delivery service is one the popular services library offers. The library receives number of requests from the faculty and students for getting the research papers from other libraries. To meet these requests, library received 5373 articles (as compared to 8401 in the previous year) from other libraries and delivered 627 papers to other libraries. To meet the increasing demand from the users, library has opened a deposit account with National Institute of Science Communication and Information Resources (NISCAIR) of CSIR and has been regularly availing the services of DELNET. Efforts are being made to have an arrangement with some of the prominent libraries and commercial vendors abroad to get the research papers not easily available in the country.

MEMBERSHIPS

ORGANIZATIONAL MEMBERSHIP

To avail the benefits of various services, the membership of E-Shodh Sindhu: Consortium for Higher Education Electronics Resources and Development Library Network (DELNET) along with ten other library and professional bodies were renewed. In addition, library for the first time enrolled as Institutional Member of American Concrete Institute (ACI), USA and Ahmedabad Library Network (ADINET).

E-SHODH SINDHU CONSORTIUM (MHRD) MEMBERSHIP

E-Shodh Sindhu is a newly-formed (by MHRD) national consortium with an objective to provide access to quality electronic resources including full-text, bibliographic and statistical databases to academic institutions at lower rates of subscription. The library continues to be a core member of this consortium and actively contributed in all meetings held related to subscription to e-resources and had been getting support for accessing more than 23 e-resources.

LIBRARY MEMBERSHIPS

Keeping in view the institute's effort to build a strong relationship and interactions with individuals and Institutions beyond IITGN faculty, students and staff, library has introduced following membership schemes which enable these members to use library resources and services against prescribed fee/free. The following table presents the number of members enrolled under each category.

ORGANIZATIONAL MEMBERSHIPS

Type of membership	New members in 2016-17	Total registered members
Academic and Educational Institutional	2	6
Corporate	0	4
Individual	3	14
IITGN Family	17	38
Alumni	21	22
Total	**43**	**84**

In all, 43 members enrolled making a total of 84 members since the introduction of these memberships. This is in addition to the number of walk-in-users who come to use the library for a short period.

LIBRARY ORIENTATION AND TRAINING

LIBRARY ORIENTATION FOR FRESHERS

The following programs were organized during the year for the new students to create awareness about the resources and services offered by the library.

- *Know Your Library* for the new batch of PG and PhD students was held on Jul 27, 2016 introducing entire range of resources and services offered by the library.
- "*What is plagiarism & how avoid it*" was held on Jul 28, 2016. This was open for all students.
- *Know Your Library* for a fresh batch of BTech students (as part of Foundation Program) was organized on Aug 17, 2016. As a part of these sessions, students were introduced to library resources, services, use policies, accessing e-resources, etc. They were also given a tour of the library.
- *Know Your Library* for new PhD students was held on Dec 27, 2016.

TRAINING SESSIONS FOR STUDENTS

The following training programs were arranged for the benefit of students during the year:

- **Zotero:** Using Zotero (Reference Management Software) for managing references
- **Scopus:** "Scopus: a tool for doing research"
- **SciFinder:** "SciFinder database- an essential tool for our student community"
- **Web of Science & End Note** "Providing a better research tool"
- **Mendeley:** "Mendeley: Managing your references efficiently"
- **Scholarly Publishing:** Trends in scholarly publishing and publishing with Springer Nature a talk by Dr Harry Bloom, Vice President of Springer Nature

LIBRARY SERVICES FOR TEQIP PARTICIPANTS

Library has been actively involved in extending the services to all the participants who come to attend different programs organized under TEQIP at the Institute. As a part of this continued involvement, two sessions on Library Resources & Services @ IITGN during this summer Jun 8 & 15, 2016.

INFRASTRUCTURE

PHYSICAL INFRASTRUCTURE

The library continues to add new infrastructure to attract and facilitate the usage of its resources. This year the library added a few wooden storage cabinets for staff, added extra reading tables and chairs, had a glass partition and hanging lamps installed. A few kickstands, display boards, signages, movable display stands, etc were also added.

INFORMATION TECHNOLOGY INFRASTRUCTURE

- **Koha** – open-source library management software was successfully implemented and new features and functions were used making the online catalogue user-friendly.
- **Off-campus access to e-resources** using RemoteXs extended is being widely used.
- **Plagiarism checking service** (originality checking) using the software Turnitin was introduced and has been extensively used to check theses and dissertations, assignments, manuscripts of research papers and other materials.

MANAGING IITGN SCHOLARLY PUBLICATIONS

PUBLICATION LIST AND CITATIONS ANALYSIS

The Library tracks scholarly publications of IITGN community using different sources on a regular basis. These details are also collected from the respective faculty and students continually. The information so collected is formatted using the standard citation style followed in the institute and updated on the institute website. A weekly alert listing new publications added is sent on every Monday to keep the community informed. The data analysis of these publications along with number of citations, impact factor, h-Index, etc is provided to the institute's functionaries from time to time for different purposes including NIRF.

DIGITAL REPOSITORY

The library has created a digital repository (http://repository.iitgn.ac.in/) using the widely used open source DSpace software to collect, organize, manage and provide access to scholarly publications. To begin with, this repository covers the meta data and abstracts of journal articles, conference papers, book chapters, working /technical papers, reports, theses and dissertations, presentations and other forms of scholarly documents published by the IITGN community. With the launching of this repository, the scholarly publications of IITGN faculty, students and staff are getting more visibility. A total of 457 documents have been added to the repository during the period of this report.

ORCID: OPEN RESEARCHER AND CONTRIBUTOR ID

ORCID is a unique ID assigned to authors and is widely used by most authors, publishers, funding bodies and others involved in scholarly communication process to identify the published research output of an author. The library has taken this initiative during the year to create awareness among the faculty and research scholars and assist them in creating a profile and registering to get an ID. It is proposed to use this unique ID in the institutional repository.

LIBRARY PROFESSIONAL TRAINEESHIP/ INTERNSHIP

The library has been taking fresh and suitable postgraduates in Library & Information Science as Library Professional Trainees and offering them an opportunity to learn on the job. These trainees are paid a monthly stipend. During this year the library selected five new trainees on contractual basis for a year. These trainees gain rich experience on the job and contribute substantially to enhancing the library services. These trainees were selected through a competitive selection process. An earlier batch of six trainees completed their term successfully and have taken up various jobs in the academic sector.

LIBRARY STAFF ACTIVITIES

LIBRARY STAFF VISITS TO TECHNOLOGY LIBRARIES

As part of staff development policy of the Institute and to build relations with other libraries and library professionals, and also to gain first hand knowledge of the library operations, library staff visited some of the important libraries in Gandhinagar, Ahmedabad and in institutes such as IIT Kharagpur.

STAFF TRAINING

The institute encourages and supports its staff members to keep themselves up-to-date in their respective domains by attending the training programs, workshops, seminars and conferences. **Tapas Kumar Das** attended a workshop on *Open Source Software for Library Management* (OSSLM) 2016 at IIT Kharagpur, Jun 13-18, 2016.

OTHER ACTIVITIES

LIBRARIAN FROM KAUST

Dr J K Vijaya Kumar, Manager, Library Collection & Information Services from KAUST, Saudi Arabia visited IIT Gandhinagar campus from Jun 17-19, 2016. During this period, the library staff had an extensive discussion with him on wide-ranging areas of mutual interest including resource sharing, joint training programs and staff visits and exchanges. To take the benefit of his visit, the library had also arranged the following two talks:

- *Library resources & services at KAUST* for Senate Library Committee & Library Staff members
- *How to make your Research Visible and Impactful: Useful Information Tools & Resources* for MTech, PhD and SRIP Students.

LIBRARY VISITORS

More than 30 students of Library and Information Science accompanied by two faculty members from the University of Jammu visited the library on Feb 22, 2017. During this visit, they were given an overview of the library resources and services.

The students Chaitanya International School (28 students and 4 teachers) visited the library. They were given a guided tour and library staff interacted with them sharing detailed information about the library.

VISIT TO AHMEDABAD BOOK FAIR

The library arranged a visit to the Ahmedabad Book Fair by IITGN community on May 3, 2016. Over 56 students, faculty and staff joined in this visit and spent several hours at the Book Fair.

NEW INITIATIVES

MOBILE APPLICATION FOR LIBRARY SERVICES

The library has always been exploring new technologies to reach the users. As a part of this initiative, an Android-based mobile application was developed, tested and introduced at the end 2016. This application has been developed by **Sushil Kumar**, B Tech (3rd year) who worked with the library during the SRIP 2016. This application can be downloaded from library website http://www.iitgn.ac.in/library.htm. We hope with this application the access to library resources and services will be easy and convenient.

SUBJECT RESOURCE GUIDES

To create awareness and promote the use of library resources, the library has initially created the following five subject resources guides using the open source software Subject Plus:

- Archaeological Sciences
- Civil Engineering
- Cognitive Science
- Open Access Resources
- Electronic Theses & Dissertations

These can be accessed at http://library.iitgn.ac.in/resourceguide/subjects/index.php. The following two more new resources guides have been created and hosted this year -

- Biological Science and Engineering
- Chemistry

More such resource guides covering other disciplines are being prepared and will be hosted soon.

UNION CATALOGUE OF E-RESOURCES

To promote resource sharing among major science & technology institutions, the library has created a union catalogue of e-Resources (http://library.iitgn.ac.in/unicat/) subscribed by 22 libraries including the IITs, IISc and the IISERs. This catalogue covering more than 1200 e-resources is accessible online. This will be expanded to cover NITs, new IITs and other institutes of national importance. This database has been regularly updated and being regularly used for Document Delivery Services.

SUBJECT LIAISON SERVICES

To build strong interaction between library and the user community, the library has created subject liaison services in the following three major disciplines that are coordinated by three different staff members:

- Engineering
- Sciences
- Humanities & Social Sciences

SUMMER RESEARCH INTERNSHIP (SRIP) 2016

The library hosted the following student under the SRIP Program from May – July, 2016.

Name: Sushil Kumar (14110133), BTech 3rd year in Materials Science and Engineering

Institute: IIT Gandhinagar

Project: Development of Android-based mobile application for the library

One of the SRIP students from the previous batch developed a software to manage and hosting the Union Catalogue of E-Resources which is now live and accessible online. Library benefitted substantially from this Internship program.

MEETING OF IIT LIBRARIANS

IIT Gandhinagar organized the very first meeting of library professionals from the eight new IITs setup in 2008 and 2009. The objective of having such a meeting was to create mechanisms for effective and efficient sharing of resources and the best practices among libraries within the IIT system. This initiative has now become an annual affair and now includes all 23 IITs. So far five such meetings have been held in different IITs, the last being at IIT Bhubaneswar during Nov 18-19, 2016. The IIT Gandhinagar Library has been actively participating and contributing to these meetings leading to increased sharing of books, articles, e-resources, best practices, etc. The union catalogue of e-resources covering 22 major libraries created by the IITGN library is part of this activity.

OPEN ACCESS WEEK

As part of the International Open Access Week (during Oct 2016) celebrated all over the world, the library created two web-based resource guides on '*Open access resources*, and on, '*Electronic theses and dissertations*' and shared the same with Institute community. On this occasion, an exhibition and poster presentation highlighting different aspects of open access were also arranged in the library.

HOSTING OF CLSTL 2017

The library, for the first time, organized an International Conference on the theme Changing landscape of science & technology libraries (CLSTL 2017) from Mar 2-4, 2017. One of the major objectives of this conference was to bring together library professionals and researchers from India and abroad to exchange their innovative ideas, new initiatives, experiences, research work, best practices, etc. The conference attracted nearly 150 participants which included keynote speakers from India and abroad, invited presenters, delegates and sponsors. Senior library professionals from different parts of the country representing IITs, IISERs, NITs, DRDO, ISRO, DAE, CSIR, technology universities and other important institutions attended the conference. There were 50 presentation shalf of which were from foreign institutes from US, UK, Canada, Singapore, France, Portugal, Japan, Saudi Arabia, Sri Lanka and others. The conference included keynote talks, invited presentations, panel discussions, and a half-day workshop on Research Data Management & Service: Roles for Libraries & Librarians. The director, **Prof Sudhir K Jain**, gave an inaugural address and **Prof S P Mehrotra**, Professor-in-Charge, External Relations and Research and Development addressed the gathering at the valedictory session. The feedback received from both invitees and delegates indicated that the conference was a great success in terms of participation, presentations, deliberations, networking, interactions and arrangements.

One of the major outcomes of this conference (CLSTL 2017) was that it helped to create a much-needed platform for the librarians from science and technology libraries to come together, interact and share their rich experience and thereby help the libraries to face the challenges together.

INFORMATION SYSTEM AND TECHNOLOGY FACILITY (ISTF)

The Information Systems & Technology Facility (ISTF) at IITGN has moved to the new campus and has continued to provide user-level services to IITGN community since the inception of the institute. ISTF's state-of-the-art networking infrastructure enables provisioning of information systems and computational facilities to all the end users, on and off the IITGN campus. 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 are some of the major tasks done this year in the Institute Management System (IMS):

- An option of sending back a request to previous step in the workflow
- In addition to staff recruitment portal & PG admission portal, faculty recruitment portal has been implemented and used successfully
- The GUI for ISTF module has been made more intuitive
- To encourage cashless transactions, IITGN has introduced wallet for collection of student fees through IITGN's payment gateway
-

COMPUTING AND NETWORK

IITGN's new campus at Palaj is well connected over 10 Gbps high speed optical fiber internal network with 1 Gbps Internet link from National Knowledge Network (NKN). The academic and residential buildings are LAN and WiFi enabled. A new firewall device from Check Point has been commissioned that secures the network

from external threats, bots, controlling abusive usage in the network have been very easy. In addition, the firewall device also enables users to connect to campus network through Virtual Private Network.

A Memorandum of Understanding (MoU) was signed between IITGN and Bharat Sanchar Nigam Limited (BSNL) for providing an additional Internet Lease Line (ILL) of 200 Mbps (1:1 dedicated fiber link) with Primary Rate Interface (PRI) of 1000 numbers for providing VoIP services. The PRI line was integrated with the VoIP system and enables the users to make external telephone calls. A comprehensive billing system was also implemented through which usage of every telephone numbers can be tracked. The entire VoIP system uses Active Directory (AD) authentication and individuals can configure their VoIP devices using self-care portal.

To achieve 100% redundancy and zero downtime in Internet services, the ILL has been commissioned in the IIT Gandhinagar's network. Using the Smart Monitoring Tools available in the Firewall, the manageability and monitoring of the utilization of the bandwidths, for both NKN and BSNL connections, have become seamless.

ISTF maintains an extensive software repository for the needs of various disciplines. Some of the most popular softwares are ANSYS, Star CCM+, Abaqus, Autodesk Inventor, AspenTech, Mathematica, Lab-View, Matlab, Xilinx, Origin, Comsol, Arc-GIS etc. The institute also houses VEGA, a High Performance Computing Cluster (HPCC) that enables the users to perform parallel and GPU computing relevant to their research interests. In addition to HPCC, the institute has a separate setup, powered by two high-end nodes with NVIDIA K20Xm Tesla cards, as part of the NVIDIA CUDA Teaching Center. These nodes are connected to country-wide GARUDA network provided by C-DAC. Augmentation for adding new nodes with better hardware model in the present HPCC to cater the needs of the many potential in house scholars and meeting requests from non-IITGN users is on the verge of near-completion.

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:

- Configured Microsoft Active Directory (AD) Services to provide centralized login to all IITGN community. The AD services have replaced the past LDAP services which were running last year.
- The Radius server has been integrated with AD so that any IITGN user can login with his/her credentials and avail internet connectivity, via WiFi, across campus using their laptops, smartphones and other portable devices.
- ISTF have procured Microsoft Campus and School (CASA) licenses which has all the benefits with respect to Operating System (OS), Database packages and other related services.
- ISTF has developed an internal website which publishes the relevant IT related information from time to time.
  - » Most of the software purchased by institute that use network licenses can now be downloaded along with their installation guides.
  - » Search functionality for internal directory has been implemented; the users can now search contact information using VoIP numbers, email or name.
  - » A mechanism to get feedback from IITGN community has been implemented.
  - » The static IP addresses that are configured in the various rooms in student hostel are made available with search functionality.
  - » Virtual Private Network (VPN) is made available in the site with clear instructions to install with guides for all operating systems.

OTHER ACTIVITIES

ISTF has been an active contributor and participant in many of the Institute's initiatives and events. The team provides comprehensive support for various events and activities. This year ISTF conducted, as a part of TEQIP initiative, two-week summer school on "Parallel Computing" which had lectures followed by hands-on sessions. The school received an overwhelming response, with many participants from the engineering colleges in Gujarat and other states. GEC Gandhinagar, one of the premier engineering colleges, also approached the ISTF for a 3-day workshop on "Cloud Computing" with hands-on sessions for around 70 candidates.

MEDICAL CENTRE

Three qualified medical practitioners are available at the institute from 9:00 am to 9:30 pm on weekdays to provide medical care and advice to students, staff and faculty. A doctor is available round the clock to attend to emergencies. Hospitalization expenses of all students are 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 levels and dressing wounds. They also assist in maintaining medical supplies and keeping medical records. The other facilities include an electrocardiogram (ECG) machine, oxygen, nebulizer therapy for asthma and chronic obstructive pulmonary disease (COPD), otoscope and a suction machine for ear examination, eye check-up facility, and a 24-hour vehicle facility for patients in case of emergency. The institute has a modest in-house pharmacy that has all kinds of commonly used medicines and a blood collection centre. An oxygen concentrator facility is also available on the campus. Five beds are provided for indoor patients. The SAL Hospital Ahmedabad is on the institute's panel of approved hospitals.

PHYSIOTHERAPY CENTRE

A physiotherapist is available at the physiotherapy centre for two hours from 5.30 pm to 7.30 pm every day except Sunday. The physiotherapy department is well equipped with all the modern equipment such as electrotherapy machines (shortwave diathermy (SWD), TENS (trans electical nerve stimulator), IFT (interferential therapy), paraffin wax bath (PWB), muscle stimulator machine, cervical and lumbar traction machine, ultra-sound 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, secure 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 at IITGN 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. 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, 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, 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

IITGN COMMITMENT TO SOCIAL OUTREACH: NYASA ACTIVITIES

IIT Gandhinagar continued its strong interest in children welfare through Nyasa. The neighbourhood migrant worker kids attend the daily school run by the volunteers and are engaged in several educational activities and general festive celebrations (Republic Day, Independence Day, Diwali, Makarasankranti, Holi etc). Nyasa held a short summer camp in May 2016 on arts and craft and organized a two-week computer workshop in August for the children in the primary school in Palaj. Continuing our tradition, a free health checkup and awareness camp (Sanjeevani) was also conducted on Jan 28-29, 2017 for the villages of Palaj, Basan, Alampur and Shiholi and the grassroots workers at IIT Gandhinagar. The campaign benefited about 1200 people. The last year saw a significant rise in the number of activities along with the impact that the events made on the society around us.

NEEV: IIT GANDHINAGAR COMMUNITY OUTREACH PROGRAMME

NEEV's mission is to empower grassroots communities through workforce development with a focus on entrepreneurship and skills training. As a part of IIT Gandhinagar, 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.

Entrepreneurship Development

NEEV organizes entrepreneurship development workshops that include modules on idea generation, market research, negotiation, marketing, cost analysis and financials. Role play, interactive activities and other participatory methods have been incorporated to ensure that participants from all education backgrounds benefit. NEEV also organizes 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 2016-17:

- A 6-day workshop was organised during Apr 11-18, 2016 at IIT Gandhinagar in which 6 women participants from the village of Palaj, who were also members of a self-help group (SHG) participated. The facilitators were **Ms Shraddha Jain** and **Ms Soumya Harish** from NEEV, IITGN.
- A 5-day workshop was organised during Jul 19-25, 2016 at IIT Gandhinagar in which 25 village youth from the surrounding areas who were enrolled in the vocational skills training course participated. The facilitators were **Ms Shraddha Jain** and **Ms Soumya Harish** from NEEV, IITGN.
- A 5-day workshop was organised during Nov 21-25, 2016 at IIT Gandhinagar, in which 18 participants who were aspiring entrepreneurs and potential entrepreneurship development trainers from Ahmedabad/Gandhinagar areas as well as members affiliated with NGO's based in Baroda, Delhi and Mumbai participated. The facilitators were **Mr Ulhas Kamat**, **Mr B R Venkatesh** and **Mr Nagendra Babu**, from I Create India.

The following awareness sessions were conducted in 2016-17:

- A one-hour awareness session was organised on Apr 6, 2016 at Palaj Village, which was attended by

15 women members of self help group (SHG) from Ramji mandir Vas, Palaj, Gandhinagar

- A one-hour awareness session was organised on Apr 7, 2016 at Palaj Village, which was attended by 33 women members of self help group (SHG) from Juna Gam, Palaj, Gandhinagar.
- A one-hour awareness session was organised on Apr 27, 2016 at Palaj Village, which was attended by 8 women members of self help group (SHG) from Nava Gam, Palaj, Gandhinagar.
- Half-day awareness sessions (rolling, in batches over 2 days) were organised on Jan 28-29, 2017 at IIT Gandhinagar reaching out to around 225 participants, both men and women from the neighboring villages of IITGN namely Palaj, Basan, Alampur and Shiholi.
- A one-hour awareness session was organised on Feb 21, 2017 at Shiholi village which was attended by 22 women members of self-help group (SHG) from Shiholi village, Gandhinagar.
- A one-hour awareness session was organised on Feb 21, 2017 which was attended by 18 women from Basan village, Gandhinagar.

The facilitator for the awareness sessions was **Ms Shraddha Jain**, NEEV IITGN, assisted by **Ms Soumya Harish** and **Ms Swati Verma** from NEEV IITGN.

Skill Development

NEEV conducted a nine-week vocational skills training course at IIT Gandhinagar (IITGN) from May 23, 2016 to Jul 25, 2016 for 25 young men in the age-group of 17 to 32 years. While most of the participants were from the rural areas of Gandhinagar, there were also out-of-state participants from Rajasthan, Chandigarh, and Uttar Pradesh. The course included basic skills in trades such as carpentry, fitting, wiring, plumbing, tin-smithy, machining and welding, modules on business skills, soft skills as well as factory visits to local industries. The participants were taught to make products such as wooden stool, bench, 3-tier metal stand, metal folding cot, grill section, extension board, photo frame, laptop table, grain storage tin, industrial tray, machine tools, gears and parts, and so on. The initiative, offered entirely free of cost to participants, aimed to make employment or entrepreneurial opportunities more readily accessible to them, and/or encourage them to undertake further advanced training in the trades of their choice. Managing Director of GIDC, **Smt D Thara**, IAS, was the chief guest of the open house of the course held on Jul 15, 2016, on the occasion of World Skills Day.

The course was organised by NEEV in collaboration with the mechanical engineering lab staff and electrical engineering lab staff of IITGN. The facilitators from IITGN included **Mr Ramanand Prajapati, Mr Babloo Sharma, Mr Sanjay Patel, Mr M Armugam, Mr Ramesh Solanki, Mr Dipak Chavda, Mr Ashish Pandey, Mr Pragnesh Parekh, Mr Supin Gopi, Mr Palak Bagiya, Mr Tushar Brahmbhatt, Mr Hiren Vadhavana, Mr Ankur Navdiwala** and **Mr Jyodish**. The course was coordinated by **Ms Soumya Harish** and **Mr Ashwin R Kubasadgoudar** from IITGN. Soft skills Training was provided by **Dr Tejal Jani** (faculty at GLS), and entrepreneurship training was provided by **Ms Shraddha Jain** and **Ms Soumya Harish**, NEEV IITGN. Primary sponsorship for the course was provided by Desai Foundation, USA.

Collaboration with SAP

In Feb 2017, three global consultants from SAP - **Mr Brian Diehl** (USA), **Dr Martin Engel** (Germany) and **Ms Luciana Coen** (Brazil) provided consulting services to the NEEV program at IITGN. The visiting team was part of the SAP's Social Sabbatical Program wherein select top employees of SAP from all over the world spend about a month working with local NGOs. During the programme, the NEEV's activities were reviewed and strategy was developed to maximize the social impact of NEEV within IITGN as well as the surrounding communities. **Mr Deepak Bhagat** (an alumnus of IIT Kanpur) introduced IITGN to SAP. From IITGN, **Mr Nirmal Jha**, (Advisor, Industry Partnerships) and **Ms Soumya Harish** (Coordinator, NEEV) coordinated the programme resulting in discussions, learning and intellectual exchanges, all while adapting to different working styles and cultural background.

IITGN INNOVATION AND ENTREPRENEURSHIP CENTRE

IITGN Innovation and Entrepreneurship Centre (IIEC), which is now incorporated under the Companies Act, 2013, is fully geared to support the incubation and technology commercialization initiatives of the Institute. The centre has received significant funds from the Department of Science and Technology, Government of India.

The IIEC facilitates the promotion of entrepreneurship in the following ways:

Explorer Member Program: to support individuals who have interest in working on their ideas to create a commercial venture but not yet ready for incubation.

Summer internship in startups: to expose students to start-up work environment, IITGN started the internship program for students to work in startups promoted by alumni of IITGN during summer/ winter vacations.

Amazon web services: The IIEC became part of Amazon's Web Services program for startups and small businesses, as part of the program, approved startups are eligible for Amazon's cloud service worth USD 1000 for 1 year among other benefits.

Vibrant Gujarat Startup Summit: IITGN partnered in conducting Vibrant Gujarat Startup Summit in October 2016.

Startup mentoring session: A 2-day mentoring session was organized for all incubatee startups. **Mr Hemant Kumar**, visiting faculty of entrepreneurship at IIIT Delhi, provided feedback and suggestions to the startups.

Entrepreneurship Awareness workshop: A workshop conducted by **Mr Sushanto Mitra**, CEO Lead Angles, **Mr Sarthak Jain**, Founder and CEO, Cubeit held in Nov 2016, provided basic tools for ideation, prototyping and fund-raising.

Master Class on Entrepreneurial, corporate finance for startups: the event held in January 2017, touched upon different aspects for corporate finance relevant to startups, corporate decision-making process etc. The class was conducted by **Prof K Chelvakumar**, President, EPIR Technologies, Inc., Bolingbrook, IL, USA and visiting faculty at IITGN.

CURRENT INCUBATEES

Cretif Safety Solutions Private Limited (http://www.cretif.com/), founded by **Akash Keshav Singh, Harsh Gupta** and **Sushilkumar Shisode**, class of 2015, aimed to improve road safety. Cretif built an application to collects data from the vehicle to assess and help drivers improve their driving. It was declared the winner for Ahmedabad Chapter of International Business Plan Competition organized by TiE in collaboration with Rice University.

Think 4Dea Technologies Private Limited (http://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 touch-point.

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

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

Dribble Technologies Private Limited (http://getincent.com/) founded by **Jinesh Shah** and **Sumit Deshmukh** of class of 2015. Incent, a product developed by Dribble, is a visual marketing toolkit that enables brands to convert customers into brand advocates and drive people-powered marketing on social media channels such as Instagram.

NOTABLE ACHIEVEMENTS

- During the period a total of 5 startups were supported. Apart from 12 founders and co-founders, they cumulatively created employment opportunities for around 20 people
- Funding from Govt of Gujarat: IIEC got funding for product development under Startup Scheme of Govt of Gujarat for M/s Geo Carte Radar Technology Pvt Ltd, a startup promoted by **Silky Agarwal** which is incubated at IIEC
- Two of our startups M/s Cretif Safety Solutions and M/s Think 4Dea Technologies featured in a recently released coffee table book by the Govt of Gujarat in the Vibrant Gujarat Startup Summit. These are among top 35 startups chosen by the Govt of Gujarat
- A team of IITGN PhD students (**Sanjay Kumar, Pallavi Chilka**) and project students (**Vinod Maurya, Nakshi Desai**) participated in the Vibrant Gujarat Start-Up Grand Challenge 2016, as part of the Vibrant Gujarat Startup Summit. **The team won the first prize** in the competition under the Innovative Ideas category with their plan for **Efficient and reusable nano-biocatalyst for extracting valuable bioactive compounds from agro/food waste**. The team won prize money of Rs 5 lakhs

IIT GANDHINAGAR RESEARCH PARK

IIT Gandhinagar is setting up a Research Park at its campus to boost industry-academia collaboration and innovation. The Department of Science and Technology of the Government of India has provided initial funding for the establishment of the Research Park. Envisioned as a highly productive physical space, the park aims to foster powerful interplay between the industry and academia. The Research Park will facilitate research projects between industry and the institute and also enable the industrial partners to access the laboratories, high-end equipment and other resources at IITGN. The Research Park will also provide technical advice on collaborative R&D, market research, intellectual property management and licensing. Through the engagement with the research park, industry professionals will also get opportunities to be part of the academic programmes at the institute such as jointly guiding PhD and master's students, supervising interns, delivering lectures etc.

IITGN through USAID support partnered with RTI international for developing the strategy for Research Park development. A team from RTI carried out a stakeholder mapping during April- May 2016, as part of the partnership, subsequently, a team of officials from IITGN visited North Carolina in USA in June 2016 to understand the Research park models at Research Triangle Park (RTP) and North Carolina State University Centennial Research Park.

The Institute has already identified the site for constructing the permanent building for the Research Park. The site is located in the central campus of the Institute on north side of the Scenic Drive. The construction and commissioning of Research Park in its permanent site will take about three years, but the Institute has started the Park activities right away from the currently available buildings in the academic area. In the first instance, Building 9 of the academic area has been made available for Research Park activities and its furnishing is going on. It is expected that the first occupant of the Research Park will start operations from July 2017.

A Section 8 Company **IIT Gandhinagar Research Park** has been incorporated for operations and management of Research Park. In July **Shri H K Mittal**, Advisor, Department of Science and Technology, Govt of India visited the park site and attended the meeting to review the progress.

INTELLECTUAL PROPERTY

During the year 2016-17, a total of 12 invention disclosures were generated by the faculty members out of which four were filed at the Indian Patent Office and five invention disclosures are in the process of filing. The patents filed are as follows:

1. **Detection of organophosphorus herbicides**, inventors include **Prof Bhaskar Datta, Mr Sanjay Kumar** and **Ms Pramila Sharma**
2. **A walking aid system for a Parkinson's disease affected person**, inventors include **Prof Uttama Lahiri**, **Mr Sai Rama Krishna G** and **Mr Megh Patel**
3. **Pharmaceutical composition and process for preparing the same**, inventors include **Prof Sivapriya Kirubakaran, Prof Vijay Thiruvenkatam, Dr Kapil Juvale, Mr Vijay Singh, Dr Purushothaman Gayathri** and **Mr Shaik Althaf**
4. **Substituted 1, 2-dihydro-3H-pyrazolo [4,3-C]quinolin-3-one as ATR kinase inhibitors**, inventors include **Prof Sivapriya Kirubakaran, Prof Vijay Thiruvenkatam, Mr Shaik Althaf** and **Ms Rashmi Bhakuni**

FACULTY ACTIVITIES

RESEARCH PROJECTS

PROJECTS SANCTIONED DURING 2016-17

- Equipment 300 kN Universal Testing Machine 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** 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 & Physics
- Development of a robotic system for gait characterization and performance measurement INSPIRE Fellowship sponsored by 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 sponsored by Science & Engineering Research Board. Principal investigator: **Prof Manish Kumar**, Civil Engineering
- Development of smart, environment friendly and low-cost fire detection and suppression system sponsored by UchchatarAvishkarYojana. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Cost-effective integration of 20-40V n/p LDMOS devices in SCL's 0.18mm CMOS process sponsored by 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 sponsored by Department of Biotechnology. Principal investigator: **Prof Virupakshi Soppina**, Biological Engineering
- Thermodynamics of black holes: General Relativity and beyond sponsored by Science & Engineering Research Board. Principal investigator: **Prof Sudipta Sarkar**, Physics
- Mechanistic analysis of eukaryotic mobile genetic elements sponsored by Science & Engineering Research Board. Principal investigator: **Prof Sharmistha Majumdar**, Biological Engineering
- Grobner Basis, syzygies and betti numbers of determinantal ideals sponsored by Science & Engineering Research Board. Principal investigator: **Prof Indranath Sengupta**, Mathematics
- Asymptotic problems for stochastically perturbed switching dynamical systems sponsored by Science & Engineering Research Board. Principal investigator: **Prof Chetan Pahlajani**, Mathematics
- On automorphisms of finite group sponsored by Science & Engineering Research Board. Principal investigator: **Prof Surjeet Kour**, Mathematics
- Geometry of moduli of real parabolic bundles sponsored by Science & Engineering Research Board. Principal investigator: **Prof Sanjaykumar Amrutiya**, Mathematics
- LHC Studies of beyond the Standard Model Physics sponsored by Science & Engineering Research Board. Principal investigator: **Prof Baradhwaj Coleppa**, Physics
- At the interface of analytic number theory and special functions sponsored by 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 sponsored by Board of Research & Nuclear Sciences. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Regulation of inter-allelic epigenetic differences by CGGBP1-CTCF axis sponsored by Science & Engineering Research Board. Principal investigator: **Prof Umashankar Singh**, Biological Engineering
- Anti-CGGBP1 adjunct cancer therapy: regional advantage in Gujarat sponsored by Gujarat State Biotechnology Mission (GSBTM). Principal investigator: **Prof Umashankar Singh**, Biological Engineering
- Singular nonlinear elliptic equations: existence, uniqueness and qualitative questions sponsored by Science & Engineering Research Board. Principal investigator: **Prof Jagmohan Tyagi**, Mathematics
- Deep analytics of multilayered complex systems: sketching insights from multidimensional time series sponsored by Cisco Research Center University. Principal investigator: **Prof Anirban Dasgupta**, Computer Science and Engineering
- Biomimetic catalyst design for the cathodic oxygen reduction reaction (ORR) in fuel cell - Ramanujan Fellowship sponsored by 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 sponsored by Science & Engineering Research Board. Principal investigator: **Prof Arnab Dutta**, Chemistry
- Aggregation induced emission in fluorescent materials: design, synthesis and applications sponsored by 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 sponsored by Instrumentation Research and Development Establishment. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering
- Parameterized methods in bioinformatics - INSPIRE Fellowship sponsored by Department of Science & Technology. Principal investigator: **Prof Neeldhara Misra**, Computer Science and Engineering
- Towards predictive modeling of oxidation of nanoaluminum particles-a multiscale approach sponsored by 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 sponsored by 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 sponsored by Science & Engineering Research Board. Principal investigator: **Prof Vinod Chandra**, Physics
- Effective constraint handling for single and multi-objective optimization in Cuckoo search algorithm: application to optimal control problems sponsored by Science & Engineering Research Board. Principal investigator: **Prof Nitin Padhiyar**, Chemical Engineering
- Reusable and dield-deployable nanobiocatalysts for detection of pesticides and herbicides IMPRINT project sponsored by 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 sponsored by 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 sponsored by Science & Engineering Research Board. Principal investigator: **Prof Kaustubh Rane**, Chemical Engineering
- Tethered AMPs for antibacterial surface coatings sponsored by Science & Engineering Research Board. Principal investigator: **Prof Abhijit Mishra**, Materials Science and Engineering
- Molecular Mechanisms of Kinesin-3 Autoregulation and their biophysical measurements sponsored by Science & Engineering Research Board. Principal investigator: **Prof Virupakshi Soppina**, Biological Engineering.
- Development of a fiber-optic sensor network to monitor hazardous gas leaks in industrial plants sponsored by Royal Academy of Engineering, UK, under the scheme: Industry Academia Partnership Programme. Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering
- Targeting IMPDH (inosine monophosphate dehydogenase): developing novel therapeutics for H pylori Infection sponsored by 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 sponsored by Science & Engineering Research Board. Principal investigator: **Prof Vijay Thiruvenkatam**, Biological Engineering & Physics
- Reconnoitering digital image and video history (origin and tampering) using intrinsic signatures sponsored by Department of Science & Technology. Principal investigator: **Prof Nitin Khanna**, Electrical Engineering
- CMIP5 statistical downscaling for hydro-climatic projections with CMIPS5 simulations to assess impact of climate change sponsored by Ministry of Water Resources. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Impact of climate change on water resources of Sabarmati basin sponsored by Ministry of Water

Resources. Principal investigator: **Prof Vimal Mishra**, Civil Engineering

- Understanding the thermodynamics and kinetic factors affecting polymorphism of pharmaceuticals ingredients sponsored by Science & Engineering Research Board. Principal investigator: **Prof Sameer Dalvi**, Chemical Engineering
- DSIR-Common Research and Technology Development Hub-Chemical Processes sponsored by 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 sponsored by Department of Science & Technology. Principal investigator: **Prof Ravi Hegde**, Electrical Engineering
- Development of high voltage (HV) devices for CCD (charge coupled device) clock drivers sponsored by Department of Space. Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Non-convex optimization techniques for large scale machine learning problems sponsored by Science and Engineering Research Board (SERB). Principal investigator: **Prof Dinesh Garg**, Computer Science and 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 sponsored by Science and Engineering Research Board (SERB). Principal investigator: **Prof Emila Panda**, Materials Science and Engineering
- Nanostructured conducting metal oxides for the electroreduction of CO_2 to make useful products sponsored by Science and Engineering Research Board (SERB). Principal investigator: **Prof Sudhanshu Sharma**, Chemistry
- Real-time concentration measurement of methane, water vapour, carbon dioxide and carbon monoxide in ethanol autothermal reformation sponsored by Science and Engineering Research Board (SERB). Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering
- High impact weather events in EurAsia selected, simulated and storified (HIWAVES3) sponsored by Ministry of Earth Science (MoES). Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Mechanism of kinesin-3 base cargo transport, regulation and their implication in neurodegenerative diseases sponsored by 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 sponsored by 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 sponsored by Department of Biotechnology (DBT). Principal investigator: **Prof Malavika Subrahmanyam**, Social Sciences
- Data-driven intelligent energy management for environmentally sustainable energy access sponsored by 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 sponsored by Science and Engineering Research Board (SERB). Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering
- Development of a novel wearable cable-driven exoskeleton for robotic neurorehabilitation sponsored by Science and Engineering Research Board (SERB). Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering

ONGOING RESEARCH PROJECTS

- Development of novel double hydrogen bond donor catalysts for asymmetric Diels-Alder reactions sponsored by Department of Science & Technology. Principal investigator: **Prof Chandrakumar Appayee**, Chemistry
- Grain boundary structure and transformations sponsored by 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 sponsored by Defense Research & Development Organisation. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Water soluble glycosylated amphiphilic porphyrins: synthesis, photophysical, electrochemical studies and bio-imaging applications sponsored by 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 sponsored by 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 sponsored by Department of Science & Technology. Principal investigator: **Prof Ravi Hegde**, Electrical Engineering
- Printed document security using intrinsic characteristics of imaging devices sponsored by 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 sponsored by Science and Engineering Research Board. Principal investigator: **Prof Saumyakanti Khatua**, Chemistry

- Bidirectional interaction between perception and motor control, sponsored by Welcome 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 sponsored by Department of Science & Technology. Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- Theoretical investigations of carbohydrate-water interactions sponsored by Science & Engineering Research Board. Principal investigator: **Prof Sairam Swaroop Mallajosyula**, Chemistry
- Evolution of eukaryotic mobile genetic elements/ transposons sponsored by Department of Biotechnology. Principal investigator: **Prof Shamistha Majumdar**, Biological Engineering
- Multi-method approach to evaluate dissolution of engineered nanoparticles in a range of simulated environment for Nanosafety sponsored by 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 sponsored by Ministry of Environment and Forest. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Integration of perceptual and value-based decision making: A cognitive & computational approach sponsored by Department of Science & Technology. Principal investigator: **Prof Krishna Prasad Miyapuram**, Cognitive Science
- Special manpower development project- Chips to system design (SMDP-C2SD) sponsored by 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 sponsored by Department of Science & Technology - Council of Scientific and Industrial Research. Principal investigator: **Prof Pratik Mutha**, Biological Engineering
- Joint development of low cost automatic triaxial apparatus sponsored by AIMIL Ltd. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Extended depth of field imaging using coded camera architecture sponsored by Indian Space Research Organization. Principal investigator: **Prof Shanmuganathan Raman**, Electrical Engineering
- Role of predictive mechanisms in attention capture by action sponsored by the Department of Science & Technology. Principal investigator: **Prof Meera Mary Sunny**, Social Sciences
- Heat transfer and visco-plastic flow based model for friction stir welding of copper- YSRA: Young Scientist Research Award sponsored by 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 sponsored by Naval Materials Research Laboratory, DRDO laboratory. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering
- Development of low-cost intelligent head-phones for improving social interactions of children with autism spectrum disorders sponsored by the Department of Science and Technology. Principal investigator: **Prof Nithin V George**, Electrical Engineering
- Dry coating of nano-additives for energy efficient cement clinkerization sponsored by the Department of Science and Technology. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Synthesizing single-atom thick inorganic nano sheets isomorphous to graphene by developing chemical exfoliation strategies for layered boron-based materials sponsored by Department of Science and Technology. Principal investigator: **Prof Kabeer Jasuja**, Chemical Engineering
- How are context and health of older adults related incorporation of geospatial analysis into sociology of aging sponsored by ICSSR. Principal investigator: **Prof Tannistha Samanta**, Social Sciences and Co-Principal investigator: **Prof Shivakumar Jolad**, Physics
- Post-stroke tele-neurorehabilitation using an operant conditioning paradigm under volitionally driven transcutaneous neuro-muscular electrical stimulation funded by the Department of Science and Technology, and Institute National de Recherche en Informatiqueet en Automatique (INRIA) under the Indo-French Programme in Information and Communication Science & Technology (ICST). Principal investigator: **Prof Uttama Lahiri**, IITGN and **Dr Anirban Dutta**, Université Montpellier, France
- Measurement to management (m2m): improved water use efficiency and agricultural productivity through experimental sensor network sponsored by 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 sponsored by the National Remote Sensing Center (NRSC), Hyderabad. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Statistical learning of category information: a neuro imaging investigation sponsored by Cognitive Science Research Initiative of the Department of Science and Technology. Principal investigator: **Prof Krishna Prasad Miyapuram**, Computer Science and Engineering
- Motor adaptation and skill learning in Parkinson's disease sponsored by Science and Engineering Research Board SERB. Principal investigator: **Prof Pratik Mutha**, Biological Engineering
- Microstructure studies of self-assembled Cu (In1xGax) Se2 (CIGS) Nanodots on ZnO thin film sponsored by 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 sponsored by the Department of Science and Technology. Principal investigator: **Prof Shanmuganathan Raman**, Electrical Engineering

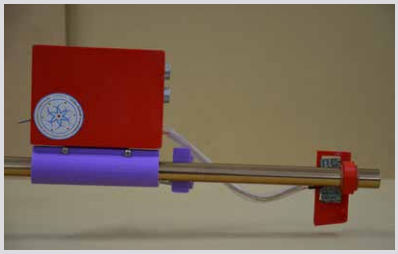
CONSULTANCY PROJECTS

PROJECTS SANCTIONED DURING 2016-17

- Propagation of confined masonry for Building Materials & Technology Promotion Council. Principal investigator: **Prof Sudhir K Jain**, Civil Engineering
- Seismic studies for Anjar to Mundra Pipeline Project (AMPL) of M/s GSPL for L&T Gulf Pvt Ltd. Principal investigator: **Prof Sudhir K Jain**, Civil Engineering
- Geotechnical Study of hill-cut for proposed residential development at hill slope in Ghatkopar for Omkar Realtors & Developers Pvt Ltd, Mumbai. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Protection work at washed out area of Mehsana – Palanpur Pipeline near Rupen River for Gujarat State Petronet Ltd. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Alternate Design of Ash Dyke for NTPC Power Projects for NTPC Ltd. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Assessment of soil investigation report for Dholera International Airport Site for Dholera International Airport Company. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Remedial measures at critical patches on Gosikhurd right and left bank canals of Gosikhurd National Project for Vidarbha Irrigation Development Corporation. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Computer vision and machine learning tools for food recognition for Innit Inc. Principal investigator: **Prof Shanmuganathan Raman**, Electrical Engineering (jointly with Computer Science and Engineering)
- Advising on test setup and instrumentation, on-site testing and test result certification of heat exchanger for Loyal Equipments Ltd, Dehgam. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering
- Investigation of flange buckling of gantry girder at Talwada unit for Sheela Foam Pvt Ltd. Principal investigator: **Prof Gaurav Srivastava**, Civil Engineering
- Verification of design of LPG Bottling Shed at IOCL for Projects and Development India Limited. Principal investigator: **Prof Gaurav Srivastava**, Civil Engineering
- Verification of gantry girder and hoist for Techno Industries. Principal investigator: **Prof Gaurav Srivastava**, Civil Engineering
- Knowledge building on analysis of plates for Epsilon Engineering Pvt Ltd. Principal investigator: **Prof Gaurav Srivastava**, Civil Engineering
- Intake well and approach bridge in Tapi river for Gujarat Water Supply & Sewerage Board. Principal investigator: **Prof Pranab Mohapatra**, Civil Engineering
- Review of flood studies report for Dholera International Airport for Dholera International Airport Company Ltd. Principal investigator: **Prof Pranab Mohapatra**, Civil Engineering
- Construction of railway overbridge in lieu of LC-105-B on Surendranagar Gate – Joravarnagar railway station of Bhavnagar Division of Western Railway area of Surendranagar Nagarpalika. Principal investigator: **Prof Dhiman Basu**, Civil Engineering
- Construction of elevated viaduct from Vastral Gam to Apparel Park upto ramp start in Reach R-1 (excluding the portions of Metro Rail Stations) including construction of Viaduct for portion leading upto Interface location of Metro Depot (East-West Corridor) in Khokhra Area from diverging point Near Apparel Park Metro Rail Station for J Kumar Infraprojects Ltd. Principal investigator: **Prof Dhiman Basu**, Civil Engineering
- GPU accelerated computer vision tools for the smart kitchen for Innit Inc. Principal investigator: **Prof Ravi Hegde**, Electrical Engineering
- Research advisory services for providing technical support to TCS. Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- Device physics training for MAXIM engineers for Maxim India Integrated Circuit Design Pvt Ltd. Principal investigator: **Prof Nihar Rajan Mohapatra**, Electrical Engineering
- Deepening of the existing lake at Ahwa, Dang (Gujarat) for Government of Gujarat. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Assessment of climate change impacts on water availability in India using multi-model multi-scenario datasets for UNDP-GEF-Ministry of Environment, Forests and Climate Change. Principal investigator: **Prof Vimal Mishra**, Civil Engineering

IITGN'S SMART WALKING STICK AT RASHTRAPATI BHAVAN

A smart walking stick developed by **Prof Uttama Lahiri** and her team members was selected for display at the Rashtrapati Bhavan in New Delhi on Mar 9, 2017. The walking stick called SWASTi prevents phenomena (freezing of gait) frequently faced by patients of Parkinson's disease. The team members included BTech student **G Sai Rama Krishna**, MTech student **Megh Patel** and designer at IITGN **Franklin Kristi**.



AWARDS AND RECOGNITION

The following faculty members received special awards and recognition from external bodies during 2016-17:

- **Prof Vinod Chandra** (Physics) received the **Early Career Research Award** from the Science and Engineering Research Board, Department of Science and Technology, Dec 2016.
- **Prof Michel Danino** (Humanities and Social Sciences) received the **Padma Shri Award** for his contribution towards Education and Literature for the year 2017.
- **Prof Anirban Dasgupta** (Computer Science and Engineering) won the **Best Incoming Author** award at International Conference on Database Theory (ICDT) 2016.
- **Prof Arnab Datta** (Chemistry) has been awarded the **Ramanujan Fellowship** supported by the Science and Engineering Research Board (SERB).
- **Prof Atul Dixit** (Mathematics) has been invited to be part of the Editorial Board of the Journal of the Ramanujan Mathematical Society.
- **Prof Nithin V George** (Electrical Engineering) has been awarded **Indo-Australia Early & Mid-Career Researchers Fellowship** for 2016-17 by Indian National Science Academy (INSA) for conducting advanced research on the project entitled "Design and Implementation of acoustic beam forming systems in digital hearing aids" at the Curtin University, Australia.
- **Prof Kabeer Jasuja** (Chemical Engineering) has been invited to be part of the Editorial Board of The Scientific Reports Journal from the Nature Publishing Group.
- **Prof Sivapriya Kirubakaran** (Chemistry, Biological Engineering) was appointed as a member of the **DST-SERB** reviewer committee for early career fellowships.
- **Prof Rita Kothari** (Humanities and Social Sciences) was awarded **Sangam House Translator's Fellowship** for a manuscript on Agnipariksha by Hamid Kureshi, Nov 27-Dec 24, 2016.
- **Prof Joycee Mekie** (Electrical Engineering) was selected for **Young Faculty Research Fellowship** from Ministry of Electronics and Information Technology, Government of India under the Visvesvaraya PhD scheme for Electronics & IT.
- **Prof Nihar Mohapatra** (Electrical Engineering) has been selected for the **Young Faculty Fellowship** under Visvesvaraya PhD Scheme for Electronics & IT for the year 2014-15.
- **Prof Pratik Mutha, Dr Neeraj Kumar** and **Nishant Rao** (Cognitive Science), won the **Best Poster Award** at the Motor Control 2016 conference in Wisla, Poland.
- **Prof D V Pai** (Mathematics) has been elected as the president of the **Indian Mathematical Society** (IMS) for the period Apr 2016-Mar 2017.
- **Prof Naran Pindoriya** (Electrical Engineering) has been awarded **Building Energy Efficiency Higher & Advanced Network (BHAVAN) Fellowship** supported by the Department of Science & Technology and the Indo-US Science & Technology Forum. Prof Pindoriya also has been awarded IEEE Power & Energy Society (PES) Gujarat chapter Outstanding Engineer award (with experience less than 15 years) to recognize his research contributions in power systems and smart distribution grid.
- **Prof Anand Sengupta** (Physics) shared the Special Breakthrough Prize in **Fundamental Physics** awarded for detection of gravitational waves as the part of the LIGO discovery team.
- **Prof Virupakshi Soppina** (Biological Engineering) received the **DBT Ramalingaswami Re-entry Fellowship** for five years on Oct 24, 2016 from the Department of Biotechnology, New Delhi. Prof Soppina also received the Best Poster award at the International symposium on Computational and Experimental Studies of Microtubule and Microtubule based Motor Proteins held at IIT Bombay, Dec 14, 2016.
- **Prof Dilip Srinivas Sundaram** (Mechanical Engineering) received the David Weaver Thermophysics **Best Paper Award**, American Institute of Aeronautics and Astronautics, 2016.
- **Prof Vineet Vashista** (Mechanical Engineering) received the **INSPIRE Faculty Award** from the Department of Science and Technology, and the **Early Career Research Award** from the Science and Engineering Research Board, Government of India.

FACULTY EXCELLENCE AWARDS

The following three faculty members were awarded the Faculty Excellence Award for the year 2015-16, for their exemplary work in teaching, research and institution building

- **Prof Bhaskar Datta**, Award for Excellence in Teaching Award
- **Prof Uttama Lahiri**, Award for Excellence in Research Award
- **Prof Naran Pindoriya**, Award for Excellence in Institution Building Award

HONORARY AND EXTERNAL COMMITTEE WORK

Prof Sanjay Kumar Amrutiya, Mathematics
- Reviewer, MathScinet, Mathematical Reviews (American Mathematical Society)

Prof Amit Arora, Materials Science and Engineering
- Reviewer, ASME Manufacturing Science and Engineering Conference, 2017
- External Member, Doctoral Committee, Mr Gaurang Joshi, PDPU; Doctoral Committee, Mr Rajesh S, PDPU; Doctoral Committee, Mr Ankit Dilipkumar Oza, PDPU
- External Supervisor, Ardizio Salvlatore, Department of Chemical Materials and Cassese Giovanni, Department of Chemical Materials, Production, and Industrial Engineering, Polytechnic School of Basic Sciences, University of Naples Federico II, 2016

Prof Dhiman Basu, Civil Engineering
- Reviewer for journals: Bulletin of Earthquake Engineering, Springer; Structural Engineering, ASCE; Engineering Mechanics, ASCE
- Member, Editorial Board, International Journal of Earthquake and Impact Engineering, 2016, Inderscience Publisher, UK
- Chair, Doctoral Thesis Committee, International Institute of Information Technology (IIIT), Hyderabad

Prof Arup Lal Chakraborty, Electrical Engineering
- Technical Program Committee member, 23rd National Conference on Communications 2017 (NCC 2017), IIT Madras, IEEE TENSYMP 2017 (2017 IEEE Region 10 Symposium)
- Reviewer of proposals submitted to IMPRINT Call for Proposals Phase III
- Reviewer for journals: Applied Physics B, IEEE Sensors; IEEE Photonic Technology Letters; IEEE Sensors Letters; Journal of Process Safety and Environmental Protection; Measurement Science and Technology (IoP)

Prof Vinod Chandra, Physics
- Invited Physics Colloquium on Exploring the heart of the matter: the hottest and most fluid, liquid in nature at extreme temperature/energy density, Institute of Plasma Research Gandhinagar (IPR Colloquium), Nov 9, 2016
- Invited member of plenary seminar for the Laser Plasma Acceleration 2017, ICTS-TIFR, Bangalore, Mar 2017

Prof Sameer Dalvi, Chemical Engineering
- Reviewer for journals: International Journal of Heat and Mass Transfer; Powder Technology; Chemical Engineering and Process Intensification
- GSPC moderator, examination for Assistant Professors at Government Engineering Colleges, Gujarat, Aug 2016
- GSPC moderator, examination for Lecturer at Government Engineering Colleges, Gujarat, Oct 2016
- CUG Examination of MPhil dissertation submitted to Nanosciences Department, Oct 2016
- Participated in a workshop to finalize Vision and Mission for the Department of Chemical Engineering, Institute of Pharmacy, Nirma University, Dec 2016
- Preparation of multiple choice questions for Student Counsellor, Chemical Engineering, GSFC University, Mar 2017
- Expert, Selection of Student Counsellor, Chemical Engineering, GSFC University, Mar 2017
- Member, Research Progress Committee (RPC) for a PhD student Shruti Rawa, Institute of Pharmacy, Nirma University (Advisor: Dr Mayur Patel), Mar 2017

Prof Michel Danino, Humanities and Social Sciences
- Member, Board of Governors, Anant National University, Ahmedabad

Prof Anirban Dasgupta, Computer Science and Engineering
- Member, Program Committee, Conference on Web Search and Data Mining (WSDM) 2017; Conference of the World Wide Web (WWW) 2017
- Member, Senior Program Committee, Conference on Knowledge Discovery and Data Mining (KDD) 2017

Prof Atul Abhay Dixit, Mathematics
- Member, Editorial Board, Journal of the Ramanujan Mathematical Society

Prof Arnab Dutta, Chemistry
- 2017 Observer for JEE-Mains
- External reviewer for thesis of Mr Vuggili Sai Bhargava, Central University of Gujarat

Prof Dinesh Garg, Computer Science and Engineering
- Program Committee member, International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2017; ACM IKDD Conference on Data Science (CODS) 2017; International Workshop on Parallel and Distributed Computing for Large Scale Machine Learning and Big Data Analytics (ParLearning 2017)
- Member, Faculty Selection Committee, DA-IICT Gandhinagar (2016); Nirma University (2017); IIIT Vadodara (2017)
- Member, panel discussion on The Impact of Operations Research and Analytics on Industry at IEOR Day, IIT Bombay, Mar 18, 2017

Prof Nithin V George, Electrical Engineering

- Reviewer for journals: Applied Acoustics (Elsevier); Applied Soft Computing (Elsevier); Circuits, Systems & Signal Processing (Springer); Digital Signal Processing (Elsevier); IEEE Transactions on Circuits and Systems I: Regular Papers; IEEE Transactions on Circuits and Systems II: Express Briefs; IEEE Transactions on Neural Networks and Learning Systems; IEEE Access; International Journal of Automation and Computing (Springer); Journal of Sound and Vibration (Elsevier); Journal of Medical and Biological Engineering (Springer); Mechanical Systems and Signal Processing (Elsevier); Neurocomputing (Elsevier); Neural Computing and Applications (Springer); PLOS One; Shock and Vibration (Hindawi); Signal Processing (Elsevier); Springerplus (Springer)
- Reviewer for conferences: IEEE International Symposium on Circuits and Systems (ISCAS 2017), Baltimore, USA; The 20th World Congress of the International Federation of Automatic Control (IFAC 2017), Toulouse, France; 25th European Signal Processing Conference (EUSIPCO), Kos Island, Greece; 23rd National Conference on Communications 2017 (NCC 2017), IIT Madras
- Associate Editor, Swarm and Evolutionary Computing (Elsevier)
- Member, Selection Committee (Doctor of Philosophy), Gujarat Technical University, Apr & Jul 2016
- External examiner (PhD thesis) and (MTech thesis), Sardar Vallabhbhai National Institute of Technology, Surat
- Member, Technical Programme Committee, 23rd National Conference on Communications 2017 (NCC 2017), IIT Madras; 2nd International Conference on Signal and Speech Processing, Kollam

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
- Reviewer, MS thesis of Anna University and PhD thesis from IIT Roorkee
- Reviewer for journals: Powder Technology; International Journal Pharmaceutics; Process Safety and Environmental Protection; Materials and Design; Journal of Alloys and Compounds

Prof Sudhir K Jain, Civil Engineering

- 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, Audit Advisory Board, Gujarat and Rajasthan State and Union Territories of Daman and Diu, Dadra & Nagar Haveli, Principal Director of Audit (Central), Ahmedabad
- Member, Board of Governors; Member, Search Committee for the position of Director General, Institute of Infrastructure, Technology, Research and Management, Maninagar, Ahmedabad
- Member, Court; Member, Executive Council, Central University of Gujarat, Gandhinagar
- Member, Board of Governors, Raksha Shakti University, Ahmedabad
- Member, Board of Governors, Pandit Dwarka Prasad Mishra-Indian Institute of Information Technology, Design and Manufacturing (PDPM-IIITD&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)
- Independent Director on the Board, Antrix Corporation Limited, Bangalore
- President, Ahmedabad Chapter, IIT Roorkee Alumni Association
- Member, Executive Group, State Knowledge Advisory Board, Government of Andhra Pradesh

Prof Kabeer Jasuja, Chemical Engineering

- Member, Editorial Board for Scientific Reports
- Reviewer for journals: Carbon, ACS Applied Materials & Interfaces, Scientific Reports, and Analyst

Prof Shivkumar Jolad, Physics and Social Sciences

- Release of District Human Development Report- Ahmedabad authored by Prof Tannistha Samanta, Prof Shivakumar Jolad, Prof Malavaika Subramanyam and Mukta Gundi, by Gujarat Social Infrastructure Development Society, Government of Gujarat, Sep 2016

Prof Sivapriya Kirubakaran, Chemistry & Biological Engineering
- External member, Research Progress Committee, Institute of Pharmacy, Nirma University, Ahmedabad
- External member, Masters thesis, Institute of Life Sciences, Ahmedabad University, Ahmedabad

Prof Nitin Khanna, Electrical Engineering
- Reviewer for funded projects of Science and Engineering Research Board, Department of Science and Technology (SERB-DST)
- Technical Programme Committee member, 24th European Signal Processing Conference (EUSIPCO 2016), Budapest, Hungary
- Reviewer for journals: Forensic Science International (Elsevier), Multimedia Tools and Applications (Springer), Eating and Weight Disorders (Springer), International Journal on Document Analysis and Recognition (Springer)
- Reviewer for conferences: IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2017), Louisiana, United States

Prof Manish Kumar, Civil Engineering
- Session Chair,16th World Conference on Earthquake Engineering, Santiago, Chile, Jan 9-13, 2017
- Reviewer: Bulletin of Earthquake Engineering, Engineering Structures
- External examiner for MTech thesis, Charotar University of Science and Technology

Dr T S Kumbar, Librarian
- Member, Resource Selection Committee (RSC), e-Shodh Sindhu for Centrally Funded Technical Institutes, INFLIBNET/ MHRD, 2016
- Member, Experts Committee (EC) on Bibliometrics for Evaluation of Science & Technology (2016-19) NSTMIS Scheme, Department of Science & Technology, Government of India
- Member, Library Advisory Board (India), Institute of Physics, UK, 2017

Prof Uttama Lahiri, Electrical Engineering
- Reviewer for journals: Journal of Medical Imaging and Health Informatics, Journal of Autism and Development Disorder, American Journal of Autism, IEEE Pervasive Computing, IEEE Transactions on Autonomous Mental Development
- External examiner in assessment committee for Mr Deepak Kumar, an MTech candidate enrolled with Academy of Scientific and Innovative Research, Central Scientific Instruments Organization, Chandigarh held on Jul 4, 2016 for the MTech thesis

Prof Joycee Mekie, Electrical Engineering
- Research Progress Committee member of PhD student Mr Jayesh Diwan at Nirma University and Mr Subhash Patel, VGEC, Gujarat Technological University
- Technological University
- External Masters theses examiner, SVNIT Surat for two students, July 23, 2016

Prof S P Mehrotra, Materials Science and Engineering
- Elected president of the Physical Sciences Section of 86th Annual Symposium of National Academy of Sciences, Dehradun, Dec 2-4, 2017. Delivered the Presidential Address entitled 'Sustainable Development of Himalayan Region Through Technology and Entrepreneurship'
- Reappointed Chairman of the Research Advisory Council of Jawaharlal Nehru Aluminum Research Development and Design Centre (Ministry of Mines, Government of India) for another three year term starting May 2016
- Chief Guest of the Inaugural Function of the International Seminar on Mineral Processing Technology -2017, Mahabalipuram, Tamilnadu, Feb 1-3, 2017. Also Chaired the First Plenary Session of the seminar
- Appointed Chairman (by Ministry of Steel, Governnment of India) of the Empowered Board to monitor and evaluate the progress of the project titled 'Development of Microwave assisted Iron-making Process' by M/s Industrial Microwave Research Centre (IMRC), Mumbai

Prof Pratik Mutha, Biological Engineering and Cognitive Science
- Reviewer for journals: Journal of Neurophysiology; Experimental Brain Research; Journal of Motor Behavior; Neurorehabilitation and Neural Repair; Frontiers in Psychology

Prof Neeldhara Misra, Computer Science and Engineering
- Program Committee member for AAMAS 2017
- External reviewer for the PhD thesis of Mr Pranabendu Misra, IMSc, Chennai
- Reviewer for journals: Discrete Applied Mathematics; Algorithmica; Transactions of Algorithms; Fundamenta Informaticae
- Reviewer for conferences: International Colloquium on Automata, Languages, and Programming (ICALP); International Symposium on Theoretical Aspects of Computer Science (STACS); Workshop on Graphs (WG); International Symposium on Parameterized and Exact Computation (IPEC); International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX); International Symposium on Symbolic and Algebraic Computation (ISSAC); International Conference on Algorithms and Complexity (CIAC)

Prof Pranab Kumar Mohapatra, Civil Engineering
- Member of BIS (Water Resource Division)

Prof Harish P M, Mechanical Engineering
- Member of the International Programmes

Committee for the 2017 Indian Control Conference, Guwahati, Jan 4-6, 2017
- Panelist for selecting the Best Student Paper Award, Indian Control Conference, Guwahati, Jan 4-6, 2017
- Member, Conference Editorial Board for IEEE Control Systems Society, 2015-2016

Prof D V Pai, Mathematics
- Associate Editor, Asian European Journal of Mathematics (AEJM)
- Reviewer, Mathematics Reviews
- Referee, Asian European Journal of Mathematics (AEJM)
- Referee for a project proposal for the Science and Engineering Research Board (SERB)
- Presided over the 82nd Annual Conference of Indian Mathematical Society held at University of Kalyani, Kalyani, Nadia, West Bengal, Dec 27-30, 2016

Prof Nitin Padhiyar, Chemical Engineering
- Organized a National Conference, ChEmference-2016, IIT Gandhinagar, Dec 3-4, 2016 (Faculty Advisors: Prof Pratyush Dayal, Prof Atul Bhargav, Prof Nitin Padhiyar)

Prof Chetan D Pahlajani, Mathematics
- Reviewer, Stochastic Processes and their Applications

Prof Naran M Pindoriya, Electrical Engineering
- Technical Program Committee member, International Workshop on Communication Applications in Smart Grid (2016)
- Member, Research Progress Committee, for a PhD candidate in Electrical Engineering, Nirma University, Ahmedabad

Prof Mithun Radhakrishna, Chemical Engineering
- Reviewer for journal: Langmuir, Journal of Chemical Physics

Prof Shanmuganathan Raman, EE and CSE
- Technical Programme Committee member, 11th International Conference on Signal Processing and Communications (SPCOM), IISc Bangalore, 2016; 23rd International Conference on Pattern Recognition (ICPR), Mexico, 2016; International Conference on Signal and Information Processing (IConSIP), Nanded, 2016; 2nd Workshop on Applications in Computer Vision, IIT Guwahati, 2016; 10th IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Bangalore, 2016; 23rd National Conference on Communications (NCC), IIT Madras, 2017
- Reviewer for journals: IEEE Transactions on Signal Processing, IEEE Transactions on Computational Imaging, Pattern Recognition Letters, IET Computer Vision
- Reviewer for conference: 10th Indian Conference on Computer Vision, Graphics, and Image Processing (ICVGIP), IIT Guwahati, 2016

Prof Tannistha Samanta, Humanities and Social Sciences
- Member, International Editorial Board, Migration and Development, Routledge, London, 2015-2017
- Invited member (Subject Expert) of the Dissertation Advisory Committee(DAC), Doctoral Office, CEPT University, Ahmedabad, Feb 2017

Prof Babji Srinivasan, Electrical Engineering
- Reviewer for journals: AIChE Journal (ACS); Computers and Chemical Engineering (Elsevier); IEEE Transactions on Automatic Control (IEEE); Industrial Engineering and Chemistry Research (ACS); IEEE Transactions on Control System Technology (IEEE); Control Engineering Practice (Elsevier); Journal of Environmental Chemical Engineering (Elsevier); Chemical Engineering Journal (Elsevier); Journal of Industrial and Engineering Chemistry (Elsevier); PLOS One; ISA Transactions
- Reviewer for conferences: The 20th World Congress of the International Federation of Automatic Control (IFAC 2017), Toulouse, France; American Control Conference 2017
- External examiner (MTech thesis), IIST Thiruvananthapuram
- Technical Programme Committee member: 2nd International Conference on Signal and Speech Processing, Kollam, ICPSACO – 2017; International Conference on Signal Processing Communication and VLSI Design – ICSCV '17

Prof Dilip Srinivas Sundaram, Mechanical Engineering
- Member, Editorial Board, Eurasian Chemico-Technological Journal
- Reviewer for journals: Combustion and Flame; Journal of Propulsion and Power; Fuel Processing Technology
- Session co-chair and member of Organizing Committee, Joint IX International Symposium on The Physics Chemistry of Carbon Materials/ Nanoengineering and Conference Nanoenergetic materials and Nanoenergetics, Almaty, Kazakhstan, Sep 2016

Prof Meera Mary Sunny, Cognitive Science
- Reviewer for journals, Visual Cognition; Frontiers in Psychology

Prof Vijay Thiruvenkatam, Biological Engineering and Physics
- External examiner, PhD thesis, Charusat University, Anand
- Invited committee member, Gujarat State Biotechnology Mission (GSBTM)
- Reviewer for journals: Journal of Molecular Structure, Elsevier publications

Prof Vineet Vashista, Mechanical Engineering

- Reviewer for journals: EMB Transactions on Neural Systems & Rehabilitation Engineering (TNRSE); IEEE Robotics and Automation Letters (RA-L); IEEE International Conference on Robotics and Automation (ICRA); Elsevier Robotics and Computer Integrated Manufacturing; Sage Advances in Mechanical Engineering; Springer Microsystem Technologies; IEEE International Conference on Intelligent Robots and Systems (IROS)
- Project reviewer, Board of Research in Nuclear Sciences (BRNS)

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 Sanjay Kumar Amrutiya** delivered an invited talk on **Quivers and their representations** at the National conference on Algebra, Analysis and Graph Theory, Saurashtra University, Rajkot Feb 09-11, 2017; **Filters and Tychonoff's Theorem**, Annual Foundation School – 1, Harish-Chandra Research Institute, Allahabad, Dec 5-31, 2016; **Least squares approximation and classification of conics**, TEQIP, IIT Gandhinagar, Feb 15-17, 2017.
- **Prof Amit Arora** delivered invited talk on **Heat transfer and material flow modelling of dissimilar friction stir welding of AA 6061-T6 and AZ31,** Annual Technical Meeting- IIM, IIT Kanpur, Nov 11, 2016; **Heat Transfer and Material flow modelling of dissimilar friction stir welding of AA 6061-T6 and AZ31,** National Welding Seminar - 2016, Indian Institute of Welding, Kolkata, Dec 16, 2016; Friction stir welding in the STTP on **Welding Practice for Engineers**, **GEC, Gandhinagar**, Dec 2, 2016; **Advanced processing of materials**, Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar, Sep 17, 2016; **Robotic welding**, Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar, Sep 17, 2016; **Heat transfer and material flow modelling of friction stir welding**, School of Minerals, Materials & Metallurgical Engineering, IIT Bhubaneswar, Mar 3, 2017; **IIT Gandhinagar and Indian Army – a sea of opportunities**, Infantry Seminar, Infantry School, Mhow, Madhya Pradesh, Mar 22, 2017.
- **Prof Rupak Banerjee** delivered an invited talk on **Synchrotron techniques in materials research**, under the Nano Mission initiative of Department of Science and Technology on **Controlling length-scale of the phase separation to optimize organic semiconductor blends**, Dooars, West Bengal, Feb 2-5, 2017.
- **Prof Atul Bhargav** delivered invited lectures on **Fuel cell systems for distributed power applications**, Instruments Research and Development Establishment (IRDE) Dehradun, Jun 11, 2017; **Fuel cell systems in India**: **opportunities and challenges**, International Workshop on Energy, Environment and Combustion (IWEPE 2017), Mar 9, 2017.
- **Prof Arup Lal Chakraborty** delivered an invited lecture on **Tunable diode laser spectroscopy to detect oxygen leakage to prevent non-combat fuel tank explosions**, Defense Bioengineering and Electromedical Laboratory (DEBEL), DRDO, Bangalore, Jul 1, 2016.
- **Prof Vinod Chandra** delivered series of lectures on **Exploring the heart of the matter**: **the hottest and most fluid**, **liquid in nature at extreme temperature/energy density**, IPR colloquium, Institute of Plasma Research, Gandhinagar, Nov 9, 2016; **Strongly coupled matter in heavy-ion collisions**: **opportunities and challenges**, ICTS-TIFR Bangalore, Laser Plasma Acceleration 2017, Mar 14, 2017. Prof Chandra gave a talk during parallel session on **Momentum anisotropy**, **Chromo Weibel instability and QGP phenomenology**, **DAE-BRNS High Energy Physics**, Symposium 2016, Delhi University, Dec 12, 2016.
- **Prof Sameer V Dalvi** gave invited lectures on **LAS precipitation of curcumin and polymorphism aspects**, IIT Mandi, Jun 2016; **Particle formation and stability**, SVNIT Surat, Aug 2016; **Techniques for particle size reduction and precipitation**, Institute of Pharmacy, Nirma University, Sep 2016; Professional Development and Communications Workshop on **Way to successful submission of a manuscript**, IITGN, Oct 2016; Workshop on **Process Intensification Sonocrystallization**: **Use of Ultrasound in Crystallization**, SVNIT Surat, Feb 2017; Professional Development and Communications Workshop on **Way to successful submission of a manuscript**, IITGN, Mar 2017.
- **Prof Michel Danino** gave a talk on **Designing a civilization**, National Institute of Design, Gandhinagar, Apr 8, 2016; **Exploring India's heritage**, series of 8 lectures at Maharaja Ganga Singh University, Bikaner, Jul 26-29, 2016; **Recent findings in maritime archaeology along the Indian coast**, Maritime History Society, Mumbai, Sep 2, 2016; **The history of history of science in India**, Amrita University, Ettimadai, Coimbatore, Oct 2, 2016; **Integrating Indian knowledge systems in Indian education**, Janjivan Goshti Seminar, Chinmaya International Residential School, Coimbatore, Dec 7, 2016; **Restoring a lost river**, Kurukshetra University, Kurukshetra, Jan 29, 2017; **Relevance of Indian knowledge systems to a sustainable world**, Alumni Association of IIM

Ahmedabad, Mar 17, 2017; **An Indic model for the global future, alternative futures**, New Delhi, Mar 31, 2017.

- **Prof Anirban Dasgupta** delivered a tutorial on **Graph sampling** at International Conference on Management of Data (COMAD) 2017.
- **Prof Arnab Dutta** delivered an invited talk on **Bio-inspired catalyst design for the small molecule activation**, 5th Symposium on Advanced Biological Inorganic Chemistry, Kolkata, Jan 7-11, 2017.
- **Prof Atul Abhay Dixit** delivered a series of lectures on **New representations for σ(q) via reciprocity theorems**, 29th International Conference of Jangjeon Mathematical Society on **Number theory and special functions and its applications**, Pondicherry University, Aug 8-10, 2016; **Ramanujan**, **the Voronoi summation formula**, **the circle and divisor problems and modular transformations**, Tata Institute of Fundamental Research, Mumbai, Oct 3, 2016; **New representations for σ(q) via reciprocity theorems**, AMS Special Session on **Partition Theory and Related Topics**, Joint Mathematics Meeting, Atlanta, USA, Jan 4-7, 2017; **Transformations involving r_k(n) and Bessel functions**, Number Theory Seminar, University of Florida, Gainesville, Jan 10, 2017; **Transformations involving r_k(n) and Bessel functions**, Algebra and Number Theory Seminar, Penn State University, State College, Jan 12, 2017.
- **Prof Dinesh Garg** delivered an invited lecture on **Quadratic optimization in high dimensions** at the Research Opportunities in Computer Science (ROCS), IIT Gandhinagar, Feb 24, 2017; **Latent space embedding for QA retrieval,** UK-India Workshop on Data Science, IISc Bangalore, Feb 27, 2017. Prof Garg delivered an invited talk on **Sponsored search auctions** at the QIP short course on Algorithmic Game Theory and Mechanism Design, IISc Bangalore, Apr 14, 2017; **Computational market equilibrium** at the Workshop on Artificial Intelligence for Social Good on Apr 18, 2017.
- **Prof Nithin V George** delivered a series of lectures on **Making of a PhD in signal processing** at the Symposium on Signal Processing and Wireless Communication, Government Engineering College, Sreekrishnapuram, Palakkad, Kerala, Mar 10, 2017; **Alpha to delta of digital signal processing** at Symposium on Signal Processing, College of Engineering Kidangoor, Kerala, Mar 3, 2017; **Alpha to delta of digital signal processing** at the Marwadi University, Rajkot, Gujarat, Feb 18, 2017; **Nature inspired optimization techniques** at short term training programme on Machine Learning for Big Data Analytics, G H Patel College of Engineering, Anand, Gujarat, Nov 22, 2016; **Alpha to delta of digital signal processing** at short term training programme on Digital Image and Signal Processing, G H Patel College of Engineering, Anand, Gujarat, Nov 22, 2016; **Alpha to delta of digital signal processing** at the IEEE Solid-State Circuits Society, College of Engineering Chengannur, Kerala, Oct 4, 2016; **Fundamentals of adaptive signal processing** in a faculty development programme on **Research Topics in VLSI Devices**, **Circuits & Signal Processing**, TKM College of Engineering, Kollam, Kerala, Sep 29, 2016; **Adaptive nonlinear filters**: **applications in audio signal processing** in a short term training programme on Emerging Trends in Signal and Image Processing, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat, Sep 15, 2016; **Introduction to evolutionary computing and fuzzy logic** in a short term training programme on MATLAB and its Applications, BVM Engineering College, Anand, Gujarat, Jun 1, 2016; **Introduction to neural networks** in a short term training programme on MATLAB and its Applications, BVM Engineering College, Anand, Gujarat, May 28, 2016.
- **Prof Chinmay Ghoroi** delivered talks on **Thermokinetic analysis of surface coated CaCO3 with nano-TiO2 using Master Plot method**, International Confederation for Thermal Analysis Society (ICTAC), Orlando, Florida, USA, Aug 14-19, 2016; **Influence of nano and micron size additives towards stabilization of β-C2S phase through solid state reaction**, International Conference on Powder, Granule and Bulk Solids, Jaipur, Dec 1-3, 2016; **Presentation on IIT Gandhinagar Safety Centre** at Fire Protection Engineering, Worcester Polytechnic Institute, Nov 17, 2016; **Surface engineering of fine particles**: **improved processing of cohesive particulate solids** in Particle Engineering Research Center, University of Florida, Gainesville, USA, Aug 2016; **Handling cohesive fine powders and surface engineering of industrial particulate solids**, S V National Institute of Technology, Surat, Aug 3, 2016; **Surface engineering for industrial fine particles**, department seminar, BITS Pilani, Goa Campus, May 14, 2016.
- **Prof Sharad Gupta** delivered an invited lecture on **Tuning amyloid fibril morphologies via chemical modification of aggregation prone peptides and proteins**, 4th Soft Matter Young Investigators Meeting, Goa, Dec 17, 2016.
- **Prof Kabeer Jasuja** delivered lectures on **Nanoscaling layered metal diborides to yield boron based nanosheets analogous to chemically modified graphene**, Indo UK Workshop on Advanced Nanomaterials for Energy, Health, and Sustainability, IIT Mandi, Kamand, Himachal Pradesh, 2016; **Exfoliation of layered metal diborides to realize boron rich nanosheets analogous to chemically modified graphene**, **Graphene Symposium**, IIT Bombay, Mumbai, 2016; **Synthesis of 2D boron analogs of graphene**, Summer Institute Nanotechnology, IC-

IMPACTS, Edmonton, Canada, 2016.

- **Prof Sudhir K Jain** delivered a talk during the National Seminar on **Quality initiatives**: **gateways and pathways to institutional excellence**, Nirma University, Ahmedabad, Mar 3-4, 2017.
- **Prof Shivakumar Jolad** delivered an invited lecture on **Estimating reproduction number and spectral analysis of Dengue epidemic**, Statphys meeting, Kolkata, 2016.
- **Prof Mohan Joshi** delivered lectures on **Mathematical perspective of control theory**, Graphic Era University, Dehradun, Apr 28, 2016; **Eigenvalues and eigenvectors in action and dynamics of orbiting satellites**, IIST, Thiruvananthapuram, Dec 26-31, 2016.
- **Prof Sivapriya Kirubakaran** delivered invited lectures on First International symposium on **Cancer Therapeutics**, Funded by DBT, ICMR, Aruppukotai, Tamilnadu, Sep 2016; **Recent trends in Cancer Biology**, Nirma University, Jul 2016; **How can a chemist tackle biology**? Narsi Monji Institute of Pharmacy, Mumbai, Feb 22, 2017; **Kinase drug discovery**: **small-molecule inhibitors targeting RAS and tousled-like kinases**, **recent advances in drug discovery**, Institute of Pharmacy, Nirma University, Mar 24, 2017; **Towards novel kinase drug discovery**, Japan-India Symposium, JAIST, Ishikawa, Japan, Mar 6-8, 2017.
- **Prof Rita Kothari** delivered invited talks on **Dil se**: **love**, **negotiation and sexuality in Hindi film songs**, Azeem Premji University, Bangalore, Sep 11, 2016; **Writing/translating in a divided society**, Indian Institute for Human Settlements, Dec 21, 2016; **A multilingual nation and history of India through Bollywood** and **Scarred nations**: **partition in the Indian subcontinent,** Michigan State University, USA, Feb 27-28 and Mar 1, 2017. Prof Kothari was invited to deliver a talk on **After the divide**: **language**, **power and exile** at the Ideas from India Conclave, SARI, Australian National University, Nov 10-11, 2016.
- **Prof Manish Kumar** delivered invited lectures on **Scientific and technological aspects of disaster mitigation**, Exercise Sahayata, Air Force Station, Chiloda, Sep 14, 2016; **Application of steel in structures**, Gujarat Institute of Civil Engineers and Architects, Vizag Steel, Nov 26, 2016; **A perspective on low-cost housing**, Sardar Vallabhbhai National Institute of Technology Surat, Dec 22, 2016.
- **Dr T S Kumbar**, Librarian, delivered a series of talks on **International ETD programs/projects**: **an overview**, in the three-day National Conference on Electronic Theses and Dissertations (iETD 2016) on the theme Evolving ETDs to Knowledge Repositories, INFLIBNET Centre, Gandhinagar Oct 5-7, 2016; **Reference management systems**: **an overview**, in the Research Orientation Programme (ROP 2016), Academic Development and Research (ADR) Cell, Nirma University, Jun 8-16, 2016; **What is plagiarism and how to avoid it**, in the Faculty Training Programme on Honing Research Publication Skills, Academic Development & Research (ADR) Cell, Nirma University, Ahmedabad, Oct 7-8, 2016; **Technology and Today's Libraries**, in the National Conference on Enhancing the role of the Library in Teaching and Learning organized by SNDT University, Pune Campus, Pune, Jan 24-25, 2017.
- **Prof Uttama Lahiri** delivered talks on **Signal processing techniques in design of gaze-based prognostic tool and virtual reality based rehabilitation platform for patients with neurological disorders** on Oct 20, 2016 at the National Seminar on New Trends in Signal Processing (NeTSiP-2016 jointly hosted by Sardar Vallabhbhai National Institute of Technology (SVNIT) and Sarvajanik College of Engineering and Technology (SCET), Surat under the SPS Chapter of IEEE Gujarat Section.
- **Prof Sharmistha Majumdar** was invited speaker and presented a poster at the **8th Young Investigators' Meeting** (YIM) 2016, India Bioscience, NCBS, Gurgaon, Feb 27-Mar 2, 2016; Department of Biological Sciences, TIFR, Mumbai, Aug 2016; 6th Meeting of The Asian Forum of Chromosome and Chromatin Biology, Centre for Cellular and Molecular Biology (CCMB), Hyderabad, Mar 3-5, 2017.
- **Prof Sairam Mallajosyula** delivered a talk on **Perturbation of long-range water dynamics as the mechanism for the antifreeze activity of antifreeze glycoprotein**, Theoretical Chemistry Symposium, Hyderabad Central University, Hyderabad, Dec 2016.
- **Prof Angus McBlane** delivered an invited talk on **Body**, **brain**, **flesh - Merleau-Ponty on the problem of consciousness**: **the problem of consciousness and the brain/brahman dichotomy**, Shri Mata Vaishno Devi University, Katra, Jammu, Feb 27-28, 2017. He also delivered an invited lecture on **Bespoken death and the exigency of life**: **onescha-ontology**, The enigma of nature/The enigma of the non-human, Balvant Parekh Centre for General Semantics and Other Human Sciences, IIT Gandhinagar, Jan 27-28, 2017.
- **Prof Joycee Mekie** delivered an expert talk on **Internet of things (IoT) using Intel Galileo**, in the National Workshop on Research Trends in Engineering and Technology, BVM Engineering College, Vidyanagar, Gujarat, Aug 22-23, 2016.
- **Prof Neeldhara Misra** delivered a talk on **Efficient algorithms for hard problems on structured electorates**, **the pre-FSTTCS**, Workshop on Rangoli of Algorithms, Dec 11, 2016; **Linear algebra methods in combinatorics**, the IWM Regional Workshop on Research and Career Opportunities in Mathematics, Dec 21, 2016.

- **Prof Krishna Prasad Miyapuram** delivered invited talk on Cognitive Aspects of Road Traffic Users, co-organized with **Prof Amit Sheth**, visiting faculty, IIT Gandhingar, Technical Session titled **Transport and Road Safety**, Urban Mobility India Conference, Mahatma Mandir, Gandhinagar, Nov 11, 2016; **Computational methods in Brain Imagingat Research Trends in Engineering and Technology**, BVM College of Engineering, Vallabh Vidyanagar, Aug 23, 2016; **New Developments in Artificial Intelligence**, 7th National Conference on Emerging Vistas of Technology in 21st Century-2016, Parul Univeristy, Apr 9, 2016; **Pattern recognition using machine learning**, National Conference on Emerging Research Trends in Engineering (NCERTE – Apr 5, 2016), VGEC, Ahmedabad
- **Prof Pranab Mohapatra** gave talks on **Dam break flow**, Technical symposium, Silver Oak College, Dec 22, 2016; **Research needs in water resources engineering**, National Seminar on Sustainability of Water Resources for Inclusive Growth, Gandhinagar, Jan 2, 2017; **River Health**, CWC, Gandhinagar, Mar 31, 2017.
- **Prof Pratik Mutha** delivered invited lectures at **Brain**, **Computation and Learning Workshop**, IISc Bangalore, Jan 2017; Department of Cognitive Science, Central European University, Budapest, Sep 2016; 4th Bangalore Cognition Workshop, IISc Bangalore, Jul 2016; National Association of Psychology Conference, University of Allahabad, Feb 2016; International Seminar on Medi-Engineering, D Y Patil Institute of Engineering and Technology, Pune, Feb 2016; International Conference on Cognition, Brain and Computation, IIT Gandhinagar, Dec 2015.
- **Prof Naran M Pindoriya** delivered invited talks on **Smart distribution grid in India – path towards efficient and environmentally sustainable electricity** in STTP at ADIT, Vallabh Vidyanagar, Mar 8, 2017; **Indian electricity market and smart distribution grid – towards efficient electricity management**, Navrachana University, Vadodara, Jan 28, 2017.
- **Prof Pedro Pombo** delivered invited lectures on **Possibilities of mapping Mozambiquein Diu**: **narratives**, **places and senses of belonging across the Indian Ocean**, International congress Diu and the Diuese: Multidisciplinary Perspectives, ISCTE-IUL and FLUL, Lisbon, Oct 27-28, 2016; **Stereos**, **words in the wall and a Woolworths reed kitchen**. **Traces of emigration in South Mozambique**, International Conference Circulations: the (un) making of Southern Africa beyond and across borders, WiSER, Wits University, Johannesburg, Nov 4-6, 2016. Prof Pombo was a member of a roundtable discussion titled **Can heritage be managed?** Centre for Heritage Management, Ahmedabad University, Mar 30, 2017.
- **Prof D V Pai** delivered gave a presidential address (non-technical) on **Road to mathematical sciences in India-a relook**, and another presidential address (technical) on **Some highlights of our research contributions** at the 82nd Annual Conference of the Indian Mathematical Society, University of Kalyani, Kalyani, Nadia, West Bengal, Dec 27, 2016.
- **Prof Tannistha Samanta** delivered an invited lecture on **Mixed methods research**, Faculty of Technology, Center for Environmental Planning & Technology, Nov 9-16, 2016.
- **Prof Dilip Srinivas Sundaram** delivered a lecture on **Developing classical perspective of entropy**: **the 2nd law of thermodynamics** for the Summer School on Thermodynamics under TEQIP-II Initiative (MHRD, Government of Gujarat), IIT Gandhinagar, Jun 28, 2016.
- **Prof Meera Mary Sunny** delivered an invited talk on **Attention capture**: **how action determines salience of features**, 4th Bangalore Cognition workshop, Indian Institute of Science, Bangalore, Jun 24, 2016.
- **Prof Vijay Thiruvenkatam** delivered invited lectures at the **1st International Symposium on Cancer Therapeutics**, funded by DBT, ICMR, Aruppukotai, Tamilnadu, Sep 2016; **Crystallography in Drug discovery**, Narsi Monji Institute of Pharmacy, Mumbai, Feb 22, 2017.
- **Prof Vineet Vashista** delivered a keynote lecture on **Human-centered robotics**, IITRAM, Ahmedabad, Feb 28, 2017. He gave a tutorial session on **Cable driven robots** at International Conference on Robotics and Automation for Humanitarian Applications (RAHA), Amrita University, Kerala, Dec 17, 2016. Prof Vashista was keynote speaker on **Research trends in robotics** at the Short-term Training Programme, G H Patel College of Engineering and Technology, Dec 5, 2016; **Making machines smarter**: **robotics/machine learning**, National Summit on Innovation and Technology (NSIT), Gandhinagar, Oct 1, 2016.

OTHER FACULTY ACTIVITIES

- **Prof Rupak Banerjee** represented the Physics discipline on the Faculty Recruitment Committee. He was also a board member for the Inter-IIT Sports Meet at IIT Kanpur.
- **Prof Vinod Chandra** was the IITGN-PRL coordinator to help in academic association with Physical Research Laboratory, Ahmedabad. He was also a member of the Record Verification Committee for the graduating batch of 2016; Member of Screening Committee. He organized the SERC Preparatory School in Theoretical High Energy Physics, at IIT Gandhinagar, Sep-Oct 2016.
- **Prof Pratyush Dayal** in partnership with **Prof Ravi Hegde**, **Prof Gaurav Srivastava**, **Mr Sudeep N Banerjee** and the ISTF staff, organized a summer school on **Parallel Computing** under

the TEQIP initiative Jun 20 - 2 Jul, 2016; Cloud computing workshop for GEC Gandhinagar, with **Prof Shanmuganathan Raman**, **Prof Anirban Dasgupta**, **Mr Sudeep N Banerjee** and ISTF staff; Organized International conference ChEmference 2016 with **Prof Nitin Padhiyar** and **Prof Atul Bhargav**, Dec 3-4, 2016.

- **Prof Atul Abhay Dixit** was one of the organizers of the **Mathegon 2017**, National Mathematics Day, held at IIT Gandhinagar, Jan 2, 2017. He also delivered a public talk on **The beauty of Ramanujan's Mathematics** at the event.
- **Prof Chinmay Ghoroi** organized the **International Conference on Safety 2017** during Jan 3-6, 2017 and the Workshop on **Fire Forensics**, Dec 5-10, 2016 at IIT Gandhinagar.
- **Prof Dinesh Garg** organized aTEQIP Symposium on **Data Science and Machine Learning**, IIT Gandhinagar, Oct 24-25, 2016.
- **Prof Nithin V George** was the member of the IIT delegation to United Arab Emirates for promoting Indian Higher Education, JEE 2017 and GATE 2017, Sep 2016. Prof George was the coordinator of Electrical Sciences Conclave, TEQIP, IITGN, Sep 24-25, 2016. He also conducted a short course on **Applied Digital Signal Processing**, TEQIP, IITGN, Dec 6-9, 2016, and another short course on **Writing academic publications**, TEQIP, IITGN, Mar 16-18, 2017.
- **Prof Kabeer Jasuja** was the coordinator of Professional Development and Communication Workshop, TEQIP-II Initiative, IITGN, Oct 17-22, 2016; Summer School on Engineering Thermodynamics under TEQIP-II Initiative, IITGN, Jun 20-Jul 2, 2016.
- **Prof Shivakumar Jolad** organized a workshop on **Reflections on six years of Right to Education Act – 2009** at IIT Gandhinagar during Jul 22- 23, 2016. He was also involved in the IITGN-JPAL short course on **Human Development and Public Policy- March 2017**.
- **Prof Sivapriya Kirubakaran** organized a national symposium on Chemistry of Light and Medicine, Dec 2016; **Design and synthesis of small molecule kinase inhibitors for RAS** presented at National Seminar on Recent Advances in Drug Discovery-2016, Department of Pharmaceutical Chemistry, Institute of Pharmacy, Nirma University, Gandhinagar, Apr 1, 2016; **Studies on Inositol based small molecules inhibitors for RAS**, Indo-German Workshop on Recent Applications of Carbohydrates in Chemistry and Biology (RACCB-2017), IIT BHU, Varanasi, Feb 14-16, 2017; **MPDH as a therapeutic target against Hpylori infection** presented at National Conference on Chemistry of Light and Medicine 2016, IIT Gandhinagar, Dec 8-9, 2016.
- **Prof Uttama Lahiri** is currently the coordinator of the Center for Biomedical Engineering at IITGN and the nodal officer for the Visvesvaraya PhD Scheme.
- **Prof Joycee Mekie** organized a 10-day workshop on **Asynchronous and synchronous approaches to network-on-chip (NoC) architecture design**, Jun 8-18, 2016as part of the Global Academic Networks Initiative (GIAN) scheme of the Ministry of Human Resources and Development (MHRD). The workshop was conducted by Prof Peter A Beerel from University of Southern California, USA. She also organized a workshop on **SMDP-C2SD: Synopsys EDA tools training** from conducted by Synopsys, Dec 13-17, 2016.
- **Prof Pranab Kumar Mohapatra** was the coordinator of Unnat Bharat Abhiyan: IIT Gandhinagar has adopted 5 villages (Pasuniya, Pallano Math, Mirapur, Demaliya, Chamla) under Dehgam, Gandhinagar. A detailed survey for the villages and individual families has been performed. A village development plan is under process.
- **Prof Pedro Pombo** organized various lectures onInter/Sections talk **Film poster as public: the case of Dostana**, Prof Niladri Chatterjee, IITGN, Mar 31, 2017; **The Seed and the Field**, Prof William Robert da Silva, IITGN, Nov 22, 2016; **Possibilities of reconciliation**, **film screening and debate** with Prof Rajmohan Gandhi and Prof K Chelvakumar, IITGN, Apr 4, 2016. Prof Pombo also organized Heritage Film Festival at IITGN, Nov 20, 2016. He is also a Visiting Faculty at NID Gandhinagar.
- **Prof Madhumita Sengupta** spent time at the Max Planck Institute for Ethnic and Religious Studies, Gottingen as Visiting Scholar during May-June 2016.
- **Prof Vijay Thiruvenkatam** is in-charge of the Central Instrumentation Facility (CIF) at IIT Gandhinagar.
- **Prof Ravi Sastri Ayyagari Venkata** has been serving as the coordinator of the weekly faculty seminars at IIT Gandhinagar.
- **Prof Vineet Vashista** was one of the coordinators of 5thedition of the Summer Internship Research Program (SRIP) 2016 and the TEQIP symposium on Control Systems and Applications, Oct 26-27, 2016.
- **Prof Tannistha Samanta**, **Prof Shivakumar Jolad**, **Prof Malavaika Subramanyam** and **Mukta Gundi** authored District Human Development Report-Ahmedabad for Gujarat Social Infrastructure Development Society, Government of Gujarat, Sep 2016.

PUBLICATIONS

Document Types	Total
Book Chapters	14
Books	3
Books Edited	1
Editorials	1
E-Print Archives	73
Exhibitions	1
Journal Papers	232
Magazine/Newspaper Articles	19
Others	1
Papers Presented at Conferences	161
Patents	6
Posters Presented	53
Reports	1
Reviews	4
Total	**570**

ARCHAEOLOGY

JOURNAL PAPERS

Vinod, V #and Pillai, Athira R, "Iron age in Kerala: a short summary", *ICON: Journal of Archaeology and Culture,* vol 3, pp 99-109, Aug 2016

EXHIBITIONS

Title: Exhibition on Naga Archival Documentation
By: **Alok Kumar Kanungo**
Event: Hornbill Festival 2016
Date: 01/12/2016 to 10/12/2016
Location: Kohima, Nagaland

BOOKS

Kanungo, Alok Kumar, *German anthropologists on the Naga hills: an annotated bibliography of German literature on the Nagas*, Kohima: Department of Art andCulture, Nagaland Govt, 2016, ISBN: 9789380500263

BIOLOGICAL ENGINEERING

BOOK CHAPTERS

Kirubakaran, Sivapriya and **Thiruvenkatam, Vijay**, "Diverse applications of nanotechnology in Biomedicine, Chemistry, and Engineering", in *Oncology: Breakthroughs in Research and Practice*, DOI: 10.4018/978-1-5225-0549-5.ch011, IGI Global, 2017, pp 342-351, ISBN: 9781522505495

JOURNAL PAPERS

Chilka, Pallavi*; **Reddy Patlolla, Prathap*** and **Datta, Bhaskar**, "Selective recognition of G-Quadruplexes by a dimeric carbocyanine dye", *RSC Advances,* DOI: 10.1039/C6RA05474A, vol 6, no 90, pp 87400-87404, Sep 2016

Kumar, Sanjay*; **Sharma, Pramila#**; **Ratrey, Poonam*** and **Datta, Bhaskar**, "Reusable nanobiocatalysts for the efficient extraction of pigments from orange peel", *Journal of Food Science and Technology,* DOI: 10.1007/s13197-016-2272-2, vol 53, no 7, pp 3013-3019, Jul 2016

Mutha, Pratik K; Stapp, L H; Sainburg, R L and Haaland, K Y, "Motor adaptation deficits in Ideomotor Apraxia", *Journal of the International Neuropsychological Society,* DOI: 10.1017/S135561771600120X, vol 23, no 2, pp 139-149, Feb 2017

Nair, Divya N#; **Singh, Vijay#**; **Angira, Deekshi***and **Thiruvenkatam, Vijay**, "Structural investigation and in-silico characterization of Plasmepsins from Plasmodium falciparum", *Journal of Proteomics andBioinformatics,* DOI: 10.4172/jpb.1000405, vol 9, no 7, pp 181-194, Jul 2016

Purushothaman, Gayathri*and **Thiruvenkatam, Vijay**, "Analysis of intermolecular interactions in 2,3,5 Trisubstituted Pyrazoles derivatives: insights into crystal structures, Gaussian B3LYP/6-311G (d,p), PIXELC and Hirshfeld surface", *Journal of Chemical Crystallography,* DOI: 10.1007/s10870-016-0667-6, vol 46, no 8, pp 371-386, Sep 2016

Purushothaman, Gayathri*; **Juvale, Kapil***; **Kirubakaran, Sivapriya**; Vemula, P K and **Thiruvenkatam, Vijay**, "Water-mediated intermolecular interactions in 1,2-O-cyclohexylidene-myo-inositol: a quantitative analysis", *Acta Crystallographica Section C: Structural Chemistry,* DOI: 10.1107/S2053229616018581, vol 73, no 1, pp 20-27, Jan 2017

Sainburg, Robert L and **Mutha, Pratik K**, "Error detection is critical for visual-motor corrections", *Motor Control,* DOI: 10.1123/mc.2015-0022, vol 20, no 2, pp 187-194, Apr 2016

Shaik, Althaf*; **Kirubakaran, Sivapriya** and **Thiruvenkatam, Vijay**, "Crystal structure and Hirshfeld surface analysis of ethyl 5-phenylisoxazole-3-carboxylate", *Acta Crystallographica Section E: Crystallographic Communications*, DOI: 10.1107/S2056989017003127, vol 73, no 4, pp 531-534, 2017

Yadav, Goldy* and **Mutha, Pratik K**, "Deep breathing practice facilitates retention of newly learned motor skills", *Scientific Reports,* DOI: 10.1038/srep37069, vol 6, Nov 2016

PATENTS

Datta, Bhaskar; **Kumar, Sanjay***; and **Sharma, Pramila#**, "Detection of organophosphorus herbicides", *Indian Patent Office*, Patent Application No.: 201621013049, Apr 13, 2016

Kirubakaran, Sivapriya; **Thiruvenkatam, Vijay**; **Juvale, Kapil***; **Singh, Vijay#**; **Purushothaman, Gayathri*** and **Shaik, Althaf***, "Novel compound for treating H pylori infection and related gastric cancer: pharmaceutical composition and process for preparing the same", *Indian Patent Office*, Patent Application No.: 201621024723, Jul 19, 2016

Kirubakaran, Sivapriya; **Thiruvenkatam, Vijay**; **Shaik, Althaf*** and **Bhakuni, Rashmi***, "Substituted 1,2-Dihydro-3h-Pyrazolo[4,3-C] Quinolin-3-One as ATR kinase inhibitors", *Indian Patent Office*, Patent Application No.: 201621026397, Aug 2, 2016

BOOK CHAPTERS

Sainburg, Robert L and **Mutha, Pratik K** "Movement neuroscience foundations of neurorehabilitation", *Neurorehabilitation Technology*,

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

DOI: 10.1007/978-3-319-28603-7_2, New York, US: Springer International Publishing, 2016, pp 19-38, ISBN: 978-3-319-28601-3

PAPERS PRESENTED AT CONFERENCES

Gupta, Sharad; **Guru, KrishnaKumar Viswanathan*** and **Ralhan, Krittika***, "Controlling post translational modifications to modulate tau aggregation: a toolbox approach", *46th Annual Meeting of the Society for Neuroscience, Neuroscience 2016*, San Diego Convention Center, San Diego, US, Nov 12-16, 2016

Kumar, Sanjay* and **Datta, Bhaskar**, "Reusable nanobiocatalyst for the efficient extraction of carotenoids from orange peel", *2016 Summer Institute*, IC-IMPACT at University of Alberta, Edmonton, CA, May 29 – Jun 3, 2016

Shaik, Althaf*; **Kirubakaran, Sivapriya** and **Thiruvenkatam, Vijay**, "Crystalline polymorphs of Diethyl 2-(((4-bromophenyl) amino) methylene) malonate: a detailed study", *2nd International Conference on Materials Science and Technology (ICMST-2016),* St Thomas College Pala, Kottayam, IN, Jun 5-8, 2016

POSTERS PRESENTED

Angira, Deekshi*; **Shaik, Althaf***; **Kirubakaran, Sivapriya** and **Thiruvenkatam, Vijay**, "Conformational and pseudo polymorphs of Gefitinib: acomparative study", *20th CRSI National Symposium in Chemistry and 11th CRSI-RSC Symposium,* Gauhati University, Assam, IN, Feb 2-5, 2017

Bhakuni, Rashmi*; **Behel, Vichitra***; **Thiruvenkatam, Vijay** and **Kirubakaran, Sivapriya,** "ATR and ATM: key regulators of genome integrity", *National Conference on Chemistry of Light and Medicine 2016,* Indian Institute of Technology Gandhinagar, IN, Dec 8-9, 2016

Bhakuni, Rashmi*; **Shaik, Althaf***; **Barui, Sugata#**; **Thiruvenkatam, Vijay** and **Kirubakaran, Sivapriya**, "Targeting ATR knase to improve DNA damage therapies in cancer treatment", *20thCRSI National Symposium in Chemistry and 11th CRSI-RSC Symposium,* Gauhati University, Assam, IN, Feb 2-5, 2017

Bhoir, Siddhant*; **Hussain, Javeena*** and **Kirubakaran, Sivapriya,** "Unravelling the mystery of human tousled-like kinases in cancer", *National Conference on Chemistry of Light and Medicine 2016,* Indian Institute of Technology Gandhinagar, IN, Dec 8-9, 2016

Guru, Krishnakumar Vishvanathan*; **Baweja, Lokesh#**; Raghavan, R Vijaya; **Ralhan, Krittika***; Sivakumar, D; **Gupta, Sharad** and Kirubagaran, R, "High throughput screening of peptidomimetic small molecule inhibitors for tau protein fibrillization", *National Conference on Recent Trends in Biotechnology (BioTrends-2016) and Annual Meet of the Society for Biotechnologists(India)*, National Institute of Ocean Technology (NIOT), Chennai, IN, Oct 19-21, 2016

Guru, KrishnaKumar Viswanathan* and **Gupta, Sharad**, "Charge interplay in tau fibrillization: a mechanistic insight", *46thAnnual Meeting of the Society for Neuroscience, Neuroscience 2016*, San Diego Convention Center, San Diego, US, Nov 12-16, 2016

Hussain, Javeena*; **Bhoir, Siddhant*** and **Kirubakaran, Sivapriya**, "Targeting oncogenic ras: the quest for the holy grail in cancer drug discovery", *8th RBF International Symposium on Advances in New Drug Discovery and Development*, Zydus Research Centre, Ahmedabad, IN, Feb 2-4, 2017

Juvale, Kapil*; **Thiruvenkatam, Vijay** and **Kirubakaran, Sivapriya**, "Inosine-5′-monophosphate dehydrogenase: a new approach for treating drug-resistant Helicobacter pylori infection", *19th CRSI National Symposium in Chemistry (CRSI NSC-19) andCRSI-GDch Angewandte Symposium,* North Bengal University, Darjeeling, IN, Jul 13-16, 2016

Natarajan, Nalini* and **Thiruvenkatam, Vijay**, "Studying interactions of hamartin and tuberin at the molecular level", *National Conference on Chemistry of Light and Medicine 2016,* Indian Institute of Technology Gandhinagar, IN, Dec 8-9, 2016

Natarajan, Nalini* and **Thiruvenkatam, Vijay**, "Structural aspects of TSC1/2 complex, a molecular switch controlling various cell signaling pathways", *8th RBF International Symposium on Advances in New Drug Discovery and Development 2017,* Zydus Research Centre, Gujarat, IN, Feb 2-4, 2017

Patel, Divyesh*; **Patel, Manthan***; **Agrawal, Prasoon#**and **Singh, Umashankar**, "CGGBP1-CTCF dynamics in regulation of insulator activity", *6thAsian Chromatin Meeting*, Centre for Cellular and Molecular Biology, Hyderabad, IN, Mar 3-5, 2017

Patel, Divyesh*; **Patel, Manthan***; **Agrawal, Prasoon#** and **Singh, Umashankar**, "CGGBP1-CTCF dynamics in regulation of insulator activity", *40th All India Cell Biology Conference and International Symposium on Functional Genomics and Epigenomics*, Jiwaji University, Gwalior, IN, Nov 17-19, 2016

Patel, Manthan*; **Patel, Divyesh***; **Agrawal, Prasoon#** and **Singh, Umashankar**, "GENOME-wide methylation regulation by CGGBP1", *6thAsian Chromatin Meeting*, Centre for Cellular and Molecular Biology, Hyderabad, IN, Mar 3-5, 2017

Patel, Manthan*; **Patel, Divyesh***; **Agrawal, Prasoon#**and **Singh, Umashankar**, "GENOME-wide methylation regulation by CGGBP1", *40thAll India Cell Biology Conference and International Symposium on Functional Genomics and Epigenomics*, Jiwaji University, Gwalior, IN, Nov 17-19, 2016

Patel, Nishaben*; **Mayya, Chaithra*** and **Soppina, Virupakshi**, "Identifying the evolutionary modifications of superprocessivity in kinesin-3 motors", *International Symposium on Computational and Experimental Studies of Microtubules and Microtubule-based Motor Proteins*, Indian Institute of Technology Bombay, IN, Dec 14, 2016

Purushothaman, Gayathri* and **Thiruvenkatam, Vijay**, "Examination of intermolecular interactions in 2,3,5 trisubstituted pyrazole derivatives by experimental and theoretical methods", *2nd International Conference on Materials Science and Technology(ICMST-2016),* St Thomas College Pala, Kottayam, IN, Jun 5-8, 2016

Purushothaman, Gayathri*; **Sharma, Gaurav***; **Menon, Aishwarya***; **Juvale, Kapil***; **Thiruvenkatam, Vijay** and **Kirubakaran Sivapriya**, "IMPDH as a therapeutic target against H pylori infection", *National Conference on Chemistry of Light and Medicine 2016,* Indian Institute of Technology Gandhinagar, IN, Dec 8-9, 2016

Purushothaman, Gayathri* and **Thiruvenkatam, Vijay**, "Structural and functional characterization of membrane protein CD-151 via X-Ray crystallography", *8th RBF International Symposium on Advances in New Drug Discovery and Development 2017,* Zydus Research Centre, Gujarat, IN, Feb 2-4, 2017

Ralhan, Krittika*and **Gupta, Sharad**, "Piperazine and DBU: a more effective reagent for homo-polypeptide synthesis", *Indian Peptide Symposium*, Homi Bhabha Centre for Science Education (HBCSE), Mumbai, IN, Feb 23-24, 2017

Rao, Nishant#; **Kumar, Neeraj#** and **Mutha, Pratik**, "Selective suppression of adaptation to motor errors irrelevant to task success", *5th International Scientific Conference Motor Control 2016,* Wisla, PL, Sep 14-16, 2016

Ratrey, Poonam* and **Datta, Bhaskar**, "Synthesis and characterization of dopamine modified iron oxide nanoparticles for biological applications", *International Conference on Advances in Biological Systems and Materials Science in Nanoworld (ABSMSNW-2017)*, IIT-BHU, Varanasi, IN, Feb 19-23, 2017

Shaik, Althaf*; **Thiruvenkatam, Vijay** and **Kirubakaran, Sivapriya**, "Development of selective inhibitors for ATR : an adjuvant for DNA damage based cancer chemotherapeutics", *19th CRSI National Symposium in Chemistry (CRSI NSC-19) andCRSI-GDch Angewandte Symposium,* North Bengal University, Darjeeling, IN, Jul 13-16, 2016

Shaik, Althaf*; **R, Srimadhavi***; **Kirubakaran, Sivapriya** and **Thiruvenkatam, Vijay**, "Packing polymorphs of 4H-pyrido[1,2-a] pyrimidin-4-one derivative, a drug intermediate with anti-proliferative property - a qualitative analysis", *National Conference on Chemistry of Light and Medicine 2016,* Indian Institute of Technology Gandhinagar, IN, Dec 8-9, 2016

MAGAZINE/NEWSPAPER ARTICLES

Srivastav, Apeksha*, "To achieve global ranking, government must focus on research in educational institutes", *The Indian Express,* Mar 20, 2017

CHEMICAL ENGINEERING

BOOK CHAPTERS

Tiwari, Sarojini* and **Srinivasan, Babji**, "Water conservation, re-use and challenges: a case study performed at Amul dairy", *The Water-Food-Energy Nexus: Processes, Technologies and Challenges*, CRC Press, 2017, ISBN: 9781498760836

EDITORIALS

Srinivasan, Rajagopalan and **Ghoroi, Chinmay**, "Special issue - Selected papers from the international conference on Safety, 2014 - commemorating the 30th anniversary of the Bhopal gas disaster", *Journal of Loss Prevention in the Process Industries,* DOI: 10.1016/j.jlp.2016.04.005, vol 42, pp 1, Jul 2016

JOURNAL PAPERS

Das, Laya*; Rengaswamy, Raghunathan and **Srinivasan, Babji,** "Data Mining and Control Loop Performance Assessment: The Multivariate Case", *Process Systems Engineering,* DOI: 10.1002/aic.15689, vol 6, no 8, pp 3311-3328, Mar 2017

Ghatage, Swapnil V*; Khan, Md Shakhaoath; Peng, Zhengbiao; Doroodchi, Elham; Moghtaderi, Behdad; **Padhiyar, Nitin**; **Joshi, Jyeshtharaj B*** and Evans, G M, "Settling/rising of a foreign particle in solid-liquid fluidized beds: application of dynamic mesh technique", *Chemical Engineering Science,* DOI: 10.1016/j.ces.2017.01.064, Feb 2017

James, Asha Liza* and **Jasuja, Kabeer**, "Chelation assisted exfoliation of layered borides towards synthesizing boron based nanosheets", *RSC Advances*, DOI: 10.1039/C6RA26658D, vol 7, no 4, pp 1905-1914, Jan 2017

Kalaga, Dinesh V*; Yadav, Ashutosh; Goswami, Sunil; Bhusare, Vishal; Pant, Harish J; **Dalvi, Sameer V**; Joshi, Jyeshtharaj B and Roy, Shantanu, "Comparative analysis of liquid hydrodynamics in a co-current flow-through bubble column with densely packed internals via radiotracing and Radioactive Particle Tracking (RPT)", *Chemical Engineering Science,* DOI: 10.1016/j.ces.2017.02.022, Feb 2017

Karde, Vikram*; **Dixit, Deepa*** and **Ghoroi, Chinmay**, "Adhesion force approximation at varying consolidation stresses for fine powder under humid conditions", *Advanced Powder Technology,* DOI: 10.1016/j.apt.2016.09.023, vol 28, no 2, pp 346-355, Feb 2017

Kodappully, Madhu*; **Srinivasan, Babji** and **Srinivasan, Rajagopalan**, "Towards predicting human error: eye gaze analysis for identification of cognitive steps performed by control room operators", *Journal of Loss Prevention in the Process Industries,* DOI: 10.1016/j.jlp.2015.07.001, vol 42, pp 35-46, Jul 2016

Kulkarni, Siddharth*; **Verma, Ankita***; **Mishra, Nidhi S*** and **Thareja, Prachi**, "Partitioning and self assembly of silica and hematite particles at grain boundaries of hexagonal liquid crystals: implications on rheology", *Journal of Rheology,* DOI: 10.1122/1.4975333, vol 61, no 2, pp 311-325, Mar 2017

Kulkarni, Siddharth* and **Thareja, Prachi**, "Surfactant induced interfacial anchoring transitions in nematic liquid crystal droplets on glass surfaces", *Surface Review and Letters,* DOI: 10.1142/S0218625X17500445, vol 24, no 4, Aug 2016

Kumar, Saket* and **Thareja, Prachi**, "Influence of electric field and shear on the rheology of fumed alumina in silicone oil suspensions", *Colloids and Surfaces A: Physicochemical and Engineering Aspects,* DOI: 10.1016/j.colsurfa.2016.10.006, vol 511, pp 339-350, Oct 2016

Maiti, Sanat Chandra* and **Ghoroi, Chinmay**, "Thermo-kinetic analysis of Ni-Al intermetallic phase formation in powder system: a case of complex solid-solid reactions", *Journal of Thermal Analysis and Calorimetry*, DOI: 10.1007/s10973-015-5171-2, vol 124, no 2, pp 1039-1051, May 2016

Modak, Shrikant*; **Krishnakumar, Guru V***; **Gupta, Sharad** and **Thareja, Prachi**, "Influence of phosphorylation on the foamability and stability of bovine serum albumin and citrus peel pectin mixed foams", Journal of Dispersion Science and Technology, DOI: 10.1080/01932691.2016.1234382, vol 38, no 9, pp 1266-1275, Sep 2016

Patel, Narendra* and **Padhiyar, Nitin**, "Multi-objective dynamic optimization study of fed-batch bio-reactor", *Chemical Engineering Research and Design,* DOI: 10.1016/j.cherd.2017.01.002, vol 119, pp 160-170, Mar 2017

Rane, Kaustubh and van der Vegt, Nico F A, "Using grand canonical Monte Carlo simulations to understand the role of interfacial fluctuations on solvation at the water-vapor interface", *The Journal of Physical Chemistry B,* DOI: 10.1021/acs.jpcb.6b05237, vol 120, no 36, pp 9697-9707, Sep 2016

Rathi, Preeti*; **Bhumireddy, Shanmukha Manoj***; Nandola, Naresh; Harjunkoski, Iiro and **Srinivasan, Rajagopalan**, "Integrating production control and scheduling in multi-site enterprises based on real-time detection of divergence", *Industrial & Engineering Chemistry Research,* DOI: 10.1021/acs.iecr.5b04626, vol 55, no 19, pp 5681-5695, May 2016

Sengupta, Anandita#; Bandyopadhyay, Debanjan; Roy, Sandip; van Westen, Cees J and van der Veen, Anne, "Challenges for introducing risk assessment into land use planning decisions in an Indian context", *Journal of Loss Prevention in the Process Industries,* DOI: 10.1016/j.jlp.2015.10.007, vol 42, pp 14-26, Jul 2016

Spinner, Tim; **Srinivasan, Babji** and Rengaswamy, Raghunathan, "Optimal back-off point determination and controller weight selection for multivariate systems under finite-horizon control", *Journal of Process Control*, DOI: 10.1016/j.jprocont.2016.01.008, vol 40, pp 134-145, Apr 2016

Spinner, Tim; **Srinivasan, Babji** and Rengaswamy, Raghunathan, "On the detection of valve nonlinearities in otherwise linear closed-loop systems", *IEEE Transactions on Automatic Control*, DOI: 10.1109/TAC.2016.2592690, vol 62, no 2, pp 955-960, Feb 2017

Thorat, Alpana A* and **Dalvi, Sameer V**, "Ultrasound-assisted modulation of concomitant polymorphism of curcumin during liquid antisolvent precipitation", *Ultrasonics Sonochemistry,* DOI: 10.1016/j.ultsonch.2015.11.025, vol 30, pp 35-43, May 2016

Upadhyay, Awaneesh*; **Dalvi, Sameer V**; **Gupta, Gaurav*** and **Khanna, Nitin**, "Effect of PEGylation on performance of protein microbubbles and its comparison with lipid microbubbles", *Materials Science and Engineering: C,* DOI: 10.1016/j.msec.2016.10.021, vol 71, pp 425-430, Feb 2017

Lytle, Tyler K; **Radhakrishna, Mithun** and Sing, Charles E, "High charge density coacervate assembly via hybrid monte carlo single chain in mean field theory", *Macromolecules,* DOI: 10.1021/acs.macromol.6b02159, vol 49, no 24, pp 9693-9705, Dec 2016

Markana, Anilkumar; **Padhiyar, Nitin** and Moudgalya, Kannan, "Lexicographic optimization based MPC: simulation and experimental study", *Computers and Chemical Engineering,* DOI: 10.1016/j.compchemeng.2016.02.002, vol 88, pp 135-144, May 2016

Raliya, Ramesh; Som, Avik; **Shetty,**

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

Nishit*; Reed, Nathan; Achilefu, Samuel and Biswas, Pratim, "Nano-antacids enhance pH neutralization beyond their bulk counterparts: synthesis and characterization", *RSC Advances,* DOI: 10.1039/C6RA12856D, vol 6, no 59, pp 54331-54335, Jun 2016

Shah, Umang V; **Karde, Vikram***; **Ghoroi, Chinmay** and Heng, Jerry Y Y, "Influence of particle properties on powder bulk behaviour and processability", *International Journal of Pharmaceutics*, DOI: 10.1016/j.ijpharm.2016.12.045, vol 518, no 1-2, pp 138-154, Feb 2017

MAGAZINE/NEWSPAPER ARTICLES

Singh, Yash Pratap*, "Can markets be timed accurately?", *Fair Observer,* Apr 15, 2016

PAPERS PRESENTED AT CONFERENCES

Bhavsar, Punitkumar*; **Srinivasan, Babji** and **Srinivasan, Rajagopalan,** "A multivariate data driven approach for modelling the cognitive behaviour of control room operator using eye tracking", *AIChE Annual Meeting*, Hilton San Francisco Union Square, San Francisco, US, Nov 13-18, 2016

Buabeng-Baidoo, Esther; Mafukidzea, Nielsen; **Tiwari, Sarojini***; **Srinivasan, Babji**; Majozia, Thokozani and **Srinivasan, Rajagopalan**, "Exploring water reuse opportunities in a large-scale milk processing plant through superstructure optimization", *26th European Symposium on Computer Aided Process Engineering*, Grand Hotel Bernardin Congress Centre, Portoroz, SI, Jun 12-15, 2016

Das, Saroj Kumar*; **James, Asha Liza***; **Harini, Gunda***; **Medha, Swasti***; **Ratnam, Devina*** and **Jasuja, Kabeer**, "Exfoliation of layered metal diborides to realize boron rich nanosheets analogous to chemically modified graphene", *Graphene Symposium 2016*, IIT Bombay, Mumbai, IN, Aug 10, 2016

Das, Saroj Kumar* and **Jasuja, Kabeer**, "Synthesis of 2-dimensional boron analogs of graphene",*2016 Summer Institute*, IC-IMPACT at University of Alberta, Edmonton, CA, May 29 – Jun 3, 2016

Dixit, Deepa* and **Ghoroi, Chinmay**, "Influence of nanoscale roughness on surface energy and wettability of surface modified glass beads", *2nd International Conference and Exhibition on Powder, Granule and Bulk Solids: Innovations and Applications*, Hotel Ramada, Jaipur, IN, Dec 1-3, 2016

Dixit, Kirtika*; **Varghese, Sophia***; **Jauhari, Ashish#**; **Bhattacharya, S C#** and **Ghoroi, Chinmay**, "Flow improvement of fine propellant powder using nano additives", *2nd International Conference and Exhibition on Powder, Granule and Bulk Solids: Innovations and Applications*, Hotel Ramada, Jaipur, IN, Dec 1-3, 2016

Iqbala, Mohd Umair* and **Srinivasan, Rajagopalan**, "A novel experimental strategy for validating human failure probabilities in risk assessment", *26th European Symposium on Computer Aided Process Engineering*, Grand Hotel Bernardin Congress Centre, Portoroz, SI, Jun 12-15, 2016

James, Asha Liza*; **Das, Saroj Kumar***; **Harini, Gunda***and **Jasuja, Kabeer**, "Nanoscaling layered metal borides to yield nanosheets analogous to chemically modified graphene", *Indo UK workshop on Advanced Nanomaterials for Energy, Health, and Sustainability,* Indian Institute of Technology Mandi, IN, Oct 3-6, 2016

Madhu, K*; **Srinivasan, Babji** and **Srinivasan, Rajagopalan**, "Cognitive engineering for process safety: effective training for process operators using eye gaze patterns", *26th European Symposium on Computer Aided Process Engineering*, Grand Hotel Bernardin Congress Centre, Portoroz, SI, Jun 12-15, 2016

Maiti, Sanat Chandhra* and **Ghoroi, Chinmay**, "Influence of dry-coating of nano-additives on particulate solid flow and its reactions: Cement system a case Study", *2016 AIChE Annual Meeting*, San Francisco, US, Nov 13-18, 2016

Maiti, Sanat Chandhra* and **Ghoroi, Chinmay**, "Influence of nano and micron size additives towards stabilization of β-C2S phase through solid state reaction", *2nd International Conference and Exhibition on Powder, Granule and Bulk Solids: Innovations and Applications*, Hotel Ramada, Jaipur, IN, Dec 1-3, 2016

Maiti, Sanat Chandhra* and **Ghoroi, Chinmay**, "Thermokinetic analysis of surface coated CaCO3 with nano-TiO2 using master plot method", *International Confederation for Thermal Analysis Society (ICTAC)*, Orlando, US, Aug 14-19, 2016

Patel, Narendra* and **Padhiyar, Nitin**, "Multi-objective optimal control study of Fed-Batch Bio-Reactor", *11th IFAC Symposium on Dynamics and Control of Process Systems, including Biosystems (DYCOPS-CAB 2016)*, Trondheim, NO, Jun 6-8, 2016

Patel, Nikita*; **Srinivasan, Babji** and **Srinivasan, Rajagopalan**,"Simulation and analysis of power systems using non-intrusive appliance load monitoring", *AIChE Annual Meeting*, Hilton San Francisco Union Square, San Francisco, US, Nov 13-18, 2016

Patel, Nikita*; **Srinivasan, Babji** and **Srinivasan, Rajagopalan**, "Non-intrusive appliance load monitoring for electric energy systems simulation and analysis - a case study in India", *26thEuropean Symposium on Computer Aided Process Engineering*, Grand Hotel Bernardin Congress Centre, Portoroz, SI, Jun 12-15, 2016

Sancheti, Abhishek*; **Saroj, Sanjay***; **Varun, Neetu*** and **Ghoroi, Chinmay**, "Mixing study of binary cohesive fine powders in a 2D rotary drum", *2ndInternational Conference and Exhibition on Powder, Granule and Bulk Solids: Innovations and Applications*, Hotel Ramada, Jaipur, IN, Dec 1-3, 2016

Sathisaran, Indumathi* and **Dalvi, Sameer V**, "Identification of stoichiometrically diverse curcumin-hydroxyquinol cocrystals using differential scanning calorimetry", *World Congress on Drug Discovery and Development-2016*, J N Tata Auditorium, Indian Institute of Science, Bangalore, IN, Nov 23-25, 2016

Sathisaran, Indumathi* and **Dalvi, Sameer V**, "Understanding the mechanism of curcumin eutectics/cocrystal formation with salicylic acid and hydroxyquinol", *ChEmference 2016*, Indian Institute of Technology Gandhinagar, IN, Dec 3-4, 2016

Sompura, Jay Nileshbhai*; **Mankad, Jaivik*** and **Padhiyar, Nitin**, "Experimental study: neural network based model predictive control of a distributed parameter system", *12th IEEE International Conference on Control andAutomation (IEEE ICCA 2016)*, Kathmandu, Nepal, Jun 1-3, 2016

Thareja, Prachi and **Kulkarni, Siddharth***, "Rheology of titania nanoparticles-in-nematic liquid crystal suspensions", *17thInternational Congress on Rheology (ICR-2016)*, Kyoto, JP, Aug 8-13, 2016

Varghese, Sophia* and **Ghoroi, Chinmay**, "Improving the wettability of ibuprofen drug using co-milling technique", *2ndInternational Conference and Exhibition on Powder, Granule and Bulk Solids: Innovations and Applications*, Hotel Ramada, Jaipur, IN, Dec 1-3, 2016

Lytle, Tyer; **Radhakrishna, Mithun** and Sing, Charles, "Molecular effects on coacervate-driven block copolymer self assembly", *APS March Meeting 2017*, American Physical Society, Louisiana, US, Mar 13-17, 2017

Singh, Gurpreet; **Vadera, Meet Prakashbhai***; Samavedham, Lakshminarayanan and Lim, Erle Chuen-Hian, "Machine learning based framework for multi-class diagnosis of neurodegenerative disease: a study on Parkinson's disease", *11thIFAC Symposium on Dynamics and Control of Process Systems, (DYCOPS-CAB 2016),* Norwegian University of Science and Technology, Trondheim, NO, Jun 6-8, 2016

POSTERS PRESENTED

James, Asha Liza*; **Das, Saroj Kumar***; **Harini, Gunda***; **Medha, Swasti***; **Ratnam, Devina*** and **Jasuja, Kabeer**, "Synthesis of boron based nanosheets analogous to

chemically modified graphene by exfoliation of layered metal diborides", *International Conference on Functional Materials 2016*, Indian Institute of Technology Kharagpur, IN, Dec 12-14, 2016

James, Asha Liza* and **Jasuja, Kabeer**, "Delamination of layered aluminium boride into boron rich nanosheets by chelation assisted selective extraction", *ChEmference 2016*, Indian Institute of Technology Gandhinagar, IN, Dec 3-4, 2016

Kulkarni, Siddharth* and **Thareja, Prachi**, "Effect of partitioning of colloidal particles at the grain boundaries on the rheology of lyotropic hexagonal liquid crystals", *Complex Fluids (CompFlu-2016)*, International Institute of Information Technology, Hyderabad, IN, Dec 12-14, 2016

Kulkarni, Siddharth* and **Thareja, Prachi**, "Rheology and microstructure of colloidal particles-in-hexagonal and nematic liquid crystal composites", *17thInternational Congress on Rheology (ICR-2016)*, Kyoto, JP, Aug8-13, 2016

Kumar, Saket* and **Thareja, Prachi**, "Rheology of fumed alumina nanoparticles in isotropic and anisotropic medium: effect of particle loading, preshear and electric field", *Complex Fluids (CompFlu-2016)*, International Institute of Information Technology, Hyderabad, IN, Dec 12-14, 2016

Ojha, Abhijeet* and **Thareja, Prachi**, "Rheological studies of electrolyte induced gelation in graphene oxide dispersions", *ChEmference 2016*, Indian Institute of Technology Gandhinagar, IN, Dec3-4, 2016

Srinivasan, Babji, "A critical review of monitoring approaches in anaerobic and aerobic systems: application to anaerobic system in India's largest dairy company", *13th IWA Specialized Conference on Small Water and Wastewater Systems (SWWS) and 5thIWA Specialized Conference on Resources-Oriented Sanitation (ROS),* Athens, GR, Sep 14-16, 2016

Thareja, Prachi and **Ojha, Abhijeet***, "Electrolyte induced gelation and rheology of graphene oxide suspensions - effect of salt type and valence", *17th International Congress on Rheology (ICR-2016)*, Kyoto, JP, Aug 8-13, 2016

CHEMISTRY

BOOK CHAPTERS

Kirubakaran, Sivapriya and **Thiruvenkatam, Vijay**, "Diverse applications of nanotechnology in Biomedicine, Chemistry, and Engineering", *Oncology: Breakthroughs in Research and Practice*, DOI: 10.4018/978-1-5225-0549-5.ch011, IGI Global, 2017, pp 342-351, ISBN: 9781522505495

JOURNAL PAPERS

Balsukuri, Naresh*; Mori, S and **Gupta, Iti,** "Donor acceptor type ferrocene substituted AZA-bodipys: synthesis, optical and electrochemical studies", *Journal of Porphyrins and Phthalocyanines,*DOI: 10.1142/S1088424616500693, vol 20, no 6, Jun 2016

Das, Sudipta*; Bhat, Haamid R; **Balsukuri, Naresh***; Jha, Prakash C; Hisamune, Yutaka; Ishida, Masatosi; Furuta, Hiroyuki; Mori, Shigeki and **Gupta, Iti**, "Donor–acceptor type A2B2 porphyrins: synthesis, energy transfer, computational and electrochemical studies", *Inorganic Chemistry Frontiers*, DOI: 10.1039/C6QI00558F, vol 4, no 4, pp 618-638, Jan 2017

Gupta, Iti; **Balsukuri, Naresh***; Lone, Mohsin Y; Jha, Prakash C and Mori, Shigeki, "Synthesis, structure and optical studies of energy donor-acceptor type NIR Aza-BODIPYs", *Chemistry - An Asian Journal,* DOI: 10.1002/asia.201600167, vol 11, no 10, pp 1572-1587, May 2016

Hadianawala, Murtuza*; **Shaik, Althaf***; **Hasija, Nisha***; **Vasu, Anuji K***and **Datta, Bhaskar**, "Sodium cyanate mediated synthesis of sulfonylurea and sulfonyltriuret from sulfonyl chloride and amine", *ChemistrySelect,* DOI: 10.1002/slct.201600259, vol 1, no 10, pp 2212-2216, Jul 2016

Katla, Jagadish*; Bhat, Haamid R; Jha, Prakash C; Ghalsasi, Prasanna S and **Kanvah, Sriram**, "α-Cyanostyrenes with pyrene scaffold: unique emission through aggregation", *Chemistry select,* DOI: 10.1002/slct.201700008, vol 2, no 5, pp 1902-1910, Feb 2017

Pandey, Aman#; Jain, Gunisha; **Vyas, Divya#**; Irusta, Silvia and **Sharma, Sudhanshu**, "Non-reducible, basic La2O3 to reducible, acidic La2-xSbxO3 with significant oxygen storage capacity, lower band gap and effect on the catalytic activity", *The Journal of Physical Chemistry C,* DOI: 10.1021/acs.jpcc.6b10821, vol 121, no 1, pp 481-489,Jan 2017

Pandey, Poonam* and **Mallajosyula, Sairam Swaroop**, "Influence of polarization on carbohydrate hydration: a comparative study using additive and polarizable force fields", *The Journal of Physical Chemistry B,* DOI: 10.1021/acs.jpcb.6b05546, vol 120, no 27, pp 6621-6633, Jul 2016

Paramasivam, Mahalingavelar# and **Kanvah, Sriram**, "Rational tuning of AIEE active coumarin based α-Cyanostilbenes towards Far-Red/NIR region using different π-Spacer and acceptor units", *The Journal of Physical Chemistry C,* DOI: 10.1021/acs.jpcc.6b01334, vol 120, no 20, pp 10757-10769, May 2016

Purushothaman, Gayathri*; **Juvale, Kapil***; **Kirubakaran, Sivapriya**; Vemula, P K and **Thiruvenkatam, Vijay**,"Water-mediated intermolecular interactions in 1,2-O-cyclohexylidene-myo-inositol: a quantitative analysis",*Acta Crystallographica Section C: Structural Chemistry,* DOI: 10.1107/S2053229616018581, vol 73, no 1, pp 20-27, Jan 2017

Sharma, Sudhanshu; Sravan Kumar, Kanchari Bavajigari; Chandnani, Yash M; Phani Kumar, V Sai; **Gangwar, Bhanu P***; Singhal, Aditi and Deshpande, Parag Arvind, "Mechanistic insights into CO_2 methanation over ru-substituted CeO_2", *Journal of Physical Chemistry C,* DOI: 10.1021/acs.jpcc.6b03224, vol 120, no 26, pp 14101-14112, Jul 2016

Shaik, Althaf*; **Kirubakaran, Sivapriya** and **Thiruvenkatam, Vijay**, "Crystal structure and Hirshfeld surface analysis of ethyl 5-phenylisoxazole-3-carboxylate", *Acta Crystallographica Section E: Crystallographic Communications*, DOI: 10.1107/S2056989017003127, vol 73, no 4, pp 531-534, 2017

Singh, Archana#; **Palakollu, Veerabhadraiah***; **Pandey, Aman#**; **Kanvah, Sriram** and **Sharma, Sudhanshu**, "Green synthesis of 1,4-benzodiazepines over La_2O_3 and $La(OH)_3$ catalysts: possibility of Langmuir-Hinshelwood adsorption", *RSC Advances,* DOI: 10.1039/C6RA22719H, vol 6, no 105, pp 103455-103462, Oct 2016

Vasu, Anuji K*; **Paramasivam, Mahalingavelar#** and **Kanvah, Sriram**, "Carbohydrate tethered cyanostilbene fluorogen: unique emission and preferential protein binding", *Chemistry Select*, DOI: 10.1002/slct.201601709, vol 2, no 1, pp 405-414, Jan 2017

Boralugodage, Nilusha Priyadarshani; Arachchige, Rajith Jayasingha; **Dutta, Arnab***; Buchko, Garry W and Shaw, Wendy J, "Evaluating the role of acidic, basic, and polar amino acids and dipeptides on a molecular electrocatalyst for H_2 oxidation", *Catalysis Science & Technology,* DOI: 10.1039/C6CY02579J, vol 7, no 5, pp 1108-1121, Mar 2017

Gentil, Solène; Lalaoui, Noémie; **Dutta, Arnab*;** Nedellec, Yannig; Cosnier, Serge; Shaw, Wendy J; Artero, Vincent and Le Goff, Alan, "Carbon-nanotube-supported bio-inspired nickel catalyst and its integration in hybrid hydrogen/air fuel cells", *Angewandte Chemie International Edition,* DOI: 10.1002/anie.201611532, vol 56, no 7, 1845-1849, Feb 2017

Pradhan, Biswajit; **Khatua, Saumyakanti**; Gupta, Ankur; Aartsma, Thijs J; Canters, Gerard W and Orrit, Michel, "Gold-nanorod-enhanced fluorescence correlation spectroscopy of fluorophores with high quantum yield in lipid bilayers", *The Journal of Physical Chemistry C,* DOI: 10.1021/acs.jpcc.6b07875, vol 120, no 45, pp 25996-26003, Nov 2016

Priyadarshani, Nilusha; **Dutta, Arnab***;Ginovska, Bojana; Buchko, Garry W; O'Hagan, Molly; Raugei, Simone and Shaw, Wendy J, "Achieving reversible H_2/H+ interconversion at room temperature

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

with enzyme-inspired molecular complexes: a mechanistic study", *ACS Catalysis,* DOI: 10.1021/acscatal.6b01433, vol 6, no 9, pp 6037-6049, Sep 2016

Reback, Matthew L; Ginovska, Bojana; Buchko, Garry W; **Dutta, Arnab***; Priyadarshani, Nilusha; Kier, Brandon L; Helm, Monte L; Raugei, Simone and Shaw, Wendy J, "Investigating the role of chain and linker length on the catalytic activity of an H_2 production catalyst containing a β-hairpin peptide", *Journal of Coordination Chemistry,* DOI: 10.1080/00958972.2016.1188924, vol 69, no 11-13, pp 1730-1747, Jul 2016

Rodríguez-Maciá, Patricia; Priyadarshani, Nilusha; **Dutta, Arnab***; Weidenthaler, Claudia; Lubitz, Wolfgang; Shaw, Wendy J and Rüdiger, Olaf, "Covalent attachment of the water-insoluble $Ni(P^{Cy}_2N^{Phe}_2)_2$ electrocatalyst to electrodes showing reversible catalysis in aqueous solution", *Electroanalysis,* DOI: 10.1002/elan.201600306, vol 28, no 10, pp 2452-2458, Oct 2016

Singhal, Aditi; **Bisht, Anuj***; **Kumar, Amit#** and **Sharma, Sudhanshu**, "One pot, rapid synthesis of Co_3O_4 by solution combustion method and its electrochemical properties in different electrolytes", *Journal of Electroanalytical Chemistry,* DOI: 10.1016/j.jelechem.2016.07.004, vol 776, no 152-161, Sep 2016

PAPERS PRESENTED AT CONFERENCES

Gupta, Iti and **Praseetha E K***, "Bridged Bis-BODIPYs: synthesis andstudies", *International Conference on Porphyrins and Phthalocyanines (ICPP)*, Nanjing, CN, Jul 3-8, 2016

Shaik, Althaf*; **Kirubakaran, Sivapriya** and **Thiruvenkatam, Vijay**, "Crystalline polymorphs of Diethyl 2-(((4-bromophenyl) amino) methylene) malonate: a detailed study", *2nd International Conference on Materials Science and Technology (ICMST-2016),* St Thomas College Pala, Kottayam, IN, Jun 5-8, 2016

PATENTS

Kirubakaran, Sivapriya; **Thiruvenkatam, Vijay**; **Juvale, Kapil***; **Singh, Vijay#**; **Purushothaman, Gayathri*** and **Shaik, Althaf***, "Novel compound for treating H pylori infection and related gastric cancer: pharmaceutical composition and process for preparing the same", *Indian Patent Office*, Patent Application No.: 201621024723, Jul 19, 2016

Kirubakaran, Sivapriya; **Thiruvenkatam, Vijay**; **Shaik, Althaf*** and **Bhakuni, Rashmi***, "Substituted 1,2-Dihydro-3h-Pyrazolo[4,3-C]Quinolin-3-One as ATR kinase inhibitors", *Indian Patent Office*, Patent Application No.: 201621026397, Aug 2, 2016

POSTERS PRESENTED

Hussain, Javeena Ahmed*; **Shaik, Althaf***; **Bhoir, Siddhant*** and **Kirubakaran, Sivapriya**, "Development of small-molecule inhibitors targeting RAS", *2nd National Conference on New Frontiers in Chemistry-from Fundamentals to Applications-II (NFCFA2017),* BITS Pilani, Goa, IN, Jan 28-29, 2017

Hussain, Javeena*; **Bhoir, Siddhant*** and **Kirubakaran, Sivapriya**, "Development of small molecule inhibitors targeting rat sarcoma virus", *JAIST Japan-India Symposium on Materials Science 2017*, Japan Advanced Institute of Science and Technology, Nomi, JP, Mar 6-7, 2017

Hussain, Javeena*; **Bhoir, Siddhant*** and **Kirubakaran, Sivapriya, "**Studies on Inositol based smallmolecule inhibitors for RAS", Indo-German workshop on Recent Applications of Carbohydrates in Chemistry and Biology (RACCB-2017), IIT BHU, Varanasi, IN, Feb 14-16, 2017 **(Best Poster Award)**

Juvale, Kapil*; **Thiruvenkatam, Vijay** and **Kirubakaran, Sivapriya**, "Inosine-5′-monophosphate dehydrogenase: a new approach for treating drug-resistant Helicobacter pylori infection", *19th CRSI National Symposium in Chemistry (CRSI NSC-19) andCRSI-GDch Angewandte Symposium,* North Bengal University, Darjeeling, IN, Jul 13-16, 2016

Kumari, Beena*; **Kotha, Srinu***and **Kanvah, Sriram**, "Synthesis and photo-responsive behavior of triphenylamine containing styryl chromophores", *2nd National Conference on New Frontiers in Chemistry-from Fundamentals to Applications-II (NFCFA2017),* BITS Pilani, Goa, IN, Jan 28-29, 2017

Mani, Vedamalai# and **Gupta, Iti**, "Highly selective BODIPY based fluorescent probe for tracking real time in-vitro tau aggregation", *19th CRSI National Symposium in Chemistry (CRSI NSC-19) andCRSI-GDch Angewandte Symposium*, North Bengal University, Darjeeling, IN, Jul 13-16, 2016

Mukherjee, Tarushyam*; **K V, Anuji***and **Kanvah, Sriram**, "Synthesis and Self assemblies of cholesterol conjugated stilbenes", *2nd National Conference on New Frontiers in Chemistry-from Fundamentals to Applications-II (NFCFA2017),* BITS Pilani, Goa, IN, Jan 28-29, 2017

Pandey, Poonam*and **Mallajosyula, Sairam Swaroop**, "Influence of polarization on carbohydrate hydration: a comparative study using additive and polarizable force field", *15thIndian Theoretical Chemistry Symposium (TCS 2016)*, University of Hyderabad, IN, Nov 14-17, 2016

Shaik, Althaf*; **R, Srimadhavi***; **Kirubakaran, Sivapriya** and **Thiruvenkatam, Vijay**, "Packing polymorphs of 4H-pyrido[1,2-a] pyrimidin-4-one derivative, a drug intermediate with anti-proliferative property - a qualitative analysis", *National Conference on Chemistry of Light and Medicine 2016,* Indian Institute of Technology Gandhinagar, IN, Dec 8-9, 2016

Shaik, Althaf*; **Thiruvenkatam, Vijay** and **Kirubakaran, Sivapriya**, "Development of selective inhibitors for ATR: an adjuvant for DNA damage based cancer chemotherapeutics", *19th CRSI National Symposium in Chemistry (CRSI NSC-19) and CRSI-GDch Angewandte Symposium,* North Bengal University, Darjeeling, IN, Jul 13-16, 2016

CIVIL ENGINEERING

JOURNAL PAPERS

Ambika, Anukesh Krishnankutty#; Wardlow, Brian and **Mishra, Vimal**, "Remotely sensed high resolution irrigated area mapping in India for 2000 to 2015", *Scientific Data,* DOI: 10.1038/sdata.2016.118, vol 3, Dec 2016

Asoka, Akarsh*; Gleeson, Tom; Wada, Yoshihide and **Mishra, Vimal**, "Relative contribution of monsoon precipitation and pumping to changes in groundwater storage in India", *Nature Geoscience*, DOI: 10.1038/ngeo2869, vol 10, pp 109-117, Jan 2017

Basu, Dhiman and **Reddy, P R M***, "A new metallic damper for seismic resilience: analytical feasibility study", *Structures,* DOI: 10.1016/j.istruc.2016.06.011, vol 7, pp 165-183, Aug 2016

Basu, Dhiman; Whittaker, Andrew S and Constantinou, Michael C, "On the design of a dense array to extract rotational components of earthquake ground motion", *Bulletin of Earthquake Engineering,* DOI: 10.1007/s10518-016-9992-6, vol 15, no 3, pp 827-860, Mar 2017

Basu, Dhiman and **Kota, Tejaswi***, "Estimating peak dynamic response from pushover type analysis using a semi-empirical method", *Bulletin of Earthquake Engineering,* DOI: 10.1007/s10518-016-0015-4, vol 14, no12, pp 3409-3440, Sep 2016

Jain, Sudhir K, "Earthquake safety in India: achievements, challenges and opportunities", *Bulletin of Earthquake Engineering,* DOI: 10.1007/s10518-016-9870-2, vol 14, no 5, pp 1337-1436, May 2016

Kumar, Manish; Whittaker, Andrew S; Kennedy, Robert P; Johnson, James J and Kammerer, Annie, "Seismic probabilistic risk assessment for seismically isolated safety-related nuclear facilities", *Nuclear Engineering and Design*, DOI: 10.1016/j.nucengdes.2016.12.031, vol 313, pp 386-400, Mar 2017

Mandhyan, Amar*; **Srivastava, Gaurav** and Krishnamoorthi, S, "A novel method for prediction of truss geometry from topology

optimization", *Engineering with Computers,* DOI: 10.1007/s00366-016-0474-x, vol 33, no 1, pp 95-106, Jan 2017

Mishra, Vimal; Aadhar, Saran; Asoka, Akarsh; Pai, Sivananda and Kumar, Rohini, "On the frequency of the 2015 monsoon season drought in the Indo-Gangetic Plain", *Geophysical Research Letters,* DOI: 10.1002/2016GL071407, vol 43, no 23, Dec 2016

Mishra, Vimal and **Lilhare, Rajtantra#**, "Hydrologic sensitivity of Indian sub-continental river basins to climate change", *Global and Planetary Change,* DOI: 10.1016/j.gloplacha.2016.01.003, vol 139, pp 78-96, Apr 2016

Pandya, Saloni* and **Sachan, Ajanta**, "Effect of matric suction and initial static loading on dynamic behaviour of unsaturated cohesive soil", *International Journal of Geotechnical Engineering,* DOI: 10.1080/19386362.2017.1295622, Feb 2017

Parekh, Sachi; **Kumar, Manish*** and Panchal, V R, "Seismic response of cable stayed bridge isolated with triple friction pendulum system (TFPS)", *International Journal of Innovative Research in Science and Engineering*, vol 2, no 4, Apr 2016

Rangwani, Kiran# and **Brzev, Svetlana**, "Seismic analysis of confined masonry shear walls using the wide column model", *Applied Mechanics and Materials,* DOI: 10.4028/www.scientific.net/AMM.857.212, vol 857, pp 212-218, Nov 2016

Rodda, Gopala Krishna* and **Basu, Dhiman**, "On extracting rotational components of ground motion using an empirical rotational window", *International Journal of Earthquake and Impact Engineering,* DOI: 10.1504/IJEIE.2016.081752, vol 1, no 3, pp 253-288, Jan 2017

Shah, Harsh L* and **Mishra, Vimal**, "Hydrologic changes in Indian sub-continental river basins (1901-2012)", *Journal of Hydrometeorology,* DOI: 10.1175/JHM-D-15-0231.1, vol 17, no 10, 2667-2687, Oct 2016

Shah, Reepal D* and **Mishra, Vimal**, "Utility of global ensemble forecast system (GEFS) reforecast for short-term drought prediction in India", *Journal of Hydrometeorology,* DOI: 10.1175/JHM-D-15-0050.1, vol 17, no 6, pp 1781-1800, Jun 2016

Shah, Reepal*; Sahai, Atul Kumar and **Mishra, Vimal**, "Short-to-medium range hydrologic forecast to manage water and agricultural resources in India", *Hydrology and Earth System Sciences Discussions,* DOI: 10.5194/hess-2016-504, vol 21, no 2, pp 707-720, Feb 2017

Shah, Reepal*; Sahai, Atul Kumar and **Mishra, Vimal**, "Short to sub-seasonal hydrologic forecast to manage water and agricultural resources in India", *Hydrology and Earth System Sciences,* DOI: 10.5194/hess-21-707-2017, vol 21, no 2, pp 707-720, Feb 2017

Sudan, Gundeep K* and **Sachan, Ajanta**, "Effect of strain rate on pore pressure evolution and effective stress path of soft soil under different stress history conditions", *International Journal of Geotechnical Engineering*, DOI: 10.1080/19386362.2016.1185844, vol 11, no 1, pp 62-71, Jan 2017

Mallya, Ganeshchandra; **Mishra, Vimal**; Niyogi, Dev; Tripathi, Shivam and Govindaraju, Rao S, "Trends and variability of droughts over the Indian monsoon region", *Weather and Climate Extremes,* DOI: 10.1016/j.wace.2016.01.002, vol 12, pp 43-68, Jun 2016

Mukherjee, Mousumi; Gupta, Anurag and **Prashant, Amit**, "Drained instability analysis of sand under biaxial loading using a 3D material model", *Computers and Geotechnics,* DOI: 10.1016/j.compgeo.2016.05.023, vol 79, pp 130-145, Oct 2016

Mukherjee, Mousumi; Gupta, Anurag and **Prashant, Amit**, "Instability analysis of sand under undrained biaxial loading with rigid and flexible boundary", *International Journal of Geomechanics,* DOI: 10.1061/(ASCE)GM.1943-5622.0000690, vol 17, no 1, Jan 2017

PAPERS PRESENTED AT CONFERENCES

Bhatt, A* and **Srivastava, Gaurav**, "Assessment of perturbation and projection-based methods for static reanalysis of linear systems for uncertainty quantification", *2016 EMI International Conference*, Metz, FR, Oct 25-27, 2016

Bhattacharya, Debayan* and **Prashant, Amit**, "Development of a flexible boundary plane strain apparatus for soil testing", *International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues*, Mumbai, IN, Sep 23-24, 2016

Bhattacharya, Debayan*; Mukherjee, Mousumi and **Prashant, Amit**, "Influence of perturbation type on numerical determination of undrained instability modes in sands", *EMI International Conference 2016*, Université de Lorraine, Metz, FR, Oct 25-27, 2016

Hussain, Majid* and **Sachan, Ajanta**, "Liquefaction susceptibility of soils in Kutch region", *International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues*, Mumbai, IN, Sep 23-24, 2016

Jadhav, Prajakta* and **G, Venkatappa Rao#**, "Reinforced soil retaining structures for ravines", *6thAsian Regional Conference on Geosynthetics*, New Delhi, IN, Nov 8-11, 2016

Jain, Sudhir K; **Brzev, Svetlana**; **Basu, Dhiman**; Rai, Durgesh C and Mitra, Keya, "Confined masonry construction for improved seismic safety of buildings in India", *International Seminar on Emerging Building Materials and Construction Technologies,* India Habitat Centre, New Delhi, IN, 2016

Kumar, Manish*; Whittaker, Andrew and Constantinou, Michael C, "Response of a nuclear power plant isolated with sliding bearings subjected to severe ground shaking", *16th World Conference on Earthquake (16WCEE 2017)*, CasaPiedra Convention Center, Santiago, CL, Jan 9-13, 2017

P, Seethalakshmi* and **Sachan, Ajanta**, "Crushing effect of Mica particles on mechanical behavior of micaceous sand at macro and micro level", *International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues*, Mumbai, IN, Sep 23-24, 2016

Pandya, Saloni* and **Sachan, Ajanta**, "Effect of microfabric on shear modulus and damping ratio of kaolin clay", *EMI International Conference 2016*, Université de Lorraine, Metz, FR, Oct 25-27, 2016

Pandya, Saloni* and **Sachan, Ajanta**, "Stiffness degradation and cyclic response of naturally available combination soil", *International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues*, Mumbai, IN, Sep 23-24, 2016

Prakash, P R* and **Srivastava, Gaurav**, "Numerical modeling of spalling in high strength concrete at high temperature", *Structural Engineering Convention 2016*, CSIR-Structural Engineering Research Centre, Taramani, Chennai, IN, Dec 21-23, 2016

Rangwani, Kiran* and **Brzev, Svetlana**, "Seismic analysis of confined masonry shear walls using the wide column model", *International Conference on Innovations and Structural engineering (AICERA-icISEC 2016)*, Department of Civil Engineering, Amal Jyothi College of Engineering, Kerala, IN, Jul 29-30, 2016

Ravi Prakash, P* and **Prashant, Amit**, "Instability of a mono pile in flexural and buckling modes due to lateral spreading", *4th GeoChina International Conference 2016 (GeoChina 2016)*, Shandong, CN, Jul 25-27, 2016

Rodda, Gopala Krishna* and **Basu, Dhiman**, "Coherency model for dense seismic array", *Structural Engineering Convention 2016*, CSIR-Structural Engineering Research Centre, Chennai, IN, Dec 21-23, 2016

Shrivastav, S* and **Srivastava, Gaurav**, "Topology optimization of steel girders

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

subjected to thermal and mechanical loads", *Structural Engineering Convention 2016*, CSIR-Structural Engineering Research Centre, Taramani, Chennai, IN, Dec 21-23, 2016

Thakur, Mohmad Mohsin* and **Prashant, Amit**, "GPR investigation at two sites of Archaeological Interest in Vadnagar, India", *16th International Conference of Ground Penetrating Radar (GPR 2016),* Hong Kong Polytechnic University, Hong Kong, HK, Jun 13-16, 2016

Sheela, E Y; Joseph, M; Sayida, M K; Anupriya, S G and **Rao, G V***, "Field performance of coir geotextile reinforced flexible pavements", *6th Asian Regional Conference on Geosynthetics (GeoAsia 2016),* Manekshaw Center, New Delhi, IN, Nov 8-11, 2016

POSTERS PRESENTED

Samaniego, Luis; Kumar, Rohini; Pechlivanidis, Illias; Breuer, Lutz; Wortmann, Michel; Vetter, Tobias; Flörke, Martina; Chamorro, Alejandro; Schäfer, David; **Shah, Harsh***and Zeng, Xiaofan, "Disentangling the uncertainty of hydrologic drought characteristics in a multi-model century-long experiment in continental river basins", *European Geosciences Union General Assembly 2016,* Vienna, AT, Apr 17-22, 2016

COMPUTER SCIENCE AND ENGINEERING

BOOK CHAPTERS

Das, Bireswar; **Enduri, Murali Krishna***and **Reddy, I Vinod***, "Polynomial-time algorithm for isomorphism of graphs with clique-width at most three", *Lecture Notes in Computer Science*, DOI: 10.1007/978-3-319-42634-1_5, vol 9797, Springer International Publishing, 2016, pp 55-66, ISBN: 978-3-319-42633-4

E-PRINT ARCHIVES

Dey, Palash and **Misra, Neeldhara**, "Preference elicitation for single crossing domain", *arXiv*, Cornell University Library, DOI: arXiv:1604.05194, Apr 2016

Dey, Palash; **Misra, Neeldhara** and Narahari, Y, "Complexity of manipulation with partial information in voting", *arXiv*, Cornell University Library, DOI: arXiv:1604.04359, Apr 2016

Kakkar, Vishal; Shevade, Shirish K; Sundararajan, S and **Garg, Dinesh**, "A sparse nonlinear classifier design using AUC optimization", *arXiv*, Cornell University Library, DOI: arXiv:1612.08633, Dec 2016

JOURNAL PAPERS

Jain, Alankar; Borkar, Vivek and **Garg, Dinesh**, "Fast rumor source identification via random walks", *Social Network Analysis and Mining,* DOI: 10.1007/s13278-016-0373-6, vol 6, no 1,Dec 2016

PAPERS PRESENTED AT CONFERENCES

Chiericetti, Flavio; **Dasgupta, Anirban**; Kumar, Ravi; Lattanzi, Silvio and Sarlós, Tamás, "On sampling nodes in a network", *25th International Conference on World Wide Web*, Palais des congrès, Montréal, CA, Apr 11-15, 2016

Das, Bireswar; **Enduri, Murali Krishna***; **Misra, Neeldhara** and **Vinod Reddy, I***, "On structural parameterizations of graph motif and chromatic number", *3rd International Conference on Algorithms and Discrete Applied Mathematics, CALDAM 2017*, Sri Guru Nanank Dev Khalsa College, BITS Pilani, IN, Feb 16-18, 2017

Dey, Palash; **Misra, Neeldhara** and Y, Narahari, "Complexity of manipulation with partial information", *25th International Joint Conference on Artificial Intelligence (IJCAI-16)*, New York Hilton Midtown, New York, US, Jul 9-15, 2016

Dey, Palash and **Misra, Neeldhara**, "Elicitation for preferences single peaked on trees", *25th International Joint Conference on Artificial Intelligence (IJCAI-16)*, New York Hilton Midtown, New York, US, Jul 9-15, 2016

Dey, Palash and **Misra, Neeldhara**, "Preference elicitation for single crossing domain", *25th International Joint Conference on Artificial Intelligence (IJCAI-16)*, New York Hilton Midtown, New York, US, Jul 9-15, 2016

Misra, Neeldhara, "Two dots is NP-complete", *8th International Conference on Fun with Algorithms*, La Maddalena, IT, Jun 8-10, 2016

Vaish, Rohit and **Misra, Neeldhara**, "On the parameterized complexity of manipulating pairwise voting rules", *EXPLORE-2016: The 3rd Workshop on Exploring Beyond the Worst Case in Computational Social Choice*, Singapore, SG, May 10, 2016

Vaish, Rohit; **Misra, Neeldhara**; Agarwal, Shivani and Blum, Avrim, "On the computational hardness of manipulating pairwise voting rules", *International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2016),* SG, May 9-13, 2016

POSTERS PRESENTED

Sinha, Sujata*; **Miyapuram, Krishna P** and **Karlapalem, Kamalakar**, "Biclustering text-mined Neuroimaging data to understand human brain functions", *4th ACM IKDD Conference on Data Science (CODS 2017)*, IIT Madras, Chennai, IN, Mar 9-11, 2017

EARTH SCIENCES

JOURNAL PAPERS

Jain, Vikrant; Sinha, Rajiv; Singh, L P and Tandon, S K, "River systems in India: the anthropocene context", *Proceedings of the Indian National Science Academy,* DOI: 10.16943/ptinsa/2016/48482, vol 82, no 3, pp 747-761, Jul 2016

Aher, Sainath; Shinde, Sambhaji; **Guha, Shantamoy*** and Majumder, Mrinmoy, "Identification of drought in Dhalai river watershed using MCDM and ANN models", *Journal of Earth System Science,* DOI: 10.1007/s12040-017-0795-1, vol 126, no 2, Feb 2017

Bhattacharjee, Dipanjan; **Jain, Vikrant**; Chattopadhyay, Anupam; Biswas, Rabiul H and Singhvi, Ashok K, "Geomorphic evidences and chronology of multiple neotectonic events in a cratonic area: results from the Gavilgarh fault zone, central India", *Tectonophysics,* DOI: 10.1016/j.tecto.2016.04.022, vol 677-678, pp 199-217, May 2016

Dey, Saptarshi; Thiede, Rasmus C; Schildgen, Taylor F; Wittmann, Hella; Bookhagen, Bodo; Scherler, Dirk; **Jain, Vikrant** and Strecker, Manfred R, "Climate-driven sediment aggradation and incision since the late Pleistocene in the NW Himalaya, India", *Earth and Planetary Science Letters,* DOI: 10.1016/j.epsl.2016.05.050, vol 449, pp 321-331, Sep 2016

PAPERS PRESENTED AT CONFERENCES

Dey, Saptarshi; Thiede, Rasmus C; Schildgen, Taylor F; Wittmann, Hella; Bookhagen, Bodo; Scherler, Dirk; **Jain, Vikrant** and Strecker, Manfred R, "Climate-driven sediment aggradation and incision phases since the Late Pleistocene in the NW Himalaya, India", *European Geosciences Union General Assembly 2016,* Vienna, AT, Apr 17-22, 2016

ELECTRICAL ENGINEERING

E-PRINT ARCHIVES

Malireddi, Sri Raghu* and **Raman, Shanmuganathan**, "Automatic segmentation of dynamic objects from an image pair", *arXiv*, Cornell University Library, DOI: arXiv:1604.04724, Apr 2016

Pachori, Shubham* and **Raman, Shanmuganathan**, "Multi-scale saliency detection using dictionary learning", *arXiv*, Cornell University Library, DOI: arXiv:1611.06307, Nov 2016

Pachori, Shubham*and **Raman, Shanmuganathan**, "Zero shot hashing", *arXiv*, Cornell University Library, DOI:

arXiv:1610.02651, Oct 2016

Pachori, Shubham*; **Deshpande, Ameya*** and **Raman, Shanmuganathan**, "Hashing in the Zero Shot Framework via Domain Adaptation, *arXiv*, Cornell University Library, DOI: arXiv:1702.01933, Feb 2017

Patil, Akshay Gadi* and **Raman, Shanmuganathan**, "Automatic content aware non-photorealistic rendering of images", *arXiv*, Cornell University Library, DOI: arXiv:1604.01962, Apr 2016

Sheth, Kshiteej* and **Raman, Shanmuganathan**, "Deep neural networks for HDR imaging", *arXiv*, Cornell University Library, DOI: arXiv:1611.00591, Sep 2016

BOOK CHAPTERS

Hegde, Ravi Sadananda*, "Fractal Plasmonic Nanoantennae", *Reviews in Plasmonics 2016*, DOI: 10.1007/978-3-319-48081-7_4, Springer International Publishing, 2017, pp 55-76, ISBN: 978-3-319-48080-0

Joshi, Kalpesh* and **Pindoriya, Naran M**, "Steady state analysis of unbalanced distribution networks with high penetration of photovoltaic generation", *Handbook of Distributed Generation*, Springer International Publishing, 2017, ISBN: 978-3-319-51342-3

Patil, Akshay Gadi* and **Raman, Shanmuganathan**, "Automatic content-aware non-photorealistic rendering of images", *Advances in Visual Computing*, DOI: 10.1007/978-3-319-50835-1_10, Springer International Publishing, 2016, pp 101-112, ISBN: 978-3-319-50834-4

E-PRINT ARCHIVES

Joshi, Kedar; Gupta, Naman; Katdare, Pulkit; Kadam, Sudin and **Banavar, Ravi**, "Trajectory tracking using motion primitives for the Purcell's swimmer", *arXiv*, Cornell University Library, DOI: arXiv:1703.06731, Mar 2017

Nayak, Aradhana; **Banavar, Ravi N** and Maithripala, D H S, "Almost-global tracking for a rigid body with internal rotors", *arXiv*, Cornell University Library, DOI: arXiv:1703.07839, Mar 2017

Raj, Nidhish; **Banavar, Ravi N**; Abhishek, A and Kothari, Mangal, "Attitude tracking control for aerobatic helicopters: a geometric approach", *arXiv*, Cornell University Library, DOI: arXiv:1703.08800, Mar 2017

JOURNAL PAPERS

Bhardwaj, Adit* and **Raman, Shanmuganathan**, "Robust PCA-based solution to image composition using augmented Lagrange multiplier (ALM)", *The Visual Computer,* DOI: 10.1007/s00371-015-1075-1, vol 32, no 5, pp 591-600, May 2016

Ganeriwala, Mohit D*; Yadav, Chandan; **Mohapatra, Nihar R**and Khandelwal, Sourabh, "Modeling of charge and quantum capacitance in low effective mass III-V FinFETs", *IEEE Journal of the Electron Devices Society,* DOI: 10.1109/JEDS.2016.2586116, vol 4, no 6, pp 396-401, Nov 2016

Gotmare, Akhilesh*; **Bhattacharjee, Sankha Subhra***; **Patidar, Rohan***and **George, Nithin V**, "Swarm and evolutionary computing algorithms for system identification and filter design: a comprehensive review", *Swarm and Evolutionary Computation,* DOI: 10.1016/j.swevo.2016.06.007, vol 32, pp 68-84,Feb 2017

Hegde, Ravi S and Khoo, E H, "Broadband optical response in ternary tree fractal plasmonic nanoantenna", *Plasmonics,* DOI: 10.1007/s11468-015-0059-3, vol 11, no 2, pp 465-473, Apr 2016

Jain, Ritesh*; Grzyb, Janusz and Pfeiffer, Ullrich R, "Terahertz light-field imaging", *IEEE Transactions on Terahertz Science and Technology,* DOI: 10.1109/TTHZ.2016.2584861, vol 6, no 5, pp 649-657, Sep 2016

Joshi, Kalpesh* and **Pindoriya, Naran M**, "Case-specificity and its implications in distribution network analysis with increasing penetration of photovoltaic generation", *CSEE Journal of Power and Energy Systems*, DOI: 10.17775/CSEEJPES.2017.0013, vol 3, no 1, pp 101-113, Mar 2017

Krishnappa Babu, Pradeep Raj*; Oza, Poojan and **Lahiri, Uttama**, "Gaze-sensitive virtual reality based social communication platform for individuals with autism", *IEEE Transactions on Affective Computing,* DOI: 10.1109/TAFFC.2016.2641422, Jan 2017

Kumar, Deepesh*; Dutta, Anirban; Das, Abhijit and **Lahiri, Uttama**, "Engagement sensitive visual stimulation", *European Journal of Translational Myology,* DOI: 10.4081/ejtm.2016.6032, vol 26, no 2, Jun 2016

Kumar, Deepesh*; **Verma, Sunny***; Bhattacharya, Sutapa and **Lahiri, Uttama**, "Audio-visual stimulation in conjunction with functional electrical stimulation to address upper limb and lower limb movement disorder", *European Journal of Translational Myology,* DOI: 10.4081/ejtm.2016.6030, vol 26, no 2, Jun 2016

Kumar, Deepesh*; Das, Abhijit; **Lahiri, Uttama** and Dutta, Anirban, "A human-machine-interface integrating low-cost sensors with a neuromuscular electrical stimulation system for post-stroke balance rehabilitation", *Journal of Visualized Experiments,* DOI: 10.3791/52394, no 110, Apr 2016

Kumar, Deepesh*; Dutta, Anirban; Das, Abhijit and **Lahiri, Uttama**, "A step towards developing a gaze-based screening tool for neurological disorders", *International Journal of Stroke,* vol 11, no 3 (Supplement), pp 35-35, Oct 2016

Kuriakose, Selvia* and **Lahiri, Uttama**, "Design of a physiology-sensitive VR-based social communication platform for children with autism", *IEEE Transactions on Neural Systems and Rehabilitation Engineering,* DOI: 10.1109/TNSRE.2016.2613879, 2016

Kurian, Nikhil Cherian*; **Patel, Kashyap***and **George, Nithin V**, "Robust active noise control: an information theoretic learning approach", *Applied Acoustics,* DOI: 10.1016/j.apacoust.2016.10.026, vol 117, pp 180-184, Feb 2017

Maheshwari, Jyoti* and **George, Nithin V**, "Polynomial sparse adaptive algorithm", *Electronics Letters,* DOI: 10.1049/el.2016.3747, vol 52, no 25, pp 2063-2065, Dec 2016

Mohapatra, Nihar R; **Ganeriwala, Mohit D*** and **Sivanaresh M, Satya***, "Effect of pregate carbon implant on narrow width behavior and performance of high-k metal-gate nMOS transistors", *IEEE Transactions on Electron Devices,* DOI: 10.1109/TED.2016.2570600, vol 63, no 7, pp 2708-2713, Jun 2016

Nagar, Rajendra* and **Raman, Shanmuganathan**, "Revealing hidden 3D reflection symmetry", *IEEE Signal Processing Letters,* DOI: 10.1109/LSP.2016.2620380, vol 23, no 12, Dec 2016

Patel, Vinal*; **Gandhi, Vaibhav***; **Heda, Shashank***and **George, Nithin V**, "Design of adaptive exponential functional link network based non-linear filters", *IEEE Transactions on Circuits and Systems I: Regular Papers,* DOI: 10.1109/TCSI.2016.2572091, vol 63, no 9, Sep 2016

Shah, Krupa Rajendra* and **Ragavan, K**, "Assessing mechanical deformations in two-winding transformer unit using reduced-order circuit model", *International Journal of Electrical Power & Energy Systems,* DOI: 10.1016/j.ijepes.2015.12.035, vol 79, pp 235-244, Jul 2016

Sharan, Raghubir and Boruah, Bijoy, "Ethical concerns of human-being, cyber-being and cybertariat: an educational perspective", *International Review of Information Ethics*, vol 25, no 24, pp 9-14, Dec 2016

Soni, Anurag*; Purohit, Surabhi and **Hegde, Ravi S**, "Multilayered aluminum plasmonic metasurfaces for ultraviolet bandpass filtering", *IEEE Photonics Technology Letters,* DOI: 10.1109/LPT.2016.2629504, vol 29, no 1, pp 110-113, Jan 2017

Verma, Sunny*; **Kumar, Deepesh***; **Kumawat, Animesh***; Dutta, Anirban and **Lahiri, Uttama**, "A low-cost adaptive balance training platform for stroke patients: ausability study", *IEEE*

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

Transactions on Neural Systems and Rehabilitation Engineering, DOI: 10.1109/TNSRE.2017.2667406, Feb 2017

Brochado, Ana; Troilo, Michael and **Shah, Aditya***, "Airbnb customer experience: Evidence of convergence across three countries", *Annals of Tourism Research,* DOI: 10.1016/j.annals.2017.01.001, vol 63, pp 210-212, Mar 2017

Mehta, P; Sarma, A; Sivagami, A D; Hari Prakash, N; **Gopi, Supin#**; Sarma, B and Ghosh, J, "Surface properties of graphite and LaB_6 materials used for laser heated emissive probe diagnostic", *Indian Journal of Physics,* DOI: 10.1007/s12648-016-0907-9, vol 91, no 2, pp 225-234, Feb 2017

PAPERS PRESENTED AT CONFERENCES

Aipathi, Kiran Sai*; **Sadhwani, Rahul*** and **Ragavan, K**, "An experimental study of modified space vector modulation applied to quasi Z source inverters using FPGA", *2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016),* Delhi Technological University, Delhi, IN, Jul 4-6, 2016

Aipathi, Kiran Sai* and **Ragavan, K**, "Direct torque control using switching table for induction motor fed by quasi Z-source inverter", *2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016),* Delhi Technological University, Delhi, IN, Jul 4-6, 2016

Deshpande, Ameya*and **Raman, Shanmuganathan**, "Adaptive artistic stylization of images", *10th Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP)*, Indian Institute of Technology Guwahati, IN, Dec 18-22, 2016

Dhiman, Ashish*; **Solanki, Dhaval***; Bhasin, Ashu; Bhise, Anjali; Das, Abhijit and **Lahiri, Uttama**, "Design of adaptive haptic-enabled virtual reality based system for upper limb movement disorders: a usability study", *6th IEEE International Conference on Biomedical Robotics and Biomechatronics (BioRob),* Singapore, SG, Jun 26-29, 2016

Donda, Krupali D# and **Hegde, Ravi S**, "Improved transmission efficiency in silicon based visible-wavelength metasurfaces using stepped nanocone elements", *International Conference on Fibre Optics and Photonics 2016*, Indian Institute of Technology Kanpur, IN, Dec 4-8, 2016

Gadi Patil, Akshay* and **Raman, Shanmuganathan**, "Content-aware non-photorealistic rendering of images", *12th International Symposium on Visual Computing (ISVC)*, Las Vegas, US, Dec 12-14, 2016

Gangopadhyay, Aalok*; **Tripathi, Shivam Mani***; **Jindal, Ishan#** and **Raman, Shanmuganathan**, "Dynamic scene classification using convolutional neural networks", *2016 IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Crystal Gateway Marriott, Washington DC, US, Dec 7-9, 2016

Gupta, Vikas* and **Raman, Shanmuganathan**, "Automatic trimap generation for image matting", *International Conference on Signal and Infomation Processing (IConSIP),* Nanded, IN, Oct 6-8, 2016

Jain, Ritika*and **Lahiri, Uttama**, "A step towards affordable gaze-sensitive communication platform for disabled: proof-of-concept study", *2nd World Congress on Information Technology and Computer Applications (WCITCA'16),* Dubai, AE, Jun 2-4, 2016

Jindal, Ishan# and **Raman, Shanmuganathan**, "Effective object tracking in unstructured crowd scenes", *International Conference on Signal and Infomation Processing (IConSIP),* Nanded, IN, Oct 6-8, 2016

Kaur, Raminder*; **Surana, Neelam*** and **Mekie, Joycee**, "Guarded dual rail logic for soft error tolerant standard cell library", *IEEE International Conference on Radiation Effects on Electronic Components and Systems (RADECS 2016),* Bremen, DE, Sep 19-23, 2016

Kiran, P Bala Sai* and **Pindoriya, Naran M**, "Study of consumer benefit functions for demand response algorithm", *19th National Power Systems Conference*, IIT Bhubaneswar, IN, Dec 19-21, 2016

Kumar, Deepesh*; **Verma, Sunny***; Kesavan, Vaittianadane; Dutta, Anirban; Das, Abhijit and **Lahiri, Uttama**,"Indigenous development of a virtual reality based balance rehabilitation platform-novel tool for stroke rehabilitation", *11th Indian National Stroke Conference,* Taj Swarna, Amritsar, IN, Mar 17-19, 2017

Madhu, K*; **Kumar, Deepesh***; Kesavan, Vaittianadane; Das, Abhijit; **Vashista, Vineet** and **Lahiri, Uttama**" An Indigenously developed cost-effective wireless sensor for post-stroke gait rehabilitation", *11th Indian National Stroke Conference,* Taj Swarna, Amritsar, IN, Mar 17-19, 2017

Mukim, Prashansa#; **Kale, Kimaya*** and **Mekie, Joycee**, "Impact of variations on synchronizer performance: an experimental study", *22ndIEEE International Symposium on Asynchronous Circuits and Systems,* Porto Alegre, BR, May 8-11, 2016

Pachori, Shubham* and **Raman, Shanmuganathan**, "Hashing in the zero shot framework", *23rdNational Conference on Communications (NCC),* IIT Madras, Chennai, IN, Mar 2-4, 2017

Patel, Diptiben*and **Raman, Shanmuganathan**, "Saliency and memorability driven retargeting", *11thInternational Conference on Signal Processing and Communications (SPCOM),* IISc Bangalore, IN, Jun 12-15, 2016

Patel, Kashyap*; **Kurian, Nikhil C*** and **George, Nithin V**, "Time frequency analysis: a sparse S transform approach", *2016 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS 2016)*, Phuket, TH, Oct 24-27, 2016

Patel, Vinal*; Comminiello, Danilo; Scarpiniti, Michele; **George, Nithin V** and Uncini, Aurelio, "Design of hybrid nonlinear spline adaptive filters for active noise control", *2016 International Joint Conference on Neural Networks (IJCNN 2016)*, Vancouver, CA, Jul 24-29, 2016

Patel, Vinal* and **George, Nithin V**, "Design of dynamic linear-in-the-parameters nonlinear filters for active noise control", *24thEuropean Signal Processing Conference*, Budapest, HU, Aug 29 – Sep 2, 2016

Patel, Vinal* and **George, Nithin V**, "Design of fractional order non-linear active noise control systems", *23rd International Congress on Sound and Vibration (ICSV 23)*, Athens, GR, Jul 10-14, 2016

Rakesh, Gundabathini* and **Pindoriya, Naran**, "Simulation and experimental study of single phase PWM AC/DC converter for Microgrid application", *1st International Conference on Power Electronics, Intelligent Control and Energy Systems*, Delhi Technological University, Delhi, IN, Jul 4-6, 2016

Roy, Anirban*; **Upadhyay, Abhishek***; and **Chakraborty, Arup Lal**, "High-sensitivity remote detection of atmospheric pollutants and greenhouse gases at low ppm levels using near-infrared tunable diode lasers", Proc. SPIE 9876, Remote Sensing of the Atmosphere, Clouds, and Precipitation VI, 98761W, 4-7 April 2016, New Delhi; doi:10.1117/12.2222785

Roy, Anirban*; **Upadhyay, Abhishek***; and **Chakraborty, Arup Lal**, "Open-path CO_2 measurement in indoor and outdoor environments in the Ahmedabad-Gandhinagar area using a 2004 nm tunable VCSEL", 13th International Conference on Fiber Optics and Photonics (**Photonics 2016**), 4-8 Dec 2016, Indian Institute of Technology Kanpur, IN, Dec 4-8, 2016, doi: https://doi.org/10.1364/PHOTONICS.2016.W4G.2

Sadhwani, Rahul* and **Ragavan, K**, "A comparative study of speed control methods for induction motor fed by three level inverter", *2016 IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016),* Delhi Technological University, Delhi, IN, Jul 4-6, 2016

Singh, Nikhil* and **Rajendran, S**, "Integral fast output sampling control for flexible link manipulators with LMI approach", *2016 IEEE 1stInternational Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016),* Delhi

Technological University, Delhi, IN, Jul 4-6, 2016

Sinin, Fathima* and **Mekie, Joycee**, "Comparative study of synchronizer circuits", *22nd IEEE International Symposium on Asynchronous Circuits and Systems,* Porto Alegre, BR, May 8-11, 2016

Sonane, Bhoomika*; Ramakrishnan, Sainandan and **Raman, Shanmuganathan**, "Automatic video matting through scribble propagation", *10thIndian Conference on Computer Vision, Graphics and Image Processing (ICVGIP)*, Indian Institute of Technology Guwahati, IN, Dec 18-22, 2016

Soni, Anurag* and **Hegde, Ravi S**, "Aluminum plasmonic multilayer metasurface ultraviolet bandpass filters", 3th International Conference on Fiber Optics and Photonics (**Photonics 2016**), 4-8 Dec 2016, Indian Institute of Technology Kanpur, IN, Dec 4-8, 2016

Surana, Neelam*; **Kaur, Raminder*** and **Mekie, Joycee**, "Short and deep drain MOSFET for space applications: device and circuit level analysis", *IEEE International conference on Radiation effects on Electronic Components and Systems (RADECS 2016),* Bremen, DE, Sep 19-23, 2016

Surana, Neelam*; **Soni, A#**; **Umap, Abhijit***; **Mekie, Joycee** and **Chaudhuri, S#**, "Asymmetrically doped FinFET for low-power analog applications", *3rdInternational Conference on Emerging Electronics,* IIT Bombay, IN, Dec 27-30, 2016

Teja, Subrahmanya*; **Mekie, Joycee**; Cabibihan, John-John; Thakor, Nitish V and Kukreja, Sunil L, "Fault tolerant tactile sensor arrays for prosthesis", *2016, 6thIEEE International Conference on Biomedical Robotics and Biomechatronics (BioRob)*, Singapore, SG, Jun 26-29, 2016

Upadhyay, Abhishek*; **Chakraborty, Priti***; **Roy, Anirban* and Chakraborty, Arup Lal**,"Measurement of carbon dioxide concentrations in urban built-up areas using a portable 2004 nm VCSEL-based calibration-free TDLS system with wireless data logging", **5th Field Laser Applications in Industry and Research (FLAIR 2016)**, Aix-les-Bains, France, Sep 12-16, 2016

Ved, Sneha N*; **Arya, Aparna***; **Bhange, Ankit Pritam*** and **Mekie, Joycee**, "A comparative study of input port and crossbar configurations in NoC router microarchitectures", *4thInternational Conference on Signal Processing and Integrated Networks (SPIN-2017),* Amity University, Noida, IN, Feb 2-3, 2017

Ved, Sneha N*; **Arya, Aparna***; **Bhange, Ankit Pritam*** and **Mekie, Joycee**, "Route-on-fly: a single cycle router", *4th International Conference on Signal Processing and Integrated Networks (SPIN-2017),* Amity University, Noida, IN, Feb 2-3, 2017

Ved, Sneha N*; **Gour, Arjun#**; **Arya, Aparna***; and **Mekie, Joycee**, "Route-on-fly: a single cycle router", *3rd International Conference on Emerging Electronics,* IIT Bombay, IN, Dec 27-30, 2016

Ahmad, Ziad; Bosch, Marc; **Khanna, Nitin**; Kerr, Deborah A; Boushey, Carol J; Zhu, Fengqing and Delp, Edward J, "A mobile food record for integrated dietary assessment", *2ndInternational Workshop on Multimedia Assisted Dietary Management,* Amsterdam, NL, Oct 16, 2016

Bollavaram, Manasa; **Sane, Parth***; Chowdhury, Sagar; Gupta, Satyandra K and Banerjee, Ashis G, "Automated detection of live cells and microspheres in low contrast bright field microscopy", *International Conference on Manipulation, Automation and Robotics at Small Scales (MARSS)*, Paris, FR, Jul 18-22, 2016

Duhan, Pardeep; Ramgopal Rao, V and **Mohapatra, Nihar R**, "Width and layout dependence of HC and PBTI induced degradation in HKMG nMOS transistors", *2016 IEEE International Reliability Physics Symposium (IRPS)*, Pasadena Convention Center, Pasadena, US, Apr 17-21, 2016

Kushwaha, Pragya; Agarwal, Harshit; Chauha, Yogesh S; **Bhoir, Mandar***; **Mohapatra, Nihar R**; Khandelwal, Sourabh; Duarte, Juan P; Lin, Yen-Kai; Chang, Huan-Lin and Hu, Chenming, "Predictive effective mobility model for FDSOI transistors using technology parameters", *IEEE International Conference on Electron Devices and Solid-State Circuits (EDSSC),* University of Hong Kong, Hong Kong, HK, Aug 3-5, 2016

Lork, Clement; **Rajasekhar, Batchu***; Yuen, Chau and **Pindoriya, Naran M**, "How many watts: a data driven approach to aggregated residential air-conditioning load forecasting", *3rd IEEE International Workshop on Pervasive Energy Services (PerEnergy 2017),* Kona, US, Mar 13-17, 2017

PATENTS

Lahiri, Uttama; **Patel, Megh*** and **Ramakrishna, Sai***, "A walking aid for a Parkinson's disease affected person", *Indian Patent Office*, Patent Application No.: 201621015918, May 6, 2016

HUMANITIES

BOOK CHAPTERS

Danino, Michel, "Discovering the Sarasvati river: from 1855 to 2014", *Indus-Sarasvati (Harappan) civilization vis-a-vis Rigveda*, New Delhi: B R Publishing Corporation & Draupadi Trust, 2016, pp 15-28

Danino, Michel, "Aryans and the Indus civilization: archaeological, skeletal, and molecular evidence", *A companion to South Asia in the past*, Wiley-Blackwell Publication, 2016, pp 205-224, ISBN: 9781119055488

Danino, Michel, "Environmental factors in the decline of the Indus-Sarasvati civilization", *The Environment and Indian History*, Chennai: The C P Ramaswami Aiyar Foundation, 2016, pp 132-148, ISBN: 978-93-85459-02-3

Kothari, Rita, "Lessons learnt from translating Bharat", *Translating Bharat: reading India*, Navi Mumbai: Yatra Books, 2016, pp 72-86, ISBN: 978-93-83125-12-8

BOOKS

Reddy, Srinivas (Tr), *Meghadutam* (Kalidasa), New Delhi, IN: Penguin Books, 2017 (*Transl. from Sanskrit*), ISBN: 9780670087983

Sengupta, Madhumita, *Becoming Assamese: colonialism and new subjectivities in Northeast India*, Routledge India, 2016, ISBN: 9781138676077

JOURNAL PAPERS

Danino, Michel, "Le Gentil à Pondichéry: de Vénus à l'Inde", *Synergies Inde,* no 7, pp 29-43, 2016

Danino, Michel, "Rethinking the purpose and basis of Indian education", *The New Leam,* vol 2, no 14, pp 5-7, Aug 2016

Danino, Michel, "The Riddle of the Sarasvati River", *Journal of the Oriental Institute,* Vol 65, No 1–4, pp 55–69 2016

George, Annie Rachel* and **Rath, Arnapurna**, ""Musk among perfumes": Creative Christianity in Thomas Stephens's Kristapurana", *Church History and Religious Culture,* DOI: 10.1163/18712428-09603003, vol 96, no 3, pp 304-324, 2016

George, Annie Rachel* and **Rath, Arnapurna**, "Translation, transformation and genre in the Kristapurana", *Asia Pacific Translation and Intercultural Studies,* DOI: 10.1080/23306343.2016.1243459, vol 3, no 3, pp 280-293, Nov 2016

Kothari, Rita and **Thadhani, Jasbirkaur#**, "Sindhi Sikhs in India: the missing people", *South Asia: Journal of South Asian Studies,* DOI: 10.1080/00856401.2016.1233716, vol 39, no 4, pp 873-890, Oct 2016

Kothari, Rita, "Translation, mediation, borders: English and other worlds", *Guftugu,* Mar 2017

Kumar, Priya and **Kothari, Rita**, "Sindh, 1947 and Beyond", *South Asia: Journal of South Asian Studies,* DOI: 10.1080/00856401.2016.1244752, vol 39, no 4, pp 773-789, Oct 2016

Lahiri, Sharmita, "A feminist study of Milton's Eve in Paradise Lost", *The Atlantic Review of Feminist Studies,* vol 3, no 1-2, pp 53-64, 2016

McBlane, Angus, "Expressing corporeal

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

silence: phenomenology, merleau-ponty, and posthumanism", *Word and Text: A Journal of Literary Studies and Linguistics,* vol VI, no 1, pp 149-161, Dec 2016

Mehta, Veli Milind*; Mukherjee, S and **Manjaly, Jaison A**, "Can lighting influence self-disclosure?", *Frontiers in Psychology,* DOI: 10.3389/fpsyg.2017.00234, vol 8, Feb 2017

Rath, Arnapurna, "The aesthetic cosmopolitans: Walter Pater, Rabindranath Tagore, and the quest for beauty", *JSL: Journal of the School of Language, Literature, and Culture Studies,* vol 19, pp 101-118, 2016

Reddy, Srinivas, "Look to this poem", *Muse India,* no 67, May-Jun 2016

Reddy, Srinivas, "Sanskrit at the opera", *Muse India,* no 71, Jan-Feb 2017

Thadhani, Jasbirkaur#, "Emotional intelligence of four different academic disciplines students", *Indian Journal of Health and Wellbeing,* vol 7, no 6, pp 674-677, Jun 2016

MAGAZINE/NEWSPAPER ARTICLES

Danino, Michel, "Decoding the idea of India", *The New Indian Express,* Oct 1, 2016

Danino, Michel, "Gainsaying ancient Indian science", *The New Indian Express,* Oct 14, 2016

Danino, Michel, "In defence of Indian science", *The New Indian Express,* Oct 13, 2016

Danino, Michel, "India's own sacred ecology", *The New Indian Express,* Dec 5, 2016

Danino, Michel, "Mainstream and marginal in ancient India", *The New Indian Express,* Jan 3, 2017

Danino, Michel, "The public ignoramus", *Financial Chronicle,* May 2, 2016

Danino, Michel, "The riddle of Hinduism", *The New Indian Express,* Mar 8, 2017

Danino, Michel, "The saga of the Sarasvati", *Financial Chronicle,* Jul 25, 2016

Danino, Michel, "The strange irony of Indian history", *The New Indian Express,* Sep 24, 2016

Kothari, Rita, "Of men, women, caste and cinema", *Kafila.org,* Blog, Jun 19, 2016

Kothari, Rita, "There are limits to defining Indian nationalism", *Fair Observer,* Apr 14, 2016

Revi, Rohit*, "On the need for obscene and offensive humour", *Kafila.org,* Blog, Jun 7, 2016

PAPERS PRESENTED AT CONFERENCES

Bhandari, Saumya* and **Rath, Arnapurna**, "Bahucharaji and narratives of bodily transformation", *National Seminar on Trans(gendered) Lives: Praxis of Silence and Exclusion*, Sri Guru Nanank Dev Khalsa College, New Delhi, IN, Feb 7-8, 2017

Bhandari, Saumya*, "Anxiety, aphasia, and the new queer lexicon", *8th International Seminar on The Enigma of Nature / The Enigma of the Non-Human*, IIT Gandhinagar, IN, Jan 27-28, 2017

George, Annie Rachel*, "A Tropical Eden: transformation of landscapes in the Kristapurana", *Nida School of Translation Studies 2016*, San Pellegrino University Foundation, Misano Adriatico, IT, May 30 - Jun 10, 2016

Kothari, Rita, "Sindhi Sikhs in India: the missing people", *45th Annual Conference on South Asia*, Madison, US, Oct 20-23, 2016

Mukherjee, Payel C*, "Rethinking the psychology of home: Insights from a study of the homeless in Ahmedabad", *26th Annual Convention of the National Academy of Applied Psychology*, IIT Madras, Chennai, IN, Dec 29-31, 2016

Mukherjee, Payel C*, "Silent fallibilities: poetics of the unspeakable in Saadat Hasan Manto and Ismat Chughtai", *Sahitya Akademi Symposium on Emotion, Experience, Expression: Ethics & Aesthetics*, Centre for Comparative Literature (CCL), Visva-Bharati University, Santiniketan, IN, Apr 23, 2016

Mukherjee, Payel C*, "Towards an odd kind of liberation: Rabindranath Tagore's cosmopolitan philosophy and the literary interface", *Indian Council of Philosophical Research (ICPR) National Seminar on Perspectives in Philosophy of Literature*, Department of Philosophy, University of Delhi, IN, Apr 11-13, 2016

Nampoothiri, Aparna*, "Cyborg communication – heteroglossia in the posthuman/ post-verbal world ", *International Seminar on 'The Enigma of Nature/ The Enigma of the Non-Human,* IIT Gandhinagar, IN, Jan 27-28, 2017

Pombo, Pedro, "Beyond margins: place, narratives and maritime circuits in Diu (para além das margens: lugar, narrativas e traços maritimos em Diu)", *International Congress Diu and the Diuese: multidisciplinary perspectives*, ISCTE - Instituto Universitário de Lisboa, PT, Oct 27-28, 2016

Pombo, Pedro, "Stereos, words in the wall and a Woolworths reed kitchen. Traces of emigration in South Mozambique", *International Conference "Circulations: the (un)making of Southern Africa beyond and across borders"*, French Institute of South Africa (IFAS), Johannesburg, ZA, Nov 3-4, 2016

Reddy, Srinivas, "Yoga of sound: Indian classical music as contemplative practice", *International Symposium for Contemplative Studies, Mind andLife Institute*, San Diego, CA, Nov 10-13, 2016

Sengupta, Madhumita, "Representing traditions, recasting worship: aspects of religions change in nineteenth century Assam", *International Conference: Religious Transformation in Asian History,* Australian National University, Canberra, AU, Apr 7-9, 2016

Shah, Krupa*, "Hothal and the idea of the source", in *the Colloquium on World Literature & Translation*, Institute for World Literature, Harvard University, Cambridge, US, Jul 2016.

REVIEWS

Kothari, Rita, "[Review of the book: Blossoms in the graveyard by Birendra Kumar Bhattacharyya]", *The Book Review,* vol 41, no 2, pp 32, Feb 2017

Reddy, Srinivas, "A scholar extraordinaire [Review of the book: Text and tradition in South India: with an introduction by Sanjay Subrahmanyam]", *The Book Review,* vol 41, no 1, Jan 2017

OTHERS

Subramanian, Prerna*, "To question various authenticities, including our own: striking at the root of prejudice against transgender identities", *National Conference on Transgender Rights and Law,* Indian Institute of Human Settlements, Bangalore, IN, Dec 14-15, 2016

MATERIALS SCIENCE AND ENGINEERING

E-PRINT ARCHIVES

Dwivedi, Deepak*; **Bhavsar, Vaibhav#** and **Thanki, Aditi#**, "Non-conventional porous 12CaO7Al2O3 transparent oxide semiconductor: a journey from foams to cubes", *arXiv*, Cornell University Library, DOI: arXiv:1701.07187, Jan 2017

JOURNAL PAPERS

Ajmera, Darshan* and **Panda, Emila**, "Stability of ultra-thin oxide overgrowths on binary Al-Si alloy substrate", *Journal of Materials Science,* DOI: 10.1007/s10853-016-9795-9, vol 51, no 10, pp 4902-4916, May 2016

Banjare, Pragya N*; **Sahlot, Pankaj***and **Arora, Amit**, "An assisted heating tool design for FSW of thermoplastics", *Journal of Materials Processing Technology,* DOI: 10.1016/j.jmatprotec.2016.07.035, vol 239, pp 83-91, Jan 2017

Palanivel, S; **Arora, Amit**; Doherty, K J and Mishra, RS, "A framework for shear driven dissolution of thermally stable particles during friction stir welding and processing", *Materials Science and Engineering: A,* DOI: 10.1016/j.msea.2016.10.015, vol 678, pp 308-314, Dec 2016

Patel, Tvarit* and **Panda, Emila**, "Interpreting the conductive atomic force microscopy measured inhomogeneous nanoscale surface electrical properties of Al-doped ZnO films", *Surface and Interface Analysis,* DOI: 10.1002/sia.6048, vol 48, no 13, pp 1384-1391, Dec 2016

Sarkar, Aditya*; Saravanan, K; Nayan, Niraj; Narayana, Murty, S V S; Narayanan, P Ramesh; Venkitakrishnan, P V and **Mukhopadhyay, Jyoti**, "Microstructure and mechanical properties of cryorolled aluminum alloy AA2219 in different thermomechanical processing conditions", *Metallurgical and Materials Transactions A,* DOI: 10.1007/s11661-016-3807-x, vol 48, no 1, pp 321-341,Jan 2017

Saxena, Krishna Kumar*; Drotleff, Klaus and **Mukhopadhyay, Jyoti**, "Elevated temperature forming limit strain diagrams of automotive alloys Al6014-T4 and DP600: a case study", *The Journal of Strain Analysis for Engineering Design,* DOI: 10.1177/0309324716651028, vol 51, no 6, pp 459-470, Aug 2016

Singh, Chetan* and **Panda, Emila**, "Variation of electrical properties in thickening Al-doped ZnO films: role of defect chemistry", *RSC Advances,* DOI: 10.1039/C6RA06513A, vol 6, no 54, pp 48910-48918, May 2016

Choua, R; Ghosha, A; Choua, S C; **Paliwal, Manas** and Brochua, M, "Microstructure and mechanical properties of Al10SiMg fabricated by Pulsed laser powder bed fusion", *Materials Science and Engineering: A,* DOI: 10.1016/j.msea.2017.02.023, vol 689, pp 53-62, Mar 2017

Murty, S V S Narayana; **Sarkar, Aditya***; Narayanan, P Ramesh; Venkitakrishnan, P V and **Mukhopadhyay, Jyoti**, "Microstructure and micro-texture evolution during large strain deformation of aluminium alloy AA 2219", *Materials Science and Engineering: A,* DOI: 10.1016/j.msea.2016.09.027, vol 677, pp 41-49, Nov 2016

PAPERS PRESENTED AT CONFERENCES

Arora, Amit; Astarita, A; Boccarusso, L and **Mahesh, V P***, "Experimental characterization of metal matrix composite with aluminium matrix and molybdenum powders as reinforcement", *International Symposium on Dynamic Response and Failure of Composite Materials,* Hotel Continental Terme, Island of Ischia, IT, Sep 7-9, 2016

Bandaru, Narendra* and **Panda, Emila**, "Influence of zinc interstitials and oxygen vacancies in carrier concentrations of Al doped ZnO thin films fabricated by sol-gel spin coating", *International Conference on Functional Materials (ICFM - 2016)*, Indian Institute of Technology Kharagpur, IN, Dec 12-14, 2016

Bandaru, Narendra* and **Panda, Emila**, "Oxidation behavior of rare earth SmCo5 magnetic thin films", *4thInternational Conference for Advanced Materials and Materials Processing (ICAMMP-IV)*, Indian Institute of Technology Kharagpur, IN, Nov 5-7, 2016

Mahesh, V P* and **Arora, Amit**, "Aluminium-molybdenum system by friction stir surface alloying process", *4thInternational Conference for Advanced Materials and Materials Processing (ICAMMP-IV),* Indian Institute of Technology Kharagpur, IN, Nov 5-7, 2016

Mahesh, V P*; **Singh**, **Amit Kumar#**; **Sahlot, Pankaj*** and **Arora, Amit**, "Advanced joining and processing of materials research at IIT Gandhinagar", *Young Professional Seminar on - Advances in Welding Technology and Automation*, Ahmedabad, IN, Oct 1, 2016

Majhi, Sasmita* and **Mishra, Abhijit**, "Developing self-disinfecting surface coatings using antimicrobial peptides", *International Conference of Young Researchers on Advanced Materials (IUMRS-ICYRAM 2016)*, Indian Institute of Science Bangalore, IN, Dec 11-15, 2016

Manwani, Krishna*; **Ajmera, Darshan*** and **Panda, Emila**, "Thermodynamics of ultra-thin oxide overgrowths on binary AlSi alloys", *4thInternational Conference for Advanced Materials and Materials Processing (ICAMMP-IV)*, Indian Institute of Technology Kharagpur, IN, Nov 5-7, 2016

Patel, Tvarit* and **Panda, Emila**, "Role of tip geometry in conductive atomic force microscopy for investigating nanoscale surface electrical properties of Al-doped ZnO films", *International Conference on Functional Materials (ICFM - 2016)*, Indian Institute of Technology Kharagpur, IN, Dec 12-14, 2016

Ratrey, Poonam*; **Saha, Sarmistha#** and **Mishra, Abhijit**, "Study of interaction of Lasioglossin-III with lipid bilayers by molecular dynamics simulations", *International Conference on Soft Materials (ICSM 2016)*, Jaipur, IN, Dec 12-16, 2016

Sahlot, Pankaj* and **Arora, Amit**, "Estimation of tool wear during friction stir welding of CuCrZr alloy", *11thInternational symposium on Friction Stir Welding*, TWI Ltd, Cambridge, GB, May 17-19, 2016

Sahlot, Pankaj; Jha, Kaushal and **Arora, Amit**, "Tool wear during friction stir welding of CuCrZr alloy: a quantitative experimental study", *11thInternational Symposium on Friction Stir Welding*, TWI Ltd, Cambridge, GB, May 17-19, 2016

Saxena, Krishna Kumar*; **Mukhopadhyay, Jyoti** and Ramesh, K V, "Formability characterization of aluminum lithium alloys used in spacecraft industry", *International Mechanical Engineering Congress andExposition (IMECE)*, Phoenix Convention Center, Phoenix, US, Nov 11 - 17, 2016

Singh, Amit Kumar#; **Sahlot, Pankaj*** and **Arora, Amit**, "Heat transfer and material flow numerical modeling for joining of dissimilar materials- Al 6061-T6 - AZ31", *4thInternational conference on Advances in Materials and Materials processing (ICAMMP-IV)*, IIT Kharagpur, West Bengal, IN, Nov 05-07, 2016

Singh, Chetan* and **Panda, Emila**, "Understanding the origin of electrical properties in Al doped ZnO films", *European Materials Research Society Spring meeting 2016*, Lille Grand Palais, Lille, FR, May 2-6, 2016

Singh, Chetan* and **Panda, Emila**, "Shape dependent optoelectronic properties of SnS powders through optical and scanning tunnelling spectroscopy", *International Conference on Functional Materials,* Indian Institute of Technology Kharagpur, Kharagpur, IN, Dec 12-14, 2016

POSTERS PRESENTED

Majhi, Sasmita*; **Arora, Ankita*** and **Mishra, Abhijit**, "Design and characterization of novel antimicrobial peptide with improved antibacterial activity", *6thIndian Peptide Symposium*, Homi Bhabha Centre for Science Education (HBCSE), Mumbai, IN, Feb 23-24, 2017

Majhi, Sasmita*; **Arora, Ankita*** and **Mishra, Abhijit**, "Rational design and characterization of novel antimicrobial peptides (AMPs)", *Chemistry of light & Medicine*, Indian Institute of Technology Gandhinagar, IN, Dec 8-9, 2016

Majhi, Sasmita* and **Mishra, Abhijit**, "Developing self-disinfecting surface coatings using antimicrobial peptides", *International Conference of Young Researchers on Advanced Materials (IUMRS-ICYRAM 2016)*, Indian Institute of Science Bangalore, IN, Dec 11-15, 2016

MATHEMATICS

E-PRINT ARCHIVES

Dwivedi, Gaurav* and **Tyagi**, **Jagmohan**, "Singular Adams inequality for biharmonic operator on Heisenberg group and its applications", *arXiv*, Cornell University Library, DOI: arXiv:1606.06414, Jun 2016

Dwivedi, Gaurav* and **Tyagi**, **Jagmohan**, "Stability of positive solutions to biharmonic equations on Heisenberg group", *arXiv*, Cornell University Library, DOI: arXiv:1606.06413, Jun 2016

Dwivedi, Gaurav*; **Tyagi**, **Jagmohan** and

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

Verma, Ram Baran*, "On the bifurcation for fractional Laplace equations", *arXiv*, Cornell University Library, DOI: arXiv:1606.04452, Jun 2016

Kour, Surjeet, "On nth class preserving automorphisms of n-isoclinism family", *arXiv*, Cornell University Library, DOI: arXiv:1701.05438, Jan 2017

Banerjee, Koustav and **Dixit**, **Atul**, "New representations for σ(q) via reciprocity theorems", *arXiv*, Cornell University Library, DOI: arXiv:1607.05651, Jul 2016

Berndt, Bruce C; **Dixit**, **Atul**; Kim, Sun and Zaharescu, Alexandru, "On a theorem of A I Popov on sums of squares", *arXiv*, Cornell University Library, DOI: arXiv:1610.05840, Oct 2016

Berndt, Bruce C; **Dixit**, **Atul**; Kim, Sun and Zaharescu, Alexandru, "Sums of squares and products of Bessel functions", *arXiv*, Cornell University Library, DOI: arXiv:1701.07460, Jan 2017

Berndt, Bruce C; **Dixit**, **Atul**; Roy, Arindam and Zaharescu, Alexandru, "New pathways and connections in number theory and analysis motivated by two incorrect claims of Ramanujan", *arXiv*, Cornell University Library, DOI: arXiv:1608.03670, Aug 2016

Kumar, Anil; Pani, Amiya K and **Joshi**, **Mohan C**, "Approximate controllability of a class of partial integro-differential equations of parabolic type", *arXiv*, Cornell University Library, DOI: arXiv:1606.03673, Jun 2016

Saha, Joydip; **Sengupta, Indranath** and Tripathi, Gaurab, "Betti numbers of certain sum ideals", *arXiv*, Cornell University Library, DOI: arXiv:1611.04732, Nov 2016

Saha, Joydip; **Sengupta, Indranath** and Tripathi, Gaurab, "Ideals of the form $I_1(XY)$", *arXiv*, Cornell University Library, DOI: arXiv:1609.02765, Sep 2016

Saha, Joydip; **Sengupta, Indranath** and Tripathi, Gaurab, "Primality of certain determinantal ideals", *arXiv*, Cornell University Library, DOI: arXiv:1610.00926, Oct 2016

Saha, Joydip; **Sengupta**, **Indranath** and Tripathi, Gurab, "Regular sequences from determinantal conditions", *arXiv*, Cornell University Library, DOI: arXiv:1703.01756, Mar 2017

JOURNAL PAPERS

Dixit, Atul; Glasser, M Lawrence; Moll, Victor H and Vignat, Christophe, "Asymptotics and exact formulas for Zagier polynomials", *Research in Number Theory,* DOI: 10.1007/s40993-016-0044-8, vol 2, no 1, Dec 2016

Dwivedi, Gaurav* and **Tyagi**, **Jagmohan**, "A note on the Caccioppoli inequality for biharmonic operators", *Mediterranean Journal of Mathematics,* DOI: 10.1007/s00009-015-0620-5, vol 13, no 4, pp 1823-1828, Jul 2016

Dwivedi, **Gaurav*** and **Tyagi**, **Jagmohan**, "Singular Adams inequality for biharmonic operator on Heisenberg Group and its applications", *Nonlinear Differential Equations and Applications NoDEA,* DOI: 10.1007/s00030-016-0412-z, vol 23, no 6, Dec 2016

Dwivedi, Gaurav*; **Tyagi, Jagmohan** and **Verma, Ram Baran***, "On the bifurcation results for fractional Laplace equations", *Mathematische Nachrichten*, Wiley-VCH Verlag, DOI: 10.1002/mana.201600250, Jan 2017

Dwivedi, Gaurav* and **Tyagi, Jagmohan**, "Picone's identity for biharmonic operators on Heisenberg group and its applications", *Nonlinear Differential Equations and Applications NoDEA,* DOI: 10.1007/s00030-016-0376-z, vol 23, no 2, Apr 2016

Dwivedi, Gaurav* and **Tyagi, Jagmohan**, "Some qualitative questions on the equation $-\mathrm{div}(a(x,u,\nabla u))=f(x,u)$", *Journal of Mathematical Analysis and Applications,* DOI: 10.1016/j.jmaa.2016.08.048, vol 446, no 1, pp 456-469, Feb 2017

Kour, Surjeet, "Simple derivations on tensor product of polynomial algebras", *Journal of Algebra and its Applications,* DOI: 10.1142/S0219498817500839, vol 16, no 5 Apr 2016

Pahlajani, Chetan D, "Randomly perturbed switching dynamics of a dc/dc converter", *Discrete and Continuous Dynamical Systems - Series B*, DOI: 10.3934/dcdsb.2017027, vol 22, no 2, pp 569-584, Mar 2017

Srivastava, Akanksha#, "An iterative method with fifteenth-order convergence to solve systems of nonlinear equations", *Computational Mathematics and Modeling,* DOI: 10.1007/s10598-016-9339-9, vol 27, no 4, pp 497-510, Aug 2016

Tyagi, Jagmohan and **Verma, Ram Baran***, "A survey on the existence, uniqueness and regularity questions to fully nonlinear elliptic partial differential equations", *Differential Equations and Applications,* DOI: 10.7153/dea-08-09, vol 8, no 2, pp 135-205, May 2016

Berndt, Bruce C; **Dixit, Atul**; Roy, Arindam and Zaharescu, Alexandru, "New pathways and connections in number theory and analysis motivated by two incorrect claims of Ramanujan", *Advances in Mathematics,* DOI: 10.1016/j.aim.2016.08.011, vol 304, pp 809-929, Jan 2017

Roy, Achintya Kumar; **Sengupta**, **Indranath** and Tripathi, Gaurab, "Minimal graded free resolutions for monomial curves in $\mathbb{A}^4$ defined by almost arithmetic sequences", *Communications in Algebra,* DOI: 10.1080/00927872.2016.1175580, vol 45, no 2, pp 521-551, Feb 2017

PAPERS PRESENTED AT CONFERENCES

Pahlajani, Chetan D; Yadav, Indrajeet; Tanner, Herbert G and Poulakakis, Ioannis, "Decision-making accuracy for sensor networks with inhomogeneous Poisson observations", *13thInternational Symposium on Distributed Autonomous Robotic Systems (DARS 2016)*, London, GB, Nov 6-9, 2016

Saha, Joudip; **Sengupta, Indranath** and Tripathi, Gaurab, "Gröbner bases for $I_1(XY)$", *XV Encuentro de Álgebra computacional y aplicaciones: EACA 2016*, Universidad de La Rioja, ES, 2016

MECHANICAL ENGINEERING

E-PRINT ARCHIVES

Narayanan, Vinod and **Bhoraniya, Ramesh***, "Global stability analysis of axisymmetric boundary layer over a circular cone", *arXiv*, Cornell University Library, DOI: arXiv:1608.07695, Aug 2016

Parejiya, Anand#; **Chaudhary, Manjeet***; **Valleti, Sai Mani Prudhvi***; **Dixit, Marm#**; **Bhargav, Atul** and Choudhury, Suman Roy, "Understanding the negative temperature coefficient phenomenon in methane-air mixtures at high pressures", *arXiv*, Cornell University Library, DOI: arXiv:1611.09468, Nov 2016

Sarode, Ajinkya*; **Ahmed, Zeeshan***; **Basarkar, Pratik#**; **Bhargav, Atul** and Banerjee, Debjyoti, "Effect of carbon nanotube diameter on thermal interfacial resistance through the analysis of vibrational mismatch: a molecular dynamics approach", *arXiv*, Cornell University Library, DOI: arXiv:1607.03379, Jul 2016

JOURNAL PAPERS

Dixit, Marm#; **Baruah, Renika***; **Parikh, Dhrupad#**; **Sharma, Sudhanshu** and **Bhargav, Atul**, "Autothermal reforming of methane on rhodium catalysts: microkinetic analysis for model reduction", *Computers and Chemical Engineering,* DOI: 10.1016/j.compchemeng.2016.03.032, vol 89, pp 149-157, Jun 2016

Navarkar, Abhishek*; Amiroudine, S; Demekhin, E A; Ghosh, U and Chakraborty, S, "Long-wave interface instabilities of a two-layer system under periodic excitation for thin films", *Microfluidics and Nanofluidics,* DOI: 10.1007/s10404-016-1812-4, vol 20, no 11, Nov 2016

Shah, Vrutangkumar V*; **Goyal, Sachin*** and **Palanthandalam Madapusi, Harish J**, "Clinical facts along with a feedback control perspective suggest that increased response time might be the cause of Parkinsonian rest tremor", *Journal of Computational and Nonlinear Dynamics,*

DOI: 10.1115/1.4034050, vol 12, no 1, Sep 2016

Singh, Sumit* and Chandar, Dominic, "Effects of thermal induced buoyancy forces on the vortex shedding of a circular cylinder", *International Communications in Heat and Mass Transfer,* DOI: 10.1016/j.icheatmasstransfer.2016.05.012, vol 76, pp 215-224, Aug 2016

Sundaram, Dilip Srinivas; Puri, Puneesh and Yang, Vigor, "A general theory of ignition and combustion of nano- and micron-sized aluminum particles", *Combustion and Flame,* DOI: 10.1016/j.combustflame.2016.04.005, vol 169, pp 94-109, Jul 2016

Vashista, Vineet; Khan, Moiz and Agrawal, Sunil K, "A novel approach to apply gait synchronized external forces on the pelvis using A-TPAD to reduce walking effort", *IEEE Robotics and Automation Letters,* DOI: 10.1109/LRA.2016.2522083, vol 1, no 2, Jul 2016

Demekhin, E A; Ganchenko, G S; **Navarkar, Abhishek***and Amiroudine, S, "The stability of two layer dielectric-electrolyte micro-flow subjected to an external electric field", *Physics of Fluids,* DOI: 10.1063/1.4961976, vol 28, no 9, Sep 2016

Inayat, M; Sulaiman, S A; **Kumar, A#** and Guangul, F M, "Effect of fuel particle size and blending ratio on syngas production and performance of co-gasification", *Journal of Mechanical Engineering and Sciences,* DOI: 10.15282/jmes.10.2.2016.21.0205, vol 10, no 2, pp 2187-2199, Sep 2016

Martelli, Dario; **Vashista, Vineet**; Micera, Silvestro and Agrawal, Sunil K, "Direction-dependent adaptation of dynamic gait stability following waist-pull perturbations", *IEEE Transactions on Neural Systems and Rehabilitation Engineering,* DOI: 10.1109/TNSRE.2015.2500100, vol 24, no 12, pp 1304-1313, Nov 2016

Muraleedharan, Murali Gopal; **Sundaram, Dilip**; Henry, Asegun and Yang, Vigor, "Thermal conductivity calculation of nano-suspensions using Green-Kubo relations with reduced artificial correlations", *Journal of Physics: Condensed Matter,* DOI: 10.1088/1361-648X/aa5f08, vol 29, no 15, Feb 2017

Sreeja, S and **Hablani, H B**, "Precision munition guidance and moving-target estimation", *Journal of Guidance, Control, and Dynamics,* DOI: 10.2514/1.G000382, vol 39, no 9, pp 2100-2111, Sep 2016

Starosvetsky, Yuli; **Jayaprakash, K R** and Vakakis, Alexander F, "Traveling and solitary waves in monodisperse and dimer granular chains", *International Journal of Modern Physics B: condensed Matter Physics; Statistical Physics; Atomic, Molecular and Optical Physics*, DOI: 10.1142/S0217979217420012, vol 31, no 10, Mar 2017

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

Sulochana; Sreeja; **Hablani, Hari B** and Arya, Hemendra, "Precision targeting in guided munition using infrared sensor and millimeter wave radar", *Journal of Applied Remote Sensing,* DOI: 10.1117/1.JRS.10.036002, vol 10, no 3, Jul 2016

PAPERS PRESENTED AT CONFERENCES

Bhoraniya, Ramesh* and **Narayanan, Vinod**,"Evaluation of the outflow boundary conditions for Bi-Global stability analysis of axisymmetric boundary layer", *6thInternational and 43rdNational Conference on Fluid Mechanics andFluid Power*, Motilal Nehru National Institute of Technology, Allahabad, IN, Dec 15-17, 2016

Bhoraniya, Ramesh* and **Narayanan, Vinod**,"Global stability analysis of axisymmetric boundary layer over a circular cone", *15thAsian Congress of Fluid Mechanics (15ACFM)*, Pullman Hotel, Kuching, MY, Nov 21-23, 2016

Debiasi, Marco T; Cui, Yongdong; Damodaran, Murali; Cruz, Joseph Dela; Tan, Jian Hao; **Raut, Abhishek*** and **Shah, Shrey**, "Study on aerodynamics of annular wing for unmanned aerial vehicles", *55thAIAA Aerospace Sciences Meeting, AIAA SciTech Forum*, Gaylord Texan, Grapevine, US, Jan 9-13, 2017

Fulpagare, Yogesh*; Joshi, Yogendra and **Bhargav, Atul**, "Rack level transient CFD modeling of data center", *4thInternational Conference on Computational Methods for Thermal Problems (ThermaComp2016)*, Georgia Tech, Atlanta, US, Jul 6-8, 2016

Fulpagare, Yogesh*; Joshi, Yogendra and **Bhargav, Atul**, "Transient characterization of data center racks", *ASME 2016 International Mechanical Engineering Congress and Exposition*, Phoenix, US, Nov 11-17, 2016

Fulpagare, Yogesh*; **Bhargav, Atul** and **Shirbhate, Pratik***, "Design and testing of prototype data center", *Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems (ITHERM 2016)*, Cosmopolitan Hotel, Las Vegas, US, May 31 - Jun 3, 2016

Hablani, H B, "Applied research and teaching contributions in space flight vehicles guidance, navigation and control", *Indian National Academy of Engineering,* INAE Annals, 2016

Jhaveri, Anshal*; **Kushare, Mayuri***and **Bhargav, Atul**, "Radiation heat transfer in imaging infrared spectrometer", *COMSOL Conference 2016,* Bangalore, IN, Oct 20-21, 2016

Kant, Ravi* and **Narayanan, Vinod**, "Effect of boundary inputs in active flow control of plane poiseuille flow through systems approach", *6thInternational and 43rdNational Conference on Fluid Mechanics andFluid Power*, Motilal Nehru National Institute of Technology, Allahabad, IN, Dec 15-17, 2016

Singh, Gaurav Kumar#; **Chavan, Roshan***; **Shah, Vrutangkumar V***; **Dahale, Ajinkya P*** and **Palanthandalam Madapusi, Harish J**, "Backward-in-time input reconstruction", *2016 American Control Conference (ACC),* Boston, US, Jul 6-8, 2016

Sinha, Ankita* and **Bhargav, Atul**, "Mathematical modelling of the foaming stage in batch microcellular process", *14thInternational Conference on Advances in Foam Materials & Technology,* Washington, US, Sep 14-15, 2016

Sundaram, Dilip Srinivas and Yang, V, "Heat transfer between nano-aluminum and ambient gases", *International Conference on Nanoenergetic Materials and Nanoenergetics*, Almaty, KZ, Sep 13-15, 2016

POSTERS PRESENTED

Kumar, Manish* and **Vashista, Vineet**, "Wearable pressure sensor to detect critical gait events", *International Conference on Robotics and Automation for Humanitarian Applications (RAHA),* Amrita University, University, IN, Dec 18-20, 2016

Kumar, Brijesh; **Bhargav, Atul** and Ruch, Patrick, "Miniaturized redox flow batteries for electronic applications: CFD modeling", *PRiME 2016*, Honolulu, US, Oct 2-7, 2016

Muraleedharan, M G; **Sundaram, Dilip Srinivas** and Yang, V, "Mechanisms of heat transport in nano-suspensions under extreme conditions", *International Conference on Nanoenergetic Materials and Nanoenergetics*, Almaty, KZ, Sep 13-15, 2016

Narayanan, Thejas; Rajendran, Vishnu S and **Vashista, Vineet**, "A cable driven material handling robot for agricultural sector", *International Conference on Robotics and Automation for Humanitarian Applications (RAHA),* Amrita University, University, IN, Dec 18-20, 2016

PHYSICS

E-PRINT ARCHIVES

Apurv Chaitanya, N*; Jabir, M V; Banerji, J and Goutam K Samanta, "Hollow Gaussian beam generation through nonlinear interaction of photons with orbital-angular-momemtum", *arXiv*, Cornell University Library, DOI: arXiv:1606.09005, Jun 2016

Arya, Richa*; Mahajan, Namit and Rangarajan, Raghavan, "Gravitino production in a thermal Universe revisited", *arXiv*, Cornell University Library, DOI: arXiv:1608.03386, Aug 2016

Bandyopadhyay, Soumik*; Roy, Arko and Angom, Dilip Singh, "Dynamics of phase separation in two species Bose-Einstein condensates with vortices", *arXiv*, Cornell

University Library, DOI: arXiv:1702.08204, Feb 2017

Bhalla, Pankaj*; **Kumar, Pradeep***; Das, Nabyendu and Singh, Navinder, "Finite frequency Seebeck coefficient of metals: a memory function approach", *arXiv*, Cornell University Library, DOI: arXiv:1609.06876, Sep 2016

Bhalla, Pankaj*; **Kumar, Pradeep***; Das, Nabyendu and Singh, Navinder, "Theory of the dynamical thermal conductivity of metals", *arXiv*, Cornell University Library, DOI: arXiv:1606.02124, Jun 2016

Bhalla, Pankaj*, "Role of acoustic phonons in frequency dependent thermal conductivity of graphene", *arXiv*, Cornell University Library, DOI: arXiv:1609.01941, Sep 2016

Bhattacharjee, Srijit*; Maity, Debaprasad and Mukherjee, Rupak, "Constraining scalar-gauss-bonnet inflation by reheating, unitarity and PLANCK", *arXiv*, Cornell University Library, DOI: arXiv:1606.00698, Apr 2016

C, Fairoos*; **Sarkar, Sudipta** and Yogendran, K P, "Higher curvature self-interaction corrections to hawking radiation", *arXiv*, Cornell University Library, DOI: arXiv:1703.10760, Mar 2017

Coleppa, Baradhwaj; Kumar, Mukesh; **Kumar, Satendra#**and Mellado, Bruce, "Measuring CP nature of top-Higgs couplings at the future Large Hadron electron collider", *arXiv*, Cornell University Library, DOI: arXiv:1702.03426, Feb 2017

Enduri, Murali Krishna* and **Jolad, Shivakumar**, "Estimation of reproduction number and non-stationary spectral analysis of dengue epidemic", *arXiv*, Cornell University Library, DOI: arXiv:1611.05741, Nov 2016

Gurudatt, Gaur *et al, "Search for gravitational waves associated with gamma-ray bursts during the first advanced LIGO observing run and implications for the origin of GRB 150906B", *arXiv*, Cornell University Library, DOI: arXiv:1611.07947, May 2016

Gurudatt, Gaur *et al, "Search for transient gravitational waves in coincidence with short duration radio transients during 2007-2013", *arXiv*, Cornell University Library, DOI: arXiv:1605.01707, May 2016

Hati, Chandan*; Patra, Sudhanwa; Reig, Mario; Valle, José W F and Carlos A Vaquera-Araujo, "Towards gauge coupling unification in left-right symmetric $SU(3)_c \times SU(3)_L \times SU(3)_R \times U(1)_X$ theories", *arXiv*, Cornell University Library, DOI: arXiv:1703.09647, Mar 2017

Jamal, M Yousuf*; **Mitra, Sukanya#** and **Chandra, Vinod**, "Collective excitations of hot QCD medium in a quasi-particle description", *arXiv*, Cornell University Library, DOI: arXiv:1701.06162, Jan 2017

Kaur, Navpreet*et al, "Multiwavelength observations of a VHE gamma-ray flare from PKS 1510-089 in 2015", *arXiv*, Cornell University Library, DOI: arXiv:1610.09416, Oct 2016

Kumar, Akash*; **Sengupta, Anand** and Ganesh, Shashikiran, "Autonomous dome for robotic telescope", *arXiv*, Cornell University Library, DOI: arXiv:1604.08370, Apr 2016

Mitra, Sukanya# and **Chandra, Vinod**, "Thermal relaxation, electrical conductivity and charge diffusion in a Hot QCD medium", *arXiv*, Cornell University Library, DOI: arXiv:1606.08556, Jun 2016

Mitra, Sukanya# and **Chandra, Vinod**, "Transport coefficients of a hot QCD medium and their relative significance in heavy-ion collisions", *arXiv*, Cornell University Library, DOI: arXiv:1702.05728, Feb 2017

Nath, Newton*; Goswami, Srubabati and Deepthi, K N, "Generalized degeneracies and their resolution in neutrino oscillation experiments", *arXiv*, Cornell University Library, DOI: arXiv:1703.00245, Mar 2017

Nath, Newton*; Ghosh, Monojit and Goswami, Srubabati, "What antineutrinos can tell about octant and δ_{CP} in DUNE?",*arXiv*, Cornell University Library, DOI: arXiv:1611.03635, Nov 2016

Nath, Newton*; Ghosh, Monojit; Goswami, Srubabati and Gupta, Shivani, "Phenomenological study of extended seesaw model for light sterile neutrino", *arXiv*, Cornell University Library, DOI: arXiv:1610.09090, Oct 2016

Pandey, Arun Kumar*, "A study on the collective behavior of chiral plasma using first and second order conformal hydrodynamics", *arXiv*, Cornell University Library, DOI: arXiv:1609.01848, Sep 2016

Roy, Soumen*; **Sengupta, Anand S** and **Thakor, Nilay*,** "A hybrid geometric-random template placement algorithm for gravitational wave searches from compact binary coalescences", *arXiv*, Cornell University Library, DOI: arXiv:1702.06771, Feb 2017

Sengupta, Anand et al, "All-sky search for short gravitational-wave bursts in the first Advanced LIGO run", *arXiv*, Cornell University Library, DOI: arXiv:1611.02972, Nov 2016

Sengupta, Anand et al," The basic physics of the binary black hole merger GW150914", *arXiv*, Cornell University Library, DOI: arXiv:1608.01940, Aug 2016

Sengupta, Anand et al, "An improved analysis of GW150914 using a fully spin-precessing waveform model", *arXiv*, Cornell University Library, DOI: arXiv:1606.01210, Jun 2016

Sengupta, Anand et al, "Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data", *arXiv*, Cornell University Library, DOI: arXiv:1605.03233, May 2016

Sengupta, Anand et al, "Directional limits on persistent gravitational waves from Advanced LIGO's first observing run", *arXiv*, Cornell University Library, DOI: arXiv:1612.02030, Dec 2016

Sengupta, Anand et al, "First search for gravitational waves from known pulsars with Advanced LIGO", *arXiv*, Cornell University Library, DOI: arXiv:1701.07709, Jan 2017

Sengupta, Anand et al, "Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544", *arXiv*, Cornell University Library, DOI: arXiv:1607.02216, Jul 2016

Sengupta, Anand et al, "The sensitivity of the advanced LIGO detectors at the beginning of gravitational wave Astronomy", *arXiv*, Cornell University Library, DOI: arXiv:1604.00439, Apr 2016

Sengupta, Anand et al, "Upper limits on the rates of binary neutron star and neutron-star--black-hole mergers from Advanced LIGO's first observing run", *arXiv*, Cornell University Library, DOI: arXiv:1607.07456, Jul 2016

Sengupta, Anand et al, "Upper limits on the stochastic gravitational-wave background from advanced LIGO's first observing run", *arXiv*, Cornell University Library, DOI: arXiv:1612.02029, Dec 2016

Suthar, Kuldeep* and Angom, Dilip Singh, "Thermal fluctuations enhanced miscibility of binary condensates in optical lattices", *arXiv*, Cornell University Library, DOI: arXiv:1608.04629, Aug 2016

Venkataramani, Kumar*; Ghetiya, Satyesh; Ganesh, Shashikiran; Joshi, Umesh C; Agnihotri, Vikrant K and Kiran S Baliyan, "Optical spectroscopy of comet C/2014 Q2 (Lovejoy) from MIRO", *arXiv*, Cornell University Library, DOI: arXiv:1607.06682, Jul 2016

Agotiya, Vineet K; **Chandra, Vinod**; **Jamal, M Yousuf***and Nilima, Indrani, "Dissociation of heavy quarkonium in hot QCD medium in a quasi-particle model", *arXiv*, Cornell University Library, DOI: arXiv:1610.03170, Oct 2016

Bhatt, Jitesh R and **George**, **Manu***, "Neutrino induced vorticity, Alfven waves and the normal modes", *arXiv*, Cornell University Library, DOI: arXiv:1608.05558, Aug 2016

Bhattacharjee, Srijit; **Sarkar**, **Sudipta** and Virmani, Amitabh, "Internal structure of charged adS black holes", *arXiv*, Cornell University Library, DOI: arXiv:1604.03730, Apr 2016

Das, Diganta; **Hati**, **Chandan***; **Kumar, Girish***and Mahajan, Namit, "Towards a unified explanation of $R_{D^{(*)}}$, R_K and $(g-2)_\mu$ anomalies in a L-R mode", *arXiv*, Cornell

University Library, DOI: arXiv:1605.06313, May 2016

Dasgupta, Arnab; **Hati**, **Chandan***; Patra, Sudhanwa and Sarkar, Utpal, "A minimal model of TeV scale WIMPy leptogenesis", *arXiv*, Cornell University Library, DOI: arXiv:1605.01292, May 2016

Deepthi, K N; Goswami, Srubabati and **Nath, Newton***, "Nonstandard interactions jeopardizing the hierarchy sensitivity of DUNE", *arXiv*, Cornell University Library, DOI: arXiv:1612.00784, Dec 2016

Deppisch, Frank F; **Hati, Chandan***; Patra, Sudhanwa; Pritimita, Prativa and Sarkar, Utpal, "Neutrinoless double beta decay in left-right symmetry with universal seesaw", *arXiv*, Cornell University Library, DOI: arXiv:1701.02107, Jan 2017

Deppisch, Frank F; **Hati, Chandan***; Patra, Sudhanwa; Sarkar, Utpal and Valle, Josè W F, "331 models and grand unification: from minimal SU(5) to minimal SU(6)", *arXiv*, Cornell University Library, DOI: arXiv:1608.05334, Aug 2016

Perumangatt, Chithrabhanu; **Lal, Nijil***; Anwar, Ali; Reddy, Salla Gangi and Singh Ravindra Pratap, "Quantum information with even/odd states of orbital angular momentum of light", *arXiv*, Cornell University Library, DOI: arXiv:1607.06422, Jul 2016

JOURNAL PAPERS

Aadhi, A*; **Apurv Chaitanya, N***; Jabir, M V; Vaity, Pravin; Singh Ravindra Pratap and Samanta, Goutam Kumar, "Airy beam optical parametric oscillator", *Scientific Reports,* DOI: 10.1038/srep25245, vol 6, May 2016

Apurv Chaitanya, N*; Jabir, M V and Samanta, Goutam Kumar, "Efficient nonlinear generation of high power, higher order, ultrafast "perfect" vortices in green", *Journal of Thermal Analysis and Calorimetry*, DOI: 10.1364/OL.41.001348, vol 41, no 7, pp 1348-1351, Apr 2016

Apurv Chaitanya, N*;Suddapalli, Chaitanya Kumar; Devi, Kavita; Samanta, Goutam Kumar and Ebrahim-Zadeh, M, "Ultrafast optical vortex beam generation in the ultraviolet", *Optics Letters*, DOI: 10.1364/OL.41.002715, vol 41, no 12, pp 2715-2718, Jun 2016

Apurv Chaitanya, **N***; Chaitanya Kumar, S; Aadhi, A; Samanta, Goutam Kumar and Ebrahim-Zadeh, M, "Ultrafast Airy beam optical parametric oscillator", *Scientific Reports,* DOI: 10.1038/srep30701, vol 6, Jul 2016

Apurv Chaitanya, N*; Jabir, M V; Banerji, J and Samanta, Goutam Kumar, "Hollow Gaussian beam generation through nonlinear interaction of photons with orbital angular momentum", *Scientific Reports,* DOI: 10.1038/srep32464, vol 6, Sep 2016

Bhalla, Pankaj*; **Kumar, Pradeep***; Das, Nabyendu and Singh, Navinder, "Theory of the dynamical thermal conductivity of metals", *Physical Review B,* DOI: 10.1103/PhysRevB.94.115114, vol 94, no 11, Sep 2016

Bhalla, Pankaj*; Das, Nabyendu and Singh, Navinder, "Moment expansion to the memory function for generalized Drude scattering rate", *Physics Letters A,* DOI: 10.1016/j.physleta.2016.04.010, vol 380, no 22-23, pp 2000-2007, May 2016

Bhalla, Pankaj*, "Role of acoustic phonons in frequency dependent electronic thermal conductivity of graphene", *Physics Letters A,* DOI: 10.1016/j.physleta.2017.01.006, vol 381, no 10, pp 924-930, Jan 2017

Bhattacharjee, Srijit*; Bhattacharyya, Arpan; **Sarkar, Sudipta** and Sinha, Aninda, "Entropy functionals and c-theorems from the second law", *Physical Review D,* DOI: 10.1103/PhysRevD.93.104045, vol 93, no 10, May 2016

Chandra, Naveen*; Lal, Shyam; Venkataramani, S; Patra, Prabir K and Sheel, Varun, "Temporal variations of atmospheric CO_2 and CO at Ahmedabad in western India", *Atmospheric Chemistry and Physics,* DOI: 10.5194/acp-16-6153-2016, vol 16, no 10, pp 6153-6173, May 2016

Chandra, Naveen*; Venkataramani, S; Lal, S; Sheel, V and Pozzer, A, "Effects of convection and long-range transport on the distribution of carbon monoxide in the troposphere over India", *Atmospheric Pollution Research,* DOI: 10.1016/j.apr.2016.03.005, vol 7, no 5, pp 775-785, Sep 2016

Chandra, Vinod and Das, Santosh K, "Impact of momentum space anisotropy on heavy quark dynamics in a QGP medium", *Physical Review D,* DOI: 10.1103/PhysRevD.93.094036, vol 93, no 9, May 2016

Chauhan, Bhavesh*and Mohanty, Subhendra, "Constraints on leptophilic light dark matter from internal heat flux of Earth", *Physical Review D,* DOI: 10.1103/PhysRevD.94.035024, vol 94, no 3, Aug 2016

Gurudatt, Gaur*et al, "First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors", *Physical Review D,* DOI: 10.1103/PhysRevD.94.102001, vol 94, no 10, Nov 2016

Gurudatt, Gaur*et al, "Localization and broadband follow-up of the gravitational-wave transient GW150914", *Physical Review D,* DOI: 10.3847/2041-8205/826/1/L13, vol 826, no 1, Jul 2016

Gurudatt, Gaur*et al, "Search for transient gravitational waves in coincidence with short-duration radio transients during 2007-2013", *Physical Review D,* DOI: 10.1103/PhysRevD.93.122008, vol 93, no 12, Jun 2016

Gurudatt, Gaur*et al, "Supplement: "Localization and broadband follow-up of the gravitational-wave transient GW150914" (2016, ApJL, 826, L13)", *The Astrophysical Journal Supplement Series,* DOI: 10.3847/0067-0049/225/1/8, vol 225, no 1, Jul 2016

Hati, Chandan*and Sarkar, Utpal, "Neutrino dark energy and leptogenesis with TeV scale triplets", *The European Physical Journal C,* DOI: 10.1140/epjc/s10052-016-4089-6, vol 76, no 5, May 2016

Hati, Chandan*, "Explaining the diphoton excess in alternative left-right symmetric model", *Physical Review D,* DOI: 10.1013/PhysRevD.93.075002, vol 93, no 7, Apr 2016

Karan, Deepak K*; Pallamraju, Duggirala; Phadke, Kedar A; Vijayalakshmi, Tatiparti; Pant, Tarun K and Mukherjee, Shyamoli, "Electrodynamic influence on the diurnal behaviour of neutral daytime airglow emissions", *Annales Geophysicae,* DOI: 10.5194/angeo-34-1019-2016, vol 34, no 11, pp 1019-1030, Nov 2016

Kumar, Girish*, "Constraints on a scalar leptoquark from the kaon sector", *Physical Review D,* DOI: 10.1103/PhysRevD.94.014022, vol 94, no 1, Jul 2016

Mitra, Sukanya# and **Chandra, Vinod,** "Thermal relaxation, electrical conductivity, and charge diffusion in a hot QCD medium", *Physical Review D,* DOI: 10.1103/PhysRevD.94.034025, vol 94, no 3, Aug 2016

Nath, Newton*; Ghosh, Monojit and Goswami, Srubabati, "The physics of antineutrinos in DUNE and determination of octant and δ_{CP}", *Nuclear Physics B,* DOI: 10.1016/j.nuclphysb.2016.09.017, vol 913, pp 381-404, Dec 2016

Nath, Newton*; Ghosh, Monojit and Gupta, Shivani, "Understanding the masses and mixings of one-zero textures in 3+1 scenario", *International Journal of Modern Physics A,* DOI: 10.1142/S0217751X16501323, vol 31, no 24, Aug 2016

Nath, Newton*; Ghosh, Monojit; Goswami, Srubabati and Gupta, Shivani, "Phenomenological study of extended seesaw model for light sterile neutrino", *Journal of High Energy Physics,* DOI: 10.1007/JHEP03(2017)075, vol 2017, no 3, Mar 2017

Pandey, Kuldeep*; Sekar, R; Anandarao, B G; Gupta, S P and Chakrabarty, D, "Estimation of nighttime dip-equatorial E-region current density using measurements and models", *Journal of Atmospheric and Solar-Terrestrial Physics,* DOI: 10.1016/j.jastp.2016.06.002, vol 146, pp 160-170, Jun 2016

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

Perumangatt, Chithrabhanu*; **Aadhi, A***; Reddy, Salla Gangi; **Prabhakar, Shashi***and Singh, R P, "Generating arbitrary cebits on the orbital angular momentum poincaré sphere", *International Journal of Quantum Information,* DOI: 10.1142/S0219749916400323, vol 14, no 6, Sep 2016

Roy, Arko*and Angom, Dilip Singh, "Geometry-induced modification of fluctuation spectrum in quasi-two-dimensional condensates", *New Journal of Physics,* DOI: 10.1088/1367-2630/18/8/083007, vol 18, no 8, Aug 2016

Sengupta, Anand et al,"All-sky search for short gravitational-wave bursts in the first advanced LIGO run", *Physical Review D,* DOI: 10.1103/PhysRevD.95.042003, vol 95, no 4, Feb 2017

Sengupta, Anand et al,"Binary black hole mergers in the first advanced LIGO observing run", *Physical Review X,* DOI: 10.1103/PhysRevX.6.041015, vol 6, no 4, Oct 2016

Sengupta, Anand et al,"Directional limits on persistent gravitational waves from advanced LIGO's first observing run", *Physical Review Letters,* DOI: 10.1103/PhysRevLett.118.121102, vol 118, no 12, Mar 2017

Sengupta, Anand et al,"Exploring the sensitivity of next generation gravitational wave detectors", *Classical and Quantum Gravity,* DOI: 10.1088/1361-6382/aa51f4, vol 34, no 4, Mar 2017

Sengupta, Anand et al,"GW151226: Observation of gravitational waves from a 22-solar-mass binary black hole coalescence", *Physical Review Letters,* DOI: 10.1103/PhysRevLett.116.241103, vol 116, no 24, Jun 2016

Sengupta, Anand et al,"High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube", *Physical Review D,* DOI: 10.1103/PhysRevD.93.122010, vol 93, no 12, Jun 2016

Sengupta, Anand et al,"Improved analysis of GW150914 using a fully spin-precessing waveform model", *Physical Review X,* DOI: 10.1103/PhysRevX.6.041014, vol 6, no 4, Oct 2016

Sengupta, Anand et al,"Properties of the binary black hole merger GW150914", *Physical Review Letters,* DOI: 10.1103/PhysRevLett.116.241102, vol 116, no 24, Jun 2016

Sengupta, Anand et al,"Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project", *Physical Review D,* DOI: 10.1103/PhysRevD.94.102002, vol 94, no10, Nov 2016

Sengupta, Anand et al,"Supplement: "The rate of binary black hole mergers inferred from advanced LIGO observations surrounding GW150914" (2016, ApJL, 833, L1)", *The Astrophysical Journal Supplement Series,* DOI: 10.3847/0067-0049/227/2/14, vol 227, no 2, Nov 2016

Sengupta, Anand et al,"Tests of general relativity with GW150914", *Physical Review Letters,* DOI: 10.1103/PhysRevLett.116.221101, vol 116, no 22, May 2016

Sengupta, Anand et al,"The basic physics of the binary black hole merger GW150914", *Annalen der Physik,* DOI: 10.1002/andp.201600209, vol 529, no 1-2, Jan 2017

Sengupta, Anand et al,"The rate of binary black hole mergers inferred from advanced LIGO observations surrounding GW150914", *The Astrophysical Journal Letters,* DOI: 10.3847/2041-8205/833/1/L1, vol 833, no 1, Nov 2016

Sengupta, Anand et al,"Upper limits on the rates of binary neutron star and neutron star-black hole mergers from advanced LIGO's first observing run", *Physical Review D,* DOI: 10.3847/2041-8205/832/2/L21, vol 832, no 2, Nov 2016

Sengupta, Anand et al,"Upper limits on the stochastic gravitational-wave background from advanced LIGO's first observing Run", *Physical Review Letters,* DOI: 10.1103/PhysRevLett.118.121101, vol 118, no 12, Mar 2017

Sengupta, Anand et al, "Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data", *Physical Review D,* DOI: 10.1103/PhysRevD.94.042002, vol 94, no 4, Aug 2016

Sengupta, Anand et al, "Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence", *Physical Review D,* DOI: 10.1103/PhysRevD.94.064035, vol 94, no 6, Sep 2016

Suthar, Kuldeep*and Angom, Dilip Singh, "Optical-lattice-influenced geometry of quasi-two-dimensional binary condensates and quasiparticle spectra", *Physical Review A,* DOI: 10.1103/PhysRevA.93.063608, vol 93, no 6, Jun 2016

Agotiya, Vineet Kumar; **Chandra, Vinod**; **Jamal, M Yousuf***and Nilima, Indrani, "Dissociation of heavy quarkonium in hot QCD medium in a quasiparticle model", *Physical Review D,* DOI: 10.1103/PhysRevD.94.094006, vol 94, no 9, Nov 2016

Alam, Sher; Behera, Subhasish; **Kumar, Satendra*** and Sahoo, Shibananda, "Constraining capability of *Zyh* production at the ILC", *International Journal of Modern Physics A,* DOI: 10.1142/S0217751X17500178, vol 32, no 1-2, pp 219-224, Jan 2017

Anwar, Ali; P, Chithrabhanu; Reddy, Salla Gangi; **Lal, Nijil*** and Singh, R P "Selecting the pre-detection characteristics for fiber coupling of parametric down-converted biphoton modes", *Optics Communications,* DOI: 10.1016/j.optcom.2016.07.028, vol 382, pp 219-224, Jan 2017

Baliyan, Kiran S; **Kaur, Navpreet***; Chandra, Sunil; Sameer and Ganesh, Shashikiran, "Multi-wavelength study of blazars using variability as a tool", *Journal of Astronomy and Space Science,* DOI: 10.5140/JASS.2016.33.3.177, vol 33, no 3, pp 177-183, Sep 2016

Bhatt, Jitesh R and **George, Manu***,"Electromagnetic instability induced by neutrino interaction", *International Journal of Modern Physics D,* DOI: 10.1142/S0218271817500523, vol 26, no 6, Nov 2016

Bhatt, Jitesh R and **Pandey, Arun Kumar***, "Primordial magnetic field and kinetic theory with Berry curvature", *Physical Review D,* DOI: 10.1103/PhysRevD.94.043536, vol 94, no 4, Aug 2016

Bhattacharjee, Srijit; **Sarkar, Sudipta** and Virmani, Amitabh, "Internal structure of charged AdS black holes", *Physical Review D,* DOI: 10.1103/PhysRevD.93.124029, vol 93, no 12, Jun 2016

Chakrabarty, Nilaj; Jain, Aditya; **Lal, Nijil***; Das Gupta, Kantimay and Parmananda, Punit, "Effect of parameter mismatch on the dynamics of strongly coupled self sustained oscillators", *Chaos: An Interdisciplinary Journal of Nonlinear Science,* DOI: 10.1063/1.4974071, vol 27, no 1, Jan 2017

Chithrabhanu, P; Gangi Reddy, Salla; **Lal, Nijil***; Anwar, Ali; Aadhi, A and Singh, R P, "Pancharatnam phase in non-separable states of light", *Journal of the Optical Society of America B,* DOI: 10.1364/JOSAB.33.002093, vol 33, no 10, pp 2093-2098, Oct 2016

Das, Diganta; **Hati, Chandan***; **Kumar, Girish*** and Mahajan, Namit, "Towards a unified explanation of $R_{D^{(*)}}$, R_K and $(g-2)_\mu$ anomalies in a left-right model with leptoquarks", *Physical Review D,* DOI: 10.1103/PhysRevD.94.055034, vol 94, no 5, Sep 2016

Das, Nabyendu; **Bhalla, Pankaj***and Singh, Navinder, "Erratum: Memory function approach to correlated electron transport: a comprehensive review", *International Journal of Modern Physics B,* DOI: 10.1142/S0217979216920028, vol 30, no 23, Sep 2016

Das, Nabyendu; **Bhalla, Pankaj***and Singh, Navinder, "Memory function approach to correlated electron transport: acomprehensive review", *International Journal of Modern Physics B,* DOI: 10.1142/S0217979216300152, vol 30, no 23, Aug 2016

Deppisch, Frank F; **Hati, Chandan***;Patra,

Sudhanwa; Pritimita, Prativa and Sarkar, Utpal, "Implications of the diphoton excess on left-right models and gauge unification", *Physics Letters B,* DOI: 10.1016/j.physletb.2016.03.081, vol 757, pp 223-230, Jun 2016

Deppisch, Frank F; **Hati, Chandan***;Patra, Sudhanwa; Sarkar, Utpal and Valle, Josè W F, "331 models and grand unification: From minimal SU(5) to minimal SU(6)", *Physics Letters B,* DOI: 10.1016/j.physletb.2016.10.002, vol 762, pp 432-440, Nov 2016

Dey, Ujjal Kumar; Mohanty, Subhendra and **Tomar, Gaurav***, "750 GeV resonance in the dark left-right model", *Physics Letters B,* DOI: 10.1016/j.physletb.2016.03.048, vol 756, pp 384-389, May 2016

Dhuria, Mansi; **Hati, Chandan***; and Sarkar, Utpal, "Moduli induced cogenesis of baryon asymmetry and dark matter", *Physics Letters B,* DOI: 10.1016/j.physletb.2016.03.018, vol 756, pp 376-383, May 2016

Farag Ali, Ahmed; Gubitosi, Giulia; Faizal, Mir and **Majumder, Barun**, "Phenomenological aspects of quantum gravity and modified theories of gravity", *Advances in High Energy Physics,* DOI: 10.1155/2017/1274326, vol 2017, Jan 2017

Gangopadhyaya, Utsab; Ghosh, Snigdha; Sarkar, Sourav and **Mitra, Sukanya#**, "In-medium viscous coefficients of a hot hadronic gas mixture", *Physical Review C,* DOI: 10.1103/PhysRevC.94.044914, vol 94, no 4, Oct 2016

Ghosh, Snigdha; Sarkar, Sourav and **Mitra, Sukanya#**, "Δ self-energy at finite temperature and density and the πN cross section", *Physical Review D,* DOI: 10.1103/PhysRevD.95.056010, vol 55, no 5, Mar 2017

Joshipura, Anjan S and **Nath, Newton***, "Neutrino masses and mixing in A5 with flavor antisymmetry", *Physical Review D,* DOI: 10.1103/PhysRevD.94.036008, vol 94, no 3, Aug 2016

Kaul, Romesh K and **Sengupta, Sandipan**, "Degenerate spacetimes in first order gravity", *Physical Review D,* DOI: 10.1103/PhysRevD.93.084026, vol 93, no 8, Apr 2016

Lorch, C; Novák, J; **Banerjee, Rupak**; Weimer, S; Dieterle, J; Frank, C; Hinderhofer, A; Gerlach, A; Carla, F and Schreiber, F, "Influence of C_{60} co-deposition on the growth kinetics of diindenoperylene–From rapid roughening to layer-by-layer growth in blended organic films", *The Journal of Chemical Physics,* DOI: 10.1063/1.4966583, vol 146, no 5, Feb 2017

Mallika, Chinmay; **Chandra, Naveen***; Venkataramania, S and Lala, Shyam, "Variability of atmospheric carbonyl sulfide at a semi-arid urban site in western India", *Science of The Total Environment,* DOI: 10.1016/j.scitotenv.2016.02.014, vol 551-552, pp 725-737, May 2016

Novak, Jiri; **Banerjee, Rupak**; Kornowski, Andreas; Jankowski, Maciej; André, Alexander; Weller, Horst; Schreiber, Frank and Scheele, Marcus, "Site-specific ligand interactions favor the tetragonal distortion of PbS nanocrystal superlattices", *ACS Applied Materials & Interfaces,* DOI: 10.1021/acsami.6b06989, vol 8, no 34, pp 22526-22533, Aug 2016

Pallamraju, Duggirala; **Karan, Deepak K*** and Phadke, Kedar A, "First three dimensional wave characteristics in the daytime upper atmosphere derived from ground-based multiwavelength oxygen dayglow emission measurements", *Geophysical Research Letters,* DOI: 10.1002/2016GL069074, vol 43, no 11, pp 5545-5553, May 2016

PAPERS PRESENTED AT CONFERENCES

Apurv Chaitanya, N*; Jabir, M V; Banerji, Jay and Samanta, Goutam K, "Nonlinear generation of high power and higher order hollow gaussian beam", *Frontiers in Optics: The 100th OSA Annual Meeting and Exhibit/ Laser Science XXXII,* Rochester Riverside Convention Center, Rochester, US, Oct 17-21, 2016

Apurv Chaitanya, N*; Suddapalli, Chaitanya Kumar D; Samanta, Goutam Kumar and Ebrahim-Zadeh, M, "Optical vortex beam generation in the deep-ultraviolet", *CLEO: QELS_Fundamental Science 2016*, San Jose, US, Jun 5-10, 2016

Enduri, Murali Krishna* and **Jolad, Shivakumar**, "Estimating reproduction number and spectral analysis of dengue epidemic", *Statphys Kolkata IX,* Saha Institute of Nuclear Physics, Kolkata, IN, Dec 13-16, 2016

Jabir, M V; **Apurv Chaitanya, N***; Aadhi, A and Samanta, Goutam K, "Generation of variable sized "perfect" vortex and its effect in parametric down conversion process", *Frontiers in Optics: The 100thOSA Annual Meeting and Exhibit/Laser Science XXXII,* Rochester Riverside Convention Center, Rochester, US, Oct 17-21, 2016

Jabir, M V; **Apurv Chaitanya, N***; and Samanta, Goutam K, "Control of spatial distribution of entangled photons by the spatial structure of classical pump beam", *Frontiers in Optics: The 100thOSA Annual Meeting and Exhibit/Laser Science XXXII,* Rochester Riverside Convention Center, Rochester, US, Oct 17-21, 2016

Perumangatt, Chithrabhanu; **Lal, Nijil***;Anwar, Ali; Salla, Gangireddy and Singh, Ravindra P, "A stabilized polarization controlled orbital angular momentum sorter", *International Conference on Fibre Optics and Photonics 2016*, Indian Institute of Technology Kanpur, IN, Dec 4-8, 2016

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

SOCIAL SCIENCES

BOOK CHAPTERS

Mahesan, Devu*; **Chawla, Manisha*** and **Miyapuram, Krishna P**, "The effect of reward information on perceptual decision-making", in *Lecture Notes in Computer Science*, DOI: 10.1007/978-3-319-46681-1_19, vol 9950, Springer International Publishing, 2016, pp 156-163, ISBN: 978-3-319-46680-4

Samanta, Tannistha and **Gangopadhyay, Jagriti***, "Social capital, interrupted: sociological reflections from old age homes in Ahmedabad, India", in *Cross-cultural and cross-disciplinary perspectives in social Gerontology*, DOI: 10.1007/978-981-10-1654-7_6, New York, US: Springer Berlin Heidelberg, 2016, pp 109-124, ISBN: 978-981-10-1653-0.

BOOKS EDITED

Samanta, Tannisthaed, *Cross-cultural and cross-disciplinary perspectives in social Gerontology*, New York, US: Springer Berlin Heidelberg, 2016

JOURNAL PAPERS

Aiyadurai, Ambika, "Tigers are our brothers: understanding human-nature relations in the Mishmi Hills, Northeast India", *Conservation and Society,* DOI: 10.4103/0972-4923.197614, vol 14, no 4, pp 305-316, Oct 2016.

Gangopadhyay, Jagriti*, "Aging across worlds: examining intergenerational relationships among Older adults in two cities in transition", *Ageing International,* DOI: 10.1007/s12126-016-9271-5, Nov 2016

Mehta, Mona G, "Book review: Sanjay Ruparelia, Divided we govern: coalition politics in modern India", *Studies in Indian Politics,* DOI: 10.1177/2321023016665667, vol 4, no 2, pp 252-253, Dec 2016

Sunny, Meera and **Thomas, Tony***, "Slower attentional disengagement but faster perceptual processing near the hand", *Acta Psychologica,* DOI: 10.1016/j.actpsy.2017.01.005, vol 174, pp 40-47, Jan 2017

Trivedi, Chirag and **Oza, Bhargav***, "From fine a balance, to refine: dalit 'self', theory and literature", *Contemporary Literary Review India,* vol 4, no 1, Feb 2017

Vollmer, Sebastian; Harttgen, Kenneth; **Subramanyam, Malavika**; Finlay, Jocelyn; Klasen, Stephan and Subramanian, S V, "Economic growth and child malnutrition - Authors' reply", *The Lancet Global Health,* DOI: 10.1016/S2214-109X(16)30249-2, vol 4, no 12, pp e903, Dec 2016

MAGAZINE/NEWSPAPER ARTICLES

Aiyadurai, Ambika and Velho, Nandini, "Wildlife hunting in the North East is much more complex than the simple act of killing", *Scroll.in,* Dec 11, 2016

Bharadwaj, Jahnu*, "Mahafezkhanar Khirikiyedi [Through the Window of the Mahafezkhana]", *Amar Asom,* Feb 15, 2017

Gandhi, Rajmohan*, "The storyteller of Guangzhou", *The Economic Times, Mumbai,* May 11, 2016

Thomas, Tony*, "Defining Indianness", *The Hindu,* Nov 29, 2016

OTHERS

Gundi, **Mukta***, "Consumer perception and practices regarding sanitary napkins purchase and usage", in *CognoBytes,* Jul 20, 2016

PAPERS PRESENTED AT CONFERENCES

Aiyadurai, Ambika, "Wildlife conservation in India: from policy to practice", *Workshop sponsored by Centre for the Advanced Study of India, University of Pennsylvania*, New Delhi, IN, Nov 4-5, 2016

Gopal, Anvita* and **Miyapuram, Krishna P**, "Reward and attention capture", *3rd Annual Conference of Association for Cognitive Science*, IIT Gandhinagar, IN, Oct 3-5, 2016

Banerjee, Dyotana* and **Mehta, Mona G**, "A ghettoized 'Smart City': Caste and capital in the remaking of Ahmedabad", *British Association of the South Asian Studies Annual Conference*, University of Cambridge, UK, Apr 6-8, 2016

Banerjee, Dyotana* and **Mehta, Mona G**, "Caste and capital in the remaking of Ahmedabad", *24thEuropean Conference on South Asian Studies*, University of Warsaw, PL, Jul 27-30, 2016

Bharadwaj, Jahnu*, "Towards an understanding of administration of criminal justice during the early colonial period in Assam", *Graduate Research Meet, 2016*, Department of Humanities and Social Sciences, IIT Guwahati, IN, Oct 20-22, 2016

Chawla, Manisha* and **Miyapuram, Krishna P**, "Common neural coding across domains of decision making identified by meta-analysis", *Neuro Informatics 2016*, Reading, UK, Sep 3-4, 2016

Gharpure, Sampada*; Goyal, Shruti* and **Miyapuram, Krishna P**, "Role of response-stimulus Intervals in serial learning task", *3rd Annual Conference of Association for Cognitive Science*, IIT Gandhinagar, IN, Oct 3-5, 2016

Kiran, Meher* and **Miyapuram, Krishna P**, "Role of categorical information in statistical learning using transitional probabilities: an ERP study", *3rd Annual Conference of Association for Cognitive Science*, IIT Gandhinagar, IN, Oct 3-5, 2016

Mahesan, Devu*; Chawla, Manisha* and **Miyapuram, Krishna P**, "Top-down influence of economic value on perceptual decisions", *3rd Annual Conference of Association for Cognitive Science*, IIT Gandhinagar, IN, Oct 3-5, 2016

Mukhopadhyay, Dyutiman* and **Miyapuram, Krishna P**, "An eye-tracking study of nine facial emotional states (Nava Rasa) in the Indian classical dance genre of Bharatanatyam", *3rd Annual Conference of Association for Cognitive Science*, IIT Gandhinagar, IN, Oct 3-5, 2016

Mukhopadhyay, Dyutiman*and **Miyapuram, Krishna P**, "EEG-based study on nine emotional states of Indian Rasa theory from popular Bollywood and Hollywood film segments", *24th Conference of the International Association of Empirical Aesthetics (IAEA 2016)*, University of Vienna, Vienna, AT, Aug 29-Sep 1, 2016

Rayappa, Bharatesh*; Sundar, Uma and **Miyapuram, Krishna P**, "Biomarkers for MCI using structural MRI scans: preliminary methods", *3rd Annual Conference of Association for Cognitive Science*, IIT Gandhinagar, IN, Oct 3-5, 2016

Singh, Divita* and **Sunny, Meera M**, "Lag-1 sparing in the attentional blink: Role of stimulus feature and visual working memory in integrating two events in a single attentional episode", *International conference on Attention and Language*, BITS Goa, IN, Mar 3-4, 2017

Thomas, Tony* and **Sunny, Meera M**, "Differential sensitivity to motion and color singletons in the proximal region of the hand", *4thInternational AttLis Workshop (AttLis-2017)*, BITS Pilani, Goa, IN, Mar 3-4, 2017

Varghese, Sini* and **Samanta, Tannistha**, "Examining re-partnering in later life: Gender, class and intimacy", *2016 GSA Annual Scientific Meeting*, New Orleans, US, Nov 16 - 20, 2016

Yoxon, Emma; **Sunny, Meera** and Welsh, Timothy, "There's something about offsets": Offset events cannot be associated with reaching movements",*Vision Sciences Society Annual Meeting Abstract*, St Pete Beach, Florida, US, May 13-18, 2016

POSTERS PRESENTED

George, Nithin*; **Saxena, Pankhuri***and **Sunny, Meera Mary**, "Attentional consequence of acting in uncertain environment", *8thInternational Conference on Brain Informatics and Health (BIH 2015)*, London, GB, Aug 30 - Sep 2, 2016

Jagini, Kishore Kumar* and **Sunny, Meera Mary**, "Role of action in modulating attentional mechanisms", *Attentive listener in Visual World (Attlis-2017)*, BITS Goa, Goa, IN, Mar 3-4, 2017

Jagini, Kishore Kumar* and **Sunny, Meera Mary**, "Role of action in modulating bottom-up attentional mechanisms", *European Conference on Visual Perception,* Barcelona, ES, Aug 28- Sep 1, 2016

REVIEWS

Mehta, Mona G, "[Review of the book: Democracy and its institutions by André Béteille]", *Contributions to Indian Sociology,* vol 51, no 1, Feb 2017

Mehta, Mona G, "[Review of the book: Tamil Brahmans: The making of a middle-class caste, by C J Fuller and Haripriya Narasimhan]", *South Asia: Journal of South Asian Studies,* vol 40, no 1, pp 124-126, Feb 2017

REPORTS

Tannistha Samanta, Shivakumar Jolad, Malavaika Subramanyam, and **Mukta Gundi**, District Human Development Report-Ahmedabad, Gujarat Social Infrastructure Development Society, Government of Gujarat., Nov 2016

*Publications by Students
Publications by Staff
et al – Publications by Multiple authors

STUDENT AFFAIRS

CO-CURRICULAR ACTIVITIES

CAMPUS PLACEMENTS 2016

Of the 72 eligible undergraduates who sought placements, 63 students were successful in securing placements of their choice. The following are the organizations that offered campus placements for the outgoing undergraduate batch in 2016.

Organization
Arvind Infrastructure Ltd
Bharat Forge Ltd
Bharat Petroleum Corporation Ltd
Coal India Ltd
Cognizant Technology Solutions
Dabur India Ltd
Endurance Technologies Ltd
HDFC Bank Ltd
Hospira
HSBC India Ltd
Innoplexus
Innovaccer
Intas Pharmaceuticals Ltd
Indian Political Action Committee
ITC Ltd
L&T Construction Ltd
The Linde Group
Mahindra & Mahindra Ltd
Mphasis
Piramal Foundation
Rematerials
RKC Infra built Pvt Ltd
Rsystems International
Sajeevta Foundation
Samsung R&D Institute India
Silver Oak College of Engineering & Technology
Tata Motors Ltd
Tata Consultancy Services
Testbook
Texas Instruments
United Health Group
Wipro Ltd
ZS Associates

SUMMER INTERNSHIPS 2016

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 56 students went abroad for internships in reputed institutions like Caltech, University of Washington, Duke University, SUNY Buffalo, etc. Another 102 students worked in leading industries within India such as Nielsen, Underwriters Laboratories, Tyco, NFIL, IRICEN and many more. About 104 students spent their summer in campus, working with IITGN faculty members in various SRIP projects.

FOREIGN INSTITUTIONS
University at Buffalo, New York, USA
California Institute of Technology, Pasadena, CA, USA
Clemson University, South Carolina, USA
DAAD, Germany
Duke University, North Carolina, USA
EPIR Technologies, USA
ISCTE – University Institute of Lisbon, Portugal
Istituto di Scienza e Tecnologie dell'Informazione "A Faedo" (ISTI), Italy
Japan Advanced Institute of Science and Technology, Japan (JAIST)
University of Notre Dame, Indiana, USA
RMIT University, Australia
Texas A&M University, USA
National University of Singapore, Singapore
The New School, New York, USA
University of Washington, Seattle, USA
University of Victoria, Canada

Washington University, St Louis, USA
Research Triangle Institute (RTI), USA

Nearly 286 IITGN students did their internships in universities; research institutes, PSUs and various industries during the summer of 2016. One hundred and fifty two of these students did their internship at Indian academic and research institutions such as National Institute of Advanced Studies, Bengaluru; NIT Warangal; Institute of Chemical Technology, Mumbai; Indian Institute of Science Bangalore; Indian Institute of Technology Bombay; Indian Institute of Technology Gandhinagar; Jawaharlal Nehru Centre for Advanced Scientific Research Bengaluru; Tata Institute of Fundamental Research (TIFR)-Centre for Applicable Mathematics, Bengaluru, etc.

Seventy seven students spent their summers in industries such as

Organization/Indian Institutions
Think 4DEA Technologies Pvt Ltd, Gandhinagar
Agastya International Foundation, Bengaluru
Bhabha Atomic Research Centre (BARC), Mumbai
Bhilai Steel Plant (SAIL India), Chhattisgarh
Cretif, Gandhinagar
Digital Green Karmany, Delhi
Delhi Metro Rail Corporation, Delhi
National Institute of Advanced Studies, Bengaluru
Education Initiatives, Ahmedabad
Fluttr, Gandhinagar
Forest Department, Govt of Gujarat, Gandhinagar
National Institute of Technology Warangal
Glad Engage, Kolkata
Gujarat State Fertilizers and Chemicals Limited, Vadodara
Godawari Power Ltd & Ispat Ltd, Chhattisgarh
Institute of Chemical Technology, Mumbai
Indian Institute of Science Bangalore (IISc), Bangalore
Indian Institute of Technology Bombay
Indian Institute of Technology Gandhinagar
Infostretch, Ahmedabad
Indian Railways Institute Of Civil Engineering (IRICEN), Pune
ISRO Satellite Centre (ISAC), Bengaluru
Jawaharlal Nehru Aluminium Research Development and Design Centre, Nagpur
Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru
Digital Green, New Delhi
L&T Construction Ltd, Hyderabad
Limetray, Delhi
Navin Fluorine International Ltd, Surat
The Nielsen Company, Mumbai
National Institute of Mental Health and Neurosciences (NIMHANS), Bengaluru
Oil and Natural Gas Corporation,(ONGC), Mehsana
PMC Projects Pvt Ltd, Surat
Saathi Pads, Ahmedabad
Space Application Center (SAC), Ahmedabad
Sai-Mach Pharma, Ahmedabad
Schlumberger, Mumbai
Sheekho, Bihar
Sheela Foam, Talwada
Shree Cement, Beawar
Tata Consultancy Services (TCS), Mumbai
Tetcos, Bengaluru
Tata Institute of Fundamental Research (TIFR)-Centre for Applicable Mathematics, Bengaluru
Toppr, Ahmedabad
Tyco, Bengaluru
Underwriters laboratories, Bengaluru
Urban Hunt, Gandhinagar
Venture Factory, Bengaluru
Vikram Sarabhai Space Centre (VSSC), Trivandrum
White Panda, Gandhinagar

SUMMER & WINTER INTERNSHIPS IN 2016

FOREIGN INSTITUTIONS

Host Institution	Student Name	Discipline
University at Buffalo, New York, USA	Dharmendra Kumar	Civil Engineering
	Mayank Khewaria	Civil Engineering
	Nikhil Sharma	Civil Engineering
California Institute of Technology, Pasadena, CA, USA	Anikesh Satish Kamath	Electrical Engineering
	Chenchala Sai Ramana Reddy	Electrical Engineering
	Amber Kothari	Mechanical Engineering
	Bubna Rakesh Rishi	Mechanical Engineering
	Darshil Chauhan	Mechanical Engineering
	Harsh Chandra	Mechanical Engineering
	Ramtekkar Shashank Manohar	Mechanical Engineering
Clemson University, South Carolina, USA	Anurag Goyal	Civil Engineering
	Suman Kumari	Chemical Engineering
	Sharad Kumar Tiwari	Mechanical Engineering
DAAD, Germany	Prerna Singh	Civil Engineering
	Rishabh Jain	Civil Engineering
	Srinivasan A	Civil Engineering
Duke University, North Carolina, USA	Vipin Prajapati	Electrical Engineering
	Bhargav B Chauhan	Mechanical Engineering
	Nikhil Tank	Electrical Engineering
	Pabbathi Akhil Kumar	Electrical Engineering
	Vinod Ramakrishnan	Mechanical Engineering
	Borse Dinesh Anil	Civil Engineering
EPIR Technologies, USA	Pratham Goel	Electrical Engineering
	Ankit Agarwal	Mechanical Engineering
ISCTE – University Institute of Lisbon, Portugal	Pastakia Taronish Astad	Cognitive Science
	Aditya Shah	Electrical Engineering
	Mujeeburahman K C	Humanities and Social Sciences
	Rohit Revi A V	Humanities and Social Sciences
	Prathamesh Badve	Mechanical Engineering
	Trivedi Jaldhir Sanjay	Mechanical Engineering
Istituto di Scienza e Tecnologie dell'Informazione "A Faedo" (ISTI), Italy	Sargam Jain	Chemical Engineering

Host Institution	Student Name	Discipline
Japan Advanced Institute of Science and Technology, Japan (JAIST)	Grace Haokip	Cognitive Science
	Kulkarni Pranjali Shrikant	Cognitive Science
	Sandhya Singh	Cognitive Science
	Ayushman Tripathi	Electrical Engineering
University of Notre Dame, Indiana, USA	Dinendra Pratap Singh Tomar	Electrical Engineering
	Thakor Nilaysinh Bharatsinh	Mechanical Engineering
RMIT University, Australia	Kapil Pathak	Electrical Engineering
Texas A&M University, USA	Nisha Rawat	Chemical Engineering
	Priyanka	Chemical Engineering
National University of Singapore, Singapore	Abhishek Raut	Mechanical Engineering
The New School, New York, USA	Narmadha N	Cognitive Science
	Ayush Mathur	Chemical Engineering
	Patel Parva Apurva	Electrical Engineering
	Relan Udit Surendra	Mechanical Engineering
	Devendra Meena	Mechanical Engineering
University of Washington, Seattle, USA	Ekta Umesh Samani	Electrical Engineering
	Bhosale Surajkumar Dhananjay	Mechanical Engineering
	Nishanth	Mechanical Engineering
	Prathyusha Challa	Mechanical Engineering
	Shubham Patle	Mechanical Engineering
University of Victoria, Canada	Narendra Sarswat	Civil Engineering
Washington University, St Louis, USA	Devanshu Manoj Jain	Chemical Engineering
	Patel Kishankumar Kaushikbhai	Chemical Engineering
	Purushottam Kumar	Chemical Engineering
	Ojas Yashwant Joshi	Mechanical Engineering
Research Triangle Institute (RTI), USA	Anurag Singhania	Chemical Engineering

INDIAN INSTITUTIONS

Host Institution	Student Name	Discipline
Think 4DEA Technologies Private Limited, Gandhinagar	Aditya Goel	Electrical Engineering
	Ayush Shrote	Electrical Engineering
Agastya International Foundation, Bengaluru	Priyanshu Ranjan Gupta	Chemical Engineering
Bhabha Atomic Research Centre (BARC), Mumbai	Jyotirban Dey	Chemistry
Bhilai Steel Plant (SAIL India), Chhattisgarh	Tushar Nirmal	Mechanical Engineering
Cretif, Gandhinagar	Ajay	Electrical Engineering
Digital Green Karmany, Delhi	V Avinash	Civil Engineering
Delhi Metro Rail Corporation, Delhi	Hemant Kumar	Civil Engineering
	Osker	Civil Engineering
	Sachin Kumar	Civil Engineering
	Ankit Pritam Bhange	Electrical Engineering
	Pawan	Mechanical Engineering
National Institute of Advanced Studies, Bengaluru	Lakshmi Pillai	Cognitive Science
Education Initiatives, Ahmedabad	Veeravalli Sai Ganesh	Civil Engineering
Fluttr, Gandhinagar	Roy Nikhil Aditya	Chemical Engineering
Forest Department, Govt of Gujarat, Gandhinagar	Rushabh Desadla	Chemical Engineering
National Institute of Technology Warangal	Chitta Sai Pavan	Electrical Engineering
Glad Engage, Kolkata	Kartik Mandlekar	Civil Engineering
	Parash Aggarwal	Chemical Engineering
	Varade Amit Bhaskar	Electrical Engineering
	Subodh Kumar	Mechanical Engineering
Gujarat State Fertilizers and Chemicals Limited, Vadodara	Dewansh Rastogi	Chemical Engineering
	Mandale Snehal Dharmik Pramila	Chemical Engineering
	Anurag R Chandnani	Mechanical Engineering
Godawari Power Ltd & Ispat Ltd, Chhattisgarh	Tanay Kankane	Mechanical Engineering
Institute of Chemical Technology, Mumbai	Prince Kumar Verma	Chemical Engineering
Indian Institute of Science Bangalore (IISc), Bangalore	Deepak Dhariwal	Materials Science and Engineering
	Leema Saikia	Physics
IIT Bombay, Mumbai	Aketi Sai Aparna	Electrical Engineering
IIT Gandhinagar, Gujarat	Abhay Varshney	Civil Engineering
	Anmol Kishore Raina	Civil Engineering
	Anusha Gupta	Civil Engineering
	B Pranav Chakra Varthy	Civil Engineering

Host Institution	Student Name	Discipline
IIT Gandhinagar, Gujarat	Garima Chaudhary	Civil Engineering
	Heet Vasudevbhai Patel	Civil Engineering
	Homit Singh Pal	Civil Engineering
	Kanika Gupta	Civil Engineering
	Kaustubh Deshpande	Civil Engineering
	Kushal Agrawal	Civil Engineering
	Mayank Jain	Civil Engineering
	Mohammad Faisal Seh	Civil Engineering
	Naman Jain	Civil Engineering
	Pariveeksha Joshi	Civil Engineering
	Prakrut Kansara	Civil Engineering
	Pranav Kumar Gupta	Civil Engineering
	Pranavkumar S	Civil Engineering
	Puneet Swami	Civil Engineering
	Ram Pranav Agasthya Purhit Chavaly	Civil Engineering
	Solanki Vidhi Rasik	Civil Engineering
	Vikas Yadav	Civil Engineering
	Bharatesh Rayappa Shiraguppi	Cognitive Science
	Manasi Wali	Cognitive Science
	Richard Shallam	Cognitive Science
	Sohhom Bandyopadhyay	Cognitive Science
	Sunat Archit Vilas	Cognitive Science
	Ayushi Syagi	Chemistry
	Himanshu Kumar Singh	Chemistry
	Jyossna Saini	Chemistry
	Mohammad Hassan	Chemistry
	Mridupavan Sonowal	Chemistry
	Sachin	Chemistry
	Vani Verma	Chemistry
	Aashay Sandansing	Chemical Engineering
	Aditya Sundaram	Chemical Engineering
	Akash Pallath	Chemical Engineering
	Akshay Kumar Verma	Chemical Engineering
	Ankur Singh	Chemical Engineering
	Aparna N Sumkur	Chemical Engineering
	Arul MozhiDevan P	Chemical Engineering
	Bhawna Panjwani	Chemical Engineering
	Dhuri Sagar Suresh	Chemical Engineering
	Garima Patel	Chemical Engineering

Host Institution	Student Name	Discipline
IIT Gandhinagar, Gujarat	Himanshu Jaswant Singh Chauhan	Chemical Engineering
	Jaideep Pal	Chemical Engineering
	Jani Purvil Rahulbhai	Chemical Engineering
	Kesani Kalyani	Chemical Engineering
	Konde Mandar Purushottam	Chemical Engineering
	Mukul Syagi	Chemical Engineering
	Potturu Apurva	Chemical Engineering
	Ramniwas	Chemical Engineering
	Siddharth Sheshadri K	Chemical Engineering
	Tejas Mehta	Chemical Engineering
	Vaibhav Joshi	Chemical Engineering
	Amit Tiwari	Electrical Engineering
	Anmol Gaur	Electrical Engineering
	Aparna Arya	Electrical Engineering
	Arvind Roshaan S	Electrical Engineering
	Bhavya Jain	Electrical Engineering
	Bhuwan Vyas	Electrical Engineering
	Deshpande Ameya Dilip Dipa	Electrical Engineering
	Duthade Sanket Rajesh	Electrical Engineering
	Gohil Vasudev Arvindkumar	Electrical Engineering
	G Sai Rama Krishna	Electrical Engineering
	Gupta Akash Nandlal	Electrical Engineering
	Hardeep	Electrical Engineering
	Hemant Kumar Verma	Electrical Engineering
	K Shravan Kumar	Electrical Engineering
	Kashyap Patel	Electrical Engineering
	Kshitij Singh	Electrical Engineering
	Luxmi	Electrical Engineering
	Nagare Ashwini Tukaram	Electrical Engineering
	Neeraj Dhull	Electrical Engineering
	Neetesh Kumar Sharma	Electrical Engineering
	Neha Kumari	Electrical Engineering
	P R Vaidyana Shan	Electrical Engineering
	Patel Valay Paresh	Electrical Engineering
	Patil Shubham Hanumant	Electrical Engineering
	Rachit Goyal	Electrical Engineering
	Samarth Kathal	Electrical Engineering
	Shah Hemal Gautamkumar	Electrical Engineering
	Shirpurkar Chinmay Deepak	Electrical Engineering
	Sompura Jay Nileshbhai	Electrical Engineering

Host Institution	Student Name	Discipline
IIT Gandhinagar, Gujarat	Varun Aggarwal	Electrical Engineering
	Vootla Krishna Sai	Electrical Engineering
	Vora Aditya Narendrabhai	Electrical Engineering
	Vyas Samir	Electrical Engineering
	Ragini Nath	Humanities and Social Sciences
	Babita	Mathematics
	Charu Gupta	Mathematics
	Prashu Bajpai	Mathematics
	Ahamed Naji Shaham	Mechanical Engineering
	Akhil Patnaik	Mechanical Engineering
	Aniket Mazumder	Mechanical Engineering
	Ayaz Lakhani	Mechanical Engineering
	Dave Sowill	Mechanical Engineering
	Dsouza Alrick Cyril	Mechanical Engineering
	Gohil Karan Nitinbhai	Mechanical Engineering
	Jagmohan	Mechanical Engineering
	Kamal Tewari	Mechanical Engineering
	Kanak Sharma	Mechanical Engineering
	Kapil Sharma	Mechanical Engineering
	Korat Chirag Mukeshbhai	Mechanical Engineering
	Krishna Kumar Soni	Mechanical Engineering
	Lakshmi Gaya SriSivalenka	Mechanical Engineering
	Manjeet Chaudhary	Mechanical Engineering
	Mayuri Kushhare	Mechanical Engineering
	Mitta Venkata Sai Viswanath	Mechanical Engineering
	Modi Harsh Jashvantbhai	Mechanical Engineering
	Mundru Hemanth Surya Madhav	Mechanical Engineering
	Nakka Suryasatyasanjeevi	Mechanical Engineering
	Nikhil Joshi	Mechanical Engineering
	Nishant Patel	Mechanical Engineering
	Nithin Ramesh	Mechanical Engineering
	Parab Amogh Vishram	Mechanical Engineering
	Pinjari Nehakausar Shaikh Ramjan	Mechanical Engineering
	Pragadeesh R R	Mechanical Engineering
	Ronit Dey	Mechanical Engineering
	Sahil Bharti	Mechanical Engineering
	Sidhartha Rath	Mechanical Engineering
	Singampalli Sai Rohit	Mechanical Engineering
	Solleti Goutham	Mechanical Engineering
	Sonar Chinmay Narendra	Mechanical Engineering

Host Institution	Student Name	Discipline
IIT Gandhinagar, Gujarat	Sumit Kumar	Mechanical Engineering
	Suryakumar Mane	Mechanical Engineering
	Teki Vinay	Mechanical Engineering
	Vakharia Vismay Dilipkumar	Mechanical Engineering
	Valleti Sai Mani Prudhvi	Mechanical Engineering
	Vivek Kumar	Mechanical Engineering
	Yash Patel	Mechanical Engineering
	Aditya Kumar	Materials Science and Engineering
	Bhupendra Kumar	Materials Science and Engineering
	Dileep Singh	Materials Science and Engineering
	Dudhat Kunal Hansraj	Materials Science and Engineering
	Himani Verma	Materials Science and Engineering
	Jugal Mehta	Materials Science and Engineering
	Kaustubh Shirish Panse	Materials Science and Engineering
	Kotamsetti Ravi Teja	Materials Science and Engineering
	Lavalesh Kumar Bajpayee	Materials Science and Engineering
	M Barath Kanna	Materials Science and Engineering
	Prateek Goyal	Materials Science and Engineering
	Priyang Priyadarshi	Materials Science and Engineering
	Rakesh Behera	Materials Science and Engineering
	Shah Harshil Kalpeshkumar	Materials Science and Engineering
	Tandale Mohit Mukundraj	Materials Science and Engineering
Infostretch, Ahmedabad	SahilkumarTabiyad	Chemical Engineering
Indian Railways Institute Of Civil Engineering (IRICEN), Pune	Aashish Kose	Civil Engineering
	Rahul Kumar	Civil Engineering
	Shaleen Chhajer	Civil Engineering
ISRO Satellite Centre (ISAC), Benguluru	Baishali Panda	Mechanical Engineering
Jawaharlal Nehru Aluminium Research Development and Design Centre, Nagpur	Jitendra Gehlot	Mechanical Engineering
Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru	Vamakshi Yadav	Chemistry
Digital Green, New Delhi	Shinde Aashaka Amar	Humanities and Social Sciences
L&T Construction Ltd, Hyderabad	Sakkari Akash Goud	Civil Engineering
Limetray, Delhi	Sheru Aravind Reddy	Civil Engineering
Navin Fluorine International Ltd, Surat	Kushagra Bhargava	Chemical Engineering
	Rajat Kumar Gupta	Chemical Engineering
	Ankit Mittal	Mechanical Engineering
	Sarabjeet Singh	Mechanical Engineering

Host Institution	Student Name	Discipline
The Nielsen Company, Mumbai	Abhishek Anand	Civil Engineering
	Niharika	Electrical Engineering
National Institute of Mental Health and Neurosciences (NIMHANS), Bengaluru	Anusha Kamath M	Chemical Engineering
Oil and Natural Gas Corporation, (ONGC), Mehsana	Pomraj Prajapati	Civil Engineering
PMC Projects Pvt Ltd, Surat	Punit Kumar	Civil Engineering
	Manav Raj	Electrical Engineering
	Rajendra Singh	Electrical Engineering
	Amit Yadav	Mechanical Engineering
	Shah Jugal Saurin	Mechanical Engineering
	Vaibhav Gupta	Mechanical Engineering
Saathi Pads, Ahmedabad	Antima Meena	Materials Science and Engineering
Space Application Center (SAC), Ahmedabad	Aatman C Vora	Electrical Engineering
Sai-Mach Pharma, Ahmedabad	Patel Pinank Kishorbhai	Mechanical Engineering
Schlumberger, Mumbai	Aravind Damacharla	Electrical Engineering
Sheekho, Bihar	Himanshu Goswami	Electrical Engineering
Sheela Foam, Talwada	Harsh Khandelwal	Chemical Engineering
	Jainidhi Maurya	Chemical Engineering
	Sourabh Soni	Chemical Engineering
	Bhagat RajanBalister	Mechanical Engineering
Shree Cement, Beawar	Mridul Pareek	Chemical Engineering
Tata Consultancy Services (TCS), Mumbai	Rahul	Mathematics
Tetcos, Bengaluru	Kshitij Singh	Electrical Engineering
Tata Institute of Fundamental Research (TIFR)-Centre for Applicable Mathematics, Bengaluru	Sanjeet	Mathematics
Toppr, Ahmedabad	Harsh	Chemical Engineering
Tyco, Bengaluru	Namana Naga Sindu	Electrical Engineering
	Shashank Mehra	Electrical Engineering
Underwriters Laboratories, Bengaluru	Ajay Singh Shekhawat	Civil Engineering
	Ansh Joshi	Electrical Engineering
	Aagam Rajeev Shah	Materials Science and Engineering
	Aman Kamlesh Singh	Materials Science and Engineering
Urban Hunt, Gandhinagar	Sarvepalli Nagasai Vardhan Rao	Electrical Engineering
	Janga Sai Kiran	Mechanical Engineering
Venture Factory, Bengaluru	Saurav Nagar	Mechanical Engineering

Host Institution	Student Name	Discipline
Vikram Sarabhai Space Centre (VSSC), Trivandrum	Puja Kumari	Electrical Engineering
	Anurag Agrawal	Mechanical Engineering
	Pragati Pradip Joshi	Mechanical Engineering
	Rohit Nanavati	Mechanical Engineering
	Venu Agarwal	Mechanical Engineering
White Panda, Gandhinagar	Abhinay Rana	Chemical Engineering
	Rushil Shamkant Vispute	Electrical Engineering
	Akhilesh	Mechanical Engineering

CLASS OF 2016 GRADUATES PURSUING HIGHER STUDIES ABROAD

Name	Institute	Programme	Discipline at IITGN
BTECH			
Nishit Shetty	Washington University, St Louis, USA	PhD	Chemical Engineering
Yash Mehta	Rice University, USA	MS+PhD	Electrical Engineering
Gullapally Sai Chowdary	University of California, San Diego, USA	MS	Electrical Engineering
Pranshul Saini	TU Munich, Germany	MS	Mechanical Engineering
Nirmal Jayaprasad	University of Illinois, Urbana Champaign, USA	MS	Mechanical Engineering
Animesh Kumawat	University of Toronto, Canada	MSc	Electrical Engineering
Sri Raghu Malireddi	University of Victoria, British Colombia, Canada	MSc	Electrical Engineering
Radhika Pramod Patil	Stanford University, CA, USA	MS	Mechanical Engineering
Chinmay Ajnadkar	Duke University, USA	MME	Electrical Engineering
Kishore Kumar	Arizona State University, USA	MS	Chemical Engineering
Jithin Prabha	Purdue University, USA	MS	Mechanical Engineering
Jatindeep Singh	University of Columbia, USA	M.S	Electrical Engineering
Sweta Parmar	Georgia Institute of Technology, USA	PhD	Chemical Engineering
Vaibhav Abhay Palkar	Clemson University, USA	PhD	Chemical Engineering
Akhilesh Deepak Gotmare	EPFL, Switzerland	MS	Electrical Engineering
Hema Choudhary	University of Maryland, College Park, USA	PhD	Chemical Engineering
MTECH			
Abheeti Goyal	TU Eindhoven, Netherlands	PhD	Mechanical Engineering
Jyoti Maheshwari	Imperial College London, UK	PhD	Electrical Engineering
Mohmad Mohsin Thakur	University of Tennessee, Knoxville, USA	PhD	Civil Engineering
Akshay Gadi Patil	Simon Fraser University, Burnaby, Canada	PhD	Electrical Engineering
MSc			
Ravi Srivastava	University Claude Bernard Lyon, France	Doctoral Program	Chemistry
Rohit	Tallinn University of Technology, Estonia	PhD	Chemistry
Vipul V Nair	University of Skövde, Sweden	PhD	Cognitive Science

CLASS OF 2016 GRADUATES PURSUING HIGHER STUDIES IN INDIA

Name	Institute	Programme	Discipline at IITGN
BTECH			
Yash Sultania	IIM Indore	MBA	Mechanical Engineering
K Abhishek	IIM Kozhikode	MBA	Chemical Engineering
Surendra Beniwal	IIT Bombay	MTech	Chemical Engineering
Chitnis Parag Jayant	Davinci Media College, Chennai	Diploma in VFX	Mechanical Engineering
MTECH			
Amit Kumar Singh	IIT Gandhinagar	PhD	Materials Science and Engineering
Ekta Sharma	IIT Bombay	PhD	Chemical Engineering
Vandana Rajput	IIT Gandhinagar	PhD	Chemical Engineering
Sarkar Aditya Anjan	IIT Bombay	PhD	Materials Science and Engineering
Nikhil Cherian Kurian	IIT Bombay	PhD	Electrical Engineering
Ipsita Madhu Mita Das	IIT Gandhinagar	PhD	Materials Science & Engineering
Amit Kumar	IIT Gandhinagar	PhD	Materials Science & Engineering
Seema Negi	IIT Bombay	PhD	Materials Science & Engineering
Zade Anita Dnyanba	IIT Gandhinagar	PhD	Chemical Engineering
Mankad Jaivik Kartik	IIT Gandhinagar	PhD	Chemical Engineering
Kumari Sushmita	IISC Bangalore	PhD	Chemical Engineering
Puchalapalli Samba Sivaiah	IIT Delhi	PhD	Electrical Engineering
Jayshree Bhajipale	IIT Bombay	PhD	Electrical Engineering
MSc			
Jagini Kumar	IIT Gandhinagar	PhD	Cognitive Science
Akash Kumar Mishra	IIT Gandhinagar	PhD	Physics
MASC			
Ratna Bharati B	Hyderabad Central University, Hyderabad	MPhil	Society and Culture

UDAAN: THE FAREWELL DINNER

Udaan, the formal farewell dinner for the graduating batch, was organized on Apr 9, 2016. The event was attended by the graduating batch of undergraduate and postgraduate students and PhD scholars. The evening invoked nostalgia and brought back memories with several speeches from faculty and students. The event also involved an array of cultural performances and a traditional batch photo shoot.

EXTRA-CURRICULAR ACTIVITIES

SWACCH BHARAT DRIVE

The first-year students of IIT Gandhinagar went on a **Swacch Bharat Drive** on Aug 14, 2016, Sunday to clean Kalupur (Ahmedabad) railway station. All 180 students joined the cleaning initiative as a part of institute's **Foundation Programme**. This activity was planned in collaboration with Western Railways. The aim was to involve students in generating respect for the cleaning staff working under adverse conditions and to spread the message of cleanliness.

WINTER CARNATIONS

A unique festival that brings together the entire campus community, **Winter Carnations 2016** was based on the theme of **Halloween** where everyone was dressed in spooky costumes. The carnival had a vibrant atmosphere with colorful lights, live music performances, aroma of great food, and cheers of people enjoying games around the stalls.

JASHN

Jashn 6.0 was organized from Jan 6-9, 2017. This year's Jashn was inaugurated by **Prof S P Mehrotra**. It was bigger and better than the earlier versions as there were around 29 events in total including Screw-em, Jack of All trades, Labyrinth and stage events like Drishya (Drama), Decibels (Music) and Thump (Dance). One new gaming event – Mini Militia was introduced to the pool of events this year. Arts-Expo was held in the hostel premises where best of the art works and photographs by students were put on display during the fest. The participation has increased two-folds in most of the events. The total event was organized by a team of 72 volunteers.

IITGN FAMILY SPORTS FESTIVAL

The second edition of IIT Gandhinagar **Family Sports Festival** was held from Feb 3-5 2017. It aimed to bring together the faculty members and staff along with their families to interact and participate in group events and programs.

AMALTHEA 2016

Amalthea 2016, the annual technical summit of IITGN was organized on Oct 22-23, 2016. **Mr V K Saraswat**, an eminent scientist and a member of NITI Aayog, inaugurated the conclave. This year's theme was **Technologizing Challenges and Spreading Knowledge**. The objective of Amalthea'16 was to bring out the simple correspondence between technology and development, and to share experiences and generate new ideas. The exhibition **Expediting Development through Tech and Innovation** and the symposium on **Technologies in Defense and Internal Security** were the highlights of Amalthea this year. Amalthea continues to grow as an avenue for showcasing innovative products developed at IITGN and to witness the best technology being incubated here in the years to come.

SPICMACAY MUSIC CONCERT

Spicmacay music concert witnessed the performance by **Ustad Bundu Khan** on Feb 24, 2017. He is one of the best singers of a traditional folk singing group of Sarangiya Langas.

IGNITE 3.0

Technical council at IITGN, organized **IGNITE 3.0**, on Mar 10-11, 2017. Drone airshows, laboratory tours and 3D printing workshops were among the highlights of this technological fest.

INTER-IIT TECH MEET

This was the first time that an IITGN contingent comprising 24 students participated in the Inter-IIT Tech Meet. This was the 5th edition of the meet and was scheduled on Mar 25-26, 2017 at IIT Kanpur. The Technical Council received 58 nominations out of which 24 were selected through two phases of screening done with the consent of different faculties. The teams prepared meticulously for the events for the two months and the results clearly reflects their determination and grit. These 24 dedicated students from our institute represented IIT Gandhinagar in seven different competitions based on coding, designing & marketing, aerodynamics, electronics (Ardunio based challenges.

SPECIAL OCCASIONS

INTERNATIONAL DAY OF YOGA

IITGN observed the International Day of Yoga on Jun 21, 2016. The events included a talk on **Philosophy and History of Yoga** by **Prof Nitin Padhiyar**, demonstration and practice of asanas and their specific benefits by **Mr Hemant Shah**, screening of videos from the Ministry of Ayush and a light healthy lunch of fruits and vegetables.

70TH INDEPENDENCE DAY CELEBRATIONS

IIT Gandhinagar celebrated the 70th Independence Day on its new campus on Aug 15, 2016. The celebrations began with flag hoisting, singing of the national anthem, and distribution of faculty excellence awards. The following faculty members received the faculty excellence awards for their outstanding contribution: **Dr K Ragavan,** Excellence in Teaching Award for the year 2013-2014; **Dr Chinmay Ghoroi**, Excellence in Institution Building Award for the year 2013-2014; **Dr Kabeer Jasuja**, Excellence in Teaching Award for the year 2014-15; **Dr Vimal Mishra**, Excellence in Research Award for the year 2014-2015; **Dr Pratyush Dayal**,

BLITHCHRON 2017

The two-day annual cultural festival of IITGN was held during Feb 10-11, 2017. The ninth edition of Blithchron had a plethora of new events. A major attraction of Blithchron'17 was the performance by Coke Studio featuring Ayushmann Khurrana with his band Ayushman Bhava. The following day, Italian producer/DJ, Rossella Blinded and the electronica musician and producer, Dualist Inquiry's performance was the highlight. This year, in association with **The Wishing Factory**, a non-profit organization, Blithchron 2017 took up the social initiative of fulfilling the wishes of 23 children suffering from thalassemia, through the various events being conducted in the fest.

Excellence in Institution Building Award for the year 2014-2015; **Dr Amit Prashant**, Excellence in Outreach Award for the year 2014-2015. The Dean's List for students of all the Undergraduate batches who have excelled in academics were also announced during this event.

HERITAGE FILM FESTIVAL 2016

IITGN in collaboration with Aadhar hosted the **Heritage Film Festival 2016** on Nov 20, 2016. It included screening of selected documentaries followed by an open debate on heritage and crafts.

MEHFIL-E-ADAB

An evening of Urdu poetry recitation was organized by **Prof Hamida Chopra** and **Mr Mubashshir Ahsan** at IITGN on Nov 18, 2016. Students of the Urdu class recited 'ghazals' and 'nazms' of various poets. The event was attended by guests, students and faculty members from different disciplines. A few poets from Ahmedabad were invited as guests who added colors to the evening by their own poetry. Director of Peer Murshid library, **Mr Moyuddeen 'Bombaywala'** and **Prof Nisar Ansari** from Vidyapeeth were guests of honour. Poems of Urdu poets such as Allama Iqbal, Hasrat Mohani, Pt Brij Narayan Chakbast, Sahir Ludhianvi, Iqbal Azeem, Mohd Ali Johar were recited by students.

RASHTRIYA EKTA DIWAS

The country marks **Rashtriya Ekta Diwas** (**National Unity Day**) on Oct 31, 2016 as a fitting tribute to **Sardar Vallabhbhai Patel** on his birthday. On this day, the Physical Education Section at IITGN organized a Run for Unity as a demonstration of unity and integrity. The run was for 2.8 km and saw a participation of around 150 from the IITGN community including students, staff and faculty.

REPUBLIC DAY CELEBRATIONS

The 68thRepublic Day celebrations on Jan 26, 2017 began with flag hoisting by Prof Sudhir K Jain. The Faculty and Staff Excellence Awards were presented on this occasion. Also, to honour and recognize students' excellent academic performance in Semester 1 (2016-17), selected students were awarded during Dean's list Felicitation ceremony. The book Tuesdays with Morrie by Mitch Albom was given to students.

SCHOLARSHIPS FOR STUDENTS

IITGN 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 79 undergraduate and 23 post graduate students of General and OBC categories during the academic year 2016-17. 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.

In addition, tuition fee waiver (Freeship) was also awarded to 12 undergraduate and 08 post graduate 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, 27 undergraduate and 15 post graduate SC/ST category students whose parents' income was upto Rs 4.5 lakhs per year were granted the facility for free food in the student mess and awarded a pocket allowance of Rs 250 per month for ten months.

GITA AND PRITHWISH GOSWAMI SCHOLARSHIP

The Gita and Prithwish Goswami Scholarship is awarded to a first year undergraduate student. This scholarship carries an amount Rs 1,500 per month for ten months. A student who meets the MCM scholarship criteria is eligible for this scholarship. **Bedmutha Manas Satish** is the recipient of this scholarship for the year 2016-17.

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 each for ten months. **Vaddineni Srija, B Pranav Chakravarthy** and **Anurag Gupta** are the recipients of this scholarship for the year 2016-17.

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 course at the end of third year. This scholarship carries an amount of Rs 2,000 per month for ten months. **Anurag Singhania** is the recipient of this scholarship for the year 2016-17.

CLASS-OF-2016 SCHOLARSHIP

The Class-of-2016 Scholarship has been instituted by the IITGN students graduated 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 of Rs 2000 per month each for ten months. **Danish Mansoor** is the recipient of this scholarship for the year 2016-17.

MAHABIR PRASAD SULTANIA SCHOLARSHIP

The Mahabir Prasad Sultania 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 5,000 per month each for ten months. **Sagar Gupta** is the recipient of this scholarship for the year 2016-17.

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 each for ten months. **Rahil Sanwla** is the recipient of this scholarship for the year 2016-17.

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 each for ten months. **Sandeep Kumar Yadav** and **Shubham** are the recipients of this scholarship for the year 2016-17.

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 2016-17.

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. **Hardeep** is the recipient of this scholarship for the year 2016-17.

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. **K S Santhosh Kumar** is the recipient of this scholarship for the year 2016-17.

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 based on 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 2016-17 have been awarded as follows:

SCHOLARSHIP FOR EXCELLENCE IN ACADEMICS

Anurag Singhania (CPI 9.22), **Rishab Anand** (CPI 10.00), **Chauhan Bhargav Bipinbhai** (CPI 9.54) and **Srinivasan A** (CPI 9.55) are the recipients of Scholarship for Excellence in Academics for the year 2016-17 from third year batch.

Siddharth Sheshadri K (CPI 8.24), **Aketi Sai Aparna** (CPI 9.48), **Vinod Ramakrishnan** (CPI 9.36), **B Pranav Chakravarthy** (CPI 8.60) and **Kaustubh Shirish Panse** (CPI 9.22) are the recipients of Scholarship for Excellence in Academics for the year 2016-17 from second year batch.

Anusha Kamath (CPI 9.78), **Aparna N Tumkur** (CPI 9.98), **Rajat Ranjan** (CPI 9.15), **Shipra Mohan** (CPI 9.65) and **Shah Harshil Kalpeshkumar** (CPI 9.89) are the recipients of Scholarship for Excellence in Academics for the year 2016-17 from first year batch.

SCHOLARSHIP FOR EXCELLENCE IN SPORTS

The Scholarship for Excellence in Sports and Games is awarded upto six students for outstanding performance in sports and games as evidenced in the Inter IIT sports meet or similar national events.

Amber Kothari, **Nikhil Sharma** and **Nisha Rawat** were awarded scholarship for excellence in sports for the year 2016-17.

SCHOLARSHIP FOR EXCELLENCE IN ARTS & CULTURE

The Scholarship for Excellence in Arts & Culture is awarded upto 2 students for outstanding performance in cultural and other art festivals as evidenced at the Inter-IIT cultural meet or similar national events. **Nishanth** and **Rishabh Jain** were awarded the scholarship for Excellence in Art & Culture for the year 2016-17.

SCHOLARSHIP FOR EXCELLENCE IN SOCIAL WORK & LEADERSHIP

The Scholarship for Excellence in Social Work and Leadership is awarded upto 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 & Leadership for the year 2016-17.

AWARDS

AWARDS AND RECOGNITION

- **Pratik Chimane**, an MTech student, received the first prize in the category **Best Poster Award** at the 7th World Renewable Energy Technology Congress - 2016 (WRETC-2016), conducted at Manekshaw Centre, New Delhi, Aug 21-23, 2016.
- **Vaishnavi Patil,** and **Vootla Sai Krishna** won the third prize at the **Intel Cup Embedded systems design** contest held in China from Jul 26 - 29, 2016 for the project titled **Smart Medical Network**, 164 teams from 74 universities and 8 countries participated in the 2016 Intel Cup Undergraduate Design Conference.
- **Poonam Pandey** received the **Best Poster Award** at the 15th Indian Theoretical Chemistry Symposium held at Hyderabad Central University for the poster "Influence of Polarization on Carbohydrate Hydration: A Comparative Study using Additive and Polarizable Force Fields.
- **Mukta Gundi** (PhD student in Social Sciences) has been selected as a top finalist in the **Dance Your PhD** contest 2016. This is a unique contest organized by the Science Magazine in which PhD students depict their PhD thesis through a dance.
- A team of IITGN PhD students (**Sanjay Kumar, Pallavi Chilka**) and project students (**Vinod Maurya, Nakshi Desai**) stood first in the Vibrant Gujarat Start-Up Grand Challenge 2016, a part of the Vibrant Gujarat Global Summit. The title of their project is **Efficient and Reusable Nano-Biocatalyst for Extracting Valuable Bioactive Compounds from Agro/Food Waste**.
- Three students received **Best Paper Awards** at the International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues organised by Indian Geotechnical Society (IGS), IGS Mumbai Chapter and International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) from Sep 23 - 24, 2016 in Mumbai. **Saloni Prashant Pandya** and **Debayan Bhattacharya** received the first prize and **Seethalakshmi P** received the second prize.
- Two students **Harsh Modi** and **Vismay Vakharia** had been chosen to represent IITGN for Technological Excursion to IIT Kanpur Astronomy Club for Annual Inter College Astronomy meet **Mandakini 2016** held on Oct 7 - 9, 2016.
- A team of 4 students namely **Jammu Tarun Kumar, Rahul Rajeev, Jatin Ashish Dholakia** and **Putsala Anirudh**, members of Mean Mechanics Club, Technical Council represented IITGN at Techfest 2016 held at IIT Bombay. They presented Submerge an underwater robotic submarine challenge. Based on the technical aspect of design their abstract got selected in top 40 teams out of 133 registrations pan India. They cleared the first round by securing 5thposition among 40 teams and in the finale secured a position among top 9 teams across India.
- **Pallavi Chilka** bagged the **Best Poster Award** in the National Conference of Chemistry of Light and Medicine. She also received funding for 6 months internship at Carnegie Mellon University under the IITGN overseas research experience scheme.
- **Krittika Ralhan** received the **Fulbright-Nehru doctoral research fellowship 2017-18** in the neuroscience subcategory. She will be heading to University of Rochester for her work on the project titled **Design of macrocylic peptide-based aggregation inhibitors for Alzheimer's disease**.
- **Pawan Sharma** was selected for a Screenplay Writing Workshop in International Film Festival as a delegate student. He received a certificate from Film and Television of India, Pune. His film **Be the change** got a certificate of excellence from Information & Broadcasting Ministry which was made with collaboration of IITGN with Sabarmati Ashram deals with Swachch Bharat Mission.
- **Vinod Kumar Reddy** (PhD student in Computer Science and Engineering) bagged the **Best Paper Presentation** award titled On **structural parameterizations of graph motif and chromatic number** at the International Conference on Algorithms and Discrete Applied Mathematics (CALDAM) 2017 organized by the Department of Mathematics, BITS Pilani K K Birla Goa Campus from Feb 16 -18, 2017.
- **3MT** is a competition that challenges research students to communicate the significance of their projects to a general audience in just three minutes established by The University of Queensland (UQ) in 2008, 3MT® is now held in at least 200 universities across more than 18 countries worldwide. 3MT® was designed with the motive that many PhD students will need to communicate their ideas and results to people who may not necessarily have expertise in their field. The first 3MT® competition was held at IIT Gandhinagar on Mar 23, 2017. A total of 10 PhD and Masters students participated in the competition. The event was conducted by the academic council under the guidance of **Prof Nithin V George**. The participants condensed their research into a single slide and presented for three minutes to a diverse and non-specialist audience. The judging panel consisted of **Prof Arup Lal Chakraborty, Prof Chetan Pahlajani** and **Prof Srinivas Reddy**. **Krittika Ralhan** (PhD, Biological Engineering) was the winner of the competition while **Hemant Verma** (MTech, Electrical Engineering) and **K Shravan Kumar** (MTech, Electrical Engineering) were the first and second runners-up respectively.

CASH AWARD FOR RESEARCH PUBLICATIONS

In its 9th meeting on Mar 28, 2013 the Board of Governors had approved a cash award scheme to incentive undergraduate and postgraduate students for papers published in peer-reviewed journals. The following students were given cash awards during the year 2016-17:

Name of the Student	Programme	Amount (in Rs)
Kashyap Patel	BTech	8333
Kashyap Patel	BTech	12500
Abhishek Navarkar	BTech	25000
Aditya Shah	BTech	25000
Rohan Patidar	BTech (alumnus)	8333
Shashank Heda	BTech (alumnus)	8333
Vaibhav Gandhi	BTech (alumnus)	8333
Akhilesh Gotmare	BTech (alumnus)	8333
Animesh Kumawat	BTech (alumnus)	8333
Gaurav Gupta	BTech (alumnus)	12500
Rohan Patidar	BTech (alumnus)	12500
Shanmukha Manoj	BTech (alumnus)	12500
Narendra Kawaria	BTech (alumnus)	12500
Nishit Shetty	BTech (alumnus)	25000
Amit Kumar	MSc (alumnus)	12500
Nisha Hasija	MSc (alumnus)	6250
Goldy Yadav	MSc (alumnus)	25000
Anurag Soni	MTech	25000
Nidhi Mishra	MTech (alumnus)	8333
Sunny Verma	MTech (alumnus)	8333
AnkitaVerma	MTech (alumnus)	8333
Dalip Kumar	MTech (alumnus)	12500
Shrikant Modak	MTech (alumnus)	12500
Nikhil Kurian	MTech (alumnus)	12500
Ipsita Das	MTech (alumnus)	12500
Preeti Rathi	MTech (alumnus)	12500
Rahul Patsariya	MTech (alumnus)	12500
Amar Mandhyan	MTech (alumnus)	25000
Krishna Kumar Saxena	MTech (alumnus)	25000
Akshay Kanoria	MTech (alumnus)	25000
Jyoti Maheshwari	MTech (alumnus)	25000
Sumit Singh	MTech (alumnus)	25000
S Smitha	MTech (alumnus)	25000
Darshan Ajmera	MTech (alumnus)	25000
Altaf Shaik	PhD	6250
Anuji K Vasu	PhD	6250

Name of the Student	Programme	Amount (in Rs)
Jagadish Katla	PhD	12500
Prathap Reddy Patlolla	PhD	12500
Pallavi Chilka	PhD	12500
Anuj Bisht	PhD	12500
Sanjay Kumar	PhD	12500
Poonam Ratrey	PhD	12500
Rupanjali Prasad	PhD	12500
Chandrasekaran	PhD	25000
Guru Krishna Kumar V	PhD	25000
Selvia Kuriakose	PhD	25000
Hadianawala Murtuza	PhD	25000
Apoorva Ojha	PhD	25000
Mohit D Ganeriwala	PhD	25000
Siddharth Kulkarni	PhD	25000
Abhijeet Ojha	PhD	25000
Gayathri P	PhD	25000
Saket Kumar	PhD	25000
Rajendra Nagar	PhD	25000
Mohammad Y Jamal	PhD	25000
Tony Thomas	PhD	25000
V Guru Krishna Kumar	PhD	25000
Pankaj	PhD	25000
Chetan Singh	PhD	25000
Vrutangkumar Vinodkumar Shah	PhD	25000
Poonam Pandey	PhD	25000
Asha Liza James	PhD	25000
Gayathri P	PhD	25000
Veli Mehta	PhD	25000
Pradeep Raj K B	PhD	25000
Akarsh A	PhD	25000
Naresh Balsukuri	PhD	29167
Anuji K Vasu	PhD	33333
Awaneesh Upadhyay	PhD	37500
Tvarit Patel	PhD	37500
Gaurav Dwivedi	PhD	50000
Deepesh Kumar	PhD	50000
Shah Harsh Lovekumar	PhD	50000
Sankha S Bhattacharjee	PhD	8333
Sanat Maiti	PhD	12500
Punitkumar Bhavsar	PhD	12500
Hadianawala Murtuza	PhD (alumnus)	6250

SPORTS

IIT GANDHINAGAR CRICKET CUP

IITGN hosted its first ever **Inter-College Cricket Tournament** from Apr 2-16, 2016. Eight colleges participated in the tournament which was planned as in the knock-out format. The teams that participated are Indus College, PDPU, GNLU, VGEC, DAIICT, IHM, LDRP and IITGN. The IIT Gandhinagar team reached the semi-finals and lost to VGEC by 10 runs. The tournament concluded with Indus University emerging as the champions by overcoming VGEC in the final. Batting first Indus College were bowled out for 80 runs in 19 overs. VGEC in return could not chase down the target and fell short by 20 runs.

IIM SHOURYA INTER-COLLEGIATE SPORTS FEST

The IITGN's Boys Table Tennis team (**Nikhil Sharma** (captain), **Sowill Dave, Amber Kothari, Bharg Mehta**) won a Gold medal. They defeated IIM-A by 3-1 in the finals.

32ND INTER-IIT AQUATICS MEET

The **32nd Inter-IIT Aquatics Meet** was held at IIT Kanpur from Oct 2-5, 2016. **Aagam Shah** represented IIT Gandhinagar at the meet in the Men's 50m Butterfly. He was a finalist and finished 7th with a timing of 36.07s.

SHAURYA'16 – ANNUAL SPORTS FEST OF IIM AHMEDABAD

A total of 10 teams from our Institute participated in this tournament, held during Oct 14 - 16, 2016. Four teams reached the semi-finals and two were finalists. In overall standing after the tournament, IITGN stood fifth in the table among 15 colleges. IITGN bagged a silver and a gold medal in Volleyball (Girls) Table Tennis (Boys) respectively.

ANNUAL SPORTS FEST OF DAIICT

In a successful tournament at **Concours'16 Annual Sports Fest of DAIICT** held during Nov 10 - 13, 2016, IITGN's three teams brought laurels to the institute with a podium finish. The teams of Volleyball Girls and Table Tennis Boys bagged a gold medal whereas the Basketball Boys managed to earn a silver medal.

INTER-IIT SPORTS MEET

The **51st Inter-IIT Sports Meet** held during Dec 12 -19, 2016 concluded at IIT Kanpur. The IITGN contingent consisted of 91 students participating in 12 games. The overall performances of all teams was commendable. The teams of basketball boys, volleyball girls and lawn tennis boys deserve a special mention for making it to the quarter-finals.

LFP

The 8th edition of **intra-college football league** kick-started this January. The league consists of 5 teams with total number of 142 players which includes students, staff and faculty. As the league enters its final stages, there are now only 3 teams left to fight it out to

be the champions of LFP'17.

CCL (CRICKET COMBAT LEAGUE)

The latest edition of intra-college cricket league got underway in the first week of January. A total of 8 teams were drafted from the pool of registered players through auctions. The league has witnessed some close encounters promises to have a thrilling finish.

JUSTICE LEAGUE'17

A contingent of 57 players represented IIT Gandhinagar at the Justice League'17 - Annual Sports Fest of Gujarat National Law University (GNLU) held on Feb 11 - 13, 2017. A total of 7 teams participated in the tournament with the carrom team comprising **Sri Sahith** (captain), **Devanand, Sushant Kumar** winning the gold medal. The men's basketball team and men's table tennis team made it to the semi-finals.

INTER-HOSTEL SPORTS TOURNAMENT

With a vision to promote hostel culture and nurture healthy competition, the **2nd Inter-Hostel Sports** tournament was held on Jan 28 - 29, 2017. The event concluded with **Emiet hostel** emerging as the overall champions for the second time, thus retaining the title.

WEEKEND- CRICKET TOURNAMENTS

Pandit Deendayal Petroleum University organized a **Weekend-Cricket-Tournaments** for faculty and staff during Feb 25-Mar 19, 2017. Eight educational institutes (IPR, ITER, NID, SAC, EDI, IITGN, PDPU, and ALPHA) participated in the prestigious cricket tournament. IIT Gandhinagar was up against many established institutions. IITGN started terrifically by beating the host PDPU by 3 wickets. They soon followed it by thrashing ALPHA. IIT Gandhinagar surged into the semifinals. The semifinal was a one-sided affair as IIT Gandhinagar beat IPR by 8 eight wickets. The final was full of excitement as the match was played between two giants IITGN and ALPHA on Mar 19, 2017. However, IITGN lost the final and ended up as runners up.

HALLA BOL

Halla Bol is a day and night intra-institute sports festival, organized by the student body. The objective is to increase interaction among students, staff and faculty of IITGN. The last version of festival comprised 11 entertaining games played over 10 days. More than 400 matches attracted 2953 registrations from students, staff and faculty, who formed mix teams. The games are played with the rules slightly modified. The games include Futsal, Tug of War, Frisbee, Touch Rugby, Foot Volley, Gully Cricket, 7 Stones, 3 a side Baddy, No Dribble Basky, Dodge ball and Kho-Kho.

STAFF ACTIVITIES

EXCELLENCE AWARDS TO STAFF

The Staff Excellence Awards for the year 2016 were presented to **Ramesh Parmar**, Plumber; **Arika Patel**, Junior Accountant; **Nitin Shukla**, Junior Technical Superintendent; **Jithesh V K**, Junior Superintendent; **Viral Y Shah**, Junior Superintendent; **Ram Babu Bhagat**, Assistant Registrar; **Yashwant Singh Chouhan**, Manager Hospitality; **Deepa Patel**, Manager Housekeeping; **Devendrasinh Dahyaji Zala**, Service Provider. Through these awards the Institute formally recognizes the sustained devotion and exemplary service of its employees.


Ramesh Parmar


Arika Patel


Nitin Shukla


Jithesh V K


Viral Y Shah


Ram Babu Bhagat


Yashwant Singh Chouhan


Deepa Patel


Devendrasinh Dahyaji Zala

23RD INTER-IIT STAFF SPORTS MEET

Ms Twinkle Patel won three bronze medals in 100 m, 200 m and long jump. She stood 4th in shot put during the 23rd Inter-IIT Staff Sports Meet held during Dec 21-25, 2016.

REACHING OUT

Mr Ram Babu Bhagat, Assistant Registrar visited Birmingham, United Kingdom from Apr 24-30, 2016 to attend the Leadership and Management Development Programme organized by Leadership Foundation for Higher Education (LFHE). During the programme, he visited Universities of Coventry, Warwick Wolverhampton and Birmingham City to understand the processes of management in UK Higher Education environment.

EXTERNAL RELATIONS

IITGN-INDIAN ARMY PARTNERSHIP

Lt Gen Subrata Saha, Deputy Chief of Army Staff signed an MoU with IITGN on Dec 27, 2016 to set up a Research and Development Cell at IITGN campus. The Cell will undertake R&D activities of interest to the Indian Army. It will work with the IITGN faculty and students and leverage IITGN research infrastructure. The Cell will consist of 3 - 6 army personnel.

DUKE UNIVERSITY

A delegation of faculty and officers led by **Prof Sudhir K Jain** visited Duke University for a series of workshops and discussions during Jun 16-17, 2016. They were hosted by Duke Provost **Prof Sally Kornbluth** and Vice Provost for Research **Prof Larry Carin**. The two institutions began collaborating in January 2016 to establish collaborative research and teaching programmes. The partnership is facilitated by RTI International and sponsored by the USAID.

The delegation also attended a site visit of the Research Triangle Park in North Carolina. They also attended a strategic planning workshop in North Carolina focused on learning from the Research Triangle Park (RTP) and North Carolina State University Centennial Research Park models, and the broader applied research and innovation ecosystem in RTP. A broad set of speakers and area site visits were facilitated with RTP university representatives, leading Research Triangle Park private industries, as well as three RTP incubator models. The workshops facilitated hands-on learning for the IITGN team, and helped them to prepare core concepts for IITGN's research park strategic plan.

THE NEW SCHOOL, NEW YORK

IIT Gandhinagar has forged a partnership with The New School in New York. The New School was founded in 1919 as a modern, progressive and free school. One of its autonomous colleges is the Parsons School of Design, which was the first school in the United States to offer programs in fashion design, advertising, interior design, and graphic design, and is widely regarded as one of the most prestigious art and design schools in the world. Several IITGN students credited courses at the Parsons School of Design in the summer of 2016.

MoUs

IITGN has been continually building relationships with organizations and individuals both in India and abroad, to support its varied activities and help the institute grow. The following Memoranda of Understanding (MoU) were signed in 2016-17:

INTERNATIONAL

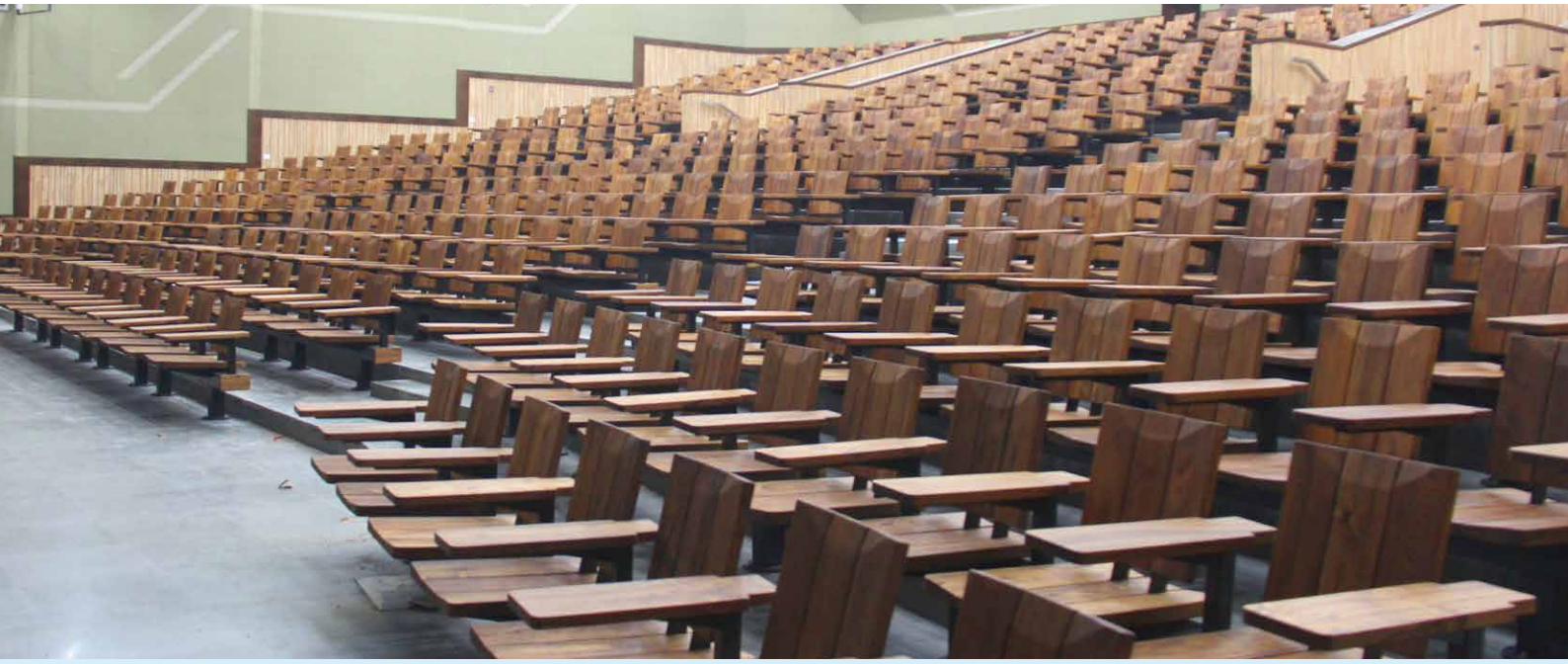
Organisation/Institution	Objective
The New School, USA	To promote and enhance educational and cultural opportunities by student exchange
International University of Innovation Technologies, Kyrgyz Republic	To promote cooperation in education and academic research
College of Engineering, Texas A&M University (TAMU), USA	To promote interaction and collaboration through visits and faculty exchange programmes carry out academic and research programme, joint supervision of doctoral and masters student

NATIONAL

Organisation/Institution	Objective
Institut Francais en Inde, New Delhi	French language classes
TCS Foundation, Mumbai	Encouraging and supporting world class, innovative, and impactful PhD work at the institute.
UL India Pvt Ltd, Bangalore	To develop a 'Fire Test Facility' at IITGN Campus
Tata Motors Ltd (TML) and IIT Bombay Alumni Association (IITBAA), Mumbai	To provide financial aid to needy, deserving engineering students at IIT Gandhinagar
Yuva Unstoppable, Ahmedabad	To provide merit-cum-means scholarships in the name of "Satyaram Scholarship"
Arogya Medtech Private Limited, Kolkata	For development and commercialization of a low-cost, portable, easy-to-use, eye-tracking device named "Mindeye"
Shah Bhogilal Jethalal & Bros, Ahmedabad	Project "Development of smart, environment friendly and low-cost fire detection and suppression system"
Indian Army	To set up an R&D Cell of Indian Army at IITGN
Jasubhai Foundation	To create a permanent endowment at IITGN
Institute of Infrastructure, Technology, Research and Management (IITRAM), Ahmedabad	To provide support to IITRAM
Tata Chemicals Limited, Mumbai	To work together in pursuing and promoting collaboration
Gujarat International Finance Tec-City Co Ltd, Gandhinagar	To share knowledge for Smart City solutions

SUPPORT FOR THE INSTITUTE

MAJOR NEW GIFTS



JASUBHAI ENDOWMENT FUND

A large endowment fund has been established at the institute in honour of **Mr Jasubhai Shah**, a visionary, entrepreneur, philanthropist, and patron of the arts and sciences. The endowment will support excellence in education and research, and support the **Jasubhai Memorial Chair**. In a ceremony on Feb 10, 2017, the main auditorium in the campus was named the **Jasubhai Memorial Auditorium**. **Mr B Narayan**, group President, Reliance Industries Ltd was the Chief Guest on this occasion. **Mr Maulik Jasubhai** delivered the address on behalf of Jasubhai group and family. The Minister of Railways, **Shri Suresh Prabhu** sent a video message recounting the memory of **Mr Jasubhai Shah**. The evening concluded with a musical performance by the members of the Indian National Youth Orchestra.

Late Shri Jasubhai Shah

BAKSHIRAMBHAI S GELOT CHAIR

Late Shri B S Gelot

Shri Gordhanbhai B Gelot

Shri Gordhanbhai B Gelot has set up a faculty chair in honour of his father Shri Bakshirambhai S Gelot. Based in Mumbai, Shri Gordhanbhai runs a small-scale industry in Umargam (south Gujarat). His father was a self-made successful farmer but deprived of receiving any formal education. He recognized the importance of education and gave the best possible education to his children. The faculty chair will help recognize and reward academic excellence and facilitate in retaining outstanding faculty.

NEW SCHOLARSHIPS

DR J L NAYYAR SCHOLARSHIP

Mr Mohinder L Nayyar, of Ashburn, Virginia, USA, has set up an undergraduate scholarship of Rs 50,000 per year in honour of his brother **Dr J L Nayyar**. Mr Nayyar is an internationally recognized specialist in the areas of piping, valves, materials and codes and standards and was honoured by American Society of Mechanical Engineers (ASME) through several honors and awards, including Melvin R Green Medal. He did his engineering education at University of Roorkee (now IIT Roorkee) and is a recipient of 2016 Distinguished Alumnus Award of IIT Roorkee.

Mr Mohinder L Nayyar

CHANDRAKANT & PATRICIA DESAI SCHOLARSHIP

Prof Chandrakant S Desai has set up a scholarship of Rs 50,000 per year for BTech students of Civil Engineering. Prof Desai is a Regents' Professor at the University of Arizona, Tucson, Arizona in USA. He has also been a visiting professor at IITGN and is a well-wisher of the Institute. Prof Desai obtained his BE from VJTI Mumbai, MS from Rice University (USA) and PhD from University of Texas, Austin.

Prof Chandrakant S Desai

AMALTHEA SCHOLARSHIPS

The Amalthea Scholarships of Rs 50,000 per year have been set up utilizing the savings of annual technical event Amalthea organized by IITGN students. The scholarship has been awarded initially to one undergraduate student starting in 2016-17. The number of scholarships shall increase by one every year till it reaches to four scholarships by the year 2019-20.

CLASS-OF-2016 SCHOLARSHIPS

The Class-of-2016 graduates have set up undergraduate scholarships of Rs 20,000 per year. This scholarship has been awarded initially to one undergraduate student starting in 2016-17. The number of scholarships shall increase by one every year till it reaches to four scholarships by the year 2019-20.

SUPPORT FROM INDUSTRY

TATA MOTORS LTD

A Memorandum of Understanding was signed between the Indian Institute of Technology Gandhinagar, Tata Motors Ltd, and the Indian Institute of Technology Bombay Alumni Association to support undergraduate students at IITGN who need financial support. Tata Motors Limited is now providing significant seed funding to take care of tuition and other fees of students needing financial support over a period of four years. IIT Bombay Alumni Association facilitated the arrangement.

STRATA

Strata Geosystems (India) Pvt Ltd has provided substantial CSR (Corporate Social Responsibility) funds to support undergraduate students in their participation in internships, international conferences, workshops, etc., that offer broad exposure and motivate students.

CISCO

A significant grant from CISCO supports creating anomaly detection algorithms by using advanced algorithms and machine learning techniques. With the proliferation of sensors, it is now fairly common to use data collected from lot of sensors in order to track the health of our environment, as well as of complex engineered systems-- such as the health of a river, the environment around a self-driving car, or of a nuclear plant. To truly understand the health and anomalies of such a system, it is important to take a global view by taking into account the dependency of the measured quantities.

DONORS LIST

Name	Category	City
MORE THAN Rs 5 CRORE		
Jasubhai Foundation (in memory of Mr Jasubhai Shah)	well-wisher	Mumbai
Rs 1 CRORE - 4,99,99,999		
Shri Gordhanbhai B Gelot	well-wisher	Mumbai
Underwriters Laboratories	well-wisher	Bangalore
Kiran & Pallavi Patel Family Foundation	well-wisher	Tampa, USA
Rs 25,00,000 - 99,99,999		
Cisco Systems	well-wisher	Mountain View, USA
Gujarat Mineral Development Corporation Ltd	well-wisher	Ahmedabad
Nielsen	well-wisher	Oldsmar, USA
Raj Mashruwala	well-wisher	Palo Alto, USA
Astav Sacheti	well-wisher	San Jose, USA
Rs 5,00,000 - 24,99,999		
Strata Geosystems (India) Pvt Ltd	well-wisher	Mumbai
Tata Motors Limited	well-wisher	Mumbai
Gujarat Industrial Development Corporation	well-wisher	Gandhinagar
Ruyintan Mehta	well-wisher	Watchung, USA
N R Narayana Murthy	well-wisher	Bangalore
Avi Nash (Indira Foundation)	well-wisher	Greenwich, USA
Mohinder Nayyar	well-wisher	Ashburn, USA
Rs 1,00,000 - 4,99,999		
Tanmay Balwa	BT/ME/2012	Gandhinagar
Sudhir K Jain	faculty	Gandhinagar
R Sharan	faculty	Gandhinagar
Harsh Bhargava	well-wisher	Princenton Manor, USA
Chandrakant Desai	well-wisher	Tucson, USA
Desai Foundation	well-wisher	Burlington, USA
Durga Bearings Mumbai Private Limited	well-wisher	Mumbai
Arvind & Renu Jain	well-wisher	Pleasanton, USA
Rajendra & Pallavi Shah	well-wisher	Cupertino, USA
Venkatsai Laxman Vangipurapu	well-wisher	Yuva Foundation, Ahmedabad
Rs 25,000 - 99,999		
Prashant Borde	BT/EE/2012	Bangalore
Adit Gupta	BT/CL/2013	Mumbai
Kasivisvanathan Chelvakumar	faculty	Fullerton, USA

Name	Category	City
S P Mehrotra	faculty	Gandhinagar
D V Pai	faculty	Gandhinagar
D P Roy	faculty	Gandhinagar
G V Rao	faculty	Hyderabad
Ram Misra	well-wisher	Monteville, USA
Dheeraj Sanghi	well-wisher	Kanpur
Gary B Schuster	well-wisher	Atlanta, USA
Rs 5,000 - 24,999		
Luv Gupta	BT/CL/2012	Stanford, USA
Aditi Dighe	BT/EE/2013	Durham, USA
Shyamal Kishore	BT/ME/2013	Kingston, USA
Mohak Patel	BT/ME/2013	Rhode Island, USA
Ekta Prashnani	BT/EE/2013	Goleta, USA
Mohit Verma	BT/CL/2013	Indore
Aishwarya Agarwal	BT/EE/2014	Blacksburg, USA
Adit Bhardwaj	BT/EE/2014	San Diego, USA
Ameya Yashwant Joshi	BT/EE/2014	Atlanta, USA
Kinley Kucera Mehra	MSc/CG/2015	Torrington, USA
Ravi Kumar	BT/EE/2016	Kota
Chandrakumar Appayee	faculty	Gandhinagar
Amit Arora	faculty	Gandhinagar
Atul Bhargav	faculty	Gandhinagar
Arup Lal Chakraborty	faculty	Gandhinagar
Michel Danino	faculty	Gandhinagar
Ramesh Gaonkar	faculty*	New York, USA
Indrajit Ghosh	faculty*	San Luis Obispo, USA
Sriram K Gundimeda	faculty	Gandhinagar
Mohan Joshi	faculty	Gandhinagar
Shiv Kumar Jolad	faculty	Gandhinagar
Sharmistha Majumdar	faculty	Gandhinagar
Achal Mehra	faculty*	Torrington, USA
Nihar Ranjan Mohapatra	faculty	Gandhinagar
S L Narayanamurthy	faculty*	Bangalore
Srinivas G Reddy	faculty	Gandhinagar
Ajanta Sachan	faculty	Gandhinagar
Sudhanshu Sharma	faculty	Gandhinagar
Meera Mary Sunny	faculty	Gandhinagar

Name	Category	City
Surya Pratap Vanka	faculty*	Urbana, USA
U A Yajnik	faculty*	Mumbai
Prem Kumar Chopra	staff	Gandhinagar
T S Kumbar	staff	Gandhinagar
Sunita Menon	staff	Gandhinagar
Arika Patel	staff	Gandhinagar
C S Sharma	staff	Gandhinagar
Prashansa Mukim	well-wisher	Santa Barbara, USA
P Chandrashekhar	well-wisher	Mumbai
Dipan Kumar Ghosh	well-wisher	Mumbai
ITAMMA	well-wisher	Mumbai
Sandeep Joshi	well-wisher	Indore
Samir Raiyani	well-wisher	Fremont, USA
Balkrishna B Soneji	well-wisher	Ahmedabad
Pushkar Srivastava	well-wisher	Gandhinagar
UPTO Rs 4,999		
Puneeth Nallan Chakravarthula	BT/ME/2012	Santa Barbara, USA
Keshav G	BT/ME/2012	Gulbarga
Shaikh Siddhik Hussain	BT/EE/2012	Suryapet
Pranav Kumar Konduru	BT/EE/2012	Buffalo, USA
Neel Nadkarni	BT/ME/2012	Pasadena, USA
Saurabh Nagrecha	BT/EE/2012	Notre Dame, USA
Kundan Suguru	BT/EE/2012	Hyderabad
Yalla Sushmitha	BT/EE/2012	Seattle, USA
Prerit Terway	BT/EE/2012	Ann Arbor, USA
Suguru Kundan	BT/EE/2012	Hyderabad
Prakash Goulla	BT/CL/2012	Hyderabad
Rajat Jain	BT/ME/2013	Bangalore
Shruti Jain	BT/CL/2013	Austin, USA
Chetas Joshi	BT/EE/2013	West Lafayette, USA
Shalinee Kavadiya	BT/CL/2013	St Louis, USA
Rahul Pancholi	BT/CL/2013	Mumbai
Prashant Patel	BT/ME/2013	Edmonton, Canada
Ayesha Sayed	BT/EE/2013	West Lafayette, USA
Yash Shah	BT/ME/2013	Ahmedabad
B Abhishek Sharma	BT/ME/2013	Hyderabad
Nagendra Singh	BT/CL/2013	Meerut

Name	Category	City
Smit Shah	BT/CL/2014	College Station, Texas, USA
Dhwanil Shukla	BT/ME/2014	Atlanta, USA
Alok Gangopadhyay	BT/EE/2015	Gandhinagar
Rohan Patidar	BT/EE/2015	Seattle, USA
Kiran Rangwani	MT/CE/2015	Ahmedabad
Rachita Agrawal	MT/EE/2016	Jaipur
Chinmay Kishor Ajnadkar	BT/EE/2016	Bhusawal
Tushar Ramesh Anchan	BT/ME/2016	Mumbai
P V S Anurag	BT/ME/2016	Bareilly
Payal Arora	MSc/CH/2016	Rewari
Sanchayni Sanjay Bagade	BT/CL/2016	Thane
Aarti Bansal	MSc/MA/2016	Bahadurgarh
Naman Bansal	BT/EE/2016	Jind
Surendra Beniwal	BT/CL/2016	Nagur
Mihir Milind Bhalerao	BT/ME/2016	Pune
Nayan Jyoti Boruah	MSc/CH/2016	Guwahati
Sarita Bugalia	MSc/MA/2016	Jhunjhunu
Rajat Shiv Chand	BT/ME/2016	Mumbai
Yashodeep Prabhu Chavhan	BT/CL/2016	Ahmednagar
Sagar Chawla	BT/CL/2016	Udaipur
Gullapally Sai Chowdary	BT/EE/2016	Hyderabad
Rohit Kumar Dang	MT/EE/2016	New Delhi
Salecha Kushal Dilipkumar	BT/EE/2016	Ahmedabad
Rocky Dongre	BT/ME/2016	Bhilai Nagar
Rahul Garg	BT/ME/2016	Sirohi
Rajanikant Atul Ghate	MT/ME/2016	Warje
Akhilesh Deepak Gotmare	BT/EE/2016	Nagpur
Ashish Kumar Gupta	BT/EE/2016	Ahmedabad
Gaurav Gupta	BT/EE/2016	Mazgaon
Shah Shrey Hitesh	BT/ME/2016	Mumbai
Kishore Kumar J	BT/CL/2016	Padi
Ajinkya Tupkar Jain	BT/EE/2016	Indore
Ayush Jain	MT/ME/2016	Gwalior
Chitnis Parag Jayant	BT/ME/2016	Aurangabad
Sanjit Jena	BT/ME/2016	Jamnagar
Lavdeep Kaur	BT/CL/2016	Sri Ganganagar
Kanchan	MSc/CH/2016	New Delhi

Name	Category	City
Amit Kumar	MSc/CH/2016	Jhajjar
Chitranshu Kumar	BT/EE/2016	Etawah
Naveen Kumar	BT/ME/2016	Jhunjhunu
Sushil Kumar	BT/CL/2016	Mumbai
Animesh Singh Kumawat	BT/EE/2016	Udaipur
Naveen Kumar Kundal	BT/EE/2016	Chandigarh
Mangi Lal	BT/CL/2016	Barmer
Paturu Veerabadra Lokesh	BT/EE/2016	Nellore
Surya M	BT/ME/2016	Chennai
Vivek Maida	BT/CL/2016	Banswara
Koushik Mani	BT/ME/2016	Guwahati
Swasti Medha	MT/CL/2016	Dhanbad
Latika Meena	BT/EE/2016	Alwar
Rajesh Kumar Meena	BT/EE/2016	Dausa
Sanjay Kumar Meena	BT/EE/2016	Jaipur
Shah Utsav Mineshbhai	MT/ME/2016	Ahmedabad
Konduru Venkata Naga Sai Ravi Teja	BT/ME/2016	Guntur
Nirmal Jayaprasad Nair	BT/ME/2016	Aluva
Vipul V Nair	MSc/CG/2016	Aleppy
Niladri Naskar	MT/MSE/2016	Maheshtala
Seema Negi	MT/MSE/2016	Tehri Garhwal
Shashank Nigam	BT/ME/2016	Gunah
Shubham Pachori	BT/EE/2016	Bhopal
Karan Palaskar	BT/ME/2016	Aurangabad
Vaibhav Abhay Palkar	BT/CL/2016	Mumbai
Rahul Kumar Pandey	BT/ME/2016	Etawah
Ankit Pandole	BT/CL/2016	Bhopal
Virendra Singh Panwar	BT/CL/2016	Jaipur
Shashank Kishore Pareta	BT/ME/2016	Indore
Sweta Parmar	BT/CL/2016	Ahmedabad
Karma Patel	BT/ME/2016	Gandhinagar
Shrikant Patel	BT/EE/2016	Panna
Pardeep Phullay	BT/ME/2016	Kurukshetra
Vadera Meet Prakashbhai	BT/ME/2016	Vadodara
Anarse Ashish Pralhad	BT/ME/2016	Aurangabad
Patil Radhika Pramod	BT/ME/2016	Aurangabad
Malireddi Sri Raghu	BT/EE/2016	Kakinada

Name	Category	City
Deep Rahul	BT/EE/2016	New Delhi
Gundabathini Rakesh	MT/EE/2016	Guntur
Saripalli Venkat Ramakrishna	MT/EE/2016	Ahmedabad
Chaudhary Kunal Ramkishun	BT/CL/2016	Mumbai
Modak Shrikant Ramrao	MT/CL/2016	Yavatmal
Abhishek Ranjan	BT/EE/2016	Lohardaga
Rakesh Ranjan	BT/ME/2016	Banka
Mudit Rathor	BT/EE/2016	Balaghat
Muzammil Moinuddin Rawoot	BT/ME/2016	Thane
Medaramatla Sidhartha Reddy	BT/EE/2016	Puntagutta
Palak Sadani	BT/CL/2016	Harda
Sunil Sahra	BT/CL/2016	Karauli
Pranshul Saini	BT/ME/2016	Mandi
Mehta Yash Sanjay	BT/EE/2016	Mumbai
Pankhuri Saxena	MSc/CH/2016	Pune
Ekta Sharma	MT/CL/2016	Jaipur
Gaurav Sharma	BT/ME/2016	Gaziabad
Nikhil Sharma	MT/CL/2016	Neemuch
Raj Shekhar	BT/ME/2016	Allahabad
Nishit Shetty	BT/CL/2016	Mumbai
Ritwik Shukla	BT/ME/2016	Jhansi
Abhimanyu Singh	BT/CL/2016	Jaipur
Abhinav Singh	BT/ME/2016	Reva
Alok Singh	BT/EE/2016	Allahabad
Amit Kumar Singh	MT/MSE/2016	Simdega
Harshvardhan Singh	BT/ME/2016	New Delhi
Jatindeep Singh	BT/EE/2016	Noida
Manjot Singh	BT/CL/2016	Ramgarh
Naman Singh	BT/EE/2016	Nagaur
Nikhil Singh	MT/EE/2016	Alwar
Prince Kumar Singh	BT/EE/2016	Noida
Vishvendra Singh	BT/ME/2016	Bharatpur
Yash Pratap Singh	BT/ME/2016	Agra
Dipen Somani	BT/EE/2016	Himatnagar
Manish Soni	BT/EE/2016	Balotra
Chakraborty Priti Sridhar	MT/EE/2016	Ahmedabad
N S Subrahmanya Teja	BT/EE/2016	Malkajgri

Name	Category	City
Yash Deepak Sultania	BT/ME/2016	Mumbai
Kumari Sushmita	MT/CL/2016	Champaran
Hydarali M T	BT/ME/2016	Malappuram
Divyansh Tripathi	BT/ME/2016	Allahabad
Abhijit Sanjay Umap	MT/EE/2016	Amravati
Gudaram Sai Vaibhav	BT/EE/2016	Kadapa
Saurabh Sandeep Vaichal	BT/ME/2016	Aurangabad
Samarth Sanjiv Vaijanapurkar	BT/ME/2016	Surat
Abhishek Verma	BT/CL/2016	Faizabad
Ankita Verma	MT/CL/2016	Raipur
Margaj Om Vijay	BT/ME/2016	Aurangabad
Vidyanand Girish Wagh	BT/CL/2016	Mumbai
K Abhishek	BT/CL/2016	Hyderabad
Nisha	MSc/PH/2016	Ghaziabad
Rakhi	MSc/CG/2016	Jharkhand
Rohit	MSc/CH/2016	Sonipat
Sanjaykumar Hansraj Amrutiya	faculty	Gandhinagar
Surjeet Kour	faculty	Gandhinagar
Nithin V George	faculty	Gandhinagar
Harish P M	faculty	Gandhinagar
Vinod Narayanan	faculty	Gandhinagar
Memo Gupta	staff	Gandhinagar
Meena Joshi	staff	Gandhinagar
Mouli Kethineedi	staff	Gandhinagar
Jay Mehta	staff	Gandhinagar
Santosh Raut	staff	Gandhinagar
Shashin A Raval	staff	Gandhinagar
Komal Tarunkumar Sangtani	staff	Gandhinagar
Tenlis Solanki	staff	Gandhinagar
Anonymous	well-wisher	—
Met Ayalp	well-wisher	Burnaby, Canada
Raj Mohan B V S	well-wisher	Hyderabad

ORGANIZATION

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

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

PROF SUDHIR K JAIN
Director
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 N 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
New Delhi

SHRI M B BHALALA
former Chief Engineer
Road & Building 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 K V V Murthy*
Prof N Ramakrishnan
Prof R Sharan
Prof Jyoti Mukhopadhyay
Prof Mohan Joshi
Prof R RPuri
Prof R N Singh
Prof A Ramanathan
Prof C N Pandey
Prof Rajagopalan Srinivasan
Prof Pranab Kumar Mohapatra
Prof Neelkanth Chhaya
Prof Raghavan Rangarajan
Prof Deepak Kunzru
Prof Amit Prashant
Prof Rita Kothari
Prof Vineet Vashista
Prof Bireswar Das
Prof Arup Lal Chakraborty
Prof Sameer Dalvi
Prof Bhaskar Datta
Prof Superb Misra
Prof Dilip Srinivas Sundaram
Prof Meera Mary Sunny
Prof Jaison Manjaly
Prof Sharad Gupta
Prof Anand Sengupta
Prof Vikrant Jain
Prof Indranath Sengupta
Dr T S Kumbar
Prof Sivapriya Kirubakaran
Prof Atul Bhargav
Prof Gaurav
Prof Abhijit Mishra
Prof Harish P M
Prof Pratik Mutha
Prof Nithin V George

SECRETARY
SHRI P K CHOPRA
Registrar

STUDENT INVITEES
Shubham Patil
Chakresh Singh
Akhil Patnaik
Prerna Singh

STANDING COMMITTEES OF THE SENATE

SENATE ACADEMIC PERFORMANCE EVALUATION COMMITTEE (SAPEC)

Prof D V Pai, Convener
Prof Amit Prashant, Dean, Academic Affairs
Prof Rita Kothari
Prof Abhijit Mishra
Prof Nithin V George
Prof Kabeer Jasuja
Prof Virupakshi Soppina
Prof S Rajendran

SENATE ACADEMIC PROGRAMMES COMMITTEE (SAPC)

Prof Amit Prashant, Chairman (Dean, Academic Affairs)
Prof Abhijit Mishra
Prof Nithin V George
Prof Bhaskar Datta
Prof Sameer V Dalvi
Prof Pranab Mohapatra
Prof Arup Lal Chakraborty
Prof Indranath Sengupta
Prof Jaison Manjaly
Prof Meera M Sunny
Prof Anand Sengupta
Prof Bireswar Das
Prof Sharad Gupta
Prof Vikrant Jain
Prof Dilip S Sundaram
Prof Superb Misra
Mr Anurag Singhania, Student Nominee
Mr Deepak Dhariwal, Student Nominee

SENATE SCHOLARSHIP AND SENATE SCHOLARSHIP AND PRIZES COMMITTEE (SSPC)

Prof Jaison A Manjaly, Chairman (Dean, Student Affairs)
Prof Atul Bhargav
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
Mr Shubham Patil, General Secretary
Mr Chakresh K Singh, Convener
Ms Garima Chaudhary, Student Nominee
Mr Prateek Pawan K, Student Nominee

SENATE LIBRARY COMMITTEE (SLC)

Prof R Sharan, Chairman
Dr T S Kumbar
Prof Sudipta Sarkar
Prof Madhumita Sengupta
Prof Kaustubh Rane
Mr Yogesh Fulpagare
Mr Bhuwan Vyas

ACADEMIC OFFICIALS

Prof Sudhir K Jain
Director

Prof Amit Prashant
Dean, Academic Affairs

- Prof Nithin V George
  Associate Dean, Postgraduate Studies
- Prof Abhijit Mishra
  Associate Dean, Undergraduate Studies

Prof Jaison A Manjaly
Dean, Student Affairs

- Prof Atul Bhargav
  Associate Dean, Student Welfare
- Prof Gaurav S
  Head, Career Development Services
- Prof Abhay Raj Singh Gautam
  Coordinator, Placement
- Prof Shanmuganathan Raman
  Coordinator, Internships
- Prof Dinesh Garg
  Coordinator, Career Counselling
- Prof Vijay Thiruvenkatam
  Coordinator, Industry Visits
- Prof Kabeer Jasuja
  Head, Student Counselling Service
- Prof Chetan Pahlajani
  Advisor, Sports
- Prof Pedro Pombo
  Advisor, Cultural Activities
- Prof Nihar Ranjan Mohapatra
  Advisor, Technical Activities
- Prof Manish Kumar
  Advisor, Scholarships
- Prof Umashankar Singh &
- Prof Ambika Ayyadurai
  Coordinator, Students Integration
- Mr C S Sharma
  Coordinator, Communication & Life Skills Programme
- Prof Ragavan K
  Warden, Hostel Infrastructure
- 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 Pratik Mutha
  Associate Dean, Faculty Recruitment

Prof S P Mehrotra
Professor-in-charge, Research & 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 Partnership
- Col S S Kapoor
  Adviser, Coordination

Prof D P Roy
Professor-in-charge, General Administration and
Professor-in-charge, Engineering Disciplines

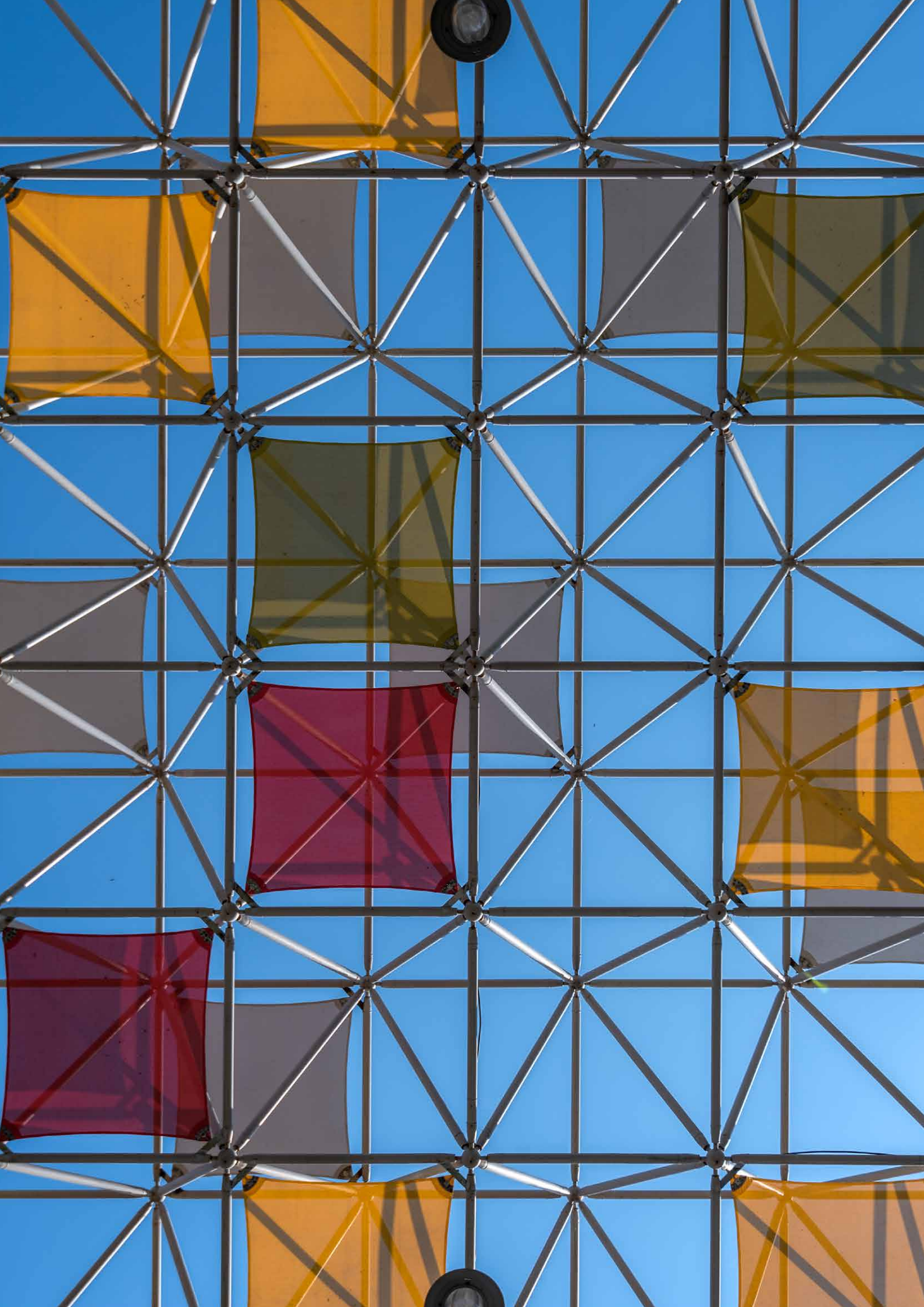
Prof D V Pai
Professor-in-charge, Humanities and Science Disciplines

Prof Harish P M
Dean, Campus Development

STUDENT LEADERSHIP

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

General Secretary	Prathamesh Badve
Academic Secretary	Deepak Dhariwal
Cultural Secretary	Aditya Goel
Sports Secretary	Bhupendra Kumar
Technical Secretary	Borse Dinesh Anil
Industry Relations and Projects (IR&P) Secretary	Siddharth Sheshadri K
Student Welfare Secretary	Anmol Raina
Professional Development Council (PDC)	Pragadeesh R R



FACULTY

Discipline	Designation	PhD/ Last Degree	Specialization
Archaeology			
Alok Kumar Kanungo	Assistant Research Professor	Deccan College, 2003	History and origin of glass
V N Prabhakar	Visiting Assistant Professor	Kurukhsetra University, 2013	Harappan archaeology with emphasis on Application of Sciences in Archaeology
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
Sharmishta Majumdar	Assistant Professor	Cornell University, 2006	Genomic and proteomic analysis of transposases and transposase homologs
Pratik Mutha	Assistant Professor	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
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 Engineering)	Texas Tech University, 2011	Design, Control and Monitoring of Complex systems with Human-in-the-Loop
R Srinivasan	Professor	Purdue University, West Lafayette, 1998	Computational systems biology

* For part of the year

Discipline	Designation	PhD/ Last Degree	Specialization
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
Chemistry			
Chandrakumar Appayee	Assistant Professor	IISc, Bangalore 2008	Asymmetric catalysis
Bhaskar Datta	Assistant Professor (Jointly with Biological Engineering)	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	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	Assistant Professor	Purdue University, 2010	Surface water hydrology
Pranab Mohapatra	Professor	IIT Kanpur, 1999	Hydraulics and Water resources engineering
Amit Prashant	Professor	University of Tennessee, 2004	Constitutive modeling for granular materials

* For part of the year

Discipline	Designation	PhD/ Last Degree	Specialization
Ajanta Sachan	Assistant Professor	University of Tennessee, 2005	Material characterization
C N Pandey	Visiting Professor (Jointly with Earth Sciences)	North Gujarat University	Forestry, wild life, environment
Ketki Sharma*	Assistant Professor	Georgia Institute of Technology, 2013	Water treatment
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
Kamalakar Karlapalem*	Professor	Georgia Institute of Technology, 1992	Database Systems
Neeldhara Misra	Assistant Professor (Jointly with Mathematics)	The Institute of Mathematical Sciences, Chennai, 2012	Design and analysis of Algorithms
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
Design			
Amit Sheth*	Adjunct Faculty	IIT Bombay (ongoing)	Wayfinding design
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
Electrical Engineering			
Arup Lal Chakraborty	Associate Professor	University of Strathclyde, UK, 2010	Tunable diode laser spectroscopy for gas parameter measurement

* For part of the year

Discipline	Designation	PhD/ Last Degree	Specialization
Sourindra M Chaudhuri	Assistant Research Professor	Princeton University, 2015	Digital VLSI design and EDA methodologies in the realm of FinFET using Technology CAD
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
K V V Murthy	Visiting Professor	IIT Bombay, 1977	Electrical network theory
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
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

* For part of the year

Discipline	Designation	PhD/ Last Degree	Specialization
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 Social Sciences)	University of Cambridge, UK, 2008	Brain imaging (fMRI) & cognitive science
Pedro Manuel S Pombo	Visiting Assistant Professor	ISCTE-IUL, Lisboa, 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
A Ramanathan	Visiting Professor	Bombay University, 1981	Managerial economics, Cost benefit analysis, Applied econometrics and monetary economics.
Materials Science and Engineering			
Amit Arora	Assistant Professor	The Pennsylvania State University, 2011	Friction stir welding, heat transfer and visco-plastic flow

* For part of the year

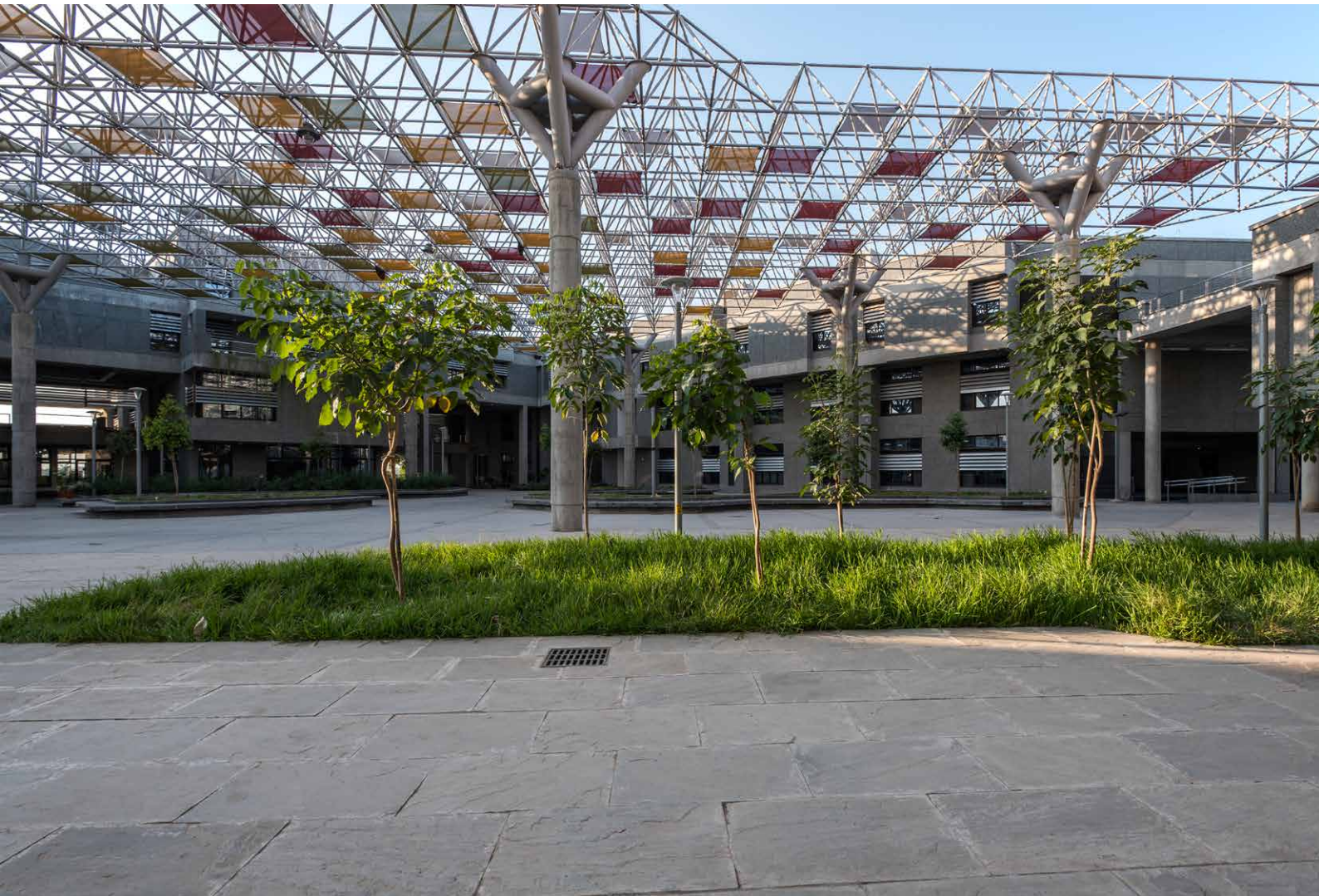
Discipline	Designation	PhD/ Last Degree	Specialization
Abhay Raj Singh Gautam	Assistant Professor	University of Virginia, 2009	Interface structure and dynamics
S P Mehrotra	Visiting Professor	IIT Kanpur, 1973	Mineral processing and process metallurgy
Superb Misra	Assistant Professor (Jointly with Mechanical Engineering)	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
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

* For part of the year

Discipline	Designation	PhD/ Last Degree	Specialization
K Chelva Kumar	Visiting Professor	Caltech, 1985	Healthcare finance and engineering mechanics
H B Hablani*	Visiting Professor	IISc Bangalore, 1972	Navigation, Guidance, and Control of Flight Vehicles
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 at Urbana Champaign, 2013	Wave propagation in one and two-dimensional granular media. Elastic wave scattering at discrete nonlinear interfaces.
Ravi Sastri Ayyagari	Assistant Professor	Illinois Institute of Technology, 2013	Solid mechanics, Constitutive modeling, Computational mechanics, Continuum damage 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
Physics			
Rupak Banerjee	Assistant Professor	University of Calcutta (Saha Institute of Nuclear Physics), 2012	Surface Physics and Material 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 builidng and LHC phenomenology of new states
Shivakumar Jolad	Assistant Professor (Jointly with Social Sciences)	The Pennsylvania State University, 2010	Networks - complex systems., information theory

* For part of the year

Discipline	Designation	PhD/ Last Degree	Specialization
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, interaction of radiation with charged particles traversing a cavity
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
Sandipan Sengupta*	Assistant Professor	IMSc Chennai, 2011	Classical and quantum gravity
Vijay Thiruvenkatam	Assistant Research Professor (Jointly with Biological Engineering)	Jiwaji University, 2009	Small molecules X-ray crystallography
Krishna Kanti Dey	Assistant Professor	IIT, Guwahati, 2011	Active matter, Colloidal dynamics, Nanotechnology



DISTINGUISHED HONORARY PROFESSORS

Name	Affiliation
Prof Surendra Prasad	former Director, IIT Delhi
Prof V S Raju	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

SCHOLARS-IN-RESIDENCE

Name	Affiliation
Dr Lyndsay Baines	Director, Global Military Veteran & Family Studies, Cambridge, United Kingdom
Prof Surya Pratap Vanka	Professor Emeritus of Mechanical Engineering at the University of Illinois at Urbana-Champaign, Champaign, USA
Prof Shungo Kawanishi	Head, Department of Global Communication Education and Department of Advanced Liberal Arts Education, Japan Advanced Institute of Science and Technology, Japan
Mr Atul Singh	Founder, CEO & Editor-in-Chief of Fair Observer, USA
Prof H M Mhaskar	Research Professor, Claremont Graduate University, Claremont, USA
Mr Olivier Lavina	Senior Advisor & Special Assistant to the Vice President – MENA Region
Ms Marjorie Greene	Special Projects Manager, Earthquake Engineering Research Institute, USA
Prof Frederick L Coolidge	Professor, University of Colorado, 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 Bordia	Professor and Chair of the Department, Materials Science and Engineering, Clemson University, USA
Prof Bijoy Boruah	Professor, Humanities and Social Sciences, Indian Institute of Technology Delhi
Prof R P Chhabra	Professor, Department of Chemical Engineering, Indian Institute of Technology Kanpur

Name	Affiliation
Prof Michel Danino	Independent Scholar of Indian Civilization & Padma Shri Awardee, 2016
Dr Pravinray Gandhi	Director Corporate Research, Underwriters Laboratories Inc, USA
Prof Ramesh Gaonkar	Guest Professor, Electrical Engineering, IITGN
Prof Dipan Ghosh	Professor (retd), Department of Physics, IIT Bombay
Prof Bipin Indurkhya	Professor, International Institute of Information Technology Hyderabad
Mr Rajen Jaswa	CEO & Chairman, Dyyno
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 Lilavati Krishnan	Professor (retd), HSS Department, IIT Kanpur
Prof Achal Mehra	Editor, Little India Group, USA
Prof Ashok Mittal	MHRD IPR Chair Professor, Indian Institute of Technology Kanpur
Prof S L Narayanamurthy	formerly Dean, Academic Affairs, IITGN
Prof Sandeep Pandey	Social activist, Lucknow and co-founder, Asha for Education
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	Dean of Academic Affairs and External Relations, IIIT Delhi
Prof Shiladitya Sengupta	Assistant Professor, Harvard Medical School Brigham & Women's Hospital, USA
Prof Shyam Sunder	James L Frank Professor of Accounting, Economics, and Finance, Yale School of Management, USA
Prof Mahesh Tandon	Managing Director, Tandon Consultants Pvt Ltd, New Delhi
Prof Koshy Tharakan	Associate Professor, Department of Philosophy, Goa University
Dr Harry Yuklea	Research Professor, Technion, Israel

NON-TEACHING STAFF AGAINST REGULAR POSITIONS

Name	Designation
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
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
Supin Gopi	Junior Technical Superintendent
Memo Gupta	Junior Account Officer
Tej Bahadur Gurung	Junior Assistant
Laxmi P Hirani	Junior Lab Assistant
Yogesh Dattatraya Jade	Junior Superintendent
Meena Joshi	Assistant Registrar
Jithesh V K	Junior Superintendent
Navdiwala Ankur Kanchanlal	Junior Laboratory Assistant
Dharmeshkumar V Kapadiya	Junior Laboratory Attendant
Hani M Khamar	Junior Assistant
Ram Nivas Kumavat	Executive Engineer
T S Kumbar	Librarian
Pijush Majumdar	Assistant Registrar
Prashant G Makwana	Junior Assistant
Saumya Malavia	Junior Assistant
Jay Mehta	Junior Accountant
Shreejit B Menon	Junior Superintendent

Name	Designation
Laxmi Kant Mishra	Assistant Engineer
Dharmendrakumar S Panchal	Junior Engineer
Sanjeev Kumar Pandey	Junior Account Officer
Pragnesh D Parekh	Junior Technical Superintendent
Dinesh H Parmar	Physical Training Instructor
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
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
Komal Sangtani	Junior Assistant
Sujit Kumar Shah	Junior Assistant
Viral Y Shah	Junior Superintendent
Jigar Shah	Junior Account Officer
Mukesh Sharma	Staff Nurse
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
Una Sujit	Junior Superintendent
Sachin S Tawde	Junior Technical Superintendent
Prabhuji Thakor	Junior Laboratory Attendant
Supresh Thaleshari	Junior Laboratory Attendant

NON-TEACHING STAFF AGAINST REGULAR POSITIONS

Name	Designation
Sunny Thomas	Junior Laboratory Assistant
Dipen Mahendrabhai Vaghani	Junior Assistant
Rajendra Vaishnav	Junior Account Officer
Piyushbhai P Vankar	Junior Assistant
Nand Lal Vishwakarma	Junior Superintendent
Rahul Wadhwani	Junior Accountant
Tanha Modi*	Junior Assistant
Hiren P Vadhavana*	Junior Laboratory Assistant
Ashwin R K*	Junior Technical Superintendent
Chandrajith K C*	Junior Superintendent
Y K Chauhan*	Assistant Engineer (Civil)

*For part of the year

PHD SCHOLARS

Name of the Student	Discipline	Supervisor/Programme Advisor
Guru Krishnakumar Viswanathan	Biological Engineering	Prof Sharad Gupta
Pallavi Chilka	Biological Engineering	Prof Bhaskar Datta
Krittika Ralhan	Biological Engineering	Prof Sharad Gupta
Poonam Pandey	Biological Engineering	Prof Sairam Swaroop Mallajosyula
Rashmi Bhakuni	Biological Engineering	Prof Sivapriya Kirubakaran
Abhijeet Ojha	Biological Engineering	Prof Prachi Thareja
Bhoir Siddhant Pandurang	Biological Engineering	Prof Sivapriya Kirubakaran
Sanjay Kumar	Biological Engineering	Prof Bhaskar Datta
Gayathri P	Biological Engineering	Prof Vijay Thiruvenkatam
Indumathi S	Biological Engineering	Prof Sameer V Dalvi
Nalini N	Biological Engineering	Prof Vijay Thiruvenkatam
Sanghavi Hiral Manojkumar	Biological Engineering	Prof Sharmishtha Majumdar
Vivek Digamberrao Farkade	Biological Engineering	Prof Sharad Gupta
Patel Manthan Maheshbhai	Biological Engineering	Prof Umashankar Singh
Behel Vichitra Vinodkkumar	Biological Engineering	Prof Sivapriya Kirubakaran
Patel Divyeshkumar Amrutbhai	Biological Engineering	Prof Umashankar Singh
Gadhvi Joshna Dharmendrabhai	Biological Engineering	Prof Sharad Gupta
Nishaben Patel	Biological Engineering	Prof Virupakshi Soppina
Vasudha Sharma	Biological Engineering	Prof Sharmishtha Majumdar
Swaroop Chakraborty	Biological Engineering	Prof Superb Misra
Chaithra Mayya	Biological Engineering	Prof Virupakshi Soppina
Pravin Hivare	Biological Engineering	Prof Sharad Gupta
Tarushyam Mukherjee	Biological Engineering	Prof Sriram Kanvah Gundimeda
Nakshi Nayan Desai	Biological Engineering	Prof Sharad Gupta
Awaneesh Kumar Upadhyay	Chemical Engineering	Prof Sameer V Dalvi
Shital Arunbhai Amin	Chemical Engineering	Prof Nitin Padhiyar
Sanat Chandra Maiti	Chemical Engineering	Prof Chinmay Ghoroi
D Jaya Prasana Kumar	Chemical Engineering	Prof Pratyush Dayal
Gunda Harini	Chemical Engineering	Prof Kabeer Jasuja
Vighnesh Prasad	Chemical Engineering	Prof Prachi Thareja
Saroj Kumar Das	Chemical Engineering	Prof Kabeer Jasuja
Kulkarni Siddharth Vijay	Chemical Engineering	Prof Prachi Thareja
Asha Liza James	Chemical Engineering	Prof Kabeer Jasuja
Komal Upendra Pandey	Chemical Engineering	Prof Sameer V Dalvi
Sophia Varghese	Chemical Engineering	Prof Chinmay Ghoroi
Rajput Vandana	Chemical Engineering	Prof Pratyush Dayal
Deepa Dixit	Chemical Engineering	Prof Chinmay Ghoroi
Rupanjali Gurprasad Prasad	Chemical Engineering	Prof Sameer V Dalvi

Name of the Student	Discipline	Supervisor/Programme Advisor
Saket Kumar	Chemical Engineering	Prof Prachi Thareja
Patil Parag Shankar	Chemical Engineering	Prof Rajagopalan Srinivasan
Neetu Varun	Chemical Engineering	Prof Chinmay Ghoroi
Nemani Kameswari Mani Priyanka	Chemical Engineering	Prof Nitin Padhiyar
Nidhi Anand	Chemical Engineering	Prof Pratyush Dayal
Marapu Reddy Sai Geetha	Chemical Engineering	Prof Prachi Thareja
S R Apoorva	Chemical Engineering	Prof Sameer V Dalvi
Anita Dnyanba Zade	Chemical Engineering	Prof Sameer V Dalvi
Jaivik Kartik Mankad	Chemical Engineering	Prof Sameer V Dalvi
Patel Narendra Madhavlal	Chemical Engineering	Prof Sameer V Dalvi
Vikram Ashok Karde	Chemical Engineering	Prof Chinmay Ghoroi
Katla Jagadish Kumar	Chemistry	Prof Sriram Kanvah Gundimeda
Naresh Balsukuri	Chemistry	Prof Iti Gupta
Prathap Reddy P	Chemistry	Prof Bhaskar Datta
Praseetha E K	Chemistry	Prof Iti Gupta
Shaik Althaf	Chemistry	Prof Sivapriya Kirubakaran
Bhanu Pratap Singh Gangwar	Chemistry	Prof Sudhanshu Sharma
Deekshi Angira	Chemistry	Prof Vijay Thiruvenkatam
Anuj Bisht	Chemistry	Prof Sudhanshu Sharma
Anuji K V	Chemistry	Prof Sriram Kanvah Gundimeda
Amarjyoti Das Mahapatra	Chemistry	Prof Bhaskar Datta
Palash Jana	Chemistry	Prof Sriram Kanvah Gundimeda
Lata Rani	Chemistry	Prof Sairam Swaroop Mallajosyula
Anju Tyagi	Chemistry	Prof Abhijit Mishra
Shikha Khandelwal	Chemistry	Prof Arnab Dutta
Kutwal Mahesh Shantaram	Chemistry	Prof Chandrakumar Appayee
Divya Vyas	Chemistry	Prof Sudhanshu Sharma
Javeena	Chemistry	Prof Sivapriya Kirubakaran
Sarkale Abhijeet Madhukar	Chemistry	Prof Chandrakumar Appayee
Vijayalakshmi Pandey	Chemistry	Prof Iti Gupta
Beena Kumari	Chemistry	Prof Sriram Kanvah Gundimeda
Neha Manav	Chemistry	Prof Iti Gupta
Srimadhavi R	Chemistry	Prof Sivapriya Kirubakaran
Varsha Thambi	Chemistry	Prof Saumya Kanti Khatua
Afsar Ali	Chemistry	Prof Arnab Dutta
Venkata Mani Padmaja Duppalapudi	Chemistry	Prof Chandrakumar Appayee
Vidyasagar Maurya	Chemistry	Prof Chandrakumar Appayee
Ab Qayoom Mir	Chemistry	Prof Bhaskar Datta
Ashish Kar	Chemistry	Prof Bhaskar Datta

Name of the Student	Discipline	Supervisor/Programme Advisor
Ravi Shankar Mishra	Chemistry	Prof Bhaskar Datta
Hadianawala Murtuza Shabbirali	Chemistry	Prof Bhaskar Datta
Pandya Saloni Prashant	Civil Engineering	Prof Ajanta Sachan
Gopala Krishna Rodda	Civil Engineering	Prof Dhiman Basu
Debayan Bhattacharya	Civil Engineering	Prof Amit Prashant
Patnayakuni Ravi Prakash	Civil Engineering	Prof Gaurav Srivastava
Bhatt Abhigna Sandipkumar	Civil Engineering	Prof Gaurav Srivastava
Rajkumari Kaurav	Civil Engineering	Prof Pranab Mohapatra
Haider Ali	Civil Engineering	Prof Vimal Mishra
Shah Harsh Lovekumar	Civil Engineering	Prof Vimal Mishra
Nasar Ahmad Khan	Civil Engineering	Prof Gaurav Srivastava
Prajakta Ramesh Jadhav	Civil Engineering	Prof Amit Prashant
Seethalakshmi P	Civil Engineering	Prof Ajanta Sachan
Prabhat Kumar	Civil Engineering	Prof Pranab Mohapatra
Nakrani Dharmit Ashwin	Civil Engineering	Prof Gaurav Srivastava
Majid Hussain	Civil Engineering	Prof Ajanta Sachan
Amar Deep Tiwari	Civil Engineering	Prof Vimal Mishra
Pavan Kumar Chamling	Civil Engineering	Prof Amit Prashant
Saran Aadhar	Civil Engineering	Prof Vimal Mishra
Kaling Taki	Civil Engineering	Prof Ajanta Sachan
Rahul Kumar	Civil Engineering	Prof Vimal Mishra
Shashank Shekhar	Civil Engineering	Prof Manish Kumar
Saboo Anirudh Satishkumar	Civil Engineering	Prof Dhiman Basu
Abhishek Kumar Pandey	Civil Engineering	Prof Pranab Mohapatra
Naman Pranlal Kantesaria	Civil Engineering	Prof Ajanta Sachan
Atul Kumar	Civil Engineering	Prof Ajanta Sachan
Reepal Dinesh Shah	Civil Engineering	Prof Vimal Mishra
Mehta Krishnesh Shantilal	Cognitive Science	Prof Jaison A Manjaly
Tony Thomas	Cognitive Science	Prof Meera M Sunny
Goldy Yadav	Cognitive Science	Prof Pratik Mutha
Nithin George	Cognitive Science	Prof Meera M Sunny
Veli Milind Mehta	Cognitive Science	Prof Jaison A Manjaly
Abhishek Sahai	Cognitive Science	Prof Jaison A Manjaly
Shruti Goyal	Cognitive Science	Prof Krishna Prasad Miyapuram
Pradeep Raj K B	Cognitive Science	Prof Uttama Lahiri
Jagini Kishore Kumar	Cognitive Science	Prof Meera M Sunny
Anvita Gopal	Cognitive Science	Prof Krishna Prasad Miyapuram
Vishav Jyoti	Cognitive Science	Prof Meera M Sunny
Haby Koshy Mathew	Cognitive Science	Prof Meera M Sunny
Murali Krishna Enduri	Computer Science and Engg	Prof Bireswar Das

Name of the Student	Discipline	Supervisor/Programme Advisor
I Vinod Kumar Reddy	Computer Science and Engg	Prof Bireswar Das
Choudhari Jayesh Tulsidas	Computer Science and Engg	Prof Anirban Dasgupta
Sudhakar Kumawat	Computer Science and Engg	Prof Souradyuti Paul
Ananya Shrivastava	Computer Science and Engg	Prof Souradyuti Paul
Indra Deep Mastan	Computer Science and Engg	Prof Souradyuti Paul
Supratim Shit	Computer Science and Engg	Prof Anirban Dasgupta
Chhaya Rachit Chandravadan	Computer Science and Engg	Prof Anirban Dasgupta
Suyash Kandele	Computer Science and Engg	Prof Souradyuti Paul
Shiv Dutt Sharma	Computer Science and Engg	Prof Bireswar Das
Sujata Sinha	Computer Science and Engg	Prof Krishna Prasad Miyapuram
Rahul Kumar Kaushal	Earth Sciences	Prof Vikrant Jain
Ramendra Sahoo	Earth Sciences	Prof Vikrant Jain
Sonam	Earth Sciences	Prof Vikrant Jain
Ravi Kant Prasad	Earth Sciences	Prof Vikrant Jain
Akarsh A	Earth Sciences	Prof Vikrant Jain
Shantamoy Guha	Earth Sciences	Prof Vikrant Jain
Richa Marwaha	Earth Sciences	Prof Vikrant Jain
Pritha Chakravarti	Earth Sciences	Prof Vikrant Jain
Anukesh K A	Earth Sciences	Prof Vikrant Jain
Pardeep Kumar	Electrical Engineering	Prof Nihar Ranjan Mohapatra
Apoorva Ojha	Electrical Engineering	Prof Nihar Ranjan Mohapatra
V Naveen Deepak	Electrical Engineering	Prof Ragavan K
Naveen Kumar Endla	Electrical Engineering	Prof Ragavan K
Dhaval Shashikantbhai Solanki	Electrical Engineering	Prof Uttama Lahiri
Bhoir Mandar Suresh Smita	Electrical Engineering	Prof Nihar Ranjan Mohapatra
Ganeriwala Mohit Dineshkumar	Electrical Engineering	Prof Nihar Ranjan Mohapatra
Batchu Raja Sekhar	Electrical Engineering	Prof Naran M Pindoriya
Deepesh Kumar	Electrical Engineering	Prof Uttama Lahiri
Manju Bhashini V	Electrical Engineering	Prof Ragavan K
Bhavsar Punitkumar Kanubhai	Electrical Engineering	Prof Babji Srinivasan
Sneha Nitin Ved	Electrical Engineering	Prof Joycee M Mekie
Vinal Patel	Electrical Engineering	Prof Nithin V George
Rishabh Abhinav	Electrical Engineering	Prof Naran M Pindoriya
Zarin A S	Electrical Engineering	Prof Arup Lal Chakraborty
Patel Nikita Bharatbhai	Electrical Engineering	Prof Babji Srinivasan
Madhu K	Electrical Engineering	Prof Uttama Lahiri
Laya Das	Electrical Engineering	Prof Babji Srinivasan
Kadam Sujay Dilip	Electrical Engineering	Prof Harish Palanthandalam Madapusi
Rajendra Nagar	Electrical Engineering	Prof Shanmuganathan Raman
Gupta Vikas Rajkumar	Electrical Engineering	Prof Shanmuganathan Raman

Name of the Student	Discipline	Supervisor/Programme Advisor
Satyajit Mohapatra	Electrical Engineering	Prof Nihar Ranjan Mohapatra
Anirban Roy	Electrical Engineering	Prof Arup Lal Chakraborty
Patel Deptiben Navinchandra	Electrical Engineering	Prof Shanmuganathan Raman
Balaganesh B	Electrical Engineering	Prof Ragavan K
Dwaipayan Ray	Electrical Engineering	Prof Nithin V George
Vinay Verma	Electrical Engineering	Prof Nitin Khanna
Adyasha Dash	Electrical Engineering	Prof Uttama Lahiri
Neelam Surana	Electrical Engineering	Prof Joycee M Mekie
Piue Ghosh	Electrical Engineering	Prof Arup Lal Chakraborty
Bala Sai Kiran Patnam	Electrical Engineering	Prof Naran M Pindoriya
Sharad Joshi	Electrical Engineering	Prof Nitin Khanna
Chandan Kumar Jha	Electrical Engineering	Prof Arup Lal Chakraborty
Chandan Kumar Jha	Electrical Engineering	Prof Joycee M Mekie
Sankha Subhra Bhattacharjee	Electrical Engineering	Prof Nithin V George
Parth Upadhyay	Electrical Engineering	Prof Ragavan K
Pramod Bharti	Electrical Engineering	Prof Nihar Ranjan Mohapatra
Hardik Shyam Vyas	Electrical Engineering	Prof Nihar Ranjan Mohapatra
Abhishek Upadhyay	Electrical Engineering	Prof Arup Lal Chakraborty
Kalpeshkumar Arvindbhai Joshi	Electrical Engineering	Prof Naran M Pindoriya
Selvia Kuriakose	Electrical Engineering	Prof Uttama Lahiri
Gagan Kanojia	Electrical Engineering	Prof Shanmuganathan Raman
Vijay Ramkaran Tripathi	Humanities and Social Sciences	Prof Amit Prashant
Manisha Chawla	Humanities and Social Sciences	Prof Krishna Prasad Miyapuram
Nagireddy Neelakanteswar Reddy	Humanities and Social Sciences	Prof Jaison A Manjaly
Divita Singh	Humanities and Social Sciences	Prof Meera M Sunny
Annie Rachel Royson	Humanities and Social Sciences	Prof Arnapurna Rath
Dyotana Banerjee	Humanities and Social Sciences	Prof Mona Mehta
Ankita Rameshkumar Shah	Humanities and Social Sciences	Prof Malavika A Subramanyam
Anusmita Devi	Humanities and Social Sciences	Prof Tannistha Samanta
Vasudeva Naidu K	Humanities and Social Sciences	Prof Srinivas G Reddy
Krupa Shah	Humanities and Social Sciences	Prof Rita Kothari
Ingole Prashant Ramprasad	Humanities and Social Sciences	Prof Mona Mehta
Jahnu Bharadwaj	Humanities and Social Sciences	Prof Madhumita Sengupta
Gundi Mukta Madhav	Humanities and Social Sciences	Prof Malavika A Subramanyam
Aparna Nampoothiri	Humanities and Social Sciences	Dr Angus McBlane
Jerene George	Humanities and Social Sciences	Prof Jaison A Manjaly
Shivani Sharma	Humanities and Social Sciences	Prof Arnapurna Rath
Susanna G	Humanities and Social Sciences	Prof Jaison A Manjaly
Ankita Nair	Humanities and Social Sciences	Prof Srinivas G Reddy
Srinjoy Ghosh	Humanities and Social Sciences	Prof Jaison A Manjaly

Name of the Student	Discipline	Supervisor/Programme Advisor
Jagriti Gangopadhyay	Humanities and Social Sciences	Prof Tannistha Samanta
Ankita Arora	Materials Science and Engg	Prof Abhijit Mishra
Pankaj	Materials Science and Engg	Prof Amit Arora
Tvarit Ashokbhai Patel	Materials Science and Engg	Prof Emila Panda
Singh Chetan Chandan	Materials Science and Engg	Prof Emila Panda
Krishna Manwani	Materials Science and Engg	Prof Emila Panda
Mahesh V P	Materials Science and Engg	Prof Amit Arora
Narendra Bandaru	Materials Science and Engg	Prof Emila Panda
Sheetal Rameshchandra Pandya	Materials Science and Engg	Prof Amit Arora
Sasmita Majhi	Materials Science and Engg	Prof Abhijit Mishra
Amit Kumar Singh	Materials Science and Engg	Prof Abhijit Mishra
Poonam Ratrey	Materials Science and Engg	Prof Abhijit Mishra
Archini Paruthi	Materials Science and Engg	Prof Superb Misra
Pallawi Gupta	Materials Science and Engg	Prof Superb Misra
Nilabh Dish	Materials Science and Engg	Prof Abhay Raj Singh Gautam
Garikapati Nagasarvari	Materials Science and Engg	Prof Emila Panda
Ranjit Kumar Dehury	Materials Science and Engg	Prof Abhijit Mishra
Ram Baran Verma	Mathematics	Prof Jagmohan Tyagi
Gaurav Dwivedi	Mathematics	Prof Jagmohan Tyagi
Ranjana Mehta	Mathematics	Prof Indranath Sengupta
Shivam Dhama	Mathematics	Prof Chetan Pahlajani
Dharmendra Kumar	Mathematics	Prof Jagmohan Tyagi
Madhu Gupta	Mathematics	Prof Jagmohan Tyagi
Rahul Kumar	Mathematics	Prof Atul Abhay Dixit
Rishi Kumar	Mathematics	Prof Sanjaykumar Amrutiya
Sakshi Gupta	Mathematics	Prof Surjeet Kour
Ayush Jaiswal	Mathematics	Prof Indranath Sengupta
Rajat Gupta	Mathematics	Prof Indranath Sengupta
Rameshkumar M Bhoraniya	Mechanical Engineering	Prof Vinod Narayanan
Renika Baruah	Mechanical Engineering	Prof Atul Bhargav
Yogesh Shantaram Fulpagare	Mechanical Engineering	Prof Atul Bhargav
Shah Vrutangkumar Vinodkumar	Mechanical Engineering	Prof Harish P M
Ravi Kant	Mechanical Engineering	Prof Vinod Narayanan
Ankita Sinha	Mechanical Engineering	Prof Atul Bhargav
Zeeshan Ahmed	Mechanical Engineering	Prof Atul Bhargav
Sarode Ajinkya Ashok	Mechanical Engineering	Prof Atul Bhargav
Vivek Kumar Singh	Mechanical Engineering	Prof Atul Bhargav
Ranjita Dash	Mechanical Engineering	Prof Harish P M
Rishabh Mathur	Mechanical Engineering	Prof Atul Bhargav
Adarsh Kumar	Mechanical Engineering	Prof Pratik Mutha
Arup Deka	Mechanical Engineering	Prof Vinod Narayanan

Name of the Student	Discipline	Supervisor/Programme Advisor
Soumen Roy	Physics	Prof Anand Sengupta
Amit Reza	Physics	Prof Anand Sengupta
Mohammad Yousuf Jamal	Physics	Prof Vinod Chandra
Chakresh Singh	Physics	Prof Shivakumar Jolad
Akash Kumar Mishra	Physics	Prof Sudipta Sarkar
Fairoos C	Physics	Prof Sudipta Sarkar
Richa Tripathi	Physics	Prof Shivakumar Jolad
Abinash Swain	Physics	Prof Baradhwaj Coleppa
Utsav	Physics	Prof Rupak Banerjee
Agnivo Sarkar	Physics	Prof Baradhwaj Coleppa
Manu Kurian	Physics	Prof Vinod Chandra
Toral Gupta	Physics	Prof Barun Majumder
Ashish Shukla	Physics	Prof Anand Sengupta

PHD SCHOLARS UNDER IITGN-PRL MoU

Name of the Student	Discipline
Harsh Raj	Earth Sciences
Oza Harsh Jagdip	Earth Sciences
Naman Deep Singh	Earth Sciences
Arun Kumar Pandey	Physics
Tanmoy Mondal	Physics
Kuldeep Suthar	Physics
Manu George	Physics
Alok Ranjan Tiwary	Physics
Girish Kumar	Physics
Newton Nath	Physics
Deepak Kumar Karan	Physics
Pankaj Bhalla	Physics
Navpreet Kaur	Physics
Rukmani Bai	Physics
Kumar Venkataramani	Physics
Pandey Kuldeep Rambabu	Physics
Chandan Hati	Physics
Aman Abhishek	Physics
Pradeep Kumar	Physics
Chauhan Bhavesh Jaikumar	Physics
Bharti	Physics
Vishnudath K N	Physics
Nijil Lal C K	Physics
Soumik Bandyopadhyay	Physics

Name of the Student	Discipline
Aarthy E	Physics
Archita Rai	Physics
Shivangi Gupta	Physics
Nidhi Tripathi	Physics
Shefali Uttam	Physics
Richa Arya	Physics
Akansha Bhardwaj	Physics
Subir Mandal	Physics
Varun Sharma	Physics
Balbeer Singh	Physics
Ashish	Physics
Arvind Kumar Mishra	Physics
Ranadeep Sarkar	Physics
Kaustav Chakraborty	Physics
Prashant Kumar	Physics
Sandeep Rout	Physics
Surendra Vikram Singh	Physics
Deepika Sahoo	Physics
Nisha Bharti	Physics
Harish	Physics
Sushree Sangeeta Nayak	Physics
Ayan Biswas	Physics
Avik Paul	Physics
Priyank Parashari	Physics

MTECH STUDENTS

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
Subhamoy Datta	Biological Engineering	Prof Umashankar Singh
Sitesh Kumar	Biological Engineering	Prof Pratik Mutha
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
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
Proteek Chaudhuri	Chemical Engineering	Prof Babji Srinivasan
Abhijith T K	Civil Engineering	Prof Ajanta Sachan
Akshay Nandurkar	Civil Engineering	Prof Gaurav Srivastava
Anupama B	Civil Engineering	Prof Manish Kumar
Anushree Jalwal	Civil Engineering	Prof Manish Kumar
Ashutosh Sonpal	Civil Engineering	Prof Manish Kumar
Bala Harsha Srusti	Civil Engineering	Prof Amit Prashant
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
Harsh Janakkumar Shah	Civil Engineering	Prof Gaurav Srivastava
Sujit Vasant Matale	Civil Engineering	Prof Manish Kumar
Shivangi Singh	Earth Science System	Prof Vikrant Jain
Tanya Shukla	Earth Science System	Prof Vikrant Jain

Name of the Student	Discipline	Supervisor/Programme Advisor
Ajinkya Bhagwat	Electrical Engineering	Prof Ravi Hegde
Amit Joshi	Electrical Engineering	Prof Babji Srinivasan
Ashutosh Jindal	Electrical Engineering	Prof Ragavan
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 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
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

Name of the Student	Discipline	Supervisor/Programme Advisor
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
Vipul Anand	Materials Science and Engineering	Prof Amit Arora
Vivek Chaitanya Peddiraju	Materials Science and Engineering	Prof Abhijit Mishra
Rana Pratap Singh	Materials Science and Engineering	Prof Sudhanshu Sharma
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
Rutvikkumar Patel	Mechanical Engineering	Prof Vinod Narayanan
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
Bhawna Panjwani	Chemical Engineering	Prof Prachi Thareja
Dhuri Sagar Suresh	Chemical Engineering	Prof Sameer Dalvi
Garima Patel	Chemical Engineering	Prof Nitin Padhiyar
Jaideep Pal	Chemical Engineering	Prof Babji Srinivasan
Mandale Snehal Dharmik	Chemical Engineering	Prof Pratyush Dayal
Anubha Agrawal	Chemical Engineering	Prof Pratyush Dayal
Amjeth Basheer	Civil Engineering	Prof Amit Prashant
Botlapati Sri Sahith	Civil Engineering	Prof Ashwini Kumar
Kanika Gupta	Civil Engineering	Prof Ajanta Sachan
Kaustubh Deshpande	Civil Engineering	Prof Manish Kumar
Kolli Mohan Krishna	Civil Engineering	Prof Amit Prashant
Lambhate Harshal Sandesh	Civil Engineering	Prof Gaurav Srivastava

Name of the Student	Discipline	Supervisor/Programme Advisor
Pariveeksha Joshi	Civil Engineering	Prof Pranab Mohapatra
Rajdeep Ghosh	Civil Engineering	Prof Manish Kumar
Rimpy Khokhar	Civil Engineering	Prof Ajanta Sachan
Shubham Soni	Civil Engineering	Prof Amit Prashant
Prakash Gautam	Civil Engineering	Prof Vimal Mishra
Vora Aditya Narendrabhai	Electrical Engineering	Prof Shanmuganathan Raman
Anurag Soni	Electrical Engineering	Prof Ravi Hegde
Ashish Soni	Electrical Engineering	Prof Nihar Mohapatra
Deshpande Ameya Dilip	Electrical Engineering	Prof Shanmuganathan Raman
Hemant Kumar Verma	Electrical Engineering	Prof Nitin Khanna
K Shravan Kumar	Electrical Engineering	Prof Nithin V George
Kushwaha Amarkumar Ayodhyasingh	Electrical Engineering	Prof Ragavan K
Luxmi	Electrical Engineering	Prof Babji Srinivasan
Neetesh Kumar Sharma	Electrical Engineering	Prof Arup Lal Chakraborty
Neha Kumari	Electrical Engineering	Prof Joycee Mekie
Shah Hemal Gautamkumar	Electrical Engineering	Prof Joycee Mekie
Sompura Jay Nileshbhai	Electrical Engineering	Prof Babji Srinivasan
Patel Valay Paresh	Electrical Engineering	Prof Uttama Lahiri
Gupta Akash Nandlal	Electrical Engineering	Prof Nithin V George
Prateek Goyal	Materials Science and Engineering	Prof Superb Misra
Rakesh Behera	Materials Science and Engineering	Prof Abhay Raj Gautam
Akhil Patnaik	Mechanical Engineering	Prof Pratyush Dayal
Amalnath M	Mechanical Engineering	Prof Pranab Mohapatra
Aniket Mazumder	Mechanical Engineering	Prof Vineet Vashista
Baishali Panda	Mechanical Engineering	Prof Harish P M
Chimane Pratik Tulsiram	Mechanical Engineering	Prof Vinod Narayanan
Davinder	Mechanical Engineering	Prof Jyoti Mukhopadhyay
Kamal Tewari	Mechanical Engineering	Prof Vinod Narayanan
Korat Chirag Mukeshbhai	Mechanical Engineering	Prof Vinod Narayanan
Nakka Suryasatyasanjeevi	Mechanical Engineering	Prof Vineet Vashista
Nikhil Joshi	Mechanical Engineering	Prof Dilip Srinivas Sundaram
Nishant Kumar	Mechanical Engineering	Prof Amit Arora
Pinjari Nehakausar Shaikh Ramjan	Mechanical Engineering	Prof Atul Bhargav
Joshi Pragati Pradip	Mechanical Engineering	Prof Harish P M
Ronit Dey	Mechanical Engineering	Prof Jyoti Mukhopadhyay & Prof Amit Arora
Sahil Bharti	Mechanical Engineering	Prof N Ramakrishnan
Sidhartha Rath	Mechanical Engineering	Prof Vinod Narayanan
Kushare Mayuri Madhukar	Mechanical Engineering	Prof Atul Bhargav

Name of the Student	Discipline	Supervisor/Programme Advisor
Anurag Chandnani	Mechanical Engineering	Prof N Ramakrishnan
Ritam Chatterjee	Mechanical Engineering	Prof Jyoti Mukhopadhyay

2014 BATCH

Name of the Student	Discipline	Supervisor/Programme Advisor
Reshma Arable	Chemical Engineering	Prof Babji Srinivasan
Sunnda	Civil Engineering	Prof Amit Prashant
Rojan Mathew	Civil Engineering	Prof Dhiman Basu
Asim Bashir	Civil Engineering	Prof Dhiman Basu
Harshit Nema	Civil Engineering	Prof Dhiman Basu
Vikalp Kamal	Civil Engineering	Prof Amit Prashant
Adarsh M	Electrical Engineering	Prof Joycee Mekie
Niladri Naskar	Materials Science and Engineering	Prof Amit Arora
Brijesh Kumar	Mechanical Engineering	Prof Atul Bhargav
Behere Siddhartha Ravindra	Mechanical Engineering	Prof Pranab Mohapatra

2013 BATCH

Name of the Student	Discipline	Supervisor/Programme Advisor
Divyaprakash	Mechanical Engineering	Prof Pranab Mohapatra

MSc STUDENTS

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
Parul Duhan	Chemistry
Pranay Baro	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

2015 BATCH

Name of the Student	Discipline
Vamakshi Yadav	Chemistry
Jyotirban Dey	Chemistry
Ayushi Tyagi	Chemistry
Vivek Nagayach	Chemistry
Sachin	Chemistry
Jyotsna Saini	Chemistry
Vani Verma	Chemistry
Mohammad Hassan	Chemistry
Kotha Srinu	Chemistry
Himanshu Kumar Singh	Chemistry
Umesh Kumar	Chemistry
Mridupavan Sonowal	Chemistry
Bharatesh Rayappa Shiraguppi	Cognitive Science
Kulkarni Pranjali Shrikant	Cognitive Science
Lakshmi Vinod Pillai	Cognitive Science
Manasi Wali	Cognitive Science
Narmadha N	Cognitive Science
Pastakia Taronish Astad	Cognitive Science
Richard Shallam	Cognitive Science
Sandhya Singh	Cognitive Science

Name of the Student	Discipline
Sohhom Bandyopadhyay	Cognitive Science
Archit Vilas Sunat	Cognitive Science
S Grace Tinnunnem Haokip	Cognitive Science
Parekh Sonali Abhay	Mathematics
Sanjeet	Mathematics
Prathu Bajpai	Mathematics
Ashwani Tripathi	Mathematics
Tripti Gupta	Mathematics
Hrishabh Tiwari	Mathematics
Priyanka Rana	Mathematics
Charu Gupta	Mathematics
Raj Kumar Dadrawal	Mathematics
Vikash Patel	Mathematics
Abhishek Kumar	Mathematics
Babita	Mathematics
Balu Ram	Mathematics
Parveen Kumar	Mathematics
Rahul	Mathematics
Sudhansu Sekhar Ray	Mathematics
Khushi Ram Meena	Mathematics
Shalini Dungdung	Mathematics
Soumodeep Mitra	Physics
Shastri Rahulkumar Kishorbhai	Physics
Shyam Kumar	Physics
Harvinder Singh	Physics
Anirban Mandal	Physics
Leema Saikia	Physics

2014 BATCH

Name of the Student	Discipline
Thakker Dhruval Rasikbhai	Cognitive Science
Bharat Lal Meena	Mathematics
Shyam Prakash	Mathematics
Salman Suhail	Physics

MA IN SOCIETY & CULTURE

2016 BATCH

Name of the Student
Aastha Soni
Aditya S
Aishwarya Joshi
Ambarish Singh
Arundhathy B
Debapriya Ray
Nitya Pawar
Pawan Sharma
Poonam Meena
Prerna Subramanian
Riddhi Garg
Rituparna Rana
S Paragnee
Swara Joshi
Neha Tetali
Verma Piyusha Ramashanker

2015 BATCH

Name of the Student
Khobragade Prateek Pawankumar
Mujeebu Rahman K C
Ragini Nath
Rohit Revi A V
Shinde Aashaka Amar

PGDIIT STUDENTS

2016 BATCH

Name of the Student	Discipline
Nikhil Srivastava	Chemical Engineering
Rupesh Baroniya	Materials Science and Engineering
Gautam Kumar	Materials Science and Engineering

2015 BATCH

Name of the Student	Discipline
Neeraj	Electrical Engineering

BTECH STUDENTS

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
Gupta Sagar Rajeev	Chemical Engineering
Kamle Mayank Shrikant	Chemical Engineering
Khili Khamesra	Chemical Engineering
Lakhan Agrawal	Chemical Engineering
Manjot Singh	Chemical Engineering
Muhammed Sinan R K	Chemical Engineering
Patel Milanbhai	Chemical Engineering
Rahul Shakya	Chemical Engineering
Raman	Chemical Engineering
Rathi Aditya Manish	Chemical Engineering
Ritik Jain	Chemical Engineering
Rohan Gupta	Chemical Engineering
S Deepak Narayanan	Chemical Engineering
Shubham Sankhla	Chemical Engineering
Singh Shivam	Chemical Engineering
Sourabh Saini	Chemical Engineering
Spand Bharat Mehta	Chemical Engineering
Sparsh Jain	Chemical Engineering
Surve Sushrut Sudarshan	Chemical Engineering
Tandale Atharva Madhukar	Chemical Engineering
Varsha Singh	Chemical Engineering
Yash Makwana	Chemical Engineering
Ajay Bhardwaj	Civil Engineering
Akhil Anil Rajput	Civil Engineering
Akshat Bansal	Civil Engineering
Akshay Mittal	Civil Engineering
Amar Baroliya	Civil Engineering
Animesh Rastogi	Civil Engineering
Anubhav Meena	Civil Engineering
Arra Sriya	Civil Engineering
Ayush Garg	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
Kaushal Chhimpa	Civil Engineering
Kishan Khichi	Civil Engineering
Kokkonda Prashanth	Civil Engineering
Krishan Kumar	Civil Engineering
Mayank Kumar	Civil Engineering
Mohit Gadhwal	Civil Engineering
Mudit Jangid	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 Engg
Apoorv Agnihotri	Computer Science and Engg
Ayush Garg	Computer Science and Engg
Bikramjot Singh Dhindsa	Computer Science and Engg
Davinder Singh	Computer Science and Engg
Gajapure Kshitij Dewanand	Computer Science and Engg
Gohil Varun	Computer Science and Engg
Heer Ambavi	Computer Science and Engg
Kukunuri Sai Venkata Ratna Rithwik	Computer Science and Engg
Kunal Verma	Computer Science and Engg
Meet Panchal	Computer Science and Engg
Monika Chouhan	Computer Science and Engg
Mridul Sharma	Computer Science and Engg
Naman Jain	Computer Science and Engg
Nitiksha	Computer Science and Engg
P Jayakrishna Sahit	Computer Science and Engg
Pachpande Soham Kishor	Computer Science and Engg
Parmar Monarch	Computer Science and Engg

Name of the Student	Discipline
Pathlavath Prashanth	Computer Science and Engg
Pranjali Jain	Computer Science and Engg
Pratik Kayal	Computer Science and Engg
Rahul Challa	Computer Science and Engg
Rayan Gaat	Computer Science and Engg
Rendla Aditya	Computer Science and Engg
Rohit Sharma	Computer Science and Engg
Sammed Shantinath Kagi	Computer Science and Engg
Shivansh Choudhary	Computer Science and Engg
Shivji Bhagat	Computer Science and Engg
Shreyas Singh	Computer Science and Engg
Smeet Vora	Computer Science and Engg
Abhinav Narayan Harish	Electrical Engineering
Anshul Shivhare	Electrical Engineering
Atishay Jain	Electrical Engineering
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
Debanuj Nayak	Electrical Engineering
Deshpande Ajit Umesh	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
S Vinu Sankar	Electrical Engineering

Name of the Student	Discipline
Sai Praneeth Maddi	Electrical Engineering
Shubham Ashok Kalgunde	Electrical Engineering
Sumit Walia	Electrical Engineering
Suraj Kumar Meena	Electrical Engineering
Vasu Bhalothia	Electrical Engineering
Himanshu Rai	Electrical Engineering
Amit Kumar Singh Yadav	Materials Science & Engg
Anjali Kumari	Materials Science & Engg
Anushikha	Materials Science & Engg
Ayan Rakshit	Materials Science & Engg
Bidyan Basumatary	Materials Science & Engg
Bukya Vinay	Materials Science & Engg
C R Greeshma	Materials Science & Engg
Dhrmendra Sablaniya	Materials Science & Engg
Dineshraj D	Materials Science & Engg
Dutta Ritik	Materials Science & Engg
Godina Ganga Hrishikesh	Materials Science & Engg
Ingle Varad Jitendrakumar	Materials Science & Engg
Jitesh Mittal	Materials Science & Engg
Joshi Kavan	Materials Science & Engg
Karthik Subramanya Karvaje	Materials Science & Engg
Kunwar Shivam Pratap	Materials Science & Engg
Pankaj Kumar Saini	Materials Science & Engg
Pragati Gupta	Materials Science & Engg
Rahul Rajeev	Materials Science & Engg
Rampratap Kumar	Materials Science & Engg
Ratul Chakraborty	Materials Science & Engg
Shreyas Sreeram	Materials Science & Engg
Siddharth Krishnan	Materials Science & Engg
Sriram Sriharsha	Materials Science & Engg
Tanisha Aggrawal	Materials Science & Engg
Utkarsh Balodi	Materials Science & Engg
V V S Akhil	Materials Science & Engg
Vikas Dudi	Materials Science & Engg
Neha Meena	Materials Science & Engg
Shubham Gond	Materials Science & Engg
Adithya R	Mechanical Engineering
Akhilesh Ravi	Mechanical Engineering

Name of the Student	Discipline
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
Girish Chandar G	Mechanical Engineering
Kadam Omkar Devidas	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
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
Sakhalikar Pushpakraj Shyamappa	Mechanical Engineering
Shubhranshu Singh	Mechanical Engineering
Suyash Patidar	Mechanical Engineering
Tare Aditya Dayanand	Mechanical Engineering
Ukey Vishal Hemraj	Mechanical Engineering
Vedant Rajendra Gote	Mechanical Engineering
Yogesh Meena	Mechanical Engineering
Upendra Kumar	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

Name of the Student	Discipline
Anusha Kamath M	Chemical Engineering
Avinash Joy Bara	Chemical Engineering
Deepti Gautam	Chemical Engineering
Harsh	Chemical Engineering
Kavish Kumar	Chemical Engineering
Koripalli Rohith	Chemical Engineering
Kunal Singhmar	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

Name of the Student	Discipline
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
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

Name of the Student	Discipline
Swathi S G	Electrical Engineering
Tejas Mehta	Electrical Engineering
Uday Kiran Banoth	Electrical Engineering
Veeramallu Giridhar Sai	Electrical Engineering
Aagam Rajeev Shah	Materials Science & Engg
Abhiroop Mishra	Materials Science & Engg
Akshat Pachauri	Materials Science & Engg
Akshat Sandhaliya	Materials Science & Engg
Aman Kamlesh Singh	Materials Science & Engg
Ayush Gupta	Materials Science & Engg
Gyan Chand Maurya	Materials Science & Engg
Himani Verma	Materials Science & Engg
Jammu Tarun Kumar	Materials Science & Engg
Jayshankar Sharma	Materials Science & Engg
Kuldeep Singh	Materials Science & Engg
Priyang Priyadarshi	Materials Science & Engg
Sujeet Singh Mathur	Materials Science & Engg
Tulasi Narendra Das Tripurana	Materials Science & Engg
Rishabh Verma	Materials Science & Engg
Amit Jangid	Mechanical Engineering
Anilraj Meena	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
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

Name of the Student	Discipline
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
Anupam Swarnkar	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
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
Navdeep Prakash	Chemical Engineering
Abhay Varshney	Civil Engineering
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
Heet Vasudevbhai Patel	Civil Engineering
Homit Singh Pal	Civil Engineering
Kamlesh Choudhary	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
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
Rohit Kumar	Civil Engineering
Kartik Mandlekar	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

Name of the Student	Discipline
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
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
Varun Aggarwal	Electrical Engineering
Vikas Kumar Meena	Electrical Engineering
Yashovardhan	Electrical Engineering
Varade Amit Bhaskar	Electrical Engineering
Aditya Kumar	Materials Science & Engg
Antima Meena	Materials Science & Engg
Bhupendra Kumar	Materials Science & Engg
Deepak Dhariwal	Materials Science & Engg
Dileep Singh	Materials Science & Engg
Dudhat Kunal Hansraj	Materials Science & Engg
Joshi Ankita Abhay	Materials Science & Engg
Jugal Mehta	Materials Science & Engg
Kaustubh Shirish Panse	Materials Science & Engg
M Barath Kanna	Materials Science & Engg
Patel Zainab Shabbar	Materials Science & Engg
Sisara Pratikkumar Dhirubhai	Materials Science & Engg

Name of the Student	Discipline
Sushil Kumar	Materials Science & Engg
Tandale Mohit Mukundraj	Materials Science & Engg
Kotamsetti Ravi Teja	Materials Science & Engg
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
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

Name of the Student	Discipline
Panna Lal Saini	Mechanical Engineering

2013 BATCH

Name of the Student	Discipline
Akshay Kumar Verma	Chemical Engineering
Anurag Singhania	Chemical Engineering
Rushabh Desadla	Chemical Engineering
Devanshu Manoj Jain	Chemical Engineering
Dewansh Rastogi	Chemical Engineering
Harsh Khandelwal	Chemical Engineering
Vaibhav Joshi	Chemical Engineering
Bhavya Kanzariya	Chemical Engineering
Kesani Kalyani	Chemical Engineering
Kushagra Bhargava	Chemical Engineering
Lakh Chand	Chemical Engineering
Jainidhi Maurya	Chemical Engineering
Nisha Rawat	Chemical Engineering
Patel Kishankumar Kaushikbhai	Chemical Engineering
Prince Kumar Verma	Chemical Engineering
Priyanka	Chemical Engineering
Purushottam Kumar	Chemical Engineering
Rajat Kumar Gupta	Chemical Engineering
Ramniwas	Chemical Engineering
Sahilkumar Tabiyad	Chemical Engineering
Sargam Jain	Chemical Engineering
Sourabh Soni	Chemical Engineering
Suman Kumari	Chemical Engineering
Aashish Kose	Civil Engineering
Abhishek Anand	Civil Engineering
Ajmeera Venkanna	Civil Engineering
Anurag Goyal	Civil Engineering
Pushpak K. Baviskar	Civil Engineering
Bulabai Sreedhar Gopi Krishna	Civil Engineering
Dharmendra Kumar	Civil Engineering
Hemant Kumar	Civil Engineering
Manu Chaudhary	Civil Engineering
Mayank Jain	Civil Engineering
Mayank Khewaria	Civil Engineering
Mohammad Faisal Seh	Civil Engineering
Narendra Sarswat	Civil Engineering

Name of the Student	Discipline
Nikhil Sharma	Civil Engineering
Osker	Civil Engineering
Pomraj Prajapat	Civil Engineering
Praveen Pandey	Civil Engineering
Prerna Singh	Civil Engineering
Punit Kumar	Civil Engineering
Rahul Kumar	Civil Engineering
Ram Pranav Agasthya Purhit Chavaly	Civil Engineering
Rishabh Jain	Civil Engineering
Roshan Agarwal	Civil Engineering
Sachin Kumar	Civil Engineering
Sai Kiran	Civil Engineering
Sakkari Akash Goud	Civil Engineering
Shailendra Kumar	Civil Engineering
Shaleen Chhajer	Civil Engineering
Srinivasan A	Civil Engineering
Yogendra Jaiswal	Civil Engineering
Aditya Ganesh	Electrical Engineering
Amit Tiwari	Electrical Engineering
Anikesh Satish Kamath	Electrical Engineering
Ankit Pritam Bhange	Electrical Engineering
Aparna Arya	Electrical Engineering
Bhuwan Vyas	Electrical Engineering
Chenchala Sai Ramana Reddy	Electrical Engineering
Aravind Damacharla	Electrical Engineering
Dinendra Pratap Singh Tomar	Electrical Engineering
Doshi Darshil Hiteshbhai	Electrical Engineering
Ekta Umesh Samani	Electrical Engineering
Pratham Goel	Electrical Engineering
Jitendra Kuldeep	Electrical Engineering
Kashyap Patel	Electrical Engineering
Kshitij Singh	Electrical Engineering
Lokesh Singh	Electrical Engineering
Manav Raj	Electrical Engineering
Namana Naga Sindhu	Electrical Engineering
Niharika	Electrical Engineering
Nikhil Tank	Electrical Engineering
Pabbathi Akhil Kumar	Electrical Engineering
Kapil Pathak	Electrical Engineering

Name of the Student	Discipline
Patil Shubham Hanumant	Electrical Engineering
Puja Kumari	Electrical Engineering
Rajendra Singh	Electrical Engineering
Rishab Anand	Electrical Engineering
Rushi Jariwala	Electrical Engineering
Sakshi Yadav	Electrical Engineering
Aditya Shah	Electrical Engineering
Shashank Mehra	Electrical Engineering
Siyaram Meena	Electrical Engineering
Sumit Kumar Meena	Electrical Engineering
Vipin Prajapati	Electrical Engineering
Vootla Krishna Sai	Electrical Engineering
Aatman C. Vora	Electrical Engineering
Vyas Samir	Electrical Engineering
Amber Kothari	Mechanical Engineering
Amit Yadav	Mechanical Engineering
Ankit Agarwal	Mechanical Engineering
Ankit Mittal	Mechanical Engineering
Anurag Agrawal	Mechanical Engineering
Bhagat Rajan Balister	Mechanical Engineering
Bhosale Surajkumar Dhananjay	Mechanical Engineering
David Noel Biradala	Mechanical Engineering
Bubna Rakesh Rishi	Mechanical Engineering
Bhargav B. Chauhan	Mechanical Engineering
Darshil Chauhan	Mechanical Engineering
Guguloth Srinivas	Mechanical Engineering
Harsh Chandra	Mechanical Engineering
Jitendra Gehlot	Mechanical Engineering
Ojas Yashwant Joshi	Mechanical Engineering
Kanak Sharma	Mechanical Engineering
Manjeet Chaudhary	Mechanical Engineering
Mundru Hemanth Surya Madhav	Mechanical Engineering
Nishanth	Mechanical Engineering
Pawan	Mechanical Engineering
Prathyusha Challa	Mechanical Engineering
Ramtekkar Shashank Manohar	Mechanical Engineering
Abhishek Raut	Mechanical Engineering
Rohit Nanavati	Mechanical Engineering
Sarabjeet Singh	Mechanical Engineering
Shah Jugal Saurin	Mechanical Engineering
Sharad Kumar Tiwari	Mechanical Engineering
Shubham Patle	Mechanical Engineering
Somireddy Udaykumarreddy	Mechanical Engineering
Sumit Kumar	Mechanical Engineering
Suryakumar Mane	Mechanical Engineering
Tanay Kankane	Mechanical Engineering
Teki.Vinay	Mechanical Engineering
Thakor Nilaysinh Bharatsinh	Mechanical Engineering
Vaibhav Gupta	Mechanical Engineering
Venu Agarwal	Mechanical Engineering

2012 BATCH

Name of the Student	Discipline
Ashray Adappa	Chemical Engineering
Kanak Kumar Nayak	Chemical Engineering
Mukesh Kumar	Chemical Engineering
Pradeep Diwakar	Chemical Engineering
Suman Kumar Singh	Chemical Engineering
Vikram Alriya	Electrical Engineering
Nikhil Samariya	Electrical Engineering
Shashank Gautam	Electrical Engineering
Devendra Meena	Mechanical Engineering
Kunal Devedwal	Mechanical Engineering
Mane Prasannajeet Pradip	Mechanical Engineering

2011 BATCH

Name of the Student	Discipline
Parag Pradeepkumar Ramteke	Chemical Engineering
Banoth Surya Kiran	Chemical Engineering
Lokeshwar Naik.K	Electrical Engineering


Jal Mandap
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.
जल मंडप
जल मंडप, छत के वर्षा जल को संचयन और भंडारण करने के लिए बनाये गए भूमिगत टैंक हैं। गुजरात के बाव (कुँआ) से प्रेरित होकर, जल संचयन संरचना की वास्तुकला को एक सार्वजनिक स्थान का रुप दिया गया है जहाँ पर बैठकर हरे-भरे दृश्यों का आनंद लिया जा सकता है।

INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR
PALAJ, GANDHINAGAR 382355