



2018 2019 | **ANNUAL REPORT**

**INDIAN
INSTITUTE OF
TECHNOLOGY
GANDHINAGAR**



2018 | ANNUAL 2019 | REPORT

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TECHNOLOGY
GANDHINAGAR**



VISION MISSION AND VALUES

CORE FEATURES

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

PRINCIPLES

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

VALUES

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

MISSION

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

GOALS

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

VISION

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

CONTENTS

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From the Directors Desk	6
Academics	9
Research & Faculty Activities	35
Infrastructure and Facilities	69
Student Affairs	83
Staff Activities	99
Outreach Activities	100
External Relations	105
Support for the Institute	107
Organisation	119

FROM **THE DIRECTOR'S** DESK



IIT Gandhinagar completed a decade in 2018, which it marked by holding several Decennial-themed events, including lectures by distinguished speakers, seminars, and a series of programmes reflecting on our journey so far. I am pleased to share several highlights from another eventful year for the Institute.

On the academic front, IITGN introduced a major pedagogical shift to “learning-by-doing” philosophy across its curriculum and programmes. It hosted an intensive seven-week programme on inventing, Invent@IITGN, in the summer of 2018. Originated in the U.S. as “Invention Factory,” the event was organized in India for the first time at IITGN. 20 students selected from IITs across the country, including IIT Kharagpur, IIT Madras, IIT Guwahati, IIT Jammu and IIT Gandhinagar, developed solutions for real-life problems and all teams eventually filed provisional patents for their inventions.

IITGN is establishing a Maker Bhavan, a multidimensional makerspace on campus to foster experiential learning, design thinking, creativity and innovation among students across all disciplines, with generous support from Dr Hemant Kanakia. It aims to provide the necessary tools, resources, facilities, people, and equipment for both curricular and extracurricular activities.

IITGN also scaled up its non-degree programme, which reflect its inclusive character. This programme enables students from other academic institutions to spend a semester at IIT Gandhinagar studying side-by-side with our students and learning from our faculty. The same spirit

of openness and inclusivity is embodied in our widely recognized “Summer Research Internship Program,” which attracted more than 19,000 applicants for 150 spots to work on research projects with our faculty.

The Institute continues to expand its R&D infrastructure, adding major equipment, including the Ion Trap Mass Spectrometer, Multipurpose High Resolution-X-ray Diffractometer, Single Crystal X-ray Diffractometer, Maldi TOF Spectrometer, Cona Calorimeter and the state-of-the-art Transmission Electron Microscope. The Indian Navy entered into a Memorandum of Understanding with IIT Gandhinagar to promote academic cooperation and enhance scientific understanding of technologies related to defense. The Institute also entered into an agreement with NASSCOM, which is establishing its Centre for Internet of Things in the IITGN Research Park.

The Institute launched the Dr Kiran C Patel Centre for Sustainable Development on January 30, 2019, the seventh interdisciplinary centre at the Institute, with support from Dr Kiran C Patel, a Tampa based cardiologist. The Centre aims to become the principal resource for sustainable development in India and will advance local and global solutions through cutting-edge interdisciplinary research on water, pollution, waste management, energy, natural resources, and climate change. In addition, IITGN established the Kanchan & Harilal Doshi Chair in water and sanitation and the Maulana Abul Kalam Azad Chair in Urdu in memory of Maulana Azad, India's first Minister of Education.

IITGN's existing interdisciplinary centres are garnering national recognition. The Archaeological Survey of India has tasked the Archaeological Sciences Centre to conduct a Multi-Sensor Drone Survey of Dholavira. The Biomedical Engineering Centre is pursuing cutting-edge research on Diagnostic/Therapeutic Tools and Techniques, Automated Rehabilitation and Prosthetic Techniques and Public Health Techniques. The Centre for Safety Engineering is working on promoting a culture of safety in society with a major focus on Fire Research in the Built Environment. The Cognitive and Brain Sciences Centre hosted the second edition of CogniTalks, which provided a glimpse into the world of applications of cognitive science research in allied disciplines, such as education, architecture, and design. The Center for Creative Learning coordinated Vigyan Jyoti programmes for children and girls to encourage and motivate them to develop interest in Science, Technology, Engineering, and Math (STEM) subjects and increase the participation of women in STEM fields by making focused interventions during early years of their education.

IIT Gandhinagar continues to advance on several fronts, including the development of its award-winning campus, recruitment of outstanding faculty, building a professional culture and value system, and developing innovative academic curricula. The next decade will be a period of consolidation of many of our signature programmes. While retaining our spirit of innovation and experimentation that we are now known for, we are also striving to establish robust systems that will strengthen and enhance our unique initiatives in research, infrastructure, pedagogy, governance, globalization, fundraising, inclusiveness, and outreach. As the Institute scales up significantly in the coming years, we are hard at work on the next phase of our journey.

Prof Sudhir K Jain
Director





ACADEMICS

PROGRAMMES OFFERED

BTECH

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

MTECH / PGDIIT

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

MSC

Chemistry | Cognitive Science | Mathematics | Physics

MA

Society and Culture

PHD

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

Apart from the above mentioned programmes, a Dual Major BTech Programme, a BTech-MTech Dual Degree and a BTech-MSc dual degree are also offered

DUAL MAJOR BTECH PROGRAMME

A student can graduate with degrees in two disciplines by spending an extra year

BTech-MTech Dual Degree

which enables a student to graduate with both BTech and MTech degrees in five years

Non Degree Programme

A student who is registered for a degree in a recognised institute or university in India or abroad, and who is officially sponsored by that institute or university to complete part of his/her academic requirements at IITGN, can apply for admission to IITGN as a non degree student





MAJOR DEVELOPMENTS



VISIT OF UNION MINISTER DR SATYAPAL SINGH

Dr Satya Pal Singh, Union Minister of State, Ministry of Human Resource Development; and Ministry of Water Resources, River Development, and Ganga Rejuvenation, visited the Institute on June 6, 2018 and interacted with the faculty. Dr Singh appreciated the outreach efforts of IIT Gandhinagar and encouraged research that addresses societal challenges.

YES BANK AWARD

Adding yet another feather to its cap, IITGN has bagged the YES Bank Natural Capital Award (NCA) 2018 under the Eco Campus category. Educational institutes from all over the country competed for the award and were adjudged based on the strength of their sustainability practices deployed for campus development and management.

5-STAR GRIHA LD RATING TO IIT GANDHINAGAR

The IIT Gandhinagar campus became the first campus in the country to obtain a 5-star rating from Green Rating for Integrated Habitat Assessment for Large Developments (GRIHA LD) for implementation of Phase 1A constructions. The institute improved further its earlier 5-star rating score of 25.9% for the master plan to obtain 20.36% score for implementation. This is a unique Indian National Rating System for green buildings to rate the overall impact of large developments on their surrounding environment. As per the GRIHA LD rating criteria, score of 35% or less qualifies for a 5-star rating, indicating less damage to the environment and higher sustainability of the project.



DR KIRAN C PATEL CENTRE FOR SUSTAINABLE DEVELOPMENT

IITGN launched Dr Kiran C Patel Centre for Sustainable Development on January 30, 2019. The Centre aims to become the principal resource centre for sustainable development in India and has been set up with a generous endowment from **Dr Kiran C Patel**, a distinguished cardiologist, entrepreneur and philanthropist based in Tampa, Florida, USA. The Centre will advance local and global solutions through cutting-edge interdisciplinary research on water, pollution, waste management, energy, natural resources, and climate change. It will develop a national and global network of leading experts and researchers on sustainability. The Centre will also promote cost-effective and sustainable solutions through its strong outreach and technology-transfer programmes. **Dr Kiran Patel** and his wife **Dr Pallavi Patel** have contributed nearly \$300 million to various philanthropic causes in USA and India.

SIGNIFICANT ACTIVITIES



INVENT@IITGN

IIT Gandhinagar organized **Invent@ IITGN** from June 18 - July 27, 2018, an intensive seven-week program in inventing. Originated in the US as 'Invention Factory', the program was organised in India for the first time at IITGN. The selected 20 students from IITs across the country including IIT Kharagpur, IIT Madras, IIT Guwahati, IIT Jammu and IIT Gandhinagar, received direct guidance from Cooper Union Professors **Alan Wolf** and **Eric Lima**, who are the founders of the original program in the US, and IIT Gandhinagar **Prof Vineet Vashista** and **Prof Nithin George** on how to invent and develop their ideas into practice. The students developed solutions for real-life problems with inventions such as a car underrun protection system, navigation system for visually impaired, fire prevention device due to electric overload, load carrier for labourers and so on. **Yash Sharma** and **Farazul Haque** from IIT Kharagpur won the prize of **Best Invention** for their apparatus and method for localized irrigation, weed control and localized pesticide delivery. **Kratika Bhagtani** and **Karthik Subramanya Karvaje** of IIT Gandhinagar bagged the prize of **Second Best Invention** for their portable CPR device. **Anshuman Dhar** and **Agrata Patel** from IIT Guwahati won **Third Best Invention** prize for sleep injury prevention device. Each of the ten teams have now filed for provisional US patents.



OVERSEAS INDIAN HIGHER EDUCATION CONCLAVE

IITGN hosted a two-day **Overseas Indian Higher Education Conclave** on Feb 22-23, 2019, to collaborate and brainstorm with professional Non-Resident Indians (NRIs), Persons of Indian Origin (PIOs) and global professionals, on ways to engage more widely and deeply with overseas Indians to advance India's global educational stature. Eminent personalities from different industries, institutes and

organisations were part of the council including **Dr Jamshed Bharucha**, vice-chancellor, SRM University, Amaravati, Andhra Pradesh, **Mr Samir Desai**, founder and CFO, The Desai Foundation, USA, **Dr Hemant Kanakia**, co-founder and Chief Executive Officer, Gemplex internet, Inc, USA, **Prof Chelvakumar**, president, EPIR Technologies, USA, **Mr Avi Nash**, president, Indira Foundation, USA, **Mr K H Patel**, former Indian high commissioner to Uganda and ambassador to Rwanda and Burundi, **Mr Naresh C Samtani**, president, NCS GeoResources, LLC, Arizona, USA, **Mr Jyotindra Shukla**, director of Risk Management (retired), Alstom, USA, **Mr Rutesh Shah**, CEO, Infostretch Corporation, Ahmedabad, and **Prof Dinesh O Shah**, professor emeritus, Department of Chemical Engineering, University of Florida, USA. The conclave was coordinated by **Prof Achal Mehra**.



8TH ACADEMIC ADVISORY COUNCIL

The eighth **Academic Advisory Council** meeting was organised on Dec 28, 2018 to discuss issues of academic priority to IITGN. The council comprised of eminent academicians from India and abroad as well as faculty members of IITGN. The council members deliberated and provided strategic inputs on several issues, including the possibility of lateral entry into the BTech program, ways to support students who are academically lagging, faculty recruitment, and curriculum review.

9TH LEADERSHIP CONCLAVE

The ninth **Leadership Conclave** of the institute, held on Dec 29, 2018, saw some of the most illustrious industrialists, academicians and eminent thinkers from India and overseas coming together to strategize and design leadership ideas for IITGN. The day-long conclave had thought-provoking discussions and brainstorming sessions on the vision and mission of IITGN, assimilation of IITGN values among the internal stakeholders, systems and policies for long term stability and continuity, and branding and image building for the institute.

INSA ANNIVERSARY GENERAL MEETING AT IITGN

IITGN co-hosted the 84th Anniversary General Meeting (AGM) of the Indian National Science Academy (INSA), on Dec 27, 2018. About 200 participants, which included INSA Fellows, eminent scientists and engineers, special invitees, young scientists, and awardees, attended the AGM at IITGN. The director, **Prof Sudhir K Jain**, gave a welcome speech and acquainted the delegates with the path-breaking initiatives and developments at IITGN.



DECENNIAL CELEBRATION

In 2008, IIT Gandhinagar embarked upon its journey with a vision to become a preferred destination for future generations of students, faculty and staff. This year marks the completion of 10 years of this stupendous journey to build an institution which is recognized as a leader in educational innovation. To reflect on this journey made so far and to carve out a path for the future, the institute kick-started its decennial celebrations with an inaugural event on Aug 10, 2018 where faculty, alumni, students, partners, past employees, and staff recounted and shared their special attachment and experiences with the institute. Shri Pankaj Patel, Chairman, Cadila Healthcare Ltd was the chief guest on the occasion. On this occasion some of the contributors and partners of IITGN from past 10 years journey were felicitated.

The Institute had envisioned to have a year full of new activities and reflections on the actions in the last 10 years. There have been several activities in the recent past with the spirit of decennial including the following:

- The logo of decennial at IITGN has been designed and being used in communications. Design and color schemes of stationery are being worked out
- Website updates for Research and Development, Academics and Faculty Affairs. Webpages of the disciplines, centres and major facilities are also being updated
- IITGN souvenirs have been designed (mugs, t-shirts, cap, etc) and are being sold now at some of the shops on campus. More are being designed for increase variety of options
- Sabarmati Young Researchers seminar series has been launched
- Homecoming event for Alumni was organised in December 2018
- Discipline Advisory Committee meetings of electrical engineering, physics and bio-engineering were held
- Introduction of two faculty chair positions: Kanchan and Harilal Doshi Chair and Maulana Abul Kalam Azad Chair in Urdu
- Inauguration of Dr Kiran C Patel Centre for Sustainable Development
- Bada Khana on Jan 26, 2019 for the campus community with construction workers
- The first decennial lecture by Shri K Ananth Krishnan, Chief Technical Officer, Tata Consultancy Services (TCS). More such lectures by eminent personalities are being worked out and will follow soon
- Registrar's Conclave was conducted at the Institute on Feb 15-16, 2019
- Overseas Indian Higher Education Conclave was organised on Feb 22-23, 2019
- The first faculty meetings for Reflections was scheduled on Feb 26, 2019 to discuss Student Affairs
- An international conference on "Changing Landscape of Science and Technology Libraries" was organised on Feb 28 – Mar 2, 2019
- An All-IIT Librarians Meeting was organised on Mar 3, 2019
- A major international conference in association with "International Association for Computer Methods and Advances in Geomechanics (IACMAG)" was organised on Mar 4-8, 2019 with focus on Earthquake engineering, Ground improvement and Constitutive modelling
- A book project recording the early journey of IIT Gandhinagar is underway and a person to steer this project has been engaged
- Discussions on art on campus have progressed and we are currently in discussions with the director of Kanoria Centre for Arts to help develop an art policy for the campus



7TH CONVOCATION CEREMONY

IIT Gandhinagar hosted its 7th convocation on July 28, 2018 with 328 students graduating

this year. A total of 112 BTech, 2 BTech MTech Dual Degree, 96 MTech, 78 MSc, 14 MA, 2 PGDIIT and 24 PhD students were awarded degrees. In addition, 47 graduating students were awarded medals and awards, including 21 gold medals, 10 silver medals, and 16 bronze medals for excellence in various categories. **Ms Anu Aga**, director, Board of Thermax Limited and chairperson, Teach for India, graced the occasion as the chief guest. She encouraged the students

to get in touch with their extraordinary selves and to not settle for mediocrity. The director, **Prof Sudhir Jain**, talked about the institute's journey from 2008 to reaching a major landmark - completing 10 years. He proposed to undertake exercises in retrospection and plan for the years ahead. **Aketi Sai Aparna** was awarded the President's Gold Medal for BTech, **Subhanshu Gupta** was awarded the President's Gold Medal for MTech, and **Prerna Subramanian** received the President's Gold Medal for MSc and MA. The Director's Gold Medal for BTech went to **Ayushman Tripathi**, the Director's Gold Medal for MTech went to **Rana Pratap Singh**, and the Director's Gold Medal for MSc and MA was awarded to **Prerna Subramanian**.

SUMMER RESEARCH INTERNSHIP PROGRAM (SRIP)

The SRIP program offers opportunities to engineering students from across the country as well as from foreign universities to carry out research under the mentorship of IITGN faculty. This year, the flagship Summer Research Internship Program began on May 01, 2018. A total of 129 students from across the country, including 41 students from IITGN participated in the eight-week programme. More than 46 faculty members of the institute guided the participating students in about 65 research projects.

JEE OPEN HOUSE

Like every year, IITGN organised a JEE (Joint Entrance Examination) Open House on June 17, 2018 for students who have qualified in JEE Advanced. The program was conducted to provide guidance to the students and their parents to help them choose among different engineering branches in IITs. Students got a deeper insight about various opportunities and possibilities at IITGN. There were sessions by the deans of IITGN and interaction with faculty and students. A campus tour was also organised during the event for the participants.

EXPLORER FELLOWSHIP OPEN HOUSE

IIT Gandhinagar Explorer Fellowship is a unique annual summer program which aims to introduce students to different aspects of life and to increase their societal connection by enabling them to travel for six weeks across the length and breadth of the country on a very limited budget. A total of 96 students undertook the Explorer Fellowship this summer in 32 different teams with themes such as food, education, sports, schooling, architecture, agriculture

and so on. Students shared their journey experiences and learnings through short video documentaries on Sep 8, 2018.

FOUNDATION PROGRAM

IITGN is known for its pioneering five-week Foundation Program for the holistic development of the new batch of BTech students. This year the program was conducted between July 23 - Aug 26, 2018. It included sessions on sketching, photography for design, music, origami, communicating with comics, sports, heritage walk, theatre activities, street cleaning and tree-planting. There were also organised talks on various topics such as leadership, gender sensitivity, ethics and values. The last week of the program witnessed the Intramural Ceremony. The program ended with Eureka, a cultural evening organised by freshers. The program was coordinated by **Prof Madhu Vadali**, **Prof Leslee Lazar**, **Prof Uddipta Ghosh**, **Prof Mithun Radhakrishna** and **Mrs Poonam Mutha**.

IITGN-JAIST WORKSHOP ON DESIGN INTERVENTION FOR BEHAVIOURAL CHANGE

IITGN hosted a three-day workshop on Design Intervention for Behavioural Change for the students of Japan Advanced Institute of Science and Technology (JAIST), and IIT Gandhinagar during Dec 12-14, 2018. The workshop was aimed at finding local solutions for universal problems such as - mass transportation, pollution, traffic, and gender discrimination which involve multiple stakeholders. The workshop was coordinated by **Prof Leslee Lazar** and **Mr Franklin Kristi**.



INDIA KI KHOJ

India ki Khoj, a unique cultural immersion program of IITGN, kick-started on Dec 17, 2018 with ten students from California Institute of Technology (Caltech), ten students from Japan Advanced Institute of Science and Technology (JAIST), and nineteen students from IITGN. With its seventh edition this year, the students got to know India and its social, cultural, political fabric through a number of activities designed to explore and appreciate the many ideas, imaginations and realities that constitute India. The event was coordinated by **Prof Mona Mehta** and **Prof Jaison Manjaly**.

‘FLY’ PROGRAM ORIENTATION AND TOT

An orientation of “Finding the Leader in You” (FLY) program was organised at IITGN on Jan 12, 2019. About 80 heads of engineering colleges of Gujarat attended the event. A Training of Trainers (ToT) under the FLY program was also held during January 19-20, 2019 to train about 20 future facilitators (master trainers) for engineering students in Gujarat and high school students in Jaipur. **Mr Harsh Bhargava, Dr Aruna Bhargava, Mr Uday Nadkarni, Dr Amrisha Garg** and **Mr Sandeep Sethi** were the key facilitators of the FLY program.

MEETING ON NARADA SHILPA SHASTRA

IITGN organised a special discussion meeting with **Prof R N Iyengar**, Distinguished Professor and the director of the Centre for Ancient History and Culture, Jain University, Bengaluru, on Narada Shilpa Shashtra, an important text of Vastushastra, Civil Engineering, and Architecture, on Jan 16, 2019.

WORKSHOP FOR DYE AND TEXTILE INDUSTRIES

DSIR-IITGN-CRTDH in association with Underwriters Laboratories (UL) arranged a one-day workshop on ‘Reducing Discharge of Hazardous Chemicals in Dye and Textile Industries’ at IITGN on Oct 24, 2018. The event saw participation from the industry partners, environmental and energy specialists, researchers and academics, technology providers, policy makers, and regulators. The event was coordinated by **Prof Chinmay Ghoroi**.

ALL-IIT REGISTRARS’ CONCLAVE

IITGN hosted the All-IIT Registrars’ Conclave on Feb 15-16, 2019. The registrars of 12 IITs from across the country attended the conclave with a view to discuss some key administrative aspects and challenges related to the IITs.

RESEARCH OPPORTUNITIES IN COMPUTER SCIENCE (ROCS)

The Computer Science and Engineering discipline organised a one-day workshop on Research Opportunities in Computer Science followed by a panel discussion on Mar 30, 2019. It featured talks highlighting major research trends in various areas of computer science and engineering. The workshop was organised by **Prof Neeldhara Misra**.



DFI INDIA CONFERENCE

IITGN hosted the eighth Conference on Deep Foundation Technologies for Infrastructure Development in India on Nov 16-17, 2018. The conference was organised at IITGN in

collaboration with Deep Foundations Institute and Indian Geotechnical Society, Ahmedabad Chapter and it was inaugurated by **Dr I P Gautam**, IAS (retd) and managing director, MEGA Company Ltd, Ahmedabad. The conference was chaired by **Prof Amit Prashant** and **Prof Ajanta Sachan**

GRAM FELLOWSHIP

IIT Gandhinagar Gram Fellowship was introduced in the year 2017 with the aim to encourage students to immerse themselves in the experience of village life. During the duration of the fellowship the students are expected to engage with the community to understand their concerns, welfare, values and beyond. The students are expected to spend a minimum of 3 weeks at a village (outside their home state) either during the summer break or the winter break. In the year 2018-19, a total of six students formed three teams participated in the Gram Fellowship.

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAM

The third phase of the Technical Education Quality Improvement Programme (TEQIP) was held at IIT Gandhinagar in two batches between May 28 - June 01 and June 18 - 22, 2018. Each batch had 160 participants including senior faculty members from several engineering colleges. The programme covered vital topics such as active learning, autonomy, governance & management, and research & development to enhance the teaching and learning environment in colleges.

GUJARAT MARITIME BOARD INDUCTION TRAINING

The institute conducted a training program during May 7 - 25, 2018 for the newly recruited engineers of the Gujarat Maritime Board. The program covered a variety of subjects from engineering, communication, leadership development to creativity and so on. A total of 68 participants attended this 3 week residential training program.

WORLD ENVIRONMENT DAY

The IITGN community celebrated the World Environment Day on June 5, 2018 with much fervour. The Green Office of IITGN in association with Hara Pitara - Social 1.0, organised some hands-on workshops and a green market of handpicked eco-friendly products. The drawing competition provided an excellent platform for the kids to showcase their creativity. Through their drawings they gave some beautiful messages about maintaining a sustainable lifestyle.

INTERNATIONAL DAY OF YOGA

IITGN marked the International Day of Yoga on June 21, 2018 with demonstration of various yoga asanas, followed by a lecture-cum-demonstration session on **Yoga: personal experiences and perspectives**. The event created awareness about the importance and benefits of yoga in daily life for complete well-being of the mind and the body.



INAUGURATION OF HOUSING FOR CONSTRUCTION WORKERS

IITGN continues to put in great effort to provide dignified living conditions for construction workers. The next set of

housing units for construction workers was inaugurated by **Mr Prabhakar Singh**, director general of CPWD on Aug 16, 2018. These 202 housing units for the construction workers of the Research Park project are equipped with pukka flooring, water supply, electricity, and clean sanitation facilities.

VIGYAN JYOTI PILOT PROGRAMS

IITGN hosted two Vigyan Jyoti pilot programs for children and girls to encourage and motivate them to develop their interest in science, technology, engineering and math (STEM) subjects and increase the participation of women in STEM fields through focused interventions during early years of education. In one workshop, the Center for Creative Learning (CCL) conducted a week-long workshop during June 18-22, 2018 where for 27 children of classes 6 to 8 from Alirajpur district of Madhya Pradesh learned to make motor generators, levitating pens, JCB machine and so on. In the process, they also discovered the scientific and mathematical principles behind these toys. Another Vigyan Jyoti STEM camp for selected class 11 science girls was hosted from June 18 - July 02, 2018. A total of 32 young meritorious girls

from various government and government-aided schools of Gujarat and Madhya Pradesh explored the science behind many things through these hands-on sessions. The two-week residential camp received very encouraging response from the participating girls.

COGNITALKS

The second edition of CogniTALKS was organised on Nov 16, 2018 by the Centre for Cognitive Science, IITGN, hosted an eclectic group of experts such as **Venkatesh Rajamanickam**, **Sonia Mehra Chawla**, **Neelkanth Chhaya**, and **Bhuvaneshwari S** for a discussion about human cognition. Students and academics from NID, NIFT, IIM, DAIICT and other institutes attended the event.

CENTRES

Archaeological Sciences Centre

Centre for Biomedical Engineering

Centre for Creative Learning

Centre for Cognitive and Brain Sciences

Design And Innovation Centre

*Dr Kiran C Patel Centre for Sustainable
Development*

Centre for Safety Engineering

ARCHAEOLOGICAL SCIENCES CENTRE

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

DHOLAVIRA PROJECT

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

- the ASI conducted trial excavations in February and March at Dholavira to test the ground penetrating radar tests conducted earlier by IITGN's civil engineering faculty and students in collaboration with the Centre. A few stone structures were identified at the predicted spots. A detailed profile of trenches is awaited from ASI after further analysis
- a multidisciplinary project submitted to the Department of Science and Technology (DST) by IITGN's Earth Sciences and Civil Engineering faculty in collaboration with the ASC to investigate the impact of sea-level fluctuations, climate change or tectonic activity on Dholavira was sanctioned and is due to start soon
- The ASI requested the ASC to conduct a multi-sensor drone survey of Dholavira, following which **Prof Vikrant Jain**, **Prof Pradeep Srivastava** and **Prof Michel Danino** made a presentation at the ASI, New Delhi, and later submitted a formal proposal. The first phase of the project was sanctioned by the ASI and funds have been received. Permission from the local Collector is awaited to conduct the actual survey, after which data processing will begin
- **Dr Ruman Banerjee**, a post-doctoral research fellow, completed the first phase of a study of Dholavira's lithic material and is now working on a consolidated report and research papers

INTRAMURAL RESEARCH PROJECTS

Prof Alok Kanungo concluded a project (2016–18) titled Mapping Purdalpur: The final stage of one of the most predominant glass bead industry of the World funded by INTACH.



COLLABORATIONS

WITH IITGN'S FACULTY AND LABS

The ASC's joint project with Earth Sciences on the Morphodynamics of Markanda valley, with **Dr Ajit Singh** as PI, has progressed well and entered its second phase (last fieldwork and initial data analysis). **Prof Shanmuganathan Raman** of Electrical Engineering had submitted a research proposal on Cultural heritage preservation and restoration using digital 3D models to the under IMPRINT funding scheme. The work has potential application to the fingerprinting of antiquities and other archaeological uses. The project has been sanctioned and equipment for its initial phase is being acquired. Close collaborations with colleagues in Materials Science and Engineering has continued.

COLLABORATIVE RESEARCH PROJECTS

Prof Alok Kanungo is collaborating with **Dr Laure Dussubieux** (Field Museum, Chicago), **Dr Thomas Fenn** (University of Oklahoma) and **Dr Shinu Abraham** (Saint Lawrence University) in a project, Reconstruction of manufacturing patterns through elemental and isotopic characterization of raw material, funded for 2017-20 by National Science Foundation, USA. The Centre has extended support to PhD students from Deccan College, Pune (for a microscopic study of microwear of ancient teeth), M S University, Baroda (for an XRF study of glazed ware sherds from Jammu), and Nagaland University (for analysis of archaeometallurgy samples).



EVENTS & VISITS

- The ASC (in collaboration with Materials Science and Engineering) conducted a workshop in July on Elemental analysis with ICP-MS and isotopic analyses with MC-ICP-MS and TIMS. The workshop, attended by 22 MTech and PhD students, among others, was conducted by **Dr Laure Dussubieux** and **Dr Thomas R Fenn**, two experts from the USA, and initiated the audience to the methods used by archaeological scientists to study the provenance of ancient glass and other archaeomaterials
- Mr Navin Doshi**, who along with **Mrs Pratima Doshi** established the Kanchan and Harilal Doshi Chair in Water and Sanitation at IITGN, visited the ASC on Jan 15, 2019 and evinced much interest in the Centre's research projects
- A major conference-cum-workshop on History, science & technology of ancient indian glass was organised by **Dr Alok Kanungo** on Jan 21-25, 2019 to study the development of glass making through the ages. Twenty-one eminent scholars from around the world and 50 selected participants took part. The event included two field visits and demonstrations by three sets of master craftspersons from Varanasi, Khambhat and Kutch
- The Director General of the ASI, **Mrs Usha Sharma**, visited IITGN on Feb 1, 2019, accompanied by **Dr V N Prabhakar**, Director at ASI, and **Mr Anil Tiwari**, Superintending Archaeologist, Vadodara Circle. She had extensive discussions with the director, **Prof Sudhir Jain**, **Prof S P Mehrotra**, **Prof Amit Prashant** and **Prof Michel Danino**, and several faculty from the ASC and disciplines collaborating with the Centre. The DG invited IITGN to offer its technological expertise for archaeological applications. The visit opened up further possibilities of collaboration between IITGN and ASI. It concluded with a visit to the ASC

In this context, some progress was made towards the creation of a Chair for archaeology at IITGN, as funds to the tune of Rs 10 crores were sanctioned in principle by the Government of India through ASI.

ASC FACULTY

The Centre's faculty saw two additions this year with **Dr Sharada CV** joining as Assistant Professor, and **Dr Oishi Roy** joining as a post-doctoral fellow for a research project in archaeometallurgy. **Dr Oishi Roy** received the prestigious H D Sankalia Young Archaeologist Award in February for a paper presented at a conference of archaeology in Patna. **Dr Kristina Franke**, an archaeometallurgist from Germany, had earlier applied for post-doctoral fellowship at the Centre, and is due to visit IITGN shortly for interaction. The Centre's faculty additionally consists of **Prof Michel Danino**, coordinator for the Centre; **Dr Alok Kanungo**, Assistant Research Professor; **Dr Ruman Banerjee**, post-doctoral fellow. **Dr R S Bisht**, former Joint Director General of ASI, and **Dr V N Prabhakar**, Director at ASI, are Guest Professors.

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



CENTRE FOR BIOMEDICAL ENGINEERING

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

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

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

- **Diagnostic/Therapeutic Tools and Techniques:** developing novel methods to detect and treat diseases. The tools and techniques currently being developed

use optical sensors, microbubble engineering, computational design, dye based assays, therapeutic peptides and many others

- **Automated Rehabilitation and Prosthetic Techniques:** robotics and virtual environments to provide newer, more efficient and more intuitive techniques for application by physiotherapists, neurologists and surgeons
- **Public Health Techniques:** developing tools and techniques to prevent disease and promote health in the community

The centre hosted **Prof Dinesh Kant Kumar** under the Visiting Advanced Joint Research Scheme (VAJRA). scheme. **Prof Metin Akay**, Founding Chair, Biomedical Engineering and **Prof Chandra Mohan**, Professor, Biomedical Engineering from the University of Houston visited the campus during December 2018 and interacted with the faculty members who are associated with the centre.

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

CENTRE FOR CREATIVE LEARNING (CCL)

The Centre for Creative Learning came into existence in April 2017, as a space that nurtures a scientific temper and the inherent creativity in students and teachers alike. The idea is to immerse oneself in a subject in order to learn it and to do rather than merely read. The overall aim is to overhaul pedagogy by making the lectures engaging, provide experiential learning, foster creativity and innovation with the sole focus on concepts.

The CCL conducted more than 70 STEM and hands-on learning workshops for over 6,000 teachers and engineering college professors, and interacted with 50,000 students from all across the country. We curated a STEM activity box. It has more than 150 engaging activities and models, designed to enhance problem-solving, creative and critical thinking skills. Institutions like NCERT, CBSE and KVS have recognised our efforts, and are considering us a center of excellence in the space of experiential education. Given that in the near future, hands-on learning will become the most important skill to have, it fills us with immense pride

to be collaborating with 100 odd schools in the coming year and consequently reaching over 5000 teachers and 50,000 students.

The following are the highlights of the year 2018-19:

- 1st prize in STEM conference, Vibrant Gujarat: Union Minister of Education, **Shri Prakash Javadekar**, awarded 1st prize at the Vibrant Gujarat STEM conference for the research paper titled Making and maker spaces: the secret sauce of future-proof learning. As a token of our gratitude, we presented him with a Geodesic ball (designed by us) and crafted at TL's laser lab
- **Summer Research Internship Program for engineering students:** The Summer Research Internship Program (SRIP) in 2018 saw 8 interns from across the country work day and night for 2 months on exciting projects such as the Enigma machine, automatic chess board and spider robo among many others. The students from our lab also won the first prize across 150 summer interns at IIT Gandhinagar. To add to it, the projects floated by us for SRIP 2019 were also very



popular among the students and we received over 1000 applications for three projects

- **Foundation program at 7 IITs:** Close to 2000 students of the incoming class across 7 IITs, were engaged in various activities that allowed them to have fun with concepts of science and math before they began their regular classes
- **Credit courses at Ahmedabad University:** Engineering students were taught two credit courses, Arts, Engineering and Machines, Mechanisms, Automations by members of CCL in December 2018
- **Engaging with AMC Students:** Project spark, a collaboration with Ahmedabad Municipal Corporation to ignite curiosity for math and science among middle-schoolers, has been up and running. The sight of 100 eager kids visiting IITGN every Tuesday and Thursday as part of this initiative is extremely encouraging. Under this program, we also visited seven schools once a week and taught math and science to 7th standard students. These demo classes were also attended by 21 teachers of the AMC
- **KV in-service courses:** For the first time in KVS' history, 150 teachers did their in-service courses of science, math and computer science with an outside agency over a period of 12 days. The unanimous verdict this was the best in-service course they had attended in their entire service
- **Vigyan Jyoti (residential workshops to encourage girls in STEM):** 5-day residential workshops, focussing on hands-on and conceptual science and math were held at IITGN for 50 middle-schoolers from Alirajpur and Ahmedabad. Three such workshops were conducted this year
- **Atal Labs Principals' Workshop:** Principals from 100 schools in Gujarat that are part of the Atal Tinkering

Lab family came to IITGN to visit the CCL. They enjoyed their experience so much that they stayed engaged in the activities for 7 hours at a stretch

- **AICTE workshops for Faculty of Engineering College:** With the assistance of Prof Anil Sahasrabudhe (Chairman, AICTE), the CCL has started a 5-day workshop for engineering college professors from across the country. So far, we have successfully conducted two residential workshops and the feedback from both has been positive
- **Science and Math Films:** 2018 saw the documentation of 50 projects, each with their individual film, thanks to the support of the Bank of India and IIT BHU. These films have been uploaded on the portal of Kendriya Vidyalaya Sangathan (KVS) and are accessible by the students and teachers of all KVS schools of the country.
- **Science Center in Mundgod:** Members of CCL helped the Science for Monks team set up full-fledged science centers at 5 different locations across India using local materials and tools
- **Makers and Communicators program for ITI Students:** We came up with a flagship MACOM (Makers and Communicators) program to equip ITI and polytechnic students with new-age skills, which in turn, will increase their employment opportunities. The coming year will see this program being implemented in Bihar and Gujarat to begin with

The CCL showcased activities and products at various exhibitions Pan India over the last year:

- National Science Math and Environment (Sardar Patel Stadium, Ahmedabad)
- Gyanotsav (IITE, Gandhinagar)
- National Children Science Congress (Shiksha Ó' Anushandan, Bhubaneswar)

- Amalthea (IIT Gandhinagar)
- National Children Science Festival (Bhuj, Gujarat)
- Army Day (New Delhi)

It has been a pleasure to have people like **Mr Rajesh Gopinathan** (CEO, Tata Consultancy Services), **Mr K Ananth Krishnan** (CTO, Tata Consultancy Services) and **Mr R Gopalakrishnan** (ED, Tata Sons) among many others, visiting our lab and appreciating our work

The team consisting of budding engineers from IITs and other premier colleges, talented artists and designers, and a former Silicon Valley chip design scientist, is dedicated towards a multidisciplinary approach to learning and teaching STEM subjects in these rapidly changing times

Mr Manish Jain is the coordinator and **Mr Gaurav Kumar**, **Mr Neeraj Sharma** and **Mr Pankaj Godara** are the co-coordinators of the Centre.

CENTRE FOR COGNITIVE AND BRAIN SCIENCES

The Board of Governors of the institute approved renaming Centre for Cognitive Science as Centre for Cognitive and Brain Sciences on Mar 1, 2019. The Centre aims to foster scholarship in the area of cognitive science through research and development activities, and academic programmes at the Master's and PhD levels. The Centre is now well recognised within the country for being the pioneer among IITs in cognitive science research and teaching programmes, its interdisciplinary character, and excellent student achievement.

Over time, the Centre has expanded its research pursuits, with increasing emphasis on understanding how cognitive processes are realised in the brain. The growing research infrastructure also reflects this transition. The Centre is home to multiple state-of-the-art research facilities including behavioural cubicles, psychophysics & psychophysiological systems, eye tracking, virtual reality platforms, motion capture systems, and a driving simulator completely built in-house. With addition of research facilities for studying brain function, such as high-density 128 channel EEG system, transcranial direct current stimulator, transcranial magnetic stimulation, the Centre is now geared to address research questions that combine neural mechanisms with the study of human cognition.

The innovative MSc and PhD programs that started in 2013 and 2010 respectively, prepares students for a career in cognitive science research or industry. Our alumni have had successful transitions to academic and industry careers after their training such as Wellcome Trust Early Career award, CSRI postdoctoral fellowship, faculty positions at IIT Delhi, Ahmedabad University, Fulbright fellowship, IIT-DAAD Masters fellowship, placements at TCS R&D, Shastri Indo-Canadian fellowship etc.

The Centre hosted the second edition of CogniTalks in Nov 2018, which provided a glimpse into the world of applications of cognitive science research in allied disciplines such as education, architecture, and design. The fourth edition of Design interventions for behavioural change joint workshop between IITGN and JAIST was held in Dec 2018 together with Design and Innovation Centre. The Centre had eminent visitors from Industry such as **Mr Kris Gopalakrishnan**, co-founder, Infosys Ltd and **Mr Vijay Kumar Ivaturi**, co-founder, Crayon data. **Mr Subhash Ghai**, Indian film maker and **Mr Chaitanya Chinchlikar**, from Whistling Woods International have visited the Centre.

Prof Krishna Miyapuram 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 extracurricular projects, such as talks, seminars, symposiums, and workshops.

Last year, a course on Design and Innovation was offered to all second-year undergraduates (approximately 180 students). This project-based learning promoted by the course led to the students proposing as many as thirty innovations. Two projects namely, automated soil-moisturizing system and solar self-cleaning pane, have been selected for presentation at the Designing Sustainability conference organised at Srishti School of Design, Bengaluru, Apr 3-5, 2019. An elective course on Interface Design has also been offered by DIC. This course educates students on the design process tools for ideation and prototyping, and methodology to design interactive experiences.

The DIC in collaboration with **Prof Pranab Mohapatra** and **Prof Vimal Mishra** has received a project funding from UNICEF for designing a child-friendly hand wash system for schools. Final design deliverables have been reached and are being submitted to the clients. Students registered with the DIC regularly to work on variety of problem statements. Last year, **Neha Priolkar** worked on sustainable furniture for IITGN hostel, **Jammu Tarun Kumar** and **Tejas Mehta** worked on product design of fan blade cleaning, **Suyash Patidar** worked on product design of currency note surface sterilization, **Priyang Priyadarshi** worked on exploration of automotive styling exploration, and **S Nagasai** worked on enhancing the experience of ordering food online.

The DIC conducts skills-based workshops every year for the IITGN community. During the last year, workshops on Nature-inspired designs with the laser process, 3D scanning, and Block printing were conducted. The DIC organised an international workshop in collaboration with the Japan Institute of Science and Technology (JAIST). The theme for this year was on Design interventions for behavioral change. A team of eight students and two professors from JAIST visited IITGN during Dec 12-14, 2018.

The DIC also organised Design March 2019, a two-day event, on Mar 16-17, 2019. Four parallel workshops on the topics of game and interaction design, automobile styling, sculpture from metal waste, and packaging design were organised. A total of 75 students registered for the workshop.

During the last year, the DIC hosted many visitors, **Mr Chandradip Rana** from Playpower Lab, **Mr Narayan Subramaniam** from Ultraviolette Automotives, **Mr Priyank Rangparia** from Be Fuse It, **Prof Atsuo Yoshitaka** from JAIST, **Prof Natsuko Higa** from JAIST, **Prof Hidaka Shohei**, JAIST, and **Prof Dhaval Vyas** from QUT, who delivered a talk or organised a workshop.

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



DR KIRAN C PATEL CENTRE FOR SUSTAINABLE DEVELOPMENT

The Dr Kiran C Patel Centre for Sustainable Development at IIT Gandhinagar undertakes cutting-edge research on sustainability and related challenges of high societal importance and promotes cost-effective and sustainable solutions through its strong outreach and technology-transfer programmes. The main objectives of this Centre are:

- identify and conduct interdisciplinary research on sustainability related problems of high societal importance
- develop practical solutions to sustainability challenges by integrating research, traditional knowledge and field understanding, and translate them into prototypes, patents, and publications
- establish an effective technology-transfer programme for sustainability solutions in the field
- implement sustainability solutions on campus and its neighborhood
- develop a strong outreach programme of training, education, awareness and community engagement on sustainable livelihood and development
- promote networking and collaboration among scholars, policy makers, industry, non-profit organisations and other stakeholders on sustainability
- promote educational programmes on sustainability at IITGN

FOCUS AREAS

- Water: desalination, safe drinking water production, water resources, river flow
- Pollution & Waste Management: air, water & soil pollution, waste segregation, treatment and recycling, waste to resource techniques
- Energy: renewable energy, efficiency and energy management
- Climate Change: extreme events, prediction and simulation
- Natural Resources, Wildlife & Ecosystems: biodiversity conservation, ecotourism, traditional ecological knowledge, environmental humanities

PROGRAMS

- Research: research and consultancy on sustainability and promoting national and global collaborations
- Practice: lab-to-field technology transfer and implementation on campus and the neighbourhood
- Education: curriculum development at IITGN and advance education on sustainability nationally and globally
- Outreach: conferences, networking, training programs and workshops for scholars and professionals

EVENTS

- The Kiran C Patel Centre for Sustainable Development, which has been established with a generous endowment from Dr Kiran C Patel, a distinguished cardiologist and philanthropist based in Tampa, Florida, was formally inaugurated on Jan 30, 2019
- The Centre hosted its first annual Sustainability Fair to promote knowledge sharing and academia-industry partnerships on Mar 29, 2019. Various organisations and industries shared and demonstrated their sustainable development practices, activities, experiences, ideas, products and services in the areas of water conservation, water quality, renewable energy, climate change, pollution, waste management, natural resources, wildlife and ecosystems, etc. The

Fair concluded with a networking session to advance project collaborations between the Centre and external partners

- The Centre organised a workshop on Desalination: status, trends in the Indian context on Nov 16, 2018. The workshop examined electrochemical processes, renewable energy based, major trends and challenges, large scale plants and opportunities for hybrids in desalination. It drew participants from BARC, Mumbai; Tamilnadu Water Investment Corporation, Chennai; CSMCRI, Bhavnagar; IIT Delhi and IIT Bombay among others

Prof Achal Mehra is the coordinator and **Prof Jaichander Swaminathan** is the co-coordinator of the Centre.



CENTRE FOR SAFETY ENGINEERING

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

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

Currently, there are two main research projects pertaining to fire safety that are in progress. The first project addresses the fire safety issues of combustible façade systems that are being widely. Two fire tests were conducted in the G+2 test structure at IITGN to study the effects of fire on combustible facades and efficacy of façade sprinkler

systems. The other project focuses on the development of indigenous aerosol based fire extinguisher systems. A prototype has been developed and successfully tested in spaces up to 5 m³ for oil fires. A new research project on Computational modeling of energetic materials subjected to thermal and mechanical insults using the material point method has been initiated with funding from DRDO. This project aims to develop computational simulation tools for modeling of energetic materials. A consulting project with AluDecor – an Indian manufacturer of metal composite panels has been recently taken up to characterize the behavior of fire retardant aluminum composite panels. The 100 kW cone calorimeter, commissioned in the institute last year, is being actively utilised in this project along with its use for fire characterization of typical household items.

A workshop titled Design of structures for earthquake and fire as per NBC 2016 was organised in May 2018 at the Institute, which was attended by about 50 participants.

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

BOOK LAUNCH

CAMPUS ON THE SABARMATI PUBLICATION

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

To date IITGN has published a total of nine booklets in this series. Out of these nine, **Confined Masonry** and **Selection Process for Architectural Consultants** were published in 2015-16 and **Planning the Sustainable Campus**, **Academic Complex** and **Design of Housing for Faculty and Staff** were published in 2017-18. The next four booklets in this series are titled **Landscape and Open Space Design**, **Student Hostels**, **Water and Wastewater Management** and **Wayfinding on Campus - The Process of Signage Development** all of which were published in 2018-19.

The sixth booklet in this series, **Landscape and Open Space Design**, discussed the philosophy and provides details of the landscape design for the open spaces of the entire campus. The landscape design was an essential part of the masterplan, integrating the buildings and features of the campus together and establishing a planned system of open spaces and vegetation that responds to the existing landscape qualities of the site.

The seventh booklet in this series titled **Student Hostels**, describes the architectural design of the Hostel Complex in Phase I of campus development, building from goals and objectives set forth in the Masterplan. The design of the hostels was worked out in a very inclusive way, with the active participation of faculty and students. The hostels were designed to be efficient but thought-provoking spaces that helps form a close community.

The booklet titled **Water and Wastewater Management** showcases the water and wastewater management systems developed for the Institute campus. The systems include drawing water from the Narmada Canal as well as capturing rainwater. All sewage is treated in a natural in an eco-friendly sewage treatment plant that includes a root zone treatment system, and the resulting recycled water is used for irrigation purposes with no sewage exiting the campus and resulting in a zero-discharge campus.

The ninth booklet in the series titled **Wayfinding on Campus**, describes the wayfinding system catering to the variety of users on campus with differing requirements. The signage design was also well deliberated to reflect the aspirations of campus inhabitants and arrived at after multiple iterations and options.

CONFERENCES / WORKSHOPS / SYMPOSIA / SEMINARS

Conferences, workshops, symposia and seminars on focus themes are vital academic activities that help stimulate discussions on different areas of importance. Many of these activities invite participation from other organisations and enhance the institute's visibility to the outside world. The following activities were organised during 2018-19:

CONFERENCES

SYMPOSIUM ON FRONTIER PROBLEMS IN PHYSICS

The Physics discipline hosted a two-day symposium on 'Frontier Problems in Physics' during Nov 20-21, 2018. Distinguished scientists gave lectures on outstanding research areas in theoretical and experimental physics. About 120 participants from various nearby educational institutes, universities, and colleges also participated in the event. The symposium was coordinated by **Prof Sudipta Sarkar**.

20TH NATIONAL SYMPOSIUM ON ENVIRONMENT (NSE-20)

The Earth Sciences discipline in collaboration with the Health Safety & Environment Group, Bhabha Atomic Research Centre (BARC), Mumbai, organised the 20th National Symposium on Environment (NSE-20) during Dec 13-15, 2018. The symposium, with a focal theme of "Challenges in Energy Resource Management & Climate Change", was inaugurated by **Shri S A Bhardwaj**, Chairman, Atomic Energy Regulatory Board and coordinated by **Prof Manish Kumar Singh**.

MECHANICAL ENGINEERING MINI SYMPOSIUM

The Mechanical Engineering discipline organised a mini-symposium on Mar 15, 2019. Three eminent speakers, **Prof Rama Govindarajan**, professor, International Centre for Theoretical Sciences, Bangalore, **Prof P Chandramouli**, professor, IIT Madras, **Dr R R Sonde**, executive vice president, Technology & Innovation, Thermax Ltd, delivered lectures on different topics.

CHANGING LANDSCAPE OF SCIENCE & TECHNOLOGY LIBRARIES (CLSTL)

To understand and navigate successfully through the developments in the higher education sector, particularly in science and technology, and collectively address some of the challenges that libraries are facing, the central library of IITGN organised the 2nd International Conference on Changing Landscape of Science & Technology Libraries from Feb 28 - Mar 02, 2019. The conference saw the presence of eminent speakers and experts from some of the leading institutes of India and abroad. The conference was coordinated by **Dr T S Kumbar**.

IACMAG SYMPOSIUM

IITGN hosted a symposium of the International Association for Computer Methods and Advances in Geomechanics (IACMAG) during Mar 5 -7, 2019. The symposium was focused on three main themes of earthquake engineering, ground improvement, and constitutive modelling and was attended by around 200 participants. The symposium provided a forum for exchanging new experiences and discussing future developments of geomechanics and geotechnical engineering.

Mr Kamlesh Kumar, former Additional Director General and Advisor to the Minister in the Ministry of Road Transport & Highways (MoRTH), delivered the inaugural lecture. The symposium was coordinated by **Prof Amit Prashant** and **Prof Ajanta Sachan**.



WORKSHOPS

- Taleem O Tarbiyat and IIT Gandhinagar in association with TIE Ahmedabad organised a workshop on **Education to Entrepreneurship Programme**, Apr 30, 2018
- The Centre for Creative Learning (CCL) at IITGN organised the first spell of bi-annual in-service workshops with Kendriya Vidyalaya Sangathan (KVS) teachers from across the country for the subjects of Maths, Science, and Computer Science. Two workshops of 12 days each were held between May 29 - June 19, 2018 with emphasis on the importance of hands-on and experiential learning. About 100 Trained Graduate Teachers (TGTs) of classes 8th to 10th and about 55 Post Graduate Teachers (PGTs) of classes 11th and 12th attended the workshops.
- Elemental analysis with ICP-MS and isotopic analyses with MC-ICP-MS and TIMS by **Dr Laure Dussubieux**, Integrative Research Center, Field Museum and **Dr Thomas R Fenn**, Assistant Professor, Department of Anthropology, University of Oklahoma, July 30-31, 2018
- Implementing Successful Library & Information teaching session in Academic Libraries by **Ms Rebecca Raworth**, Island Medical Program & Health Sciences Librarian and **Ms Aditi Gupta**, Engineering and Science Librarian from the University of Victoria Libraries in British Columbia, Canada, and **Dr J K Vijaykumar**, Library Director, King Abdullah University of Science and Technology (KAUST), Saudi Arabia, Aug 18, 2018
- The pragmatics of political discourse in the public sphere by **Prof Jef Verschueren**, **Prof Brook Bolander**, **Prof Jenny Cook-gumperz**, **Prof Rukmini Bhaya Nair**, and **Prof Jan Ola Ostman**, Oct 21-28, 2018
- Spoken Sanskrit workshop by **Ms Ojasi Sukhatankar**, Samskrita Bharati, Oct 25-31, 2018
- NEEV IITGN organised a six-day workshop on **Entrepreneurship Development** from Oct 29 - Nov 3, 2018, for BBA students of Faculty of Business Administration, GLS University. The workshop comprised sessions on idea generation, market research, negotiations, cost analysis and financials, marketing and

promotion, business plan formulation, and many others. The workshop concluded with the final business plan competition and presentation.

- The one-day workshop was organised on Use of ICP-MS to determine the toxic heavy metals in industrial effluents on Oct 31, 2018. Fourteen industry partners participated in the workshop along with few researchers from IITGN. The workshop was mainly on the basic principle of the ICP-MS and ICP-OES including its calibration and standardization of the instrument. The universal challenges with inorganic techniques including the sample preparation was discussed. The workshop was coordinated by **Prof Chinmay Ghoroi**
- Navigating yourself by Counseling services and the **Communication and life skills program**, Nov 3, 2018
- Effective use of Web of Science's citation database and 'EndNote' reference management system by **Dr Subhasree Nag**, Solution consultant, Scientific Research Division, Clarivate Analytics, Nov 13, 2018
- Managing your references using Zotero- a reference management software by **Library team**, IITGN, Nov 16, 2018
- Desalination: status and perspective in India by **various speakers**, Nov 16, 2018
- Heat and Mass transfer in porous media by **Mr Manjunath Subbanna**, Entuple Technologies, Dec 20, 2018
- Drug discovery and development by **Dr Narendra Chirmule**, Head of Research and Development, Biocon Ltd, Jan 4, 2019
- English fundamentals by **Prof Garry Nicol**, retired professor, Skyline Community College, California, USA, Jan 31, 2019
- 3D scanning by Design Innovation Centre (DIC), IIT Gandhinagar, Feb 9, 2019
- Understanding your personality type by **Ms Gargi Basu**, HR, Cadila Pharma, Feb 17, 2019
- Communication and presentation skills by **Ms Gargi Basu**, HR, Cadila Pharma, Feb 17, 2019
- The Electrical Engineering discipline, IITGN organised a two-day workshop on Design, Optimization and Data-driven Applications of Smart Energy System on Feb 18-19, 2019, as a part of the DST-UKIERI (Department of Science and Technology - UK-India Education

and Research Initiative) collaborative project titled Data-Driven Intelligent Energy Management for Environmentally Sustainable Energy Access (D-DIEM). The workshop was coordinated by **Prof Naran Pindoriya**

- How to be successful when preparing a scientific document? Dissertations and oral presentations by **Dr Maria João Amante**, Information and Documentation Services Director, ISCTE-IUL, Feb 22, 2019
- The team from the Centre for Creative Learning (CCL) visited Sri Lanka to conduct three different workshops for students, teachers, and the engineering student body and faculty at the University of Jaffna, Sri Lanka, during Feb 26 - Mar 2, 2019
- Find your passion by **Mr Sunny Agrawal**, Ex HR, CEAT Tyres, Mar 3, 2019
- **Centre for Creative Learning (CCL)** conducted two 5-day workshops during Jan 8-12 and Mar 12-16, 2019, as part of the series, "Innovation and Creativity in Engineering" in collaboration with the All India Council for Technical Education (AICTE). It hosted around 50 guests from private and government engineering colleges from all across the country
- The institute organised a workshop during Mar 14-15, 2019 on Confined Masonry (CM) technology and its implementation in India and Nepal. More than 20 participants from India and Nepal attended the workshop. The workshop was coordinated by **Prof Svetlana Brzev**
- Design & Innovation Center organized 'Design March' on Mar 16-17, 2019. There were four parallel theme-based workshops on the topics of game and interaction design, automobile styling, sculpture from metal waste, and packaging design. The program was coordinated by **Mr Franklin Kristi**, **Prof Vineet Vashista**, and **Prof Manasi Kanetkar**
- A workshop on Global Earthquake Model (GEM) and the implementation of its seismic hazard and risk assessment platform in India was conducted at the institute during Mar 18-19, 2019. The workshop was coordinated by **Prof Svetlana Brzev** and **Prof Manish Kumar** of Civil Engineering
- Laser cutting workshop (for IITGN faculty) by **Team CLI**, Mar 30, 2019

SEMINARS

PANEL DISCUSSIONS ON CHANGING ROLE OF WOMEN IN THE AGE OF THE DIGITAL

The Humanities and Social Sciences discipline organised panel discussions on the focal theme of “Changing Role of Women in the Age of the Digital” on Mar 12, 2019. The objective of the discussion was to explore and recognize academic and praxis-based contributions in this digital shift. The panel included eminent educationalists and practitioners from the fields of media and journalism, history of science and technology, literature, philosophy, and social science research. The discussions were coordinated by **Prof Arnapura Rath**.

PANEL DISCUSSION ON SECRETS OF SUCCESS IN SILICON VALLEY

With an aim to edify the community about the latest developments in the field of science and technology, the **Shastrarth Socratic Society** arranged a panel discussion on the topic ‘Secrets of Success in Silicon Valley’ on Mar 19, 2019. The four panelists were **Cody Daniel**, **Emma Ainge**, **Daniel Ainge**, and **Camille Noel**, who are high-fliers in fields of machining, mechanical design, biomedical engineering, aerospace and aviation.

PHYSICS DAY II

The Physics discipline, IITGN, organised Physics day on Mar 30, 2019. A group of faculty members consisting of **Prof B Prasanna Venkatesh**, **Prof Rupak Banerjee**, **Prof Krishna Kanti Dey**, and **Prof Anand Sengupta**, presented summaries of their respective research interests and held engaging discussions with the participants during the four seminars.

SHORT COURSES

- Accounting, finance and business valuation for engineers by **Mr Rajiv Bhatt**, Associate Partner, Ernst & Young LLP and CA, Mar 31 - Apr 01, 2018
- Logic by **Prof Sadanand Dinkar Agashe**, Emeritus Professor till 2015, IIT Bombay, Apr 02-06, 2018
- Hamiltonian formulation of general relativity by **Dr Avirup Ghosh**, postdoctoral fellow, IITGN, Apr 02 - 07, 2018
- Ground water development and management by **Dr R C Jain**, formerly Chairman of Central Ground Water Board, New Delhi, Aug 04 - Sep 02, 2018
- Introduction to public performance by **Mr Stefan Haves**, International Impresario at CIRQUE DU SOLEIL, Aug 06 - 09, 2018
- Find the Leader in You (FLY) by **Mr Uday Nadkarni**, **Mr Harsh Bhargava**, **Mr Erik Dauwen**, **Dr Aruna Bhargava**, **Dr Aparna Rajagopal** and **Dr Amrish Garg**, Aug 11-12, 2018
- Indian military strategy by **Maj Gen (retd) B K Sharma**, **Lt Gen (retd) G S Katoch**, and **Dr Roshan Khanijo**, Aug 18-19, 2018
- Vehicle navigation: principles & practices by **Prof Ashok Joshi**, Department of Aerospace Engineering, IIT Bombay, Aug 22-26, 2018
- Research methods for successful PhD by **Prof Dinesh Kant Kumar**, Biomedical Engineering, RMIT University, Melbourne, Australia, Aug 24-28, 2018
- Understanding diversity by **Prof Shungo Kawanishi** and **Dr Kotona Motoyama**, Japan Advanced Institute of Science and Technology (JAIST), Sep 03-07, 2018
- A brief history of the universe by **Prof Sudipta Sarkar**, Assistant professor, Physics at IIT Gandhinagar, Sep 10-24, 2018
- Electro- and electroless plating: From theory to applications by **Dr Véronique Vitry**, University of Mons, Brussels, Sep 24- 25, 2018
- Post-transcriptional gene regulation in development and disease by **Prof Rahul Kanadia**, University of Connecticut, Oct 20-21, 2018
- How to think like a designer? by **Sandeep Karmarkar**, Director of Design

Nutanix, Nov 10-11, 2018

- Desalination: status and perspective in India by **Prof P K Tewari**, **Mr Sriram Kulkarni**, **Dr P Selvaraj**, **Prof V K Shahi**, **Prof C Subramaniam**, **Prof G N Tiwari**, and **Mr G Venkatesan**, Nov 16, 2018
- Looking around corners: The art of developing business perspectives for the 21st Century by **Hari Sankaran**, IL&FS, Jan 7-11, 2019
- Myth and Epistemology by **Prof Srinivas Reddy**, Visiting Professor of Religious Studies and Contemplative Studies at Brown University and Guest Professor of Humanities at IITGN, Jan 7-15, 2019
- Modern applications of mass spectroscopy by **Dr Ajit Datar**, Shimadzu Analytical, Feb 9-10, 2019
- Roles of big data and small data in public policy by **Mr Manu Sharma**, Feb 11-15, 2019
- The causal structure of space-time by **Prof Sudipta Sarkar**, Physics, IIT Gandhinagar, Feb 27-Mar 13, 2019
- Gothic cultures of sexuality: Literature, society and psychoanalysis in the 19th and 20th centuries by **Dr Sigi Jottkandt**, University of New South Wales, Mar 18-20, 2019

INVITED LECTURES

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

- Extremal rays of Betti cones by **Dr Rajiv Garg**, IIT Dharwad, Apr 3, 2018
- Songs of script: performance, affect, and the spread of Santhali language literacy in eastern India by **Mr Nishant Choksi**, PhD, Michigan-Ann Arbor, Apr 4 -5, 2018
- Phenomenology of relativistic heavy ion collisions by **Dr Sandeep Chatterjee**, postdoctoral fellow, AGHUST, Krakow, Poland, Apr 5, 2018
- Himalayas – India’s northern frontier, Chinese claims on Indian territory, significance of Siachen by **General Prakash Katoch**, Indian Army, Apr 6, 2018
- Neural control of sequential movements by **Prof Aditya Murthy**, IISc Bangalore, Apr 6, 2018
- Taxation and fiscal federalism in India by **Shri Sanjay Prasad** (IRS), Apr 16, 2018
- Through the looking glass: a roadmap to a parity symmetric universe by **Prof Urjit A Yajnik**, IIT Bombay, Apr 25, 2018
- Role of crystallographic texture in development of aluminum alloys for automobile and defence applications by **Dr Chandan Mondal**, Defence Metallurgical Research Laboratory, Apr 26, 2018
- An introduction to CEH’s water resources research and the India-UK water centre by **Dr Harry Dixon**, Centre for Ecology and Hydrology, NERC, UK, Apr 27, 2018
- From drought research to decision-making: Experiences from the UK (and beyond) by **Mr Jamie Hannaford**, Centre for Ecology and Hydrology, NERC, UK, Apr 27, 2018
- Pathophysiology, treatment and rehabilitation by **Prof Soumya Sundaram**, May 1, 2018
- SDC lecture on programming self by **Mr R K Chopra**, a certified management trainer AIMA and a certified NLP practitioner, May 3, 2018
- Mumbai-Ahmedabad high speed rail project: technology leap forward - innovations and growth by **Shri Achal Khare**, Managing Director, National High Speed Rail Corporation Limited, May 12, 2018
- Tools, time and transitions: new perspectives on early prehistoric populations in South Asia by **Dr Shanti Pappu**, Professor, Sharma Centre for Heritage Education, Chennai, Tamil Nadu, May 23, 2018
- Low-Reynolds number multi-rotor aerodynamics & building startups: a customer discovery based approach by **Mr Dhwanil Shukla**, Research Fellow, Georgia Tech, May 29, 2018
- Strategies on sustainable urban water use adapted to climate change by **Prof Hiroaki Furumai**, University of Tokyo, Japan, June 6, 2018
- Nano-engineered mesenchymal stem cells for true active tumor targeting by **Prof Swayam Prabha**, University of Minnesota, June 13, 2018
- Therapeutic modification of tumor microenvironment to boost nano drug delivery by **Prof Jayanth Panyam**, University of Minnesota, June 13, 2018
- Post-modernist challenge and the Indian context by **Prof Braj Sinha**, University of Saskatchewan, June 19, 2018
- Project-based learning by **Prof Dheeraj Sanghi**, IIT Kanpur, June 22, 2018
- The neuroscience of peak performance - how to tinker your brain to be more productive and innovative by **Dr Abhijit Das**, director, Neurorehabilitation Programme at the Institute of Neurosciences, AMRI Mukundapur, Kolkata, July 11, 2018
- Towards the field of curiosity studies by **Dr Arjun Shankar**, Hamilton College, July 13, 2018

- X-ray photoelectron spectroscopy by **Thermo Scientific representatives**, July 14, 2018
- Application of multivariate analysis in sediment yield modelling for small watershed: a case study on upstream catchment of river Mahanadi by **Dr P K Das**, VSSUT, Burla, Odisha, July 16, 2018
- Etched in stone: early Urdu epigraphy in Gujarat and the Deccan by **Prof Walter N Hakala**, State University of New York, Buffalo, July 23, 2018
- The challenge and potential of printing lightweight and flexible solar panels by **Dr Anurag Panda**, Massachusetts Institute of Technology, Aug 9, 2018
- Force generation by multiple rigid filaments and molecular motors by **Dr Tripti Bameta**, Mumbai University, Aug 10, 2018
- Strain bias induces suboptimal responses post-influenza vaccination by **Dr Vamsee Aditya**, Stanford University, Aug 10, 2018
- Nuclear magnetic resonance (NMR) by **Ms Mamta Joshi**, expert in NMR Instrumentation, Aug 17, 2018
- How to write a quality research paper for IEEE Publications & IEEE Xplore Digital Library: Delivering research better than ever by **Dr Dhanu Pattanashetti**, Client Services Manager, IEEE, Aug 20, 2018
- On the reduction of turbulence-aerofoil interaction noise by **Dr Chaitanya Paruchuri**, Institute of Sound and Vibration Research (ISVR), University of Southampton, Aug 21, 2018
- The magic of DNA by **Prof Manish K Gupta**, DAICT, Gandhinagar, Aug 24, 2018
- The ghosted empire: haunting and memory in postcolonial urban culture by **Dr Anuparna Mukherjee**, Australian National University (ANU), Aug 29, 2018
- Patterns in drying drops of colloidal suspensions by **Dr Basavaraja Gurappa**, IIT Madras, Aug 31, 2018
- Biochar and its potential role in addressing the water food-energy nexus by **Prof David Warner**, Newcastle University, UK, Sep 5, 2018
- Understanding the role of minor intron splicing in disease and development by **Prof Rahul Kanadia**, University of Connecticut, USA, Sep 5, 2018
- Role of biomarkers in translational cancer research by **Prof Heena Dave**, director, Research and Innovation, Nirma University, Sep 7, 2018
- Operation of water distribution networks by **Dr Sridharakumar Narasimhan**, IIT Madras, Sep 7, 2018
- Gift a life: million donor adventure by **Mr Anil Srivatsa**, CEO, Mediawalla Inc, Sep 7, 2018
- COMSOL Multiphysics for teaching and research by **Mr Ajit Bhuddi**, Applications Engineer, COMSOL, Sep 12, 2018
- Towards enhanced thermal transport through micro- and nano-surface engineering by **Prof Chander Shekhar Sharma**, IIT Ropar, Sep 14, 2018
- SciFinder database for academic research by **Mr Anand S Singh**, an Expert Trainer, ACS International (American Chemical Society), Sep 14, 2018
- Anatomy of a crisis: explaining inter-state crisis onset from India and Pakistan by **Ms Emily Tallo** and **Ms Akriti Vasudeva**, the South Asia program at the Stimson Center, Sep 17, 2018
- Effective use of SCOPUS citation database & MENDELEY - reference management software by **Dr Shubhra Dutta**, PhD Customer Consultant (Core Content) - South Asia A&G Team, ELSEVIER Publisher, Sep 24, 2018
- Fiber reinforced polymer matrix composites: impact behavior and manufacturing opportunities by **Dr Pierpaolo Carlone**, Department of Industrial Engineering, University of Salerno, Italy, Sep 26, 2018
- A selective ER-phagy exerts procollagen quality control via a Calnexin-FAM134B complex by **Dr Alison Forrester**, Institut Curie, Paris, Sep 27, 2018
- Computational modelling: capabilities and challenges: a perspective from the energy industry by **Dr Majeed Shaik**, Senior Researcher, Digital Rock and Image Analysis team, Shell Technology Centre, Bangalore, Sep 28, 2018
- Light sheet microscopy by **Dr Ralf Bauer**, Department of Electronic and Electrical Engineering, University of Strathclyde, Sep 28, 2018
- Boundary value problem with measures for fractional elliptic equations by **Dr Mousomi Bhakta**, IISER Pune, Oct 3, 2018
- Self-discovery - creating a progressive mindset by **Mr Suresh Rajagopal**, a professional trainer, Oct 4, 2018
- Cold atmospheric plasma (CAP) for redox biology and therapeutic applications by **Dr Ajai Kumar**, former Professor, Institute of Plasma Research, Gandhinagar, Oct 16, 2018
- Understanding and designing polymeric interfaces in Li-ion and Li-air batteries by **Dr Sai Gourang Patnaik**, Laboratory of Analysis and Architecture of Systems (CNRS), Toulouse, France, Oct 17, 2018
- Globalization and the tribes of India: Issues of tradition and transition by **Prof Kamal Misra**, Utkal University of Culture, Bhubaneswar, Oct 22, 2018
- Sustainability and India's water safety issues vis-à-vis wastewater management by **Dr Rakesh Kumar**, Director, National Environmental Engineering Research Institute (NEERI), Oct 23, 2018
- Universal deformations of dihedral representations by **Dr Shaunak Deo**, TIFR Mumbai, Oct 24, 2018
- Art of editing by **Prof Achal Mehra**, Visiting Professor, IITGN, Oct 24, 2018
- Recent trends in signal processing, communication, and machine learning by **Dr Ganapati Panda**, IIT Bhubaneswar, Oct 25, 2018
- Cryogenics: an uncommon technology for the common man by **Prof Sunil Kumar Sarangi**, Retired Professor, IIT Kharagpur, Oct 25, 2018
- A brief history of Stephen Hawking by **Prof Sunil Mukhi**, IISER Pune, Oct 25, 2018
- Informal political economy, insecurity and primordality by **Prof Ghanshyam Shah**, former Professor, Jawaharlal Nehru University, Oct 26, 2018
- Changing nature of disaster risks in the 21st Century: Evolving role of engineers by **Shri Kamal Kishore**, Member, National Disaster Management Authority, Oct 27, 2018
- Breast cancer awareness by **Dr Anagha Zope**, Apollo CBCC Cancer Care, Ahmedabad, Oct 31, 2018
- Discrete mechanics and control by **Prof Ravi Banavar**, IIT Bombay, Nov 1, 2018
- Air quality, citizen science and capacity building powered by earth observations by **Dr Pawan Gupta**, USRA, NASA Marshall Space Flight Center, Nov 2, 2018
- Not quite 'Enterprising Subjects': work, youth aspirations and the limits of theorising 'Neoliberalism' in India by **Prof Sanjay Srivastava**, Institute of Economic Growth, Delhi University North Campus, Nov 2, 2018
- The impact of inequality and polarization on the political economy by **Dr Basudeb Guha-Khasnobis**, Asian Development Research Institute, Patna, Nov 5, 2018
- Some aspects of computational journalism by **Prof Niloy Ganguly**, IIT Kharagpur, Nov 12, 2018
- Brown-Douglas-Fillmore theorem by **Dr Sameer Chavan**, IIT Kanpur, Nov 12, 2018
- Counting real zeros of real polynomials by **Prof Dilip Patil**, IISc Bangalore, Nov 12, 2018
- Nanotoxicity of titania in bone tissue engineering in 2D and 3D cell models by **Dr Anna Ribeiro**, University of Grande Rio, Brazil, Nov 15, 2018
- Is there a conflict between the rights of children and the rights of teachers? by **Prof Vimala Ramachandran**, Educationalist, Nov 16, 2018
- Leak before break design methods and its application to Indian nuclear power plants by **Shri Hari Shankar Kushwaha**, ex-director, Health, Safety and Environment Group, Nov 16, 2018
- Design of highly-efficient, affordable power management circuits in high-voltage 0.35um CMOS technology for automotive applications by **Mr Krishna Kanth Avalur**, AMS Semiconductors India, Nov 19, 2018
- A novel single-molecule analysis of gene silencing protein H-NS uncouples DNA binding affinity from DNA specificity by **Dr Ranjit Gulvady**, National University of Singapore, Nov 22, 2018
- The university, democracy, and identity resistance by **Dr Gaurav J Pathania**, University of Massachusetts, USA, Nov 22, 2018
- Measurement of water quality in tomorrow's agroecosystem by **Dr Daniel D Snow**, University of Nebraska, USA, Nov 23, 2018
- Semigroup rings: resolutions and structure by **Dr Hema Srinivasan**, University of Missouri, Columbia, USA, Dec 6, 2018
- Mixed multiplicities of iterations by **Dr Steven Cutkosky**, University of Missouri, Columbia, USA, Dec 7, 2018
- SWR1C: a nucleosome editing machine by **Dr Raushan Singh**, University of Massachusetts Medical School, Worcester, USA, Dec 7, 2018
- Temporal DNA barcodes by **Mr Shalin Shah**, Duke University, Dec 13, 2018
- Vector bundles on hypersurfaces by **Dr G V Ravindra**, University of Missouri - St Louis, USA, Dec 13, 2018
- Limits of poetic reference: a reading of J H Prynne's Pearls that were and sub songs by **Prof Rupsa Banerjee**, Assistant Professor, Rabindra Bharati University, DDE, Jan 3, 2019
- Large values of the Riemann zeta function on the 1-line by **Dr Kamalakshya Mahatab**, Professor, Norwegian University of Science and Technology, Jan 4, 2019
- A new insight into the origin of repeating FRB by **Dr Vishal Gajjar**, postdoctoral researcher, University of California, Berkeley, Jan 8, 2019
- Rethinking motor rehabilitation after stroke: time for change by **Dr Neha Lodha**, Assistant Professor, Colorado State University, Jan 10, 2019
- From one to many: the evolution of multicellular organisms by **Prof Vidyand Nanjundiah**, Professor, Centre for Human Genetics, Bangalore, Jan 10, 2019
- Methods to identify brain networks underlying

- cognition from human neuroscience data by **Dr Nitin Williams**, postdoctoral fellow, University of Helsinki, Finland, Jan 11, 2019
- Design & construction of terwillegar park stress ribbon footbridge by **Dr Manoj Medhekar**, Senior Structural Engineer, Government of Alberta in Edmonton, Canada, Jan 12, 2019
 - Polymer-grafted nanoparticle membranes with exceptional gas separation performance by **Prof Sanat Kumar**, Bykhovsky Professor, Columbia University, New York, Jan 15, 2019
 - High-temperature superconducting materials: current status and future potential by **Dr Devendra Namburi**, Research Associate, University of Cambridge, Jan 18, 2019
 - Understanding the neurobiology of social decision making by **Dr Sharika K M**, postdoctoral fellow, University of Pennsylvania, Jan 22, 2019
 - Grounded design: an approach to design for underserved communities by **Dr Dhaval Vyas**, Senior Lecturer, Queensland University of Technology, Jan 23, 2019
 - Predatory publishing: how to spot and avoid by **Dr T S Kumbhar**, Librarian, IIT Gandhinagar, Jan 23, 2019
 - New technology innovations with potential for space applications by **Dr Kumar Krishen**, Adjunct Professor, University of Houston, Jan 24, 2019
 - Thinking critically: creativity and design by **Prof Sanjay Dhande**, former Director, IIT Kanpur, Jan 24, 2019
 - Revolution as the absence of oeuvre: Naxalbari narratives and the dynamic of bhadrolak reason by **Dr Samrat Sengupta**, Assistant Professor, Sammilani Mahavidyalaya, Jan 25, 2019
 - Meet the nanoimager: first desktop single molecule super-resolution microscope by **Dr Pradeep Kumar**, Application Scientist, Oxford Nanoimaging, UK, Jan 28, 2019
 - Critical literacies for writing in the digital age by **Dr Preet Hiradhar**, Assistant Professor, Lingnan University, Hong Kong, Jan 29, 2019
 - Why Chomsky is a language creationist by **Prof Frederick Coolidge**, University of Colorado, USA, Jan 31, 2019
 - Pharmacokinetic factors in ocular drug delivery system design by **Prof Arto Urtti**, University of Helsinki, Finland, Feb 1, 2019
 - Design of antimicrobial contact lenses by **Prof Mark Wilcox**, University of New South Wales, Sydney, Feb 1, 2019
 - Impact of demonetization and GST on Indian economy by **Mr Manu Sharma**, Political analyst, Feb 1, 2019
 - Did the Universe bang or bounce? by **Prof L Sriramkumar**, Professor, IIT Madras, Feb 1, 2019
 - Psychoanalysis and theatre by **Dr Antonio Quinet**, Professor, UVA, Rio de Janeiro, Feb 4, 2019
 - Two unsolved problems: Birkhoff-Von Neumann graphs and PM-compact graphs by **Dr Nishad Kothari**, postdoctoral researcher, University of Campinas, Brazil, Feb 4, 2019
 - The 4D's of seismic design by **Prof Daniel Abrams**, Professor Emeritus, the University of Illinois at Urbana Champaign (UIUC), Feb 5, 2019
 - Versatile tools towards real-time single molecule biology by **Dr Avin Ramaiya**, Application Scientist, Lumicks Technologies, Netherlands, Feb 5, 2019
 - Pfaffian orientations and conformal minors by **Dr Nishad Kothari**, postdoctoral researcher, University of Campinas, Brazil, Feb 5, 2019
 - Juggling: a mathematical art by **Mr Mahit Warhadpande**, ex-employee, Texas Instruments, Bangalore, Feb 7, 2019
 - Real-time optimization (RTO): methods and applications by **Prof Dominique Bonvin**, Professor and Director, Automatic Control Laboratory of EPFL Lausanne, Switzerland, Feb 8, 2019
 - The future of artificial intelligence by **Mr Rohit Pandharkar**, Head of Data Science and Artificial Intelligence, The Mahindra Group, Feb 8, 2019
 - Can we save energy if we allow for errors in computing? by **Prof Janak Patel**, Visiting Professor, IIT Bombay, Feb 9, 2019
 - Being aware of scientific and technological heritage of India by **Prof K Ramasubramanian**, Professor, IIT Bombay, Feb 11, 2019
 - Makerspaces for engineering education by **Prof Diana Haidar**, Assistant Teaching Professor, Carnegie Mellon University, Feb 14, 2019
 - Why somebody should open and read your email? by **Mr Ivan Brzev**, ex-Lead Business Analyst, Rolls-Royce Marine, Feb 14, 2019
 - How to be successful when preparing a scientific document? by **Dr Maria João Amante**, Information and Documentation Services Director, ISCTE-IUL, Feb 15, 2019
 - Future technologies: innovations at intersections by **Shri K Ananth Krishnan**, Chief Technical Officer, Tata Consultancy Services, Feb 15, 2019
 - Can the promise of Egypt's tahrir square and the arab spring be fulfilled? by **Mr Al-Sharif Nassef**, Multinational Activist, and Writer, Feb 15, 2019
 - Trends in VLSI design and technology by **Dr Samit Barai**, Senior Staff, STMicroelectronics, Feb 18, 2019
 - Dialogics of aesthetic vision and carnival experience by **Dr Lakshmi Bandlamudi**, Professor, City University of New York, Feb 18, 2019
 - Infrastructures of justice by **Prof Nancy Neiman**, Professor, Scripps College in Claremont, California, Feb 20, 2019
 - Research and developments in biosurfactants and the introduction of synthetic biology to improve microbial processes by **Dr Pattanathu Rahman**, Microbial Biotechnologist, The University of Portsmouth, England, Feb 21, 2019
 - Morphology of the Himalayan foreland rivers by **Dr Kumar Gaurav**, Assistant Professor, IISER Bhopal, Feb 26, 2019
 - Europe: a requiem for an Idea? by **Dr Huzefa Khalil**, postdoctoral fellow, University of Michigan- Ann Arbor, Feb 26, 2019
 - Evaluating the benefits of merging near real-time satellite precipitation products: a case study in Kinu basin region, Japan by **Mr Nikos Mistrantonas**, Research Associate Hydrologist, Center of Hydrology and Ecology (CEH), Wallingford, UK, Feb 28, 2019
 - Nationalism and development in Asia by **Prof Prasenjit Duara**, Oscar Tang Chair of East Asian Studies, Duke University, Mar 8, 2019
 - Being part of a golden age of astronomy by **Mr Samir Dhurde**, Scientific and Technical Staff member, IUCAA, Pune, Mar 8, 2019
 - Non-engineered buildings - role of building professionals in disaster risk reduction by **Mr Rajendra Desai** and **Mrs Rupal Desai**, Hon Joint Director, National Centre for People's Action in Disaster Preparedness (NCPDP), Ahmedabad, Mar 13, 2019
 - Pathogen target p-21 Activated Kinases (PAK) to establish infection by **Dr Vikash Singh**, postdoctoral fellow, Cambridge University, Mar 13, 2019
 - Emergence of stress and material instabilities during biological growth by **Dr Anurag Gupta**, Associate Professor, IIT Kanpur, Mar 15, 2019
 - Moser-Trudinger and Adams inequalities and related PDEs by **Prof K Sandeep**, Professor, TIFR-CAM, Bangalore, Mar 15, 2019
 - Dynamic glaciers in the Himalaya by **Dr Argha Banerjee**, Assistant Professor, IISER Pune, Mar 18, 2019
 - Machine learning for health monitoring of mechanical systems by **Prof Ranjan Ganguli**, Professor, IISc Bangalore, Mar 18, 2019
 - This Q de telephone: "Signs and Symbols," and the Nabokovian unconscious by **Prof Sigi Jöttkandt**, Senior Lecturer, The University of New South Wales, Sydney, Mar 20, 2019
 - Membrane trafficking drives breast cancer metastasis by **Dr Ewan Macdonald**, postdoctoral fellow, Institut Curie, Paris, Mar 22, 2019
 - Quantum synchronisation in nanoscale heat engines by **Prof Sai Vinjanampathy**, Assistant Professor, IIT Bombay, Mar 25, 2019
 - Between exclusion and autonomy: the mobility/moorings, dialectic and the reconstitution of village communities in the Tamil countryside by **Dr Karthik Rao Cavale**, Assistant Professor, Ahmedabad University, Mar 27, 2019
 - Electronic and optical properties of two-dimensional α -PbO from first principles by **Dr Suvadip Das**, postdoctoral fellow, University of Michigan, Mar 28, 2019
 - Role of mechanics in cell patterning by **Prof Abhijit Majumder**, Associate Professor, IIT Bombay, Mar 29, 2019
 - Structure of solutions balance laws by **Prof Adimurthi**, Professor, Tata Institute of Fundamental Research, Bangalore, Mar 29, 2019
 - Reconstructing causal networks from data: overview and developments by **Prof Arun Tangirala**, Professor, IIT Madras, Mar 29, 2019
 - The state of Indian media by **Ms Ankita Mukhopadhyay**, Reporter, Fair Observer, Mar 29, 2019
 - Multidisciplinary challenges in river health management: field-based experiments on Indian river studies by **Mr Nitin Kaushal**, Associate Director, Sustainable Water Management & Wild Rivers with WWF- India, Mar 29, 2019
 - Emotional first aid by **Mr Deepak Kashyap**, Wellness Counsellor and Life Skills Trainer, Mar 30, 2019

SABARMATI YOUNG RESEARCHERS SEMINAR SERIES

- Recent advances in image motion deblurring by **Mr Subeesh Vasu**, IIT Madras, Oct 26, 2018
- Efficient large-scale graph processing by **Dr Keval Vora**, Assistant Professor, Simon Fraser University, British Columbia, Jan 3, 2019
- The parameterized complexity of network design problems by **Dr Pranabendu Misra**, Researcher, University of Bergen, Jan 7, 2019
- Development and optimization of next generation optoelectronic and memory devices using oxide semiconductors and their integration with 2D semiconductors by **Dr Tejendra Dixit**, postdoctoral fellow, IIT Madras, Jan 9, 2019
- Understanding the role of climate characteristics on drought propagation by **Mr Tushar Apurv**, PhD student, the University of Illinois at Urbana Champaign, USA, Jan 17, 2019



RODDAM NARASIMHA LECTURE SERIES

The Seventh Roddam Narasimha Lecture titled Role of Advanced materials in Transforming India into a Global Leader was delivered by **Prof B S Murty**, Girija & R Muralidharan Chair Professor, Department of Metallurgical and Materials Engineering, IIT Madras on Aug 13, 2018.

FIRST DECENNIAL LECTURE

IITGN organised the first decennial lecture as a part of the IITGN Decennial Lecture Series on Feb 15, 2019. **Shri K Ananth Krishnan**, Chief Technical Officer, Tata Consultancy Services, delivered the lecture on Future technologies: Innovations at intersections.



GIAN COURSES

The Advanced Materials Processing Research Group at IITGN hosted a thought-provoking workshop on the subject **Aerospace Materials: Microstructure, Fracture, and Fatigue** as a Global Initiative of Academic Networks (GIAN) course from June 11 - 22, 2018. The course was taught by **Dr Kumar V Jata**, CEO, Jata Materials Solutions, USA. It focused on various microstructures that can be produced in structural metals and how one can manipulate the microstructure to produce desirable properties. Researchers from the Air Force, Industry, Defense Research Labs, and academic Institutes from across the country participated in the course. The GIAN course on **Nanosafety: Biological**

& Environmental interaction of nanoparticles by **Prof Jamie Lead**, director, Smart State Center for Environmental Nanoscience and Risk, University of South Carolina, and **Prof Superb Misra**, Assistant Professor, IITGN, Nov 19-22, 2018. The workshop allowed the participants to get hands-on expertise on synthesizing nanomaterials and testing their reactivity in environmental and biological media.

MAKER BHAVAN

Maker Bhavan facilitates interdisciplinary student and faculty interactions and integrates learning by doing into curriculum courses. The goal is to turn students into doers, leaders and innovators in whichever field they choose to pursue after graduation. Maker Bhavan will have teamwork areas, a fabrication area, machine shop, creative studio, electronics labs, materials inventory and storage space with the aim of providing the necessary tools, resources, facilities, people, and equipment for both curricular and extracurricular activities. Students and IITGN's extended community, including faculty, staff, alumni, industry partners, and in the long-term, educational practitioners from other institutions around the country will be able to benefit from the space.

TINKERER'S LAB: LEARNING BY DOING

IITGN emphasizes project based learning both inside and outside the classroom. Hands-on training via course projects, dedicated term project courses, extensive lab work and an emphasis on "learning by doing", enable undergraduates to get their hands dirty, and solve challenging problems of the real world rather than be confined to books, black boards and powerpoints. Our Tinkerers' Lab encourages students to explore creative ideas beyond the curriculum. Equipped with advanced machines such as a Dual Extrusion 3D Printer, and Laser Cutting and Engraving machines, the Lab allows students the freedom to experiment, exercise imaginations, build novel systems and convert concepts and creative ideas to actual engineering products.

INNOVATIVE CURRICULUM AND ACTIVE LEARNING

Award winning curriculum Project based learning, creativity, and entrepreneurship encouraged Emphasis on design, humanities, and life sciences to promote out-of-the box and non-linear thinking

- 40% of UG and 77% of PhD students receive international exposure
- Increasing emphasis on learning-by-doing and active learning
- Tinkerer's Lab for fearless experimentation
- Programs such as Invent@IITGN to promote innovations and inventions
- Major gift received for establishing Maker Bhavan
- Freedom, flexibility, autonomy and support to try out new pedagogical approaches

TEQIP-III

TEQIP-III project at IIT Gandhinagar has entered in its third phase in December 2017 and started to work with the local engineering colleges of Chhattisgarh, Jharkhand, Bihar and Rajasthan states. One of its kind and first summer training program on **Active learning** was conducted under

TEQIP III during June 2018 and the program was attended by 316 faculty members of various engineering colleges from Chhattisgarh, Jharkhand, Bihar and Rajasthan states. The Active Learning component covers topics such as engagement of students through active participation, peer learning, technology-enhanced learning, and students counselling. The curriculum also covered topics such as academic ecosystem, importance of autonomy and sustainability, industry interaction for student placement & alumni network, faculty-student collaboration, and importance of positive outlook, teamwork, and collegiality among colleagues. The objective of active learning program is to improve learning outcomes and enhancing graduate attributes. Apart from these training programs, TEQIP-III has given an opportunity to the local engineering college students to come under SRIP program and do their research with professors of IIT Gandhinagar, accordingly 26 students who came under this scheme have successfully completed their projects with their respective faculty advisors. Also in order to nucleate research collaborations between IITGN faculty and the faculty from the TEQIP colleges, IITGN has selected 3 proposals to fund for collaborative research under TEQIP-III program.

VISITORS

- **Ms Rupa Jha**, head of Indian Language Services, BBC World Services visited IIT Gandhinagar on Mar 12, 2019. She participated in a panel discussion on the theme of **Changing Role of Women in the Age of the Digital**, organised at IIT Gandhinagar as a celebration of the International Women's Day
- **Mr Subramaniam Ramadorai**, former vice-chairman

of Tata Consultancy Services Ltd (TCS), and **Mrs Mala Ramadorai** visited the Institute on Feb 25, 2019

- **Lt Gen K J S Dhillon**, YSM, VSM director (general perspective planning, along with **Maj Gen AK Channan**, SM additional director (general perspective planning) were at IITGN on Jan 5, 2019 to explore R&D application in defence forces
- **Mr Prabakar Sundarrajan**, chief strategist and co-founder of The Fabric visited the Institute on Dec 21, 2018
- **Mr Raj Mashruwala**, founder and president of IIT Gandhinagar Foundation, USA visited the Institute on Dec 19, 2018
- **Dr Alok Nath De**, CTO, Samsung R&D India visited the Institute and delivered a talk on **Intelligent Things, Enriched Data** on Oct 21, 2018
- **Dr K K Narayanan**, managing director, Metahelix Life Sciences, a Tata Enterprise visited IITGN and delivered a talk on **Future of Farming** on Oct 21, 2018
- **Dr Jitendra Nath Goswami**, the Moon Man of India, chief scientist of Chandrayaan-1 visited the Institute on Oct 21, 2018 and delivered a talk on **Exploring Space: Moon, Mars and beyond**
- **Prof Venkatesh Narayanamurti**, Benjamin Peirce Research Professor of Technology and Public Policy and former dean of Engineering School, Harvard University visited IITGN on Oct 18, 2018. IITGN faculty benefited from his scholarship and the experience of building an engineering school with an interdisciplinary culture
- **Mr K E Seetaram**, visiting professor, University of Tokyo, Japan visited IIT Gandhinagar on Aug 30, 2018
- **Mr M Rangaswami**, managing director, Sand Hill Group LLC visited the institute on Aug 1, 2018



DISTINGUISHED HONORARY PROFESSOR

PROFESSOR SURENDRA PRASAD



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

PROF S P SUKHATME



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

PROF NITISH THAKOR



Prof Nitish Thakor is a professor of biomedical engineering, electrical and computer engineering, and neurology at the Johns Hopkins University, and leads the Laboratory for Neuroengineering. He is also the director of the Singapore Institute for Neurotechnology at the National University of Singapore. He earned his undergraduate degree from IIT Bombay in 1974 and a PhD from the University of Wisconsin, Madison in 1981. Prof Thakor is the 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.

MR V ASHOK



Mr V Ashok is currently senior Advisor and fellow at the Garwood Center for Corporate Innovation, Haas School of Business, University of California, Berkeley and manages UCB smart village programs in Arunachal Pradesh and Andhra Pradesh. He received a BTech in civil engineering from IIT Delhi in 1981. After serving in the Indian Foreign Service for more than 34 years at various positions, he retired in October 2018 as the Consul General of India, San Francisco, with the rank of Secretary to the Government of India. He has held diplomatic assignments in Indian Missions in Hong Kong, Malaysia, China, Austria, and Sri Lanka apart from postings at the Ministry of External Affairs in New Delhi. He was accredited as India's Ambassador to the Republic of Zimbabwe in 2007 and to the Czech Republic in 2011.

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 perceptual computing group at Intel Corporation, where he leads research & development, engineering, and



marketing of advanced computing products and solutions based on natural sensing and interaction technologies, intuitive interfaces, immersive applications and user experiences, branded as Intel®RealSense Technology.

PROF RAVI BANAVAR



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

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 the Department of Archaeology and Museum, Haryana; and Department of Archaeology and 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 the Government of India in the Ministry of Culture. He is the recipient of the Padma Shri and Acharya Narendra Dev Alankar in 2013.

PROF RAJENDRA BORDIA



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

PROF BIJOY H BORUAH

Prof Bijoy H Boruah is currently associated with IIT Delhi and has been a member of Indian Council of Philosophical Research (ICPR); Research and Publication Committee, ICPR; Advisory Committee,

Centre for Philosophy, School of Social Sciences, Jawaharlal Nehru University; External Advisory Committee for Humanities and Social Sciences, Birla Institute of Technology and Science, Pilani; Institute Ethics Committee, Fortis Memorial Research Institute, Gurgaon. He is also a visitor's nominee, Faculty of Humanities and Social Sciences, North Eastern Hill University.

PROF R P CHHABRA

Prof R P Chhabra completed his BE in chemical engineering from the 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.

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 RAMESH GAONKAR

Prof Ramesh Gaonkar obtained an interdisciplinary PhD degree in instructional technology & electrical engineering from Syracuse University, Syracuse, New York. 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 RAJEN JASWA

Dr Rajen Jaswa is an accomplished serial technology entrepreneur. His most recent role was that of CEO and chairman of Ddyno 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 ASHOK JOSHI

Prof Ashok Joshi is a professor in the Department of Aerospace Engineering at IIT Bombay. He has thirty years of experience in teaching, research & development and continuing education.

He specialization in dynamics and control of flexible flight vehicles, modelling and simulation of multi-agent swarming behaviour, navigation and guidance, system architectures. He did his BTech and MTech (Aerospace Engineering) and PhD (Aerospace Engineering) from IIT Bombay. He is also a member of the Aeronautical Society of India (AeSI) and American Institute of Aeronautics & Astronautics (AIAA), USA. His recent projects include Collaborative Missions for Unmanned Aerial Systems.

PROF LILAVATI KRISHNAN

Prof Lilavati Krishnan retired from IIT Kanpur in 2014 from the Department of Humanities and Social Sciences. Prof Krishnan completed her PhD in June 1978 from

McMaster University, Hamilton, Ontario, Canada. Her area of specialisation includes psychology (social psychology, personality; cross cultural psychology). She received the Distinguished Teacher Award, IIT Kanpur on Sep 5, 2003. She was the president, National Academy of Psychology (1998-99).

PROF DINESH KANT KUMAR

Prof Dinesh Kant Kumar is a professor in RMIT University, Melbourne, Australia and the programme director for biomedical engineering. Prof Kant has received many awards

including the European Union's Erasmus Mundus teaching award (2009-2010), Capes (Brazil) senior Professorial Fellowship Award (2012-2013) and senior Professorial Fellowship Award of the Australian Academy of Science (Australia-India Research partnership). He is the founder of the international conference IEEE Biosignals and Biorobotics.

PROF S L NARAYANAMURTHY

Prof S L Narayanamurthy obtained his PhD degree in chemical engineering from the University of Bradford in 1971 as a Commonwealth Scholar.

He received the Lifetime Achievement Award of IIT Bombay in 2004 in recognition of his diverse and seminal institution building contributions as a teacher, a team builder, and facilitator of R&D, resource mobilization and alumni networking. He has also received awards for excellence in process/technology development jointly with his colleagues.

PROF V N PRABHAKAR

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

the Archaeological Survey of India in 1997. He served at various field offices of the ASI in Agra and Aurangabad, and later as superintending archaeologist at Aurangabad Circle and Excavation Branch, Delhi. Prof Prabhakar directed excavations at the Harappan sites of Rupnagar (2011-12) and Karanpura (2012-13 and 2013-14), and the medieval site of Daulatabad (2010), besides participating in excavations at Mehtab Bagh, Madarpur, Fatehpur Sikri, Sanauli (all four in Uttar Pradesh), Ellora (Maharashtra) and Kashipur (Uttarakhand).

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 the International Association of Earthquake Engineering (IAEE).

PROF HIMANSHU PRABHA RAY

Prof Himanshu Prabha Ray is honorary professor, Distant Worlds Graduate Studies Programme, Ludwig Maximilian University, Munich and Board Member, Oxford Centre for Hindu Studies,

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

PROF T R RAMACHANDRAN

Prof T R Ramachandran was the founder director of the Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC)



during 1989-99. He was an Emeritus Scientist at the Nonferrous Materials Technology Development Centre, Hyderabad. He has served as part-time director of

the National Aluminium Company (1991-93), Bharat Aluminium Company (1994-97), Paradeep Carbons (2002-2006) and presently Alufluoride. He was awarded the Hindustan Zinc Gold Medal in 1994 and the NALCO Gold Medal in 2006 by the Indian Institute of Metals.

PROF MYTHILY RAMASWAMY



Prof Mythily Ramaswamy is a professor in the school of mathematics at TIFR, Bangalore. She received the Fulbright Nehru Academic and Professional Excellence Fellowship, 2016-17. She was awarded

the Kalpana Chawla Award for women scientists in 2004. She is a 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 Venkatapa Rao spent over three decades (1975-2007) at IIT Delhi, during which he served as the head of the Department of Civil Engineering and the dean of Student Affairs. His contributions have

been recognised 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, a Fellow of the Indian National Academy of Engineering and the Institution Engineers (India).

PROF DHEERAJ SANGHI



Prof Dheeraj Sanghi is currently professor of computer science and engineering at IIT Kanpur. He was a visiting faculty of computer science and engineering (2015-2017) at IIIT Delhi where he also

served as the dean of academic affairs and the dean of external relations. From 2008 - 2010, he

was the Director, LNM Institute of Information Technology (LNMIIT), a public-private partnership University in Jaipur. He was the Dean of Academic Affairs at IIT Kanpur from 2011 to 2014. He has also served as the head of Prabhu Goel Research Center for computer and internet security, and also of the Institute computer center. Prof Sanghi has a BTech from IIT Kanpur, and MS and PhD from the University of Maryland. His research interests lie in computer networks and network security.

PROF SRINIVAS REDDY



Prof Srinivas Reddy did BA in South Asian Studies from Brown University. He holds an MA and a PhD in South and Southeast Asian Studies from the University of California, Berkeley. Currently he is working as

Teaching Associate for Applied Music Program – Sitar at Brown University. He has also published a book with Penguin Books India – Black Classics Series in 2010, titled as “Giver of the Worn Garland: Sri Krishnadevaraya's Amuktamalyada”. He has advanced language training in reading and translation in Sanskrit, Pali, Telugu, Tamil. He is Founder and Artistic Director of Sadhana Foundation, a non-profit organisation dedicated to preserving and promoting the classical music of South Asia throughout the world.

DR CHAPIN THOMAS



Dr J Chapin Thomas is the vice-president, Research at Underwriters Laboratories Inc. He received his PhD in polymer science in 1977 from the Institute of Materials Science at the University of Connecticut.

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

PROF KOSHY THARAKAN



Prof Koshy Tharakan is currently professor at the Department of Philosophy, Goa University. Prof Tharakan obtained his masters as well as doctoral degrees in philosophy

from the University of Hyderabad and began his career as a lecturer in 1996 at the Department

of Philosophy, Goa University. He joined IIT Gandhinagar as an associate professor in 2009 where he was also the dean of Student Affairs. His areas of interest include phenomenology and philosophy of social sciences.

PROF SHYAM SUNDER



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

PROF MAHESH TANDON



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

PROF M VENKATARAMAN



Prof Venkataraman obtained a BTech in civil engineering and MTech in soil mechanics and foundation from IIT Madras in 1971. From 1971-1980 he worked in quasi-government

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



RESEARCH & FACULTY ACTIVITIES

RESEARCH PROJECTS

PROJECTS SANCTIONED DURING 2018-19

- Multi-sensor drone survey of Dholavira, Gujarat, Archaeological Survey of India. Principal investigator: **Prof Michel Danino**, Archaeology
- Ramanujan fellowship - DNA nanodevices to program stem cells, Science & Engineering Research Board. Principal investigator: **Prof Dhiraj Bhatia**, Biological Engineering
- Investigating the mechanisms of neuronal transport system and their regulations, Department of Science & Technology. Principal investigator: **Prof Sivapriya Kirubakaran**, Biological Engineering
- Unbiased pattern mining in NGS datasets: a novel computational biology approach, Department of Science & Technology. Principal investigator: **Prof Umashankar Singh**, Biological Engineering
- Scheme of assistance under BT Industry, Gujarat State Biotechnology Mission. Principal investigator: **Prof Sharad Gupta**, Biological Engineering
- Impact of ureido protein degenerative modifications on amyloidogenic peptide and protein aggregation: implications for neurodegenerative disorders, Science & Engineering Research Board. Principal investigator: **Prof Sharad Gupta**, Biological Engineering
- High yield exfoliation of layered metal diborides to synthesize boron analogs of graphene for developing a new class of energy storage nanocomposites, Science & Engineering Research Board. Principal investigator: **Prof Kabeer Jasuja**, Chemical Engineering
- Intelligent power management system for monitoring, diagnosis & prognostics of electric loads in armoured fighting vehicles, Defence Research & Development Organisation. Principal investigator: **Prof Babji Srinivasan**, Chemical Engineering
- Ultrasound-responsive multi-layered microbubbles using electrohydrodynamic focusing device for oral cancer drug delivery, UGC-UKIERI Joint Research Programme (UKIERI - III). Principal investigator: **Prof Sameer Dalvi**, Chemical Engineering
- Development of adaptive compression and distributed state estimation algorithms for future smart grids by accounting for uncertainties due to renewable energy sources: demonstration of studies on the residential grid of IIT Gandhinagar, Department of Science & Technology. Principal investigator: **Prof Babji Srinivasan**, Chemical Engineering
- Geometrically frustrated layered structure: synthesis and properties, Department of Science & Technology. Principal investigator: **Prof Sudhanshu Sharma and Ms Sethulaxmi N**, Chemistry
- Targeting mitochondrial central dogma by chimeric nanoparticle in cancer, Department of Science & Technology. Principal investigator: **Prof Sudipta Basu**, Chemistry
- A photo-switchable plasmonic system to reconfigure hot-spots between nanogaps in gold nanorod dimers – NPDRF, Science & Engineering Research Board. Principal investigator: **Prof Saumyakanti Khatua**, Chemistry
- Development of novel bicyclic secondary amine catalysts for the stereoselective vinylogous functionalization of unsaturated aldehydes, Science & Engineering Research Board. Principal investigator: **Prof Chandrakumar Appayee**, Chemistry
- Towards development of sustainable water cyber-physical systems: implementation in Gujarat Water Network Systems, WIN Foundation. Principal investigator: **Prof Pranab Mohapatra**, Civil Engineering and **Prof Babji Srinivasan**, Chemical Engineering
- Computational modelling of energetic materials subjected to thermal and mechanical insults using the material point method, Defence R&D Organisation. Principal investigator: **Prof Gaurav Srivastava**, Civil Engineering
- An experimental operational hydrologic modeling and forecasting system for river basin hydrology and extremes for India, Indian Institute of Tropical Meteorology. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- A device for bed load measurement, Science & Engineering Research Board (IMPRINT). Principal investigator: **Prof Pranab Mohapatra**, Civil Engineering
- Extremal partial VC-dimension and fine-grained fold-cut problems, Science & Engineering Research Board. Principal investigator: **Prof Neeldhara Misra**, Computer Science and Engineering
- Scholarly information extraction from comparative charts and tables, Science & Engineering Research Board. Principal investigator: **Prof Mayank Singh**, Computer Science and Engineering
- Tectonic and climatic control on variability of sediment routing in the NW Himalaya since late quaternary, Department of Science & Technology. Principal investigator: **Prof Vikrant Jain**, Earth Sciences
- Vulnerability assessment and sustainable solutions for water quality management in the urban environment, Department of Science & Technology. Principal investigator: **Prof Manish Kumar**, Earth Sciences
- Development of a predictive geomorphic model as a tool for a sustainable river management, Ministry of Earth Sciences. Principle investigator: **Prof Vikrant Jain**, Earth Sciences
- Unravelling Submarine Groundwater Discharge (SGD) zones along the Indian subcontinent and its Islands (Mission-SGD) – pilot study, National Centre for Earth Science Studies (NCESS). Principal investigator: **Prof Manish Kumar**, Earth Sciences
- Development of environmentally and economically sustainable composite solution for municipal solid waste management, Gujarat State Biotechnology Mission. Principal investigator: **Prof Manish Kumar**, Earth Sciences
- Micro-components quantification of end uses of water consumption In low income settings, WIN Foundation. Principal investigator: **Prof Manish Kumar**, Earth Sciences
- Pilot scale in-situ application for arsenic and fluoride removal from the groundwater: a safe drinking water production perspective, WIN Foundation. Principal investigator: **Prof Manish Kumar**, Earth Sciences
- ECO-WET - efficient coupling of water and energy technologies for smart sustainable cities, Indo-German Science and Technology Centre. Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering
- Developing low-cost bipolar transistors for analog and RF applications in 0.18 μ m CMOS technology, Science & Engineering Research Board. Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Development of a prosumer driven integrated smart grid, Department of Science & Technology. Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering
- HDR-GIF and HDR Video generation for dynamic scenes, Science & Engineering Research Board. Principal investigator: **Prof Shanmuganathan Raman**, Electrical Engineering
- VAJRA faculty scheme: collaborative research visit of **Prof Dinesh Kant Kumar** from RMIT University, Australia, Science & Engineering Research Board. Principal investigator: **Prof Uttama Lahiri, Prof Dinesh Kant**, Electrical Engineering
- Smart walk: intelligent sensor-fitted shoes for gait monitoring and rehabilitation in neurological disorders, Biotechnology Industry Research Assistance Council. Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- Design of hearables with psychoacoustic integration, Science & Engineering Research Board. Principal investigator: **Prof Nithin V George**, Electrical Engineering
- Technology-assisted pelvic motion characterization and gait rehabilitation for the elderly, Department of Science & Technology. Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- The virginity industry: hymenoplasty and disciplining desire in contemporary India, Population Foundation of India (PFI). Principal investigator: **Prof Tannistha Samanta**, Humanities and Social Sciences
- Design of anti-nephrolithiac peptide-nanoparticles, Science & Engineering Research Board. Principal investigator: **Prof Abhijit Mishra**, Materials Science and Engineering
- Development of simulation tools and experimental validation for investigating the application of Al7xxx (7050 base alloy) in aerospace and automotive sector, Science & Engineering Research Board. Principal

- investigator: **Prof Manas Paliwal**, Materials Science and Engineering
- Heat transfer and material flow modeling of additive manufacturing of dissimilar materials, Science & Engineering Research Board. Principal investigator: **Prof Amit Arora**, Materials Science and Engineering
 - Stability and blow up analysis for chemotaxis models in higher dimensions, Council of Scientific & Industrial Research. Principal investigator: **Prof Jagmohan Tyagi**, Mathematics
 - Ramanujan-type formulas for $\zeta^2(2m+1)$ and a Bessel series, Science & Engineering Research Board. Principal investigator: **Prof Atul Abhay Dixit**, Mathematics
 - Parabolic sheaves and filtered Kronecker modules, Science & Engineering Research Board. Principal investigator: **Prof Sanjay Kumar Amrutiya**, Mathematics
 - Algebra structures on certain quadrics, Science & Engineering Research Board. Principal investigator: **Prof Indranath Sengupta**, Mathematics
 - Free boundary value problems and singular parabolic partial differential equations, Science & Engineering Research Board. Principal investigator: **Prof Jagmohan Tyagi**, Mathematics
 - Stability and blow up analysis for chemotaxis models in higher dimensions and free boundary value problems, National Board for Higher Mathematics. Principal investigator: **Prof Jagmohan Tyagi**, Mathematics
 - Reactive transport in porous media (Ramanujan), Science & Engineering Research Board. Principal investigator: **Prof Uddipta Ghosh**, Mechanical Engineering
 - Theoretical and experimental study of wave propagation in granular metamaterials, Science & Engineering Research Board. Principal investigator: **Prof Jayaprakash K R**, Mechanical Engineering
 - Global stability analysis of flow between eccentric rotating cylinders, Science & Engineering Research Board. Principal investigator: **Prof Vinod Narayanan**, Mechanical Engineering
 - Modular induction stove design for Indian cookware, Central Power Research Institute, Ministry of Power Board. Principal investigator: **Prof Madhu Vadali**, Mechanical Engineering
 - Enhancing sensitivity of disease diagnosis using enzyme chemotaxis, Shastri Research Grant (SRG). Principal investigator: **Prof Krishna Kanti Dey**, Physics
 - Topology and evolution of black holes in higher curvature gravity, Department of Science & Technology. Principal investigator: **Prof Sudipta Sarkar**, Physics
 - Enzyme dynamics in cytosolic milieu: a new perspective on intracellular mechanics and transport, Science & Engineering Research Board. Principal investigator: **Prof Krishna Kanti Dey**, Physics
 - Scaling up a high-throughput gravitational-wave search pipeline using randomized numerical linear algebra, Department of Science & Technology. Principal investigator: **Prof Anand Sengupta**, Physics

SPARC AND IMPRINT PROJECTS

- Materials for sustainable and energy efficient buildings, Ecole Normale Supérieure De Cachan, France. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering
- Understanding the impact of air pollution on solar photovoltaics and developing surface engineered panel materials for improved

- performance of solar plants, Duke University, USA. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Development and application of geomorphic tool for sustainable management of a Himalayan river system, India, The University Of Auckland, New Zealand. Principal investigator: **Prof Vikrant Jain**, Earth Sciences
 - Advanced optimization strategies for efficient water and energy utilization in batch processes: case studies in pharmaceutical and textile industries, University Of The Witwatersrand, South Africa. Principal investigator: **Prof Babji Srinivasan**, Chemical Engineering
 - Analytical and computational study of nonlinear acoustic metamaterials, Technion - Israel Institute of Technology, Israel. Principal investigator: **Prof Jayaprakash K R**, Mechanical Engineering
 - Problems in analytic and combinatorial number theory, Queen's University at Kingston, Canada. Principal investigator: **Prof Atul Dixit**, Mathematics
 - Indigenous cultural heritage as a facilitator for the sustainable development goals, Flinders University, Australia. Principal investigator: **Prof Alok Kumar Kanungo**, Humanities
 - Study of locomotor adaptation using a single-degree-of-freedom bilateral gait trainer, University of Texas at Austin, USA. Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering
 - Assessing gait and balance during walking using body-worn sensors, Columbia University, USA. Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering
 - A device for bed load measurement, Science & Engineering Research Board (IMPRINT). Principal investigator: **Prof Pranab Mohapatra**, Civil Engineering
 - Cultural heritage preservation and restoration using digital 3D models, Science & Engineering Research Board (IMPRINT). Principal investigator: **Prof Shanmuganathan Raman**, Electrical Engineering

ONGOING RESEARCH PROJECTS

- Neural basis of skilled motor behaviour - Ramanujan Fellowship, Department of Science & Technology. Principal investigator: **Prof Pratik Mutha**, Biological Engineering
- Evolution of eukaryotic mobile genetic elements/transposons (Ramalingaswamy), Department of Biotechnology. Principal investigator: **Prof Sharmistha Majumdar**, Biological Engineering
- Regulation of chromatin function by CGGBP1-CTCF Axis, Science & Engineering Research Board. Principal investigator: **Prof Umashankar Singh**, Biological Engineering
- Targeting IMPDH (Inosine Monophosphate Dehydrogenase): Developing novel therapeutics for H pylori infection, Science & Engineering Research Board. Principal investigator: **Prof Sivapriya Kirubakaran**, Biological Engineering & Chemistry
- Single crystal XRD instrument sanctioned under DST fund for the improvement of S&T infrastructure in Universities and Higher Educational Institutions (FIST) program - 2016. Principal investigators: **Prof Sivapriya Kirubakaran** & **Prof Vijay Thiruvankatam**, Biological Engineering
- Anti-CGGBP1 adjunct cancer therapy: regional advantage in Gujarat, Gujarat State Biotechnology Mission (GSBTM). Principal investigator: **Prof Umashankar Singh**, Biological Engineering
- Mechanistic analysis of eukaryotic mobile

- genetic elements, Department of Biotechnology. Principal investigator: **Prof Sharmistha Majumdar**, Biological Engineering
- Regulation of inter-allelic epigenetic differences by CGGBP1-CTCF axis, Department of Biotechnology. Principal investigator: **Prof Umashankar Singh**, Biological Engineering
 - Mechanism of kinesin-3 base cargo transport, regulation and their implication in neurodegenerative diseases, Department of Biotechnology. Principal investigator: **Prof Virupakshi Soppina**, Biological Engineering
 - Molecular mechanisms of kinesin-3 autoregulation and their biophysical measurements, Science & Engineering Research Board. Principal investigator: **Prof Virupakshi Soppina**, Biological Engineering
 - Molecular mechanisms of kinesin-3-based cargo transport and their implications in human diseases, Department of Biotechnology. Principal investigator: **Prof Virupakshi Soppina**, Biological Engineering
 - Computational pipeline for integrated analysis of large-scale NGS data to accurately define genome-wide binding profiles of protein, Department of Biotechnology. Principal investigator: **Prof Sharmistha Majumdar**, Biological Engineering
 - Structural investigation of tetraspanin CD151 and laminin-binding integrin $\alpha 3 \beta 1$: a possible target for cancer therapy, Science & Engineering Research Board. **Prof Vijay Thiruvankatam**, Biological Engineering & Physics
 - Optimization and control of household energy in smart grid, Department of Science & Technology. Principal investigator: **Prof Babji Srinivasan**, Chemical Engineering
 - Developing a fundamental understanding of the interfacial properties of nanosheets comprising chemically modified boron honeycomb lattice, Department of Science & Technology. Principal investigator: **Prof Kabeer Jasuja**, Chemical Engineering
 - Influence of humid environment and high temperature hydrogen exposure on thermophysical properties of Li_2TiO_3 and Li_4SiO_4 pebbles and its formation kinetics through solid-solid reaction, Board of Research & Nuclear Sciences. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
 - Development of smart, environment friendly and low-cost fire detection and suppression system, Uchchar Avishkar Yojana. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
 - Effective constraint handling for single and multi-objective optimization in cuckoo search algorithm: application to optimal control problems, Science & Engineering Research Board. Principal investigator: **Prof Nitin Padhiyar**, Chemical Engineering
 - DSIR - common research and technology development hub - chemical processes, Department of Scientific and Industrial Research. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
 - Theoretical and computational investigation of the role of transverse correlations in the thermal response of liquid-on-solid wetting behaviour, Science & Engineering Research Board. Principal investigator: **Prof Kaustubh Rane**, Chemical Engineering
 - Tuning structure and rheology of aggregated suspensions: influence of particle surface, concentration and anisotropic suspending medium, Science & Engineering Research Board. Principal investigator: **Prof Prachi Thareja**, Chemical Engineering

- Understanding the thermodynamics and kinetic factors affecting polymorphism of pharmaceuticals ingredients, Science & Engineering Research Board. Principal investigator: **Prof Sameer Dalvi**, Chemical Engineering
- Tuning oscillatory chemical reactions using metal nanoparticle graphene composites, Science & Engineering Research Board. Principal investigator: **Prof Pratyush Dayal**, Chemical Engineering
- Protein disaggregation mechanisms through surface patterning, Science & Engineering Research Board. Principal investigator: **Mithun Radhakrishna**, Chemical Engineering
- Enhancing shelf life of liquid foods by ultrasound assisted high pressure carbon, Council of Scientific and Industrial Research. Principal investigator: **Prof Sameer V Dalvi**, Chemical Engineering
- Development of safe and green technology for removal of paint from the surface of the ships for environment-friendly ship recycling, Global Marketing System (GMS). Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Theoretical investigations of carbohydrate-water interactions, Science & Engineering Research Board. Principal investigator: **Prof Sairam Swaroop Mallajosyula**, Chemistry
- Biomimetic catalyst design for the cathodic oxygen reduction reaction (ORR) in fuel cell, Science & Engineering Research Board. Principal investigator: **Prof Arnab Dutta**, Chemistry
- Aggregation induced emission in fluorescent materials: design, synthesis and applications, Board of Research & Nuclear Sciences. Principal investigator: **Prof Sriram Gundimeda**, Chemistry
- Developing amino acid containing, bio-inspired cobalt-based electrocatalysts for H₂ production under a broader chemical space, Science & Engineering Research Board. Principal investigator: **Prof Arnab Dutta**, Chemistry
- Reusable and field-deployable nanobiocatalysts for detection of pesticides and herbicides, IMPRINT project, Ministry of Human Resource Development. Principal investigator: **Prof Bhaskar Datta**, Chemistry
- Nanostructured conducting metal oxides for the electroreduction of CO₂ to make useful products, Science & Engineering Research Board. Principal investigator: **Prof Sudhanshu Sharma**, Chemistry
- Atomistic insight into the structural influences of competitive post-translational modifications; phosphorylation and O-GlcNAcylation, Department of Biotechnology. Principal investigator: **Prof Sairam Swaroop Mallajosyula**, Chemistry
- Immobilisation of co-salen complexes on electro-active surfaces and exploring their H₂ production reactivity, Shastri Institutional Collaborative Research Grant (SICRG). Principal investigator: **Prof Arnab Dutta**, Chemistry
- Development of nanoporous geopolymeric catalysts for industrially relevant liquid-phase reactions, Science & Engineering Research Board. Principal investigator: **Prof Sudhanshu Sharma**, Chemistry
- High impact weather events in Eur Asia selected, simulated and storified (HIWAVES3), Ministry of Earth Sciences (MoES). Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Equipment 300 kN universal testing m/c with accessories sanctioned under DST - Fund for the Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) program – 2016. Principal investigators: **Prof Gaurav Srivastava & Prof Amit Prashant**, Civil Engineering
- Evaluation of liquefaction of earthquake hazard of Kutch region, Ministry of Earth Sciences. Principal investigator: **Prof Ajanta Sachan**, Civil Engineering
- Dynamic properties of confined masonry buildings through ambient and forced vibration testing, Council of Scientific & Industrial Research. Principal investigator: **Prof Dhiman Basu**, Civil Engineering
- Detection of partial blockage in a pipe, Science & Engineering Research Board. Principal investigator: **Prof Pranab Kumar Mohapatra**, Civil Engineering
- River health analysis of Ramganga river basin – a geomorphologic approach, Centre for Ganga River Basin Management, IIT Kanpur. Principal investigator: **Prof Pranab Kumar Mohapatra**, Civil Engineering
- Statistical downscaling for hydro-climatic projections with CMIP5 simulations to assess the impacts of climate change, Ministry of Water Resources (MoWR). Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Impacts of climate variability and climate change on water resources in the Sabarmati river basin, Ministry of Water Resources (MoWR). Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Bidirectional interaction between perception and motor control, Wellcome Trust- Department of Biotechnology. Principal investigator: **Dr Neeraj Kumar**, Cognitive Science
- Parameterized methods in bioinformatics, Department of Science & Technology. Principal investigator: **Prof Neeldhara Misra**, Computer Science and Engineering
- Design of main memory architectures for next generation data centre servers, Science & Engineering Research Board. Principal investigator: **Prof Manu Awasthi**, Computer Science and Engineering
- Study of lunar geomorphological and impact cratering processes through Chandrayaan-1 data sets, Indian Space Research Organisation. Principal investigator: **Prof Vikrant Jain**, Earth Sciences
- Development of new water supply strategies in two major cities of India and Sri Lanka in the context of climate change, rapid urbanization and population growth: a vulnerability assessment approach, Asia Pacific Network (APN). Principal investigator: **Prof Manish Kumar**, Earth Sciences
- Development of new water supply strategies for Brahmaputra watersheds of India under climate change regime, Department of Science and Technology. Principal investigator: **Prof Manish Kumar**, Earth Sciences
- Special manpower development project- chips to system design (SMDP-C2SD), Department of Electronics & Information Technology- Central Electronics Engineering Research Institute (DEITY-CEERI). Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Towards ultra-thin optical wavefront manipulation devices based on all-dielectric high-efficiency transmissive metasurfaces: demonstration of beam focusing and investigation of polychromatic designs, Department of Science & Technology. Principal investigator: **Prof Ravi Hegde**, Electrical Engineering
- Design and implementation of acoustic beamforming systems in digital hearing aids, Department of Science & Technology. Principal investigator: **Prof Nithin V George**, Electrical Engineering
- Cost-effective integration of 20-40V n/p LDMOS devices in SCL's 0.18mm CMOS process, Department of Science & Technology. Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Reconnoitering digital image and video history (origin and tampering) using intrinsic signatures, Department of Science & Technology. Principal investigator: **Prof Nitin Khanna**, Electrical Engineering
- Zero-carbon solar-powered hydrogen production via plasmonic nanoantenna enhanced photocatalytic water-splitting, Department of Science & Technology. Principal investigator: **Prof Ravi Hegde**, Electrical Engineering
- Real-time concentration measurement of methane, water vapour, carbon dioxide and carbon monoxide in ethanol autothermal, Science & Engineering Research Board. Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering
- Development of high voltage (HV) devices for CCD (charge coupled device) clock drivers, Department of Space. Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Smart integrated campus energy monitoring and management system, Science & Engineering Research Board. Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering
- Data-driven intelligent energy management for environmentally sustainable energy access, Department of Science & Technology – UK-India Education and Research Initiative (UKIERI). Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering
- Development of a fiber-optic sensor network to monitor hazardous gas leaks in industrial plants, Royal Academy of Engineering (RAE), UK. Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering
- Mind eye: a low-cost, portable, easy-to-use, eye-tracking device integrated with computerized cognitive tests for early diagnosis of dementia at community level using big-data analytics in cloud under a highly affordable Software-As-A-Service model, Department of Biotechnology. Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- Nature' in Asia: biodiversity conservation in India, China and Bhutan, Social Science Research Council (SSRC). Principal investigator: **Prof Ambika Aiyadurai**, Humanities and Social Sciences
- A survey of aspects of British policies towards school education in Assam in the nineteenth and early twentieth centuries, Indian Council of Historical Research (ICHR). Principal investigator: **Prof Madhumita Sengupta**, Humanities and Social Sciences
- Development of cardiovascular disease and diabetes risk assessment model for diverse ethnic Indian population, Department of Biotechnology. Principal investigator: **Prof Malavika Subramanyam**, Social Sciences
- Grain boundary structure and transformations, Department of Science & Technology. Principal investigator: **Prof Abhay Raj Singh Gautam**, Materials Science and Engineering
- Fabricating TiO₂-based chemically stable, cost-effective transparent conducting oxide with industrial grade optoelectronic properties: Demonstrating its application in thin film solar cell, Science & Engineering Research Board.

- Principal investigator: **Prof Emila Panda**, Materials Science and Engineering
- Tethered AMPs for antibacterial surface coatings, Science & Engineering Research Board. Principal investigator: **Prof Abhijit Mishra**, Materials Science and Engineering
 - Advanced nanotracers for product life cycle assessment and product monitoring (IMPRINT), Ministry of Human Resource Department. Principal investigator: **Prof Superb Misra**, Materials Science and Engineering
 - Effect of oxidation on the magnetic properties of SmCo based permanent magnets, Defence Research and Development Organisation (DRDO). Principal investigator: **Prof Emila Panda**, Materials Science and Engineering
 - Development of indigenous technology for CZTS (Cu₂ZnSnS₄) absorber based solar cell using industry friendly magnetron sputtering and RTP (Rapid Thermal Processing) sulfuration process, Science & Engineering Research Board. Principal investigator: **Prof Emila Panda**, Materials Science and Engineering
 - To strengthen the post-graduate teaching & research facilities in the department, Department of Science & Technology. Principal investigator: **Prof Emila Panda**, Materials Science and Engineering
 - Grobner basis, syzygies and betti numbers of determinantal ideals, Science & Engineering Research Board. Principal investigator: **Prof Indranath Sengupta**, Mathematics
 - At the interface of analytic number theory and special functions, Science & Engineering Research Board. Principal investigator: **Prof Atul Abhay Dixit**, Mathematics
 - Asymptotic problems for stochastically perturbed switching dynamical systems, Science & Engineering Research Board. Principal investigator: **Prof Chetan Pahlajani**, Mathematics
 - Singular nonlinear elliptic equations: existence, uniqueness and qualitative questions, Science & Engineering Research Board. Principal investigator: **Prof Jagmohan Tyagi**, Mathematics
 - Geometry of moduli of real parabolic bundles, Science & Engineering Research Board. Principal investigator: **Prof Sanjaykumar Amrutiya**, Mathematics
 - Development of a robotic system for gait characterization and performance measurement, Department of Science & Technology. Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering
 - Towards predictive modeling of oxidation of nanoaluminum particles - a multiscale approach, Science & Engineering Research Board. Principal investigator: **Prof Dilip Srinivas Sundaram**, Mechanical Engineering
 - Development of a novel wearable cable-driven exoskeleton for robotic neurorehabilitation, Science & Engineering Research Board. Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering
 - Investigation of structure-property performance relations in hierarchical 3-D lattice structures, Science & Engineering Research Board. Principal investigator: **Prof Ravi Sastri Ayyagari**, Mechanical Engineering
 - Design & prototype demonstration of a CHCP system for scalable building energy use based on methanol powered fuel cell system, Department of Science & Technology. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering
 - Scale-up of diesel autothermal reformer from 5 kWe to 30 kWe for naval applications, IMPRINT project, MHRD. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering
 - Nonlinear acoustics of one and two dimensional granular media, Department of Science & Technology. Principal investigator: **Prof Jayaprakash K R**, Mechanical Engineering
 - Investigations on quark-gluon-plasma within the framework of relativistic dissipative hydrodynamics, Department of Science & Technology. Principal investigator: **Prof Vinod Chandra**, Physics
 - LHC studies of beyond the standard model physics, Science & Engineering Research Board. Principal investigator: **Prof Baradhwaj Coleppa**, Physics
 - Thermodynamics of black holes: general relativity and beyond, Science & Engineering Research Board. Principal investigator: **Prof Sudipta Sarkar**, Physics
 - Strong electromagnetic fields produced in heavy ion collisions and hot and dense QCD matter, Science & Engineering Research Board. Principal investigator: **Prof Vinod Chandra**, Physics
 - A Bayesian approach for CBC parameter reconstruction and tests of general relativity using amplitude-corrected post-Newtonian waveforms, Science & Engineering Research Board. Principal investigator: **Prof Anand Sengupta**, Physics
 - Fabrication and characterization of hybrid organic-inorganic nanocomposite thin films for photovoltaic application Resources, Science & Engineering Research Board. Principal investigator: **Prof Rupak Banerjee**, Physics
 - The dual origins of gravity – Vajra (Vajra faculty scheme), Science & Engineering Research Board. Principal investigator: **Prof Sudipta Sarkar**, Physics

CONSULTANCY PROJECTS

PROJECTS SANCTIONED DURING 2018-19

- Design of size reduction system and characterization of the micronized powders for D P pulveriser industries (DPPI), Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Consultancy services for developing real time solution for industries for Chemical Shoppe Private Limited (CSPL), Principal investigator: **Prof Sivapriya Kirubakaran**, Chemistry
- Site visit and extend opinion regarding admissibility of new construction of retrofitting / strengthening/repairing of ESI corporation regional office building at Ashram road, Ahmedabad for ESIC, Principal investigator: **Prof Dhiman Basu**, Civil Engineering
- Assistance for geotechnical investigation and design – Khonsa, Arunachal Pradesh for Water and Power Consultancy Services (WAPCOS). Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Water resources and climate change for United Nations Development Programme (UNDP). Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Testing cost for geotechnical investigation at Bhadbhut Barrage for KALPSR. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Techno economic feasibility of foundation system for solar parks/solar projects in Dholera

- SIR for Dholera Industrial City Development Limited (DICDL). Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Consultancy for geotechnical investigation at Bhadbhut Barrage for KALPSR. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- To assess effectiveness of FR ACP sheets compared to non-FR ACP sheets for Aludecor Lamination Pvt Ltd. Principal investigator: **Prof Gaurav Srivastava**, Civil Engineering
- Consultancy services for ground penetrating radar survey for underground cable detection for National High Speed Rail Corporation Limited (NHRCL). Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Collapse of part of wet section of soda ash plant of Nirma Ltd, Porbandar on Aug 1, 2018: site visit and preliminary investigation for United India Insurance Company Limited. Principal investigator: **Prof Dhiman Basu**, Civil Engineering
- Risk and uncertainty assessment for critical railway infrastructure due to impacts of climate change for Ministry of Environment, Forest and Climate (Govt of India). Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Conducting field trials and study of Garware Erosion Control Mat (RECP) at IITGN, for Garware Technical Fibres Ltd. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Improving seismic resilience of built environment in India for The World Bank, Principal investigator: **Prof Sudhir K Jain**, Civil Engineering
- Revision of Gujarat's State Action Plan on Climate Change (SAPCC) for Gujarat Energy Development Agency. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Technical advice on the use of geo-synthetics for strengthening of existing pavement under second Gujarat State Highway Project, Road & Buildings Department, GoG for LEA Associates South Asia Pvt Ltd. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Design of high performance concrete mix design of M60 and M80 grades, for Adani Wind Energy (Gujarat) Pvt Ltd. Principal investigator: **Prof Gaurav Srivastava**, Civil Engineering
- Imparting training to GETCO engineers at GETRI (2018-19), for Gujarat Energy Training and Research Institute (GETRI). Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering
- Deep learning of musical experiences from EEG for Playpower Labs, Inc. Principal investigator: **Prof Krishna Prasad Miyapuram**, Humanities and Social Sciences
- Conducting the elimination test for the position of Principal Scientific Officer for Gujarat Council on Science and Technology (GUJCOST). Principal investigator: **Prof Surya Pratap Mehrotra**, Materials Science & Engineering
- Control and automation lectures, for Adani Power (Mundra) Limited. Principal investigator: **Prof Madhu Vadali**, Mechanical Engineering
- Short course on Mechatronics, for Mahindra Technical Academy. Principal investigator: **Prof Madhu Vadali**, Mechanical Engineering

AWARDS AND RECOGNITION

Following faculty members of IITGN received special awards and recognition from external bodies during 2018-19:

Prof Kabeer Jasuja, Chemical Engineering, received the prestigious Indian National Academy of Engineering (INAE) **Young Engineer Award** for the year 2018

Prof Dhiraj Bhatia, Biological Engineering, received the prestigious **Ramanujan Fellowship** by the Science & Engineering Research Board (SERB)

Prof Uttama Lahiri, Electrical Engineering, and **Prof Prachi Thareja**, Chemical Engineering, received the prestigious **Prof Indira Parikh 50 Women in Education Leaders Award** in Mumbai at the World Education Congress on Sustainable Development Goals, Quality Education for All

Prof Sudhir K Jain, Director, IITGN, received the **Distinguished Alumni Award for Academic or Research Excellence** from IIT Roorkee (formerly known as University of Roorkee)

Prof Raj Srinivasan, Visiting Professor, Mathematics, IITGN, received the **J W George Ivany Internationalization Award**, one of the highest honors by the University of Saskatchewan, Canada

Prof Akshaa Vatwani, Mathematics, has received **INSPIRE Faculty Award**, Department of Science and Technology

Prof Vikrant Jain, Professor, Earth Sciences, has won the prestigious **National Geoscience Award** for the year 2018 in the category of Applied Geosciences

Centre for Creative Learning (CCL), IITGN, was awarded the first prize at the Vibrant Gujarat STEM Conference 2019. The paper titled "Making and Maker-Spaces: The Secret Sauce of Future-Proof Learning" was co-authored by **Prof Manish Jain**, **Prof Neeldhara Misra**, **Gaurav Kumar**, **Neeraj Kumar** and **Pankaj Godara**. Union HRD Minister **Shri Prakash Javadekar** presented the prize and citation to the team

Prof Babji Srinivasan, Chemical Engineering, received the **Distinguished Alumnus Award** from Madras Institute of Technology, Chennai on Jan 26, 2019

Prof Nipun Batra, Computer Science and Engineering, received **Microsoft Artificial Intelligence for Earth Grant** and **NVIDIA GPU** for the year 2018

Prof Manish Kumar Singh, Earth Sciences received the Faculty Research Award by Careers 360 for being the top 10 knowledge producers in India for the academic year 2017-2018 in Environmental Science Discipline and Waterquest **Award for Research Excellence 2019** by Waterquest Hydroresources Management India Pvt Ltd for outstanding contribution to the researchers in Water & Wastewater Segment in India

Prof Alok Kumar Kanungo, Archaeology received **SPARC Fellowship** to work on Indigenous cultural heritage as a facilitator for the sustainable development goals (with Prof Claire Smith of Flinders University)

Prof Tannistha Samanta, Humanities and Social Sciences received **Research Award** from Population Foundation of India, New Delhi. The award supported a pilot study on "The Virginity Industry: Hymenoplasty and disciplining desire in urban India" (Nov 2018-May 2019)

Prof Mayank Singh, Computer Science & Engineering received the **Early Career Research Award** by SERB-DST

Prof Vimal Mishra has been selected for the National Geophysical Research Institute (NGRI)-Association of Hydrologists of India (AHI) **Young Hydrologist Award** for the year 2015-16. This award is a recognition of his significant contributions to the field of hydrological sciences in India

Prof Arka Chattopadhyay, Humanities received Haskell-Block Grant to travel American Comparative Literature Association (ACLA) Annual Convention, March 2019



FACULTY CHAIR POSITIONS

Several well-wishers of the Institute have established endowed chair positions at IITGN to reward excellence, and help retain outstanding faculty. Three colleagues were awarded these chairs with effect from July 16, 2018:

- **Prof Jaison A Manjaly**, Associate Professor in Humanities and Social Sciences (Jasubhai Memorial Chair)
- **Prof Chinmay Ghoroi**, Associate Professor in Chemical Engineering (B S Gelot Chair)
- **Prof Nithin V George**, Assistant Professor in Electrical Engineering (TEOCO Chair)
- **Prof Jaichander Swaminathan**, Assistant Professor in Mechanical Engineering (Kanchan & Harilal Doshi Chair)

HONORARY AND EXTERNAL COMMITTEE WORK

Prof Ambika Aiyadurai, Humanities and Social Sciences

- Member, Organising committee, workshop on Trans-species listening and the rights of nature: Legal persons beyond the human, Duke University, USA, Oct 5, 2018

Prof Amit Arora, Materials Science and Engineering

- Central Advisory Board, ChemTech Student Outreach Program (SOP - 2018)

Prof Rupak Banerjee, Physics

- Committee member, Kishore Vaigyanik Protsahan Yojana (KVPY) interviews at IIT Gandhinagar, Feb 14-16, 2019

Prof Sudipta Basu, Chemistry

- Reviewer for journals: Manuscript for Nanoscale; Biochemistry and Advanced Therapeutics

Prof Arka Chattopadhyay, Humanities and Social Sciences

- Member, DSC committee for 3 PhD students

Prof Sameer Dalvi, Chemical Engineering

- External Member, Doctoral Committee for two PhD students, PDP, Gandhinagar
- Member, Board of Studies for BTech programme in Chemical Engineering, GSFC University
- Member, Board of Studies for MTech programme in Chemical Engineering, GSFC University
- Reviewer for journals: Crystal Engineering Communication; Journal of Colloids and Interface Science; Advanced Powder Technology; Colloids and Surfaces: Engineering and Physicochemical Aspects; Crystal Growth and Design; Langmuir; ACS Omega; International Journal Of Pharmaceutics; Drug Development & Industrial Pharmacy; Journal of the American Chemical Society
- Reviewer, Research proposal submitted to the Leading Fellows postdoc program, TU Delft

Prof Michel Danino, Humanities & Archaeological Sciences

- Nominated member, Indian National Commission for History of Science for three years (2018-20)

Prof Arnab Dutta, Chemistry

- External member, PhD defense committee, CSMCRI-CSIR, Bhavnagar
- Reviewer for journals: Journal of the American Chemical Society; ACS Catalysis; ACS Omega; Crystal Engineering Communication



FACULTY EXCELLENCE AWARDS

The following three faculty members were awarded the Faculty Excellence Awards for the year 2017-18 for their exemplary work in teaching, research and institution building.

- **Prof Sharad Gupta**, Excellence in Teaching Award
- **Prof Vinod Chandra**, Excellence in Research
- **Prof Nithin V George**, Excellence in Institution Building

Prof Krishna Kanti Dey, Physics

- Visiting Professor, Center for Soft and Living Matter, Institute of Basic Research, Ulsan, Republic of Korea

Prof Atul Dixit, Mathematics

- External thesis examiner of Soumyarup Banerjee, a PhD student at Harish-Chandra Research Institute
- Member, Editorial boards: Journal of the Ramanujan Mathematical Society; The Mathematics Student
- Member, Advisory Committee: International Conference on Number Theory and Graph Theory in honor of Prof Chandrasekhar Adiga, University of Mysore, June 27-29, 2019

Prof Nithin V George, Electrical Engineering

- Reviewer for journals: Applied Acoustics (Elsevier); Applied Soft Computing (Elsevier); Asian Journal of Control (Wiley); Circuits, Systems & Signal Processing (Springer); Digital Signal Processing (Elsevier); IEEE Access; IEEE/ACM Transactions on Audio, Speech and Language Processing; IEEE Transactions on Circuits and Systems I: Regular Papers; IEEE Transactions on Cybernetics; IEEE Transactions on Neural Networks and Learning Systems; IEEE Signal Processing Letters; Journal of Sound and Vibration (Elsevier); Neural Processing Letters (Springer); Signal Processing (Elsevier); Sadhana (Springer); The Journal of the Acoustical Society of America (ASA); The Journal of the Acoustical Society of America Express Letters (ASA)
- Sessions chaired: IEEE International conference on signal processing systems, Cape Town, South Africa, Oct 21-24 2018; Young Investigator Meeting, Boston, MIT Stata Centre, USA, May 26-28 2018
- External examiner (PhD Thesis): National Institute of Technology, Rourkela
- Reviewer for conferences: 25th National Conference on Communications 2019 (NCC 2019), IISc Bangalore; 2018 IEEE International Symposium on Signal Processing and Information Technology, Louisville, USA; 12th IEEE International Conference on Advanced Networks and Telecommunications Systems, Indore
- Associate Editor: Swarm and Evolutionary Computing (Elsevier)
- Member, Technical Programme Committee: Interspeech 2018, Hyderabad; 25th National Conference on Communications 2019 (NCC 2019), IISc Bangalore; 2018 IEEE International Symposium on Signal Processing and Information Technology, Louisville, USA; 8th International Conference on Advances in Computing, Communications and Informatics, Trivandrum

Prof Kabeer Jasuja, Chemical Engineering

- Peer reviewer for Scientific Reports: Carbon and Inorganica Chimica Acta
- Member, Editorial Board, Scientific Reports

Prof Sudhir K Jain, Civil Engineering

- Member, Board of Management, National Rail & Transport Institute, Vadodara
- Chairman and Director, IIT Gandhinagar Research Park & IIEC
- Member, Industry-Institute Interaction committee, Gujarat Chamber of Commerce & Industry, Ahmedabad

- Member, Governing Body of Gujarat Maritime University, Gandhinagar
- Member, Advisory Council for HSR (High Speed Rail Project Innovation Centre), New Delhi
- Jury Panel for the Infosys Prize 2019 in Engineering & Computer Science, Infosys Science Foundation
- Member, Expert Committee, SAARC Disaster Management Centre (SDMC), Gujarat
- Member, Selection-cum-Search Committee for the position of Vice-Chancellor, Banaras Hindu University, Varanasi
- Member, Board of Management, Indrashil University (IU) Dholera, Gujarat
- Member, Central Advisory Board of Education, Department of Higher Education, MHRD
- Member of the Board, Science and Engineering Research Board (SERB)
- Member, Board of Management, Building Materials & Technology Promotion Council (BMTPC)
- Member, National Committee on Higher Education, Confederation of Indian Industry (CII)
- Member, Board of Governors; Member, Institute of Infrastructure, Technology, Research and Management, Maninagar, Ahmedabad
- Member, Board of Governors, Pandit Dwarka Prasad Mishra-Indian Institute of Information Technology, Design and Manufacturing (PDPMIITD&M), Jabalpur
- Member, Board of Governors, Gujarat Power Engineering and Research Institute (GPRI), Mevad, Mehsana, Gujarat and Gujarat Power Education and Research Foundation (GPREF), Mevad, Mehsana, Gujarat
- Member, Board of Governors; Member, Academic Council; Member, Search Committee for the position of Provost, Anant National University, Ahmedabad
- Member, Search Committee for the position of Provost, Auro University, Surat
- Member, Search Committee for the position of Provost, GSFC University, Vadodara
- Independent Director on the Board, Gujarat International Finance Tec-City Co Ltd, Ahmedabad
- Independent Director on the Board, GIFT-SEZ Ltd, Ahmedabad
- Independent Director on the Board, Gujarat State Petronet Limited (GSPL)
- President, Ahmedabad Chapter, IIT Roorkee Alumni Association

Prof Sivapriya Kirubakaran, Chemistry and Bioengineering

- Invited speaker for International Organic Chemistry Symposium by NOST (National Organic Symposium Trust), Sep 2018
- Member, Research Progress Committee, Institute of Pharmacy, Nirma University
- Reviewer for journal: Journal of Chemical Sciences

Prof Alok Kumar Kanungo, Archaeology

- Consultant, Galleries on Ancient Indian Heritage and Indigenous Languages in Nehru Science Museums
- Reviewer for Homi Bhabha and ICHR Fellowships

Prof Manish Kumar, Earth Sciences

- Member, Core Committee, International Water Association (IWA)-Indian Chapter

- Technical Director, International Seminar on Land and Water Issues in SouthEast Asia, NERIWALM, Tezpur, Assam, Jan 18-20, 2018
- Elected as South Asian Convener, International Water Association (IWA) Specialist Group, Metals and Related Substances in Drinking Water (METRELS) since February 2018
- Guest Lead Editor: Contaminant Transport and Fate in Freshwater Systems – Integrating the fields of geochemistry, geomorphology and nanotechnology for Elsevier journal “Groundwater for Sustainable Development”
- Associate Editor: Hydrological Research Letters (HRL), an international journal published by the Japan Society for Hydrology and Water Resources (2016)
- Reviewed research proposal for Ministry of Earth Sciences (MoES)
- Reviewer for proposal for Vision 2019 organised by Physical Research Laboratory (PRL) on the occasion of the birth centenary year of Dr Vikram A Sarabhai
- Reviewer for journal: AGU journal G-Cube, J Hazardous Material
- Member, Technical Committee, Hazardous Substance and Handling Gujarat Pollution Control Board, Gandhinagar
- Member, Technical Committee (TCM) of EIA Gujarat Pollution Control Board, Gandhinagar Member, GPCB
- Co-organised a 5 day study camp workshop on Environmental Technology held from Aug 25-Sep 02, 2018 in Kanazawa and Toyama, Japan supported by the Asia Pacific Network
- Convener of NH8.1/HS5.13/SSS13.60 sessions on Arsenic and other contaminants in soil and groundwater: interventions for source control and regulatory compliance (co-organised) in European Geosciences Union (EGU) General Assembly 2018, Vienna Austria, Apr 13, 2018
- Convener of T3: Global/Regional Environmental Changes and their consequences at the 45th International Association of Hydrogeologist (IAH) Congress, Daejeon, South Korea during Sep 9-14, 2018

Prof Sharmistha Majumdar, Biological Engineering

- Member, Research consultation task force created to identify the research priorities, modalities and issues relevant to the state and come up with probable solutions through biotechnology interventions, GSBTM (Gujarat State Biotechnology Mission)
- Member, Executive Committee and Technical Advisory Committee, GSBTM, Government of Gujarat
- Member, Biothon Committee of Experts, GSBTM for Biothon 2018-19
- Member, Project Monitoring Committee, GSBTM Research Support Scheme for 2016, 2017 cycles
- Invited panel member for an interdisciplinary panel discussion on Research Communication, Indian Institute of Management, Ahmedabad, June 2018

Prof Joyce Mekie, Electrical Engineering

- Member, PhD committee (Shival Trivedi, Jayesh Diwan, Nirma University)
- Member, PhD committee (Amit Rathod & Payal Shah, Gujarat Technological University)
- Member, PhD Defense Committee (Patel Subhash Jagadishchandra, Gujarat Technological University)

- Masters thesis guided of external students (Neeshu Rai, Riya Pateliya, Vishwakarma Government Engineering College)

Prof Jyoti Mukhopadhyay, Materials Science and Engineering

- Member, Expert Committee, MIDHANI, Ministry of Defense held at NITI Aayog, New Delhi
- Expert Member, Project Monitoring Committee, SPARCH, BIRACH, Department of Biotechnology, Govt of India
- Panel Member, General Inspecting Authority for Maulana Azad Education Foundation (MAEF), Ministry of Minority Affairs, Govt of India
- Member, Advisory Committee, Mishra Dhatu Nigam Limited (MIDHANI), Govt of India
- Independent Director, Board of Directors, Mishra Nigam Limited (MIDHANI), Govt of India
- Reviewer for Elsevier Editorial: Journal Heliyon
- Member, Advisory Committee, Sharna Jayanti Endorsement Fund (SJEF), Indian Institute of Metals
- Member, Examination and Education Committee, Indian Institute of Metals

Prof Surya Pratap Mehrotra, Materials Science and Engineering

- Chairman, Research Advisory Council, Jawaharlal Nehru Aluminium Research, Development and Design Centre, Nagpur
- Member, Research Advisory Council, Non-Ferrous Technology Development Centre, Hyderabad
- Member, Projects Evaluation and Review Committee, Ministry of Mines, Govt of India
- Chairman, Monitoring Committee, Ministry of Steel's Chair Professor & Scholarships Scheme, Ministry of Steel, Govt of India
- Chairman, Empowered Board for the R&D, Project on development of microwave assisted iron making process, funded by the Ministry of Steel, Govt of India
- Council member, Indian Academy of Engineering
- Member, Fellowship Scrutiny Committee (Engineering Section of Physical Science); National Academy of Sciences; India Member of the Platinum Jubilee Young Scientist Award Committee
- Member of the Scrutiny Committee for National Geoscience Awards - 2018 for Section II
- Chairman, Ahmedabad Chapter of the National Academy of Sciences, India

Prof Amit Prashant, Civil Engineering

- Member of the Senate, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat
- Member of the Senate, IIT Jammu
- Member, Board of Studies of Civil Engineering, Nirma University
- Chairman, Indian Geotechnical Society, Ahmedabad Chapter
- Member, Research Council, Gujarat Technical University
- Member, BIS TC-39 Committee

Prof Uttama Lahiri, Electrical Engineering

- External Member, Research Advisory Committee of Kinjal Chaudhari pursuing PhD, Nirma University
- External Examiner, PhD Interview of Electrical Engineering, IITRAM

- External Expert, Board of Studies in Computer Science and Engineering, Faculty of Technology and Engineering, Nirma University

Prof Arnapurna Rath, Humanities and Social Sciences

- Primary Editor of a Festschrift Volume, entitled Critical essays in Literature, Language, and Aesthetics: A Volume in Honour of Milind Malshe, former Professor of English, Indian Institute of Technology Bombay (with Chandrani Chatterjee and Saroja Ganapathy)

Prof Tannistha Samanta, Humanities and Social Sciences

- Reviewer for journals: Social Science & Medicine; Genus: Journal of Population Sciences; Psychological Studies; Springer Nature; PLOS ONE; Journal of Family Issues; SAGE
- Panelist, Graduate Research Symposium, CEPT University, Feb 15-16, 2019
- Examiner, PhD Qualifying Exam, Faculty of Planning, CEPT University (2018-2019)
- Member, Dissertation Advisory Committee, Faculty of Planning, CEPT University (2018-2019)

Prof Mayank Singh, Computer Science and Engineering

- Member, Steering Committee, IndiaRxiv, the first preprint server of India
- Started NLP focused research group LINGO with broad aim of NLP for social good

Prof Umashankar Singh, Biological Engineering

- Lectures for interns at Akshaya Patra Foundation, Ahmedabad
- PhD thesis examination at Center for Research, M S University, Tirunelveli, Tamil Nadu

Prof Babji Srinivasan, Chemical Engineering

- Member, Technical Program Committee: 29th European Symposium on Computer Aided Process Engineering
- Doctoral Synopsis meeting at Kalasalingam University, July 25, 2018
- Reviewer for journals: Journal of Process Control; Computers and Chemical Engineering; AIChE; IEEE Systems and Magazine; Applied Energy; Industrial & Engineering Chemistry Research (I&ECR); Control Engineering Practice; ESCAPE conference

Prof Jagmohan Tyagi, Mathematics

- Reviewer for journals: Journal of Applied Mathematics and Computing; Asian European Journal of Mathematics; The Journal of the Ramanujan Mathematical Society (JRMS)

ACADEMIC LECTURES

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

Prof Ambika Aiyadurai delivered an invited lecture on **Hunting in northeast India and the challenges of**

implementing wildlife protection act, Ahmedabad University, Mar 5, 2019

Prof Amit Arora delivered a series of invited lectures on **Methods for making metal stronger – Heat treatment strengthening/mechanism**, 3-day course on **Metallurgy for non-metallurgist**, Centre of Excellence-Welding, LD College of Engineering, July 05, 2018; **Friction stir welding: modeling and simulation**, Expert Lecture, TEQIP III sponsored STTP on Manufacturing Process Modeling & Simulation (MPMS-2018), June 05, 2018; **Welding metallurgy**, Train the trainers – short term course on Welding, ASM Gujarat Chapter & Department of Technical Education, Centre of Excellence-Welding, LD College of Engineering, June 01, 2018; **Anti-corrosion techniques** training program, Gujarat Maritime Board, IITGN, May 25, 2018; **Metal joining/metal cutting**, training program, Gujarat Maritime Board, IITGN, May 18, 2018; **Marine corrosion**, training program, Gujarat Maritime Board, IITGN, May 17, 2018

Prof Nipun Batra, delivered invited lectures on **An introduction to machine learning**, KSV Gandhinagar, Feb 16, 2019; **Machine learning for smart grid**, IIT Bombay, Jan 14, 2019; **Machine learning for India**, ICTDX, IIM Ahmedabad, Jan 5, 2019

Prof Rupak Banerjee delivered invited talks at National conference on **Tailoring self-assembly and ligand exchange of nanocrystal superlattices, emerging trends in spectroscopy: molecules to materials**, IITRAM, Ahmedabad, Oct 06, 2018; **Phase transitions in amphiphilic layers of silsesquioxanes molecules at the air-water interface**, Institute of Applied Physics seminar, University of Tuebingen, Tuebingen, Germany, May 28, 2018

Prof Sudipta Basu gave invited talks on **Supramolecular nanoparticle for impairing endoplasmic reticulum in cancer cells**, National conference on Cellular and Molecular Basis of Cancer: Molecules to Mechanisms, University of Pune, Feb 08, 2019; **Supramolecular nanoparticle for impairing endoplasmic reticulum in cancer cells**, 15th International Conference on Polymer Science and Technology, IISER, Pune, Dec 03, 2018

Prof Svetlana Brzev delivered invited lectures on **Need of reinforcement in masonry for safe and sustainable development**, Symposium on Current Challenges for Safe and Sustainable Structural Development, Pandit Deendayal Petroleum University, Gandhinagar, Mar 27, 2019; **Seismic retrofitting of masonry buildings**, National Colloquium on Advancements in Seismic Design of Masonry Structures, Nirma University, Ahmedabad, Jan 31, 2019; **Seismic design and detailing of confined masonry buildings**, National Colloquium on Advancements in Seismic Design of Masonry Structures, Nirma University, Ahmedabad, Jan 30, 2019

Prof Nishaant Choksi delivered an invited lecture on **Translating expressives in South Asian literature**, Centre for English Studies, Central University of Gujarat, Gandhinagar, Mar 18, 2019

Prof Arka Chattopadhyay delivered invited talks on **Towards a World Form' in regional world literature**, ACLA

2019 Annual Convention in a self-proposed panel on Towards a regional World literature, Mar 07-10, 2019; **Margins of city, region and nation: politics and representation in Bengali literature and cinema**, International Conference on Region/nation/trans-nation: literature-cinema interface, Department of Humanities & Social Sciences, Birla Institute of Technology & Science, Pilani, K K Birla Goa Campus, Jan 31 – Feb 02, 2019; **Is there a mental parallax?** Beckett and Psychic Distance, MLA Annual Convention 2018, New York, US, Samuel Beckett Society Panel, Jan 06, 2018; Masterclass on Close Reading Conference 2018, Western Sydney University Interventions and Intersections, July 2018

Prof Sameer Dalvi delivered guest lectures on **How to write a research article**, Thesis Writing workshop, Nirma University, Ahmedabad, Mar 15, 2019; **Industry - Academia Interaction**, Samnvaya-2019 organised by GSFC, Baroda, Feb 07, 2019; **Engineering aqueous colloidal suspensions for pharmaceutical and biomedical engineering: aqueous suspensions of drug nanoparticles and gaseous microbubbles**, Symposium on Recent trends in chemical engineering, L D College of Engineering, Sep 18, 2018; **Engineering microbubbles for biomedical applications**, 7th Interdisciplinary Symposium on Materials Chemistry (ISMC 2018), BARC, Mumbai, Dec 06, 2018

Prof Michel Danino delivered invited lectures on **India's gifts of science to other cultures**, Endowment lecture at a Seminar on Indian Sciences and Manuscriptology, Prof K V Sarma Research Foundation, Chennai, Mar 23-24, 2019; **Accident-prone science in ancient India**, International Symposium on Astral Sciences in Asia, IIT Bombay, Jan 24-26, 2019; **Integrating ancient Indian Science and Technology in India's educational system**, National Conference on Ancient Indian Knowledge: Science and Technology, NCERT, New Delhi, July 17–19, 2018; **Is India a secular nation? An unvarnished look at India's many brands of secularism**, 2nd Shri Bankim Chandra Chattopadhyay Memorial Lecture, IIT Madras, Apr 23, 2018

Prof Krishna Kanti Dey delivered invited talks on **Impulsive enzymes: a new force in mechanobiology**, Nano Life Science Institute, Kanazawa University, Japan, Mar 06, 2019; **Chemically propelled molecules and machines**, Department of Chemistry, University of Toronto, Canada, Oct 02, 2018; **Dynamics of active enzymes in solutions**, Center for Soft and Living Matter, Institute of Basic Science, South Korea, Apr 04, 2018

Prof Atul Dixit delivered invited lectures on **Odd zeta values and analogues of Eisenstein series**, International Conference on Number Theory (ICNT) 2019, IISER Thiruvananthapuram, Mar 11, 2019; **On values of the Riemann zeta function at odd positive integers**, Mathematics seminar, Ramakrishna Mission Vivekananda Educational and Research Institute, Kolkata, Mar 06, 2019; **On values of the Riemann zeta function at odd positive integers**, Mathematics seminar, IIT Kanpur, Jan 25, 2019; **The beauty of Ramanujan's mathematics prachin bharat ke vaigyanik aur unke avadaan**, Gorakhpur University, Jan 23, 2019; **Ramanujan's formula for zeta(2n+1) and subsequent developments**, Algebra, Geometry and Number Theory Seminar, University of Saskatchewan, Canada, June 28,

2018; **Ramanujan's formula for zeta (2n+1) and subsequent developments**, Number Theory Seminar, Queen's University, Canada, June 27, 2018; **Partitions implications of a three-parameter q-series identity Combinatory Analysis 2018**, A conference in honour of George E Andrews 80th birthday, Pennsylvania State University, USA, June 21-24, 2018; **Ramanujan's formula for odd zeta values and subsequent developments**, Remembering Ramanujan: The Indian Mathematical Genius, Tezpur University, Apr 26, 2018; **Partitions and overpartitions associated with some third order mock theta functions**, Remembering Ramanujan: The Indian Mathematical Genius, Tezpur University, Apr 26, 2018

Prof Arnab Dutta gave invited lectures on **Implementing nature's blueprint: incorporating outer sphere functionalities to activate dormant Cobalt-Salen like complexes for catalytic H₂ production**, National Symposium on Celebrating International Year of Periodic Table-2019, Bankura University, Mar 18, 2019; Plenary lecture on **Inclusion of enzyme inspired outer coordination features induces catalytic activity in co-salen like complexes**, 32nd International Conference on Indo-Canadian multidisciplinary research: Trends and Prospects, IITRAM, Dec 28-29, 2018; **Developing efficient H₂ production catalysts by designing peripheral proton channels**, National Conference on Advances in Spectroscopy: Molecules to Materials, IITRAM, Oct 4-6, 2018; **Inclusion of enzyme-inspired auxiliary proton channel in the outer coordination sphere to improve H₂ production catalytic activity for Cobalt dimethylglyoxime complexes**, Labex, Grenoble, France, July 17-18, 2018

Prof Nithin V George delivered invited talks on **Alpha to delta of digital signal processing**, Marwadi University, Rajkot, Mar 30, 2019; **Alpha to delta of digital signal processing** at one-week faculty development programme on Signal Processing and Data Mining Techniques for Research using Matlab, Malaviya National Institute of Technology, Jaipur, Rajasthan, Mar 27, 2019; **Fuzzy logic control systems: a quick introduction**, National workshop on Artificial Intelligence with Deep Learning, Swami Keshvanand Institute of Technology, Jaipur, Rajasthan, Mar 26, 2019; **Fundamentals of adaptive signal processing**, Faculty development programme on Research Opportunities in VLSI and Signal Processing, Vishwakarma Government Engineering College, Ahmedabad, Feb 14, 2019; **A quick introduction to neural networks**, Short term training programme on Python and its Applications, BVM Engineering College, Anand, Gujarat, Dec 01, 2018; **Alpha to delta of digital signal processing**, National Institute of Technology Agartala, Tripura, Apr 11, 2018

Prof Iti Gupta delivered invited talks on **Bridged Bis-BODIPYs: synthesis & studies**, 10th International Conference of Porphyrins & Phthalocyanines (ICPP-10), Munich, Germany, July 01-06, 2018; **BODIPYs and Aza-BODIPYs: synthesis and properties**, National Conference on Applied Materials Science, Central University of Gujarat, Gandhinagar, Apr 06-07, 2018

Prof Sudhir K Jain was invited as a resource person to deliver a lecture on **Indian Universities: Challenges and**

Opportunities for the Leadership, in the Leadership Development Programme for Higher Education (LEAP), conducted by IIT Roorkee (GNEC, Noida) Nov 20, 2018; Indian Institute of Technology (BHU), (Varanasi, Feb 26, 2019), and IIT Bombay, (Mumbai, Feb 27, 2019)

Prof Kabeer Jasuja delivered five lectures on **Materials morphology** at Japan Advanced Institute of Science & Technology, Japan, June 2018

Prof Alok Kumar Kanungo delivered invited talks on **Beads: Naga society and culture and agate beads industries of Khambhat, Gujarat: Tradition and change** (with Prof J M Kenoyer, K K Bhan and M Vidale), Art and Archaeology of North-east India: Connections with South-east Asia, Allahabad Museum, Mar 17, 2019; **Glass in ancient Indian texts vis-à-vis archaeology and glass crafts in northern India**, Winter School Beads and Seals: Technologies, Padua University, Jan 14-18, 2019; **Pushing boundaries in the scientific investigation of glass: a new project to source ancient Indian glass** (with Laure Dussubieux, Thomas Fenn and Shinu Abraham), Glass in Ancient India: An archaeological, literature and ethnographic evaluation, Rajasthan vidyapeeth, Udaipur, Sep 03, 2018; **Excavations at Kopia: glass in ancient India**, Institute of Archaeology, Archaeological Survey of India, New Delhi, Apr 11, 2018; **The Nagas and their cultural affinities with Southeast Asia**, Society of American Archaeology, 83rd Annual Meeting, Washington DC, Apr 11-15, 2018

Prof Sivapriya Kirubakaran delivered invited lectures on **Targeting kinases of DNA damage and repair pathway – new age cancer therapeutics**, Royal Society of Chemistry (RSC) Symposium (RAOBC), IISER Mohali, Mar 21-24, 2019; **Targeting kinases: our journey towards cancer therapeutics**, National Symposium on Drug Discovery and translational medicine, Annamalai University, Mar 14-16, 2019; **Helicobacter pylori: are we targeting a pathogen or a carcinogen?** AHEH, Indo-UK conference, Bishop Haber college, Trichy, Feb 2-6, 2019; **Targeting “druggable” DDR kinases: Novel therapeutics towards specific cancer**, Prestigious NOST Symposium, Sep 2-6, 2018; **Pleasure of doing science**, Inauguration of Summer training program, University of Madras, May 28, 2018; **Helicobacter pylori: A pathogen or a carcinogen?** Keynote lecture at National Conference, Karunya University, Coimbatore, Apr 4-6, 2018

Prof Manish Kumar delivered lectures on **Metal pathways in the context of climate change and urbanization**, Indo-US Bilateral Workshop on Water-Food-Energy-Climate nexus: A perspective towards a sustainable future (WFEC nexus-2018), BHU, Varanasi, Nov 16-21, 2018; **Emerging water contaminants in Sri Lanka and India**, Advances in Civil and Environmental Engineering Practices for Sustainable Development (ACEPS-2018), Sri Lanka, Mar 15, 2018. Prof Manish also delivered special RECWET guest lecture on **Water quality issues of the tropical river watershed in the context of climate change, urbanization and population growth: a microcosmic perspective of the Brahmaputra river**, University of Tokyo, Japan, Jan 23, 2018; **Water supply scenario in India and Sri Lanka**, Kanazawa and Toyama, Japan supported by Asia Pacific Network, Aug 25, 2018; **Metal pathways through land and water with special**

emphasis on geogenic contaminants, International Seminar at 2018 NERIWALM, Tezpur, Assam, Jan 18-20, 2019; Oral presentation on **Multilayer groundwater investigation a predictive tool for arsenic mobilization and aquifer safety: Insights from an aquifer in the Brahmaputra flood plain; and comparative understanding of mechanism prevailing in the arsenic hotspot of the Ganga and the Brahmaputra floodplains of India**, 45th IAH Congress, Groundwater and Life: Science and Technology into Action, Daejeon, Korea Sep 9-14, 2018; **Co-contamination perspective of arsenic, fluoride and uranium in the groundwater of Majuli Island, Brahmaputra Floodplain, Assam**, 45th IAH Congress, Groundwater and Life: Science and Technology into Action, Daejeon, Korea, Sep 9-14, 2018. Prof Manish Kumar is a keynote speaker at the symposium on Advances in Civil and Environmental Engineering Practices for Sustainable Development (ACEPS-2018), Sri Lanka, Mar 15, 2018

Prof Joycee Mekie delivered an expert lecture on **Approximate memories for multimedia applications** at GTU organised by ISTE-GTU as a part of faculty development program on Research Opportunities in VLSI and Signal Processing, Feb 11-16, 2019

Prof S P Mehrotra delivered an invited lecture on **Materials/ metallurgical engineering undergraduate curriculum: challenges and opportunities** at Daya Swarup Memorial Lecture, Indian Institute of Metals, Kolkata, Nov 14, 2018

Prof Angus McBlane delivered invited lectures on **Corporealising practices: expressive bodies and posthuman subjects**, Seminar on Self/Other, Calicut University, Calicut, Kerala, Mar 6-8, 2019; **Defining internationalisation**, Going Global in Higher Education (GGHE-2k19), Government Arts and Science College, Karwar, Karnataka. Feb 28-Mar 01, 2019

Prof Arnapura Rath delivered an invited lecture on **The chronology of western critical theories**, Department of Culture Studies, Utkal University of Culture, Odisha, July -Sep 2018

Prof Tannistha Samanta delivered an invited talk on **Globalization, family and social change in India**, Faculty of Planning Lecture Series, CEPT University, Ahmedabad, Apr 16, 2019

Prof Babji Srinivasan delivered an invited lecture on **Role of big data in cyber-physical systems**, Kalasalingam University, Nov 23, 2018

Prof Prachi Thareja invited for poster presentation on **Applications of colloidal self assembly, confinement and electric field on rheology, microstructure of colloidal particles-in-liquid crystal suspensions**, IUTAM Symposium on Dynamics of Complex Fluids and Interfaces, IIT Kanpur, Dec 17-20, 2018. Prof Thareja delivered an invited talk on **Implications of colloidal self assembly, confinement and external fields on rheology of colloidal particles-in-liquid crystals**, 3rd International Conference on Soft Materials, Jaipur, Dec 09-14, 2018; **Graphene oxide gels and thin films**, 12th International Conference on Complex Fluids and Soft

Prof Jagmohan Tyagi delivered invited talks on **Bifurcation from infinity to fractional laplace equations**, 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Taipei, Taiwan, July 05-09, 2018; **Existence theorems and solvability analysis in ordinary differential equations**, during a summer school, St Xavier's College, Ahmedabad, May 31, 2018; **Fredholm alternative and solvability analysis of elliptic PDEs**, National Conference on Applied Mathematical Sciences (NCAMS-2018), Department of Mathematics, Gujarat University, Ahmedabad, Apr 14-15, 2018

Prof Umashankar Singh delivered an invited lecture on **Regulation of chromatin function by CGGBP1 CTCF axis** at SERB Meeting, Jawaharlal Nehru University, New Delhi, Apr 29, 2018

Prof Madhumita Sengupta delivered an invited lecture on **Leading the Indian national movement: a historical assessment of Mahatma Gandhi's role**, As part of "Gandhi at 150, A weeklong distinguished lecture series, organised by the Centre for Gandhian thought and Peace Studies, School of Social Sciences, Central University, Gujarat, Jan 07-11, 2019

Prof Akshaa Vatwani delivered invited talks on **Logarithmic mean values of multiplicative functions**, Conference on Number Theory, Kerala School of Mathematics, Kozhikode, Dec 14, 2018; **Variants of equidistribution in arithmetic progressions**, Mathematics department seminar, IISER Bhopal, Oct 9, 2018

Prof Vijay Thiruvengatam delivered invited lectures on **Targeting gamma-secretase activating protein (GSAP): An integral membrane protein involved in neurodegenerative diseases**, Department of Biochemistry and Biotechnology, Conference on Drug Discovery & Translational Medicine (DDTM-2019), Annamalai University, Mar 14-16, 2019; **Co-crystallization of gefitinib: an anticancer drug**, India-UK, 2nd International Conference on Advanced Nanomaterials for Energy, Environment and Healthcare Applications - ANEH-2019, Bishop Heber College, Tiruchirappalli, Tamil Nadu, Feb 04-06, 2019; **Gamma-secretase activating protein (GSAP) as a profound target for Alzheimer's disease**, 5th National Seminar on Recent Advances in Drug Discovery 2018 (RADD-2018), Institute of Pharmacy, Nirma University, Ahmedabad, Sep 28, 2018; **Investigating mechanistic and structural features of gamma-secretase activating protein (GSAP): an Integral membrane protein involved in neurodegenerative diseases**, Gordon Research Conference on Molecular Structure Elucidation, Jordan Hotel at Sunday River in Newry, ME, United States, Aug 12-17, 2018; Summer Training Programme in Physics (STPIP), The Academy of Sciences and Science City, Chennai, May 26, 2018; **Engineering proteins and small molecules to study their structure and function via x-ray crystallography**, National Conference on Molecules and Materials for Sustainable Development, NCMM 2018, Department of Chemistry, Karunya Institute of Technology and Sciences (Deemed to be University), Coimbatore, Tamil Nadu, Apr 06, 2018

OTHER FACULTY ACTIVITIES

Prof Sharmistha Majumdar has organised Vigyan Jyoti, a new DST scheme which aims at increasing the participation of women in STEM fields by making focused interventions during the early years of education. The 2-week residential program ran from June 18 -July 02, 2018

Prof Arnapurna Rath organised a panel discussion at IIT Gandhinagar on the Changing role of women in the age of the digital, Invited speakers hailed from IIT Indore, DAIICT, IIT Gandhinagar, BBC World Services, Mar 12, 2019

Prof Prachi Thareja organised four seminars at IITGN - Spray drift control and deposition adjuvants for agricultural applications, Dr Rajesh K Goyal, Materials Lab Manager at Solvay R&I centre, Aug 16, 2018; Design of antimicrobial contact lenses, Prof Mark Wilcox, School of Optometry and Vision Science, University of New South Wales, Sydney, Australia, Feb 01, 2019; Pharmacokinetic factors in ocular drug delivery system design, Prof Arto Urtti, Professor of Pharmacy at the University of Helsinki, Finland, Feb 01, 2019; Co-host for Role of Mechanics in Cell Patterning, Dr Abhijit Majumder, Department of Chemical Engineering, IIT Bombay, Mar 29, 2019

Prof Madhumita Sengupta coordinated the HSS seminar series, 'Dialogues' since January 2018. This semester, four speakers from other institutions delivered lectures at IITGN as part of the 'dialogues' seminars. The speakers include, Frederick I Coolidge, Professor of Psychology, University of Colorado, Colorado Springs, who delivered a talk on 'Why Chomsky is a language creationist' on Jan 31, 2019; Prof Nancy Neiman (Professor of International Political Economy, Department of politics, Scripps College in Claremont, California, who delivered a talk on Infrastructures of justice', on Feb 20, 2019; Nishant Gokhale (Research fellow at the Bhasha Research and Publication Centre in Baroda and Adivasi Academy) who spoke on 'Life imprisonment in india: a short history of a long sentence' on Apr 24, 2019; Karthik Rao Cavale, School of Arts and Sciences at Ahmedabad University, who spoke on 'Between exclusion and autonomy: the mobility/moorings dialectic and the reconstitution of village communities in the tamil countryside' on Mar 27, 2019

Prof Akshaa Vatwani organised jointly with Prof Chetan Pahlajani for Mathagon, annual outreach mathematics event, Jan 19, 2019

Prof Manish Kumar Singh, Earth Sciences organised a brainstorming session on River Pollution Status in Gujarat "River Sutra" in association with the Times of India, Dec 14, 2018. And also organised a workshop on Campus sustainability and water and a training program on DNA extraction and scanning pathogen in natural water under UKIERI (UK-India Education and Research Initiative)

PUBLICATIONS

DOCUMENT TYPE	NUMBER OF PUBLICATIONS
Book chapters	26
Journal papers	287
Papers presented at conferences	192
Posters presented	50
Magazine/newspaper articles	27
Others	18
Books	7
Books edited	3
E-Print archives	68
Foreword	1
Reviews	5

ARCHAEOLOGICAL SCIENCES

BOOK CHAPTERS

Misra, Sandhya# and Misra, Krishna G, "Phytoremediation: an alternative tool towards clean and green environment", in *Sustainable Green Technologies for Environmental Management*, DOI: 10.1007/978-981-13-2772-8-5, Springer, pp 87-109, Mar 2019, ISBN: 9789811327711, 9789811327728

Journal Papers

Banerjee, Ruman*; **Prabhakar, V N** and Bisht, R S, "Harappan blade implements: a literature review and future perspectives", *Heritage: Journal of Multidisciplinary Studies in Archaeology*, vol 6, pp 276-298, Dec 2018

Banerjee, Ruman*; **Srivastava, Prashant K**; **Pike, A W G** and **Petropoulos, George P**, "Identification of painted rock-shelter sites using GIS integrated with a decision support system and fuzzy logic", *ISPRS International Journal of Geo-Information*, DOI: 10.3390/ijgi7080326, vol 7, no 8, Aug 2018

BIOLOGICAL ENGINEERING

JOURNAL PAPERS

Angira, Deekshi*; **Shaik, Althaf***; **Kirubakaran, Sivapriya** and **Thiruvengatam, Vijay**, "Exploring a solvated dimer of Gefitinib: a quantitative analysis", *Acta Crystallographica Section C: Structural Chemistry*, DOI: 10.1107/S2053229618009671, vol 74, no 8, Aug 2018

Jangra, Sachin*; **Purushothaman, Gayathri***; **Juvala, Kapil**; **Ravi, Srimadhavi***; **Menon, Aishwarya#**; **Kirubakaran, Sivapriya** and **Thiruvengatam, Vijay**, "Synthesis and in vitro Enzymatic Studies of new 3-Aryldiazonyl Indoles as Promising Helicobacter Pylori IMPDH Inhibitors", *Current Topics in Medicinal Chemistry*, DOI: 10.2174/1568026619666190227212334, vol 19, no 5, pp 376-382, Feb 2019

Juvala, Kapil#; **Purushothaman, Gayathri***; **Singh, Vijay#**; **Shaik, Althaf***; **Ravi, Srimadhavi***; **Thiruvengatam, Vijay** and **Kirubakaran, Sivapriya**, "Identification of selective inhibitors of Helicobacter pylori IMPDH as a targeted therapy for the infection", *Scientific Reports*, DOI: 10.1038/s41598-018-37490-x, vol 9, no 1, Jan 2019

Kumar, Neeraj#; **Kumar, Adarsh***; **Sonane, Bhoomika*** and **Mutha, Pratik K**, "Interference

between competing motor memories developed through learning with different limbs", *Journal of Neurophysiology*, DOI: 10.1152/jn.00905.2017, vol 120, no 3, pp 1061-1073, Sep 2018

Bhakuni, Rashmi*; **Shaik, Althaf*** and **Kirubakaran, Sivapriya**, "Evaluation of MBP tagged-hATR kinase domain catalytic activity with p53 Ser-15 phosphorylation", *Biochemistry*, DOI: 10.1021/acs.biochem.8b00845, vol 57, no 47, pp 6592-6603, Nov 2018

Chilka, Pallavi*; **Desai, Nakshi*** and **Datta, Bhaskar**, "Small molecule fluorescent probes for G-Quadruplex visualization as potential cancer theranostic agents", *Molecules*, DOI: 10.3390/molecules24040752, vol 24, no 4, Jan 2019

Guru Krishnakumar, V*; **Baweja, Lokesh#**; **Ralhan, Kritika*** and **Gupta, Sharad**, "Carbamylation promotes amyloidogenesis and induces structural changes in Tau-core hexapeptide fibrils", *Biochimica et Biophysica Acta (BBA) - General Subjects*, DOI: 10.1016/j.bbagen.2018.07.030, vol 1862, no 12, pp 2590-2604, Dec 2018

Jana, Palash*; **Patel, Nishaben***; **Soppina, Virupakshi** and **Kanvah, Sriram**, "Cationic red-emitting probes for the rapid and selective detection of SO₂ derivatives in aqueous and cellular environments", *New Journal of Chemistry*, DOI: 10.1039/C8NJ04669G, vol 43, no 2, pp 584-592, Jan 2019

Panjwani, Bhawna*; **Gupta, Sharad** and **Thareja, Prachi**, "Ovalbumin at oil-water interfaces: Adsorption and emulsification", *Journal of Dispersion Science and Technology*, DOI: 10.1080/01932691.2017.1384387, vol 39, no 8, pp 1126-1133, Aug 2018

Patel, Divyesh*; **Patel, Manthan***; **Westermarck, Bengt** and **Singh, Umashankar**, "Dynamic bimodal changes in CpG and non-CpG methylation genome-wide upon CGGBP1 loss-of-function", *BMC Research Notes*, DOI: 10.1186/s13104-018-3516-1, vol 11, Jul 2018

Purushothaman, Gayathri* and **Thiruvengatam, Vijay**, "Qualitative and quantitative analysis of intermolecular interactions in xanthenedione derivatives", *Acta Crystallographica Section C: Structural Chemistry*, DOI: 10.1107/S205322961800832X, vol 54, no 7, Jul 2018

Sanghavi, Hiral M*; **Mallajosyala, Sairam S** and **Majumdar, Sharmistha**, "Classification of the human THAP protein family identifies an evolutionarily conserved coiled coil region", *BMC Structural Biology*, DOI: 10.1186/s12900-019-0102-2, vol 19, no 1, Mar 2019

PAPERS PRESENTED AT CONFERENCES

Dodla, Ankit* and **Datta, Bhaskar**, "DNA secondary structure assisted controlled immobilization strategy", *3rd Functional DNA Nanotechnology Workshop*, Rome, IT, Jun 6-8, 2018

Gadhavi, Joshna* and **Gupta, Sharad**, "Amyloid formation monitoring in peptides using fluorescamine", *13th Anniversary India-Japan Fest BICON-2018 Biyani's International Conference*, Jaipur, IN, Nov 25-28, 2018

Guru Krishnakumar, V*; **Taki, Kaling***; **Gupta, Sharad** and **Sachan, Ajanta**, "Improving "Shrinkage-Swelling" response of expansive soil using bio-calcite and exo-polysaccharide produced by bacillus sp", *International Association for Computer Methods and Advances in Geomechanics*, IIT Gandhinagar, IN, Mar 4-7, 2019

Hivare, Pravin*; **Guru Krishnakumar, V*** and **Gupta, Sharad**, "Multi stage aggregation mechanism of Bovine Serum Albumin under

reduced environment", *13th Anniversary India-Japan Fest BICON-2018 Biyani's International Conference*, Jaipur, IN, Nov 25-28, 2018

Singh, Neeru#; **Bhakuni, Rashmi*** and **Kirubakaran, Sivapriya**, "High MDC1 expression in cervical cancer cells can affect the chemo and radio- therapeutic response as it inhibition leads to increased cell death", *109th Annual meeting of American association for cancer research (AACR 2018)*, Chicago, US, Apr 13-18, 2018

POSTERS PRESENTED

Bhoir, Siddhant*; **Singh, Vibha**; **Hussain, Javeena***; **Chikhale, Rupesh**; **Bryce, Richard**; **Kirubakaran, Sivapriya** and **De Benedetti, Arrigo**, "Design, synthesis and biological evaluation of new phenothiazine derivatives as potential tousel-like kinase 1 inhibitors in prostate cancer treatment", *Annual Meeting of American Association for Cancer Research (AACR 2019)*, Atlanta, US, Mar 29 - Apr 3, 2019

Gadhavi, Joshna*; **Hivare, Pravin*** and **Gupta, Sharad**, "Effect of carbamylation on aggregation propensity of α -synuclein", *43rd Indian Biophysical Society Meeting*, Indian Institute of Science Education and Research Kolkata, IN, Mar 15-17, 2019

Hivare, Pravin*; **Guru Krishnakumar, V*** and **Gupta, Sharad**, "Mechanism of bovine serum albumin aggregation under reduced environment", *International Conference on Molecular Basis of Diseases and Therapeutics (ICMBDT-2019)*, Central University of Rajasthan, Ajmer, Mar 8-10, 2019

K, Meena* and **Majumdar, Sharmistha**, "Characterization of THAP9 - an immobilized transposon", *42nd All India Cell Biology Conference and 2nd International Conference on Trends in Cell and Molecular Biology*, Department of Biological Sciences, BITS Pilani, K K Birla Goa Campus, Goa, IN, Dec 21-23, 2018

K, Meena* and **Majumdar, Sharmistha**, "Characterization of THAP9 - an immobilized transposon", *Annual meeting of Biological Engineering Society of India (BESCON)*, IIT Bombay, IN, Oct 26-27, 2018

Majumdar, Sharmistha, "The evolution of a transposase: why do some genes jump?", in *the India, EMBO Symposium on Regulatory epigenomics: From large data to useful models*, Chennai, IN, Mar 10-13, 2019

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INFRASTRUCTURE AND FACILITIES

PERMANENT CAMPUS DEVELOPMENT

The successful completion of phase 1 of the construction has been widely appreciated with the Institute recently winning two major awards. IITGN won the **Yes Bank Natural Capital Award 2018** under the Eco campus category. This award required competing “educational institutes to demonstrate their sustainability initiatives which will become the guiding star for the students and future managers”. IITGN has also been certified with a **5 Star rating under GRIHA for Large Developments Phase - 1 Category**. GRIHA (Green Rating for Integrated Habitat Assessment) is a national rating system for buildings that assigns star ratings based on the overall environmental impact of the development. A 5 star rating is given to a development which has 35% or lesser impact on the environment.

CONSTRUCTION UPDATES

The construction work for the sports complex is progressing well and is nearing completion. The indoor sports facility includes an olympic-size swimming pool and a smaller amateur pool, a table-tennis hall, three squash courts, six badminton courts, an indoor basketball court, an indoor volleyball court, a gym and a yoga hall. The outdoor facilities include grounds and courts for cricket, football, hockey, basketball, volleyball, and an athletics track and a jogging track.

The phase 2 hostel constructions have also started and include 6 hostel blocks, a dining facility and indoor and outdoor student activity spaces. Of the six hostel blocks, two are targeted to be completed by June 30, 2019. Construction of the Institute guest house is in full swing while that of the director's residence is almost complete.

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

The planning and architectural work for the next phase of academic blocks has been completed and includes a makers and tinkerers' space and a library. Tenders have been finalised and the contract is expected to be awarded shortly. Construction of studio apartments and compact 1 BHK and 2 BHK apartments also started recently. The Institute is committed to providing dignified housing and living conditions to the construction workers involved in various ongoing work of campus. The details of the housing that a contractor is expected to provide are given along with the contract. One of the construction housing buildings was inaugurated by **Shri Prabhakar Singh**, DG, CPWD. IITGN has also made efforts to ensure that the construction workers get a clean living environment. Piped natural gas has been provided recently in one of the construction workers housing.



RESEARCH PARK AND INCUBATION CENTRE

The Research Park and Incubation Centre have been operating from academic building 9, where it is expected to be housed until the construction of the permanent research park is completed. The permanent research park facility, which will be approximately 2,00,000 sqft, is being developed at a unique location, just north of the scenic drive in the ravine area. The architectural design activities have concluded and the construction activities are underway. The Research Park on campus is expected to attract industry partners and will promote research with a societal connect on campus.

GREEN CAMPUS

The solar carport with a partially covered walkway was commissioned in the stretch between the hostels and academic area with a total installed solar power capacity of 500 kWp. From February 2018 to March 2019 the institute has harnessed 7 lakh kWh solar power as electricity which is around 11% of the total consumption of the campus.

The four Jal Mandaps, rainwater harvesting structures of campus, have been fully operational. In the last monsoon season, the harvested rainwater fulfilled about 15 days of the water needs of the institute. The campus continues to treat all its sewage and recycle the treated water for horticulture and continues to remain a zero-discharge campus. The biogas plant is fully operational and along with compost pits, produces organic manure which is readily utilized for horticulture works within campus and adds to the efforts of maintaining a green campus. All waste within the campus is being segregated into five primary categories - biowaste, recyclable paper/plastic waste, landfill waste, sanitary waste, and e-waste. Apart from that practices like sanitary waste management, bio-waste management, e-waste management, recyclable waste management, collection of expired/unused medicines are followed properly by the Institute.

CAMPUS EXPERIENCE

The campus has a range of cafeterias and food outlets, general store, salon, laundry service, music room, gym and other recreational facilities that continued to be used by all campus residents. The institute has operationalized two CNG vehicles that are used for commuting within the campus. The institute has a medical centre and an ambulance that is available round the clock for an emergency.

CAMPUS DEVELOPMENT AWARDS

The Institute felicitated several campus residents for outstanding contributions towards campus development and management related activities on the 70th Republic Day celebrated on Jan 26, 2019. This is a series of awards that are given each year to individuals who have played an important role in campus growth such as managing infrastructure, developing the organic garden, providing food for the students or guests, photographing campus events, developing programmes for construction workers' children, cleaning and gardening. The following staff members received awards.

- **Ms Julie Chouhan** (day care)
- **Mr Amarat Haribhai Solanki** (hostel housekeeping)
- **Ms Rajlaxmi Sharma** (contractor, Midas Touch Salon)
- **Mr Thakor Sharvanbhai Valabhai** (valve operator cum plumber)
- **Mr Devarsh Barbhaya** (communications team)
- **Mr Saksham Singal** (student)
- **Mr Nagin** (solar panel maintenance)

The Institute also felicitated the waste segregation staff members namely **Lalabhai Vasudev, Baldev Vaghela, Dashrath Bhangi, Mahesh Bhangi, Kantiji Thakor, and Ramesh Raval.**

BADA KHANA

IITGN organised a Bada Khana at the campus on Jan 26, 2019, to celebrate the hard work and dedication of everyone associated with the campus development. This includes construction workers, staff members, faculty members, students, engineers, architects, consultants, and well-wishers. It provided an opportunity to all stakeholders to come together as a family.



LABORATORY FACILITIES

ARCHAEOLOGY

The Archaeology is a multi-disciplinary science and the Archaeological Sciences Centre (ASC) is established with an aim to conduct research and testing of archaeological samples with the lab facilities available at IITGN. At present the lab facilities and equipment are available with IITGN which are used for archaeological research are: Field emission scanning electron microscope; X-Ray diffraction; Mass spectrometry; Ground penetrating radar; 3-D terrestrial laser scanner. The ASC is also analysing the samples with the equipment available at other institutions like Physical Research Laboratory (PRL). The ASC in collaboration with Earth Sciences is setting up a Ceramic petrology laboratory. This laboratory will be useful in analysing the ceramics from archaeological contexts to know about the provenance, manufacturing techniques and developing a database.

BIOLOGICAL ENGINEERING

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



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

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

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

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



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

CHEMICAL ENGINEERING

The Chemical Engineering discipline has state-of-the-art laboratory facilities related to different courses in BTech, MTech, and PhD programs. The UG laboratory is equipped with the following set ups:

Fluid mechanics experimental set-ups include Reynolds experiment apparatus, Bernoulli's apparatus, friction factor through different pipes, the equivalent length of pipe fittings, orifice and venturimeter, and centrifugal pump characteristics. Unit operations/mass transfer operations experimental set ups include ball mill, sieve plate/simple distillation, packed bed absorption tower, and solid-liquid/solid-gas/liquid-gas mass transfer. The experimental setups pertaining to heat transfer operations include heat exchangers of various types such as shell and tube/double pipe/coiled plate/fluidized/ finned tube, and other experiments such as heat transfer in an agitated vessel, heat transfer in laminar/turbulent flows, and absorptivity of different materials.

Chemical reaction engineering setups include batch reactors, plug flow reactors and continuous stirred tank reactors. Process control and dynamics setups include simple pendulum, bulb thermometer, interacting and noninteracting tanks, on-off controllers and PID control. The facility also includes a special characterization facility such as UV-vis spectrophotometer, HPLC, GC, 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. Apart from this, the UG lab is engaged in several time-bound projects for the students. The lab has basic infrastructure facility such as island bench, eye wash station, fume hood,

PPE (personal protective equipment), first aid, glassware dryer, tool boxes, computer facility, etc. The discipline also has the following research laboratories actively involved in different areas of research in undergraduate and graduate programs.



COLLOIDAL ENGINEERING LABORATORY

The laboratory is involved in active research in nanoparticle and biomedical application. The lab has a probe sonicator (Sonics VC 505), a particle size analyzer (Beckman Coulter LS 13320) for measurement of particle sizes in the range of 40 nm - 2 micron and particle sizing systems (PSSS) zeta analyzer (NICOMP380 ZLS) for estimation of zeta potential of aqueous suspensions of nanoparticles, Martin Christ freeze dryer (Alpha 1-4 LD plus and Alpha 2-4 LSC, Martin Christ, Germany) high-pressure vessel (operating conditions: 200 bar, and 100°C), particle size analyzer (PSS NICOMP Accusizer 780 AD), optical microscope (NIKON TS 100F), high speed camera (Photron Europe, Model: FASTCAM Mini), in-situ Raman probe (Kaiser USA, Model: RXN-1 785), solution calorimeter (Paar USA, Model: 6755EE), water bath, glass jacketed reactor, clean bench cabinet, computer work station etc.

SOFT MATTER SCIENCE AND ENGINEERING LABORATORY

The lab is actively doing experimental research in stress and strain controlled rotational rheometer, optical microscope, instruments for colloidal characterization. The equipment in the lab are rheometer, optical microscope, tensiometer, refrigerated and heated circulatory bath (Model: IC-301-K3), DLS and Zeta potential measurement instrument (Brookhaven), refrigerated tabletop centrifuge, computer workstation with servo stabilizer.

DRY PROCESS TECHNOLOGY (DRYPROTECH) LABORATORY

The state-of-the-art DryProTech Lab has several sophisticated instruments such as surface energy analyser (inverted gas chromatography), simultaneous TG-DSC from Netzsch, FT4 powder rheometer (Freeman Technology), laser diffraction particle size analyzer (CILAS) for characterization in dry and wet mode. In addition, the lab is equipped with V-blender and cone-mill (Prism Pharma), humidity-controlled glove box and Faraday cup with electrostatic charge measurement facility, planetary ball mills, furnace chamber, tube furnaces, catalytic reactor to study the performance of catalyst powders etc.

FIRE RESEARCH LABORATORY

The Fire Research Laboratory has a cone calorimeter (FFT, UK; Model: iCone mini), which is considered the

most significant bench scale instrument in fire testing. This apparatus has been adopted by the International Organisation for Standardization (ISO 5660-1) for measuring heat release rate (HRR) of materials under incident heat flux. The specimen can be exposed to a maximum of 100 kW/m² heat flux. This device analyzes the combustion gases and measures the produced smoke from the test specimen along with its time to ignition and mass loss rate. The data collected from this bench scale test can be used for fire modeling, prediction of real scale fire behavior, pass/fail tests etc.

DSIR-IITGN-CRTDH (COMMON RESEARCH & TECHNOLOGY DEVELOPMENT HUB, CRTDH)

The DSIR-IITGN-CRTDH is equipped with ICP Analysis Suite (Perkin Elmer), fluorescence spectrometer, multimode microplate, mass spectrometer (Spectrum Automation and Control) UV-Vis spectrometer (Analytic Jena AG), Model - MAX300-CAT (M/s Extrel CMS, LLC, USA), multi-purpose online gas chromatography, TOC analyzer (Analytik Jena AG), HPTLC (CAMAG, Switzerland), basket centrifuge, refrigerator circulator.

CHEMISTRY

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

CIVIL ENGINEERING

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

STRUCTURAL ENGINEERING LABORATORY

The Structural Engineering laboratory has the following material testing facilities for UG students: standard consistency, initial/final setting time of cement paste; soundness of cement; bulking of sand; slump test for workability of concrete; compaction factor test; vee bee consistometer test; specific gravity of cement; fineness of cement; fineness modulus, specific gravity, bulk density of fine/coarse aggregates; elongation and flakiness index of coarse aggregates; aggregate impact value; aggregate abrasion value (Los Angeles test); compressive strength

of cement cube and mortar cube; compressive strength of concrete cube (as per nominal mix); compressive strength of concrete cube (as per mix design); compressive strength of concrete by ultrasonic pulse velocity test; compressive strength of concrete by rebound hammer; finding of air content in concrete; concrete penetration resistance; penetration depth of bitumen; flash & fire point of bitumen; viscosity of tar; efflorescence of brick; water absorption of wood; viscosity of paint; fineness of paint.



GEOTECHNICAL ENGINEERING LABORATORY

The Geotechnical Engineering laboratory is equipped with basic soil-testing equipment as well as high end research equipment. The laboratory is equipped with fully automated cyclic triaxial test setup (0.01 - 2 Hz, stress and strain controlled, hydraulic-cum-pneumatic operation) for liquefaction potential and dynamic properties of soil (high strain amplitude test; $10^{-4}\%$ to $10^{-2}\%$); cyclic simple shear setup (0.001 - 5 Hz, stress and strain controlled, electromechanical operation) to evaluate liquefaction, shear modulus & damping ratio of soils under earthquake loading conditions up to 10,000 loading cycles. 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, K_0 test and stress path test, large direct shear testing facility for interface angle determination between Geosynthetics and soil. K_0 and stress path triaxial test is also equipped with bender element system to evaluate shear modulus of soil at low strain ($10^{-6}\%$ to $10^{-4}\%$) dynamic loading conditions such as vibratory loading. The suction pressure measurement facility is also available such as dew point potentiometer for total suction measurement of soil using chilled mirror technique (suction values from 0-300 MPa), conventional tensiometer, sensor-based tensiometer, and 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 sieve shaker, hydrometer test facility, Atterberg limit equipment (liquid limit, plastic limit, shrinkage limit), swell pressure measurement facility, specific gravity, relative density, core cutter, sand pouring apparatus, muffled furnace (900°C) for organic matter

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

The Geotechnical Laboratory has also developed the following equipment: multiaxial cubical device with flexible boundary conditions and real time feedback control system capable of conducting true-triaxial as well as plane strain testing of soils, constant rate of strain (CRS) setup, slurry consolidometer for preparing the remolded specimens of fine grained soils with self-reacting 250 kg reaction frame with four double stroke pneumatic pressure cylinders and four consolidation cells.

WATER RESOURCES ENGINEERING LABORATORY

The Water Resources Engineering laboratory has the 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. In addition to the above, a river tray having levee breach facility, an automated hydraulic tilting flume and a piping system to study transients are being used for research purposes.

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 that complement each other. Integrated surveying provides a platform where GPS techniques can extend a total station survey without the need for extensive traversing. Besides this several total stations, auto level, digital level and hand-held GPS are also procured, which will be used in addition to the advanced integrated surveying kit. Multiuser ArcGIS Info kit is procured to carry out GIS analysis in teaching and research activities. ArcGIS package will add the pre-existing image processing software for handling the satellite data.

COGNITIVE SCIENCE

TRANSCRANIAL DIRECT CURRENT STIMULATION (TDCS)

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

EYE-TRACKING

The eye-tracking facility includes a Tobii TX 300 eye-tracker and comes with the Tobii Studio™ eye-tracking software. This is a state-of-the-art eye-tracking facility that can be



can collect data pertaining to saccades, correction saccades, fixation duration, pupil size and blinks. The facility also includes Tobii toolbox, which supports data collection using MATLAB, thus minimizing the use of Tobii studio for experimental design. Support is also available for E-Prime through extensions from Tobii.

WIRELESS PHYSIOLOGY-BASED DATA ACQUISITION SYSTEM

The wireless physiology-based data acquisition system (Biopac Systems Inc) facilitates real-time data acquisition of physiological signals such as ECG, EMG, EDA and provides excellent signal quality with digital transmission with high resolution of 16 bit and at high speed up to 400 kHz aggregate. The wireless, wearable physiological monitoring device, non-invasively 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

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

VIRTUAL REALITY MOTION CAPTURE SYSTEM

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

BEHAVIOURAL CUBICLES

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

EARTH SCIENCES

The Earth Science discipline envisions holistic understanding of the Earth system through multidisciplinary studies of its major components such as lithosphere, hydrosphere, atmosphere and biosphere, and their interactions at different spatio-temporal scales. The Earth Science lab 1 and 2 are home to various multi/interdisciplinary projects activities starting from contaminants fate and transport study combined with hydro-geochemical modelling, earth surface processes, tectonic geomorphology, sediment geochemistry to predictive modelling of geogenic contaminants.

THE EARTH SCIENCE LAB 1 is equipped with basic and sophisticated research facilities /equipment. Its GEST (Geochemistry & Environmentally Sustainable Technology) Lab compartment has been developed with a vision to conduct all elementary and advanced level of water and soil chemistry that can address the environmental maladies and provide a scientific sustainable solution to the society at the grassroots level. This laboratory has several experimental set ups to assist research from macromolecular level to ultra-trace level with the help of different instruments such as ion-chromatography (IC), laminar flow hood, desiccators, biological safety cabinet, refrigerator, ultracentrifuge, electric muffle furnace, hot air oven, YSI multiparameter probe, portable pH and conductivity meter and thermoscientific ion selective electrodes. Apart from the above instruments, the lab is also in the process of purchasing several other set ups for the state-of-the art analytical measurements.

EARTH SCIENCE LAB 2 includes sample preparation facility to be analysed in major instruments. Dry sample preparations includes crushing and grinding of rocks. It is followed by dry and wet sieving of the crushed sand grains and drying with hot air oven. The lab is equipped with hand-held strong magnetic separation as well as ultrasonic cleaning and leaching of sand grains. Wet sample preparation are in the final stages of preparation, where fume hoods will soon be installed.

ELECTRICAL ENGINEERING

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

WAFER CHARACTERIZATION LABORATORY

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

NANODC LABORATORY

The Nano Devices and Circuits (NanoDC) Laboratory is primarily used for analog/digital VLSI design and semiconductor device related research. The laboratory is equipped with multi-user licenses for Cadence, Mentor Graphics, Synopsys, Xilinx ISE tools. The laboratory is also equipped with a variety of FPGA boards including Basys, Nexus, Spartan, Kintex-7 boards. Apart from this, the lab has other computational resources including an 80-core server, multiple workstations and machines that host the CAD tools.



POWER SYSTEMS AND SMART GRID LABORATORY

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

INTELLIGENT REHABILITATION AND AFFECTIVE COMPUTING SYSTEMS LABORATORY

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

COMPUTER VISION LABORATORY

The lab houses a Faro Focus 3DX330 laser scanner which is used to scan large structures. The potential applications include digital heritage, structural analysis, and geometric processing. The lab also has Kinect depth sensors. The lab

also has coded aperture cameras fabricated with the help of ISRO-SAC for refocusing and extended depth of field recovery from a single image. The coded aperture cameras can be used with any DSLR to achieve these tasks. GPU enabled workstations are used to solve computationally expensive problems such as deep learning and the corresponding computer vision applications.



PHOTONIC SENSORS LABORATORY

The Photonic Sensors Laboratory works on industrial and bio-medical applications of near-IR and mid-IR tunable diode laser spectroscopy (TDLS), plasmonic nano-biosensing and photocatalysis, microbial growth studies and biomedical engineering. The lab is equipped with a wide array of near-IR and mid-IR semiconductor lasers, photodetectors, test & measurement equipment. The following semiconductor lasers are currently available - quantum cascade lasers (Alpes Lasers) emitting at 4312 nm and 4559 nm, a 1392 nm edge-emitting laser diode (Eblana Photonics), a multi-pass Herriot gas cell, a 100 mW mid-infrared 4.3-4.7 μm 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 1278 nm and a 2004 nm VCSEL (Vertilas GmbH), cooled and uncooled visible, near-infrared and mid-infrared photodiodes. The electronic test and measurement equipment includes a 50 MHz dual channel, lock-in amplifier (Zurich Instruments), laser diode temperature controllers (Thorlabs), laser diode current controllers (Thorlabs), a combined LD driver TEC controller, (Stanford Research Systems), an arbitrary waveform generator (Agilent), a 500 MHz, 1 GS/s digital phosphor oscilloscope (Tektronix), a digital delay and pulse generator, (DG535, Stanford Research Systems), a 3 GHz RF spectrum analyzer (Agilent), and a wide bandwidth signal generator (Tektronix).

COMPUTATIONAL NANOPHOTONICS LABORATORY

The Computational Nanophotonics Laboratory investigates the fundamental physics of light interaction with nanostructured materials with an eye towards applications in imaging, sensing and energy harvesting. The myriad applications that the lab investigates include high-resolution and very wide field-of-view microscopes, monolithic integrated ultra miniature cameras, ultra-sensitive non-destructive optical measurement techniques for probing objects and dynamics at the nanoscale, bioinspired sustainable energy harvesting and storage techniques. The lab is equipped with broadband supercontinuum lasers, UV-VIS- NIR spectrometers and other tools for characterization of optical nanostructures and meta-surfaces.

MULTIMEDIA ANALYSIS AND SECURITY LAB

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

ELECTRICAL MACHINES AND POWER ELECTRONICS LABORATORY

The Electrical Machines and Power Electronics Laboratory is equipped to carry out research work on design, control and diagnosis of various electric machines. These include transformers, rotating electric machines and power converters. Design and analysis of novel and existing topologies is carried out using 2D and 3D electromagnetic finite element analysis in Ansys Maxwell. Test-setups for experimentation on various rotating electric machine topologies are available in the lab. These include permanent magnet brushless DC motor, permanent magnet synchronous motor and switched reluctance motor. Analysis and modeling of conventional topologies are carried out on a unified test bench that consists of a DC machine, an induction machine and a synchronous machine. For machine health diagnosis, precision magnetic analyzer and impulse generator are used for carrying out FRA analysis. Lab facilities also include programmable power supply which is used to generate balanced and unbalanced supply to mimic grid behavior. The lab has basic power converters and their corresponding controllers and drivers fabricated. These converter topologies allow for the implementation of ac-dc, ac-ac, dc-ac, and dc-dc conversion.

MATERIALS SCIENCE AND ENGINEERING

Materials Science and Engineering (MSE) added a positive pressure bio-nanomaterials laboratory to its suite of labs. In this class 10,000 lab, experiments are conducted to synthesize, characterize and utilize nanomaterials for various biological applications. The Materials Science and Engineering Laboratories (Materials Characterization lab, Metallography lab, Wafer Characterization lab, and Bio-nanomaterials lab) are used to impart technical training and teach our undergraduate students. The postgraduate students use these labs for their research activities. The materials characterization lab now has equipment that can perform surface characterization (contact angle, AFM, profilometer), thermal characterization (TGA, DSC, STA), and elemental composition characterization (AAS, ICP-OES, ICP-MS, and XRF). The instrument capabilities of MSE labs are being upgraded continuously by adding new equipment such as Jominy End Quench test, tube furnace, and UV-Vis NIR spectroscopy that were added this year. An online instrument access system has been devised to enable online

booking of time slots for usage to ensure smooth access to all instruments. The users can find available slots and the respective TA allocated for a particular instrument.

MECHANICAL ENGINEERING

Starting this year, the Mechanical Engineering discipline has done away with physically separate labs for different topics and instead has promoted an integrated approach as regards physical facilities as well as the lab courses. The facilities and equipment have been substantially enhanced this year. In addition to a few large demo experiments, a very substantial portion of the lab facilities are in the form of components and sensors that promote the learning-by-doing and do-it-yourself approach that the discipline promotes in the lab courses, course projects, and extra-curricular projects.

SOLID AND FLUID MECHANICS

Aligning with the disciplines' philosophy of "learning by doing", the Solid Mechanics laboratory has procured a suite of structural lab equipment that will allow to actively engage students in understanding the fundamentals in courses like Mechanics of Solids and Mechanics of Deformable Bodies that are currently on offer at the undergraduate level. The procured suite includes: 1) bending moments in a beam, 2) shear force in a beam, 3) deflection of beams & cantilevers, 4) bending stress in a beam, 5) unsymmetrical bending & shear centre, 6) buckling of struts and 7) continuous & indeterminate beam. These rigs can be utilized both for in-class demonstrations as well as for student projects with simple objectives that improve students understanding. The existing facilities include 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. In addition, a vibration shaker with modal exciter, a vibration controller, stroboscope etc. have been added.

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. This year, we have procured additional equipment such as series and parallel centrifugal pumps, hot wire anemometers, surface pressure sensors and digital micromanometers and equipments for visualization of flow-field to aid in the experiments.

MANUFACTURING

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

CONTROL SYSTEMS

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. Multiple Arduino boards, motors, and sensors were added this year.

ENERGY SYSTEMS

The motivation behind the Renewable Energy laboratory facility is to provide a broad range of experimental experience to the undergraduate and graduate students in the area of renewable energy. This facility comprises high-quality experimental setups in the area of wind, thermal and solar energy. This experimental facility includes thermal energy storage training system, solar concentrator training system, wind energy training system and solar PV training and research system. This year, a fuel-cell test system and a heat transfer experimental module have been procured.

ROBOTICS

In recent years, robotics has emerged as an important domain from teaching and research perspective. Robots, essentially, are programmable electro-mechanical systems (machines) that require understanding and execution of a number of different disciplines. The process of development and testing these systems is creating a lot of interest among the students and faculties at IIT Gandhinagar. There are a number of regular and elective courses on offer each year for the students. The student project is an important component of these courses, where the learning-by-doing methodology is adopted. To name a few of these courses:

- Introduction to Robotics - a graduate-level course
- Mechatronics - an elective undergraduate-level course
- Dynamics and control - a mandatory undergraduate-level course
- Artificial Intelligence - a graduate-level course
- Machine Learning Course - a graduate-level course

In addition to these regular courses, each year IITGN students organise technical events, such as Amalthea and Ignite, where a large number of competitions are based on robotics driven activities. Each year, a great number of students participate in externally organised robotics competitions, such as IIT Bombay e-Yantra, DRDO Robotics and Unmanned Systems Exposition (DRUSE), etc. A total of 12 teams comprising of IITGN undergraduate and graduate-level students are participating in the Robot making competition “Robofest- Gujarat-2019” under the Gujarat Science, Technology and Innovation (STI) Fund.

PHYSICS

The Physics laboratory is equipped with state-of-the-art equipment for conducting experiments at the undergraduate and postgraduate levels. The MSc laboratory consists of eleven experiments covering topics in optics, solid-state physics, spectroscopy, modern physics and electronics. The laboratory has apparatus to study the Hall effect and measurement of energy band gaps in semiconductors, interaction of external magnetic fields with electron spins through electron-spin resonance, interaction between the magnetic field and the magnetic dipole moment associated with the orbital angular momentum of electron through Zeeman effect, interferometers like Fabry-Perot and Mach-Zehnder, which are used extensively in measuring the wavelength of light and phase shifts. Experiments with lasers include the study of laser beam profile and understanding the principle of optical waveguides. The laboratory also offers various experiments on FET and MOSFET, which are semiconductor devices used as amplifiers in electronic circuits. Experiments with logic gates enables students to understand the functions of logic circuits as mathematical operators and amplifiers. The lab also has kits to demonstrate principles of amplitude and frequency modulation and demodulation under different conditions.

The undergraduate physics laboratory has seven experiments covering topics from modern physics, optics and acoustics. In order to encourage students to add some of their own ideas to experiments and find their appropriate scientific interpretations, the undergraduate laboratory curriculum has been designed to emphasize critical thinking and enhance research aptitude of students. Apart from performing regular experiments in the syllabus, students are advised to pursue short-term projects in groups, under the guidance of the course instructor and the associates. Students come up with proposals based on fundamental principles of physics that are significant either from scientific or technological standpoints. The proposals are expected to have sufficient novelty and are reviewed rigorously by the physics faculties before they are pursued. The approved projects are supported partially by the discipline budget. The students make use of the institute workshop, other laboratory facilities and centers outside the physics discipline. This tinkering lab exercise ends with an open-to-all poster session at the end of the semester during which the students get an opportunity to showcase their projects to the entire IITGN community, interact with and demonstrate their findings to other students and faculties. Several usable small equipment such as a milli Q system, microbalance, infrared thermometer, multimeter, ultrasonic bath (proper sonication of samples) have been procured to facilitate not only the postgraduate and undergraduate labs but also the tinkering lab and the MSc projects.





RESEARCH FACILITIES AT IIT GANDHINAGAR

CENTRAL INSTRUMENTATION FACILITY

The Central Instrumentation Facility (CIF) is the state-of-the-art research facility developed at IIT Gandhinagar to facilitate multidisciplinary research activities in the field of engineering, earth sciences, biomedical engineering, physics, chemistry, mathematics, biological sciences, and cognitive science. The CIF houses high-end characterization and analytical instruments such as 500 MHz NMR, LC-MS, XRD, AFM, SEM, DLS, CD, fluorescence, FTIR & UV-visible spectroscopy, ICPMS/OES, single crystal XRD, MALDI-TOF, confocal microscope and TEM. The CIF also attracts external users from other research institutions, universities and industries in the nearby region for analysis and characterization of their research samples.

The Central Instrumentation Facility (CIF) has been created with an aim to facilitate cutting-edge research and enable high-quality data acquisition using sophisticated instruments. This state-of-the-art facility houses several high-end analytical instruments. While CIF caters to the research needs of IIT Gandhinagar community, it also aims at helping researchers, scientists, students and faculty from other Institutes, organizations and industry by providing them an access to the sophisticated analytical instruments at reasonable charges. The external users of this facility include academic institutions such as CIPET Ahmedabad, SVNIT Surat, Nirma University, NIPER Ahmedabad, MSU Baroda, and PDPU etc. and the industries such as the Sud-Chemie India Pvt. Ltd, Brisil Technologies Private Ltd, and Phillips Carbon Black Ltd, etc.



LIBRARY

The library being an integral part of the academic and research work, continues to expand its collection both in print and digital form. It also designs and delivers innovative services to support teaching, learning, research and other scholarly activities. During the reporting year, the library initiated many important activities and services.

LIBRARY COLLECTION

Print & Audio Visual Collection: The library's rapidly growing collection of research monographs, textbooks, reference books, conference proceedings, CDs, VCDs, DVDs, etc, cover the areas of academic and research interests of the Institute. The following table presents additions to the collection during the year 2018-19.

Total collection as on March 31, 2019

Type of collection	Additions in 2018-19	Total collection
Books	1614	27510
Bound volumes	159	635
Children's books	224	1272
Hindi books	1	444
CDs	20	965
DVDs	8	601
Technical reports	0	456
Thesis and Dissertations	120	384
Total	2146	32267

Digital Resources: The library has been subscribing to several major e-resources both in bibliographic and full text forms. During the year, over 69 e-resources were subscribed, out of which 51 were ordered and paid by IITGN Library and the remaining 18 resources were ordered and paid by E-Shodh Sindhu (a national consortium for higher education electronic resources). The Library added a new e-book collection EBSCO Engineering Core, provides access to more than 5,850 titles covering all major disciplines of engineering, including civil engineering, mining engineering, electrical engineering, materials, robotics, aerospace, industrial safety, project management, and more. This is in addition to renewing subscription to EOLSS - Encyclopaedia Life Support Systems (UNESCO), McGraw Hill Access Engineering, and World eBook Library.

CIRCULATION AND INFORMATION SERVICES

The total number of documents issued to our users during the year was 23061 as compared to 26303 last year.

- **Information/Reference Services:** The library has been actively promoting references and information services both in person and over the campus network using the library website and Institute email.
- **Book Exchange: Leave a Book - Take a Book!:** A new initiative named Book exchange: Leave a book - Take a book! started in the previous year continues to attract the attention and received wider acceptance among Institute user community. The library added one more location i.e, Cafeteria (Lal Minar),

- **Library User Survey:** An online survey seeking feedback on different aspects of library resources and services was conducted for the outgoing batch of students and a report along with suggestions given by the students was presented to the Senate Library Committee.
- **Mini-Library:** This library is kept open round the clock and has become a popular place among students. Over 26 popular magazines, newspapers, and books donated by IITGN community are made available in this library.
- **Resource Sharing:** The library has been taking an active part in availing the benefits of sharing resources with other major libraries (*viz.* IIMA, IPR, PRL, DA-IICT) in Ahmedabad and Gandhinagar as well with IITs, NITs, IIMs, IISERs, CSIR Libraries and DELNET member libraries in the country. This is done through inter-library loan and document delivery services. The library borrowed 118 books as compared to 156 books in the previous year and loaned 33 books to other libraries as compared to 15 books in the previous year.
- The **Document Delivery Service** is one of the popular services the 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, the library received 4261 articles (as compared to 3673 in the previous year) from other libraries and delivered 250 papers to other libraries. During the year, services of German National Library for Science and Technology (TIB) were used to meet some of the urgent requests for research articles which were not available in other libraries in India.

MEMBERSHIPS

Organisational Membership: The library enrolled as an institutional member of the Mathematical Association of America (MAA) for the first time. The annual membership grants the library access to nine journals, the e-library and video library and several other benefits for supporting mathematical activities on the campus. To avail the benefits of various services, the membership of Development Library Network (DELNET), Ahmedabad Library Network (ADINET) along with ten other library and professional bodies were renewed.

E-Shodh Sindhu Consortium (MHRD) Membership: The library continues to be a core member of the E-Shodh Sindhu consortium and actively contributed in all meetings held related to subscription to e-resources and had been getting support for accessing 18 core e-resources.

Library External Memberships: The library continues its effort to increase memberships to library resources and services at a nominal fee.

LIBRARY STAFF ACTIVITIES

STAFF VISITS TO LIBRARIES

As part of staff development policy of the Institute and build relations with other libraries, the librarian visited some of the important libraries within and outside India *viz.*, IIT Guwahati Library, IGNCALibrary, New Delhi, MIT Libraries, Harvard University Libraries, Stanford University Libraries, and UC Berkeley Libraries in USA.

STAFF TRAINING

- **Panna Chaudhary** and **Viral Asjola** attended a one-day workshop on **Open data and open knowledge** in association with World Bank Group, New Delhi at Indian Institute of Management Ahmedabad, Apr 25, 2018
- **Viral Asjola** attended National Workshop on **Research data and statistical analysis using R programming** at INFLIBNET Centre, Gandhinagar, May 14-18, 2018

STAFF PUBLICATIONS

- Gupta, Ariti; Raworth, Rebecca and **Kumbar, T S** (2018), Exploring the effectiveness of information literacy programs on Canadian and Indian science and technology graduate students: A global context. Poster presented at IFLA WLIC 2018, Kuala Lumpur, Malaysia, Aug 24-30, 2018
- **Das, Tapas Kumar** and Sahoo, Sudam (2019), Bibliometric analysis of research publications of IITs: A study based on Scopus in ICoASL 2019, New Delhi, Feb 14-16, 2019

INFORMATION SYSTEMS & TECHNOLOGY FACILITY (ISTF)

The Information Systems & Technology Facility (ISTF) continues to provide user-level services to the IITGN community. The ISTF's state-of-art networking infrastructure enables provisioning of information systems and computational facilities to users who live in campus and outside. The ISTF is responsible for managing the following:

- NKN Network, internet and email services, firewall security, communication devices
- Computing facilities, HPC Lab, and
- Computer hardware and software ISTF facilitates VEGA, HPC cluster that enables the users to perform parallel computing and GPU-based computing relevant to their research interests

The new additional compute and GPU nodes (with the latest P100 cards) with the latest hardware have been installed and commissioned. Benchmarking of the newly-augmented nodes has been successful and tested by the IITGN end-users and researchers. The cluster facilitates a total of 640 CPU cores totaling to close to 21 teraflops. The usage of the cluster is almost 100% and the institute is planning for the next Phase - III of HPC cluster. The ISTF also houses video conference rooms via the National Knowledge Network (NKN) line. The infrastructure of the rooms is also be equipped to facilitate virtual classes.

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

- deployed new ISTF service desk for tracking and resolution of tickets raised by the stakeholders for new ISTF ticketing system
- ISTF has implemented daily bandwidth quota limitation for all students
- deployment of central NTP server

MEDICAL CENTRE

Four qualified doctors are available in the campus from 9:30 am - 7:30 pm on working days. Doctors are available for OPD treatment on weekends. An experienced gynaecologist and pediatrician are also available twice a week for OPD. We have empanelled several hospitals in Gandhinagar and Ahmedabad for hospitalization of staff, students and faculty. Hospitalization of all students is covered under a medical insurance policy. A team of two trained male nurses and an assistant nurse is available on a full-time basis to provide first aid and for routine medical services such as checking temperature, blood pressure, blood sugar, oxygen level etc. Other facilities include ECG machine, pulse oximeter, oxygen concentrator, nebulizer, glucometer, otoscope, suction machine, eye check-up facility and 24-hour vehicle facility for patients in case of emergency. The institute has an in-house pharmacy that stocks medicines that are commonly used. A blood collection facility is also available for pathology tests. Four beds are provided for indoor patients. We have fully equipped physiotherapy centre for staff, students and faculties. Vaccination for children will also be available in the near future.

PHYSIOTHERAPY CENTRE

A qualified physiotherapist is available at the physiotherapy centre for two hours from 5:30 pm - 7:30 pm every day except Sunday. The physiotherapy department is well equipped with modern equipment such as electrotherapy machines like shortwave diathermy (SWD), TENS (trans-electrical nerve stimulator), IFT (interferential therapy), paraffin wax bath (PWB), muscle stimulator machine, cervical and lumbar traction machine, ultrasound machine, hot & cold packs and laser machine. 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, quadricep table, full dumbbells set, tube theraband exerciser, wooden rocker balance board, wrist supinator-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, cervical spondylosis. The patients are also advised about basic exercises and general guidelines for weight management and general well-being.

DAY CARE CENTRE

The IIT Gandhinagar Day Care Centre was started in March 2014 as a community initiative to provide a safe and nurturing environment to the children from IITGN families. Located in one of the housing blocks close to community residences, the child-friendly facility is nothing less than their own beautiful home. A unique feature of the daycare is that unlike most institutes that outsource the job of caring for the children, the daycare centre takes pride in meeting the needs of the children in-house. Passionate community members who have had some prior experience in child care help with designing the curriculum and facilitating

the day-to-day operations. We are proud to have well trained and caring staff members who provide feedback based childcare. The centre is guided by the simple aim of helping in the development of children by engaging them in activities that they enjoy the most. The centre offers unique, non-traditional developmental programs for the children to learn through music, dance, play and exploration. Some of the flagship programs are:

- **Morning Programme:** From July 2018, the Day Care Centre started a new morning program where children from the community could enroll just like they would in any pre-school. The programme has been very well received by parents and kids alike as it is a fine mélange of traditional teaching methods and non-conventional activities that suit every age group. Our facility was further expanded during this year. We now have a completely separate apartment for our infants and young toddlers, thus ensuring that every child gets enough room to move around safely and freely during the activity times
- **Kids Supported Agriculture:** This is the best loved programme to date. It lets the kids get their hands dirty and grow their own veggies. This year introduced this farming experience to our infants and toddlers as well. They truly enjoyed sowing and plucking, *methi*, spinach, tomatoes, coriander and carrots. Routine activities were designed keeping the sensory world of children in mind (sight, touch, taste, smell and sound).
- **Cooking Sessions:** This is a very important activity in a child's day when our expert chefs put together sandwiches and decorate cupcakes for dessert.
- **Other Events:** Besides the above, the centre also hosts pajama parties, movie times, parents date nights, mango and amla picking sessions, festival celebrations and sports day events.

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

STUDENT AFFAIRS

CO-CURRICULAR ACTIVITIES

CAMPUS PLACEMENTS 2018

Of the 62 eligible undergraduates who sought placements, 51 students were successful in securing placements of their choice. The following organisations offered campus placements for the outgoing undergraduate batch in 2018.

- Aarti Industries Limited, Vapi
- Aliyance Technologies (India) LLP, Ahmedabad
- Amul, Anand
- Banas Dairy, Palanpur
- Barclays, Pune
- Bosch Rexroth (India) Private Limited, Ahmedabad
- Capgemini India Private Limited, Mumbai
- Cognizant Technology Solutions, Chennai
- eClerx, Pune
- Gujarat State Fertilizers & Chemicals Limited, Vadodara
- Hindustan Petroleum Corporation Limited, Mumbai
- Indian Oil Corporation Limited, Mumbai
- Indian Space Research Organisation, Bangalore
- ITC Limited, Chennai
- Reliance Jio Infocomm Limited, Navi Mumbai
- KPIT Technologies, Germany
- L&T Construction, Chennai
- L&T Engineering, Mumbai
- MCX India, Mumbai
- Next Education India Private Limited, Hyderabad
- OYO Rooms, Gurgaon
- Polyplex Corporation Limited, Noida
- RKC Infrabuilt Private Limited, Ahmedabad
- SIM Advisory, Bangalore
- TATA Motors, Ahmedabad
- Tata Consultancy Services (Research and Innovation Unit), Mumbai
- The India Nutrition Initiative (TINI), Tata Trusts, New Delhi
- ZS Associates, Pune



SUMMER INTERNSHIPS 2018

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.

A total of 98 students went abroad for internships this year. The institutions that offered internships include California

Institute of Technology (Caltech), USA; ISCTE – University Institute of Lisbon, Portugal; Japan Advanced Institute of Science and Technology (JAIST), Japan; Clemson University, USA; Nanyang Technological University (NTU), Singapore (NTU-India Connect); Texas A&M University, USA; The New School, USA; University at Buffalo, USA; University of Illinois at Chicago, USA; University of Illinois at Urbana–Champaign, USA (S N Bose); University of Notre Dame, USA; University of Saskatchewan, Canada; University of South Carolina, USA; University of Washington, USA; Washington University St Louis, USA among others. A complete list is provided below:

HOST INSTITUTION	STUDENT NAME	DISCIPLINE
California Institute of Technology (Caltech), USA	Akash Pallath	Civil Engineering
	Ayon Biswas	Electrical Engineering
	Dsouza Alrick Cyril	Mechanical Engineering
	Gandhi Meet Bankim	Mechanical Engineering
	Rajat Ranjan	Mechanical Engineering
	Saeed Aamer	Mechanical Engineering
Clemson University, USA	Khili Khamesra	Civil Engineering
	Girish Chandar G	Electrical Engineering
	Shreyas Sreeram	Materials Science and Engineering
Colorado State University, USA	Jammu Tarun Kumar	Materials Science and Engineering
ISCTE – University Institute of Lisbon, Portugal	Sparsh Jain	Civil Engineering
	Sanika Gupta	Cognitive Science
	Harry Antony	Cognitive Science
	Naman Jain	Computer Science and Engineering
	Ajin K Thomas	Humanities and Social Sciences
	Anushka Mukherjee	Humanities and Social Sciences
Japan Advanced Institute of Science and Technology (JAIST), Japan	Pabba Kumar	Biological Engineering
	Garima	Chemistry
	Kriti Kapil	Chemistry
	Dhwani Parimal Sadaphal	Cognitive Science
	Manisha Biswas	Cognitive Science
	Unnati Palan	Cognitive Science
	Prashant Lawhatre	Cognitive Science
	Akhilesh Ravi	Electrical Engineering
	Amit Kumar Singh Yadav	Electrical Engineering
	Isai Amudhu S	Humanities and Social Sciences
	Abhishek Raghav	Materials Science and Engineering
	Anushikha	Materials Science and Engineering
	Kamal Kant Chandra	Physics
	Abdul Ghaffar	Physics
Nanyang Technological University, Singapore (NTU-India Connect)	Tejas Mehta	Electrical Engineering
National Sun Yat-sen University, Taiwan	Shivam Singh	Civil Engineering
	Shivji Bhagat	Computer Science and Engineering
	Vasu Bhalothia	Electrical Engineering
	Deshpande Shubham Gopal	Mechanical Engineering
Seoul National University, South Korea	Akshat Pachauri	Materials Science and Engineering
	Ayush Gupta	Materials Science and Engineering
Texas A&M University, USA	Ankur Singh	Civil Engineering
	Patel Parth Girishbhai	Civil Engineering
	Dutta Ritik	Computer Science and Engineering
	Aditi Singh	Electrical Engineering
	Anusha Rajendra Malani	Electrical Engineering
	Aparna N Tumkur	Electrical Engineering
	Chitta Sai Pavan	Electrical Engineering

Texas A&M University, USA	Mandlem Manikanta	Electrical Engineering
	Samarth Kathal	Electrical Engineering
	Shipra Mohan	Electrical Engineering
	Shivang Agarwal	Electrical Engineering
	Aagam Rajeev Shah	Materials Science and Engineering
	Shrinidhi Dilip Bhide	Mechanical Engineering
	Yash Patel	Mechanical Engineering
The New School, USA	Rahul Upadhyay	Civil Engineering
	Anish Dubey	Civil Engineering
	Aarushi Nilen Shah	Cognitive Science
	Neha Priolkar	Electrical Engineering
	Dalia N	Humanities and Social Sciences
	Sakshi Sunil Soni	Humanities and Social Sciences
	Shantanu Sharma	Humanities and Social Sciences
	Aditya Rathi	Mechanical Engineering
University at Buffalo, USA	Anshul Yadav	Civil Engineering
	Siddhant Gulechha	Civil Engineering
	Tarun Sharma	Civil Engineering
	Arshdeep Singh Brar	Mechanical Engineering
	Bhattad Varun Rajkumar	Mechanical Engineering
	Vaibhav Mittal	Mechanical Engineering
University of Alberta, Canada (SRSF)	Ajay Kumar	Chemistry
University of British Columbia, Canada (SRSF)	Lakshman Chakrav Nallan Chakravarthula	Cognitive Science
University of Illinois at Chicago, USA	Puneet Swami	Civil Engineering
	Aman Kamlesh Singh	Materials Science and Engineering
University of Illinois at Urbana-Champaign, USA	Abhiroop Mishra	Materials Science and Engineering
University of New South Wales, Australia	Ankit Ghanghas	Civil Engineering
University of Notre Dame, USA	Pansetty Karthik	Electrical Engineering
University of Ottawa, Canada (SRSF)	Sankha Subhra Bhattacharjee	Electrical Engineering
University of Saskatchewan, Canada	Prateek Verma	Civil Engineering
	Priyanshu Ranjan Gupta	Civil Engineering
	Avinash Singh Soda	Civil Engineering
	Swathi S G	Electrical Engineering
	L Madhulika	Electrical Engineering
	Hardeep	Electrical Engineering
	Janaki R Nair	Humanities and Social Sciences
	Arya Adityan	Humanities and Social Sciences
	Harshitha C	Mathematics
	Aditi Sethia	Mathematics
	Sudip Pandit	Mathematics
	Sandeep Kumar Yadav	Mechanical Engineering
	Jagmohan	Mechanical Engineering
	Patel Darshankumar Parasotambhai	Mechanical Engineering
University of South Carolina, USA	Chaudhari Divya Jeevraj	Civil Engineering
University of Southern California, USA	Shah Harshil Kalpeshkumar	Electrical Engineering
University of Washington, USA	Mihir Hitendra Salot	Mechanical Engineering
	Rahul Bharti	Mechanical Engineering
	Rishabh Bhattacharya	Mechanical Engineering
	S Santhosh	Mechanical Engineering
	Shashi Mohan Singh	Mechanical Engineering
	Tushar Pareek	Mechanical Engineering
Washington University St Louis, USA	Aditi Sharma	Civil Engineering
	Anusha Kamath M	Civil Engineering
	Tanikella Sri Savya	Civil Engineering
	M Naveen	Mechanical Engineering

INDIAN ORGANISATIONS

Another set of students (156 in the summer and 21 in the winter) did their internships in various leading industries and institutions within India such as Banas Dairy, Palanpur; Barclays, Pune; British Broadcasting Corporation, Delhi; Bosch Limited, Nashik; Ernst & Young, Ahmedabad; GCMMF (Amul), Gandhinagar; Godrej Industries, Valia; Goldman Sachs, Bangalore; Gujarat Urja Vikas Nigam Limited, Gandhinagar; Indian Institute of Management Ahmedabad; Indian Institute of Science Bangalore; Indian

Institute of Technology Bombay; Indian Institute of Technology Gandhinagar; Indian Institute of Technology Madras; Indian Oil Corporation Limited, Mathura; Indian Railway Institute of Civil Engineering, Pune; InfoStretch Corporation, Ahmedabad; Indian Space Research Organisation, Thiruvananthapuram; ITC Limited, Mysore; Jasubhai Engineering, Ahmedabad; JSW, Mumbai; Mojo Networks, Pune; Nielsen (India) Private Limited, Bangalore; Synopsys Inc, Bangalore; Tata Motors, Ahmedabad; Texas Instruments, Bangalore; among many others.

HOST INSTITUTION	STUDENT NAME	DISCIPLINE
Think 4Dea Technologies Private Limited, Gandhinagar	Pratik Kayal	Computer Science and Engineering
AcaEx, Bangalore	Sammed Shantinath Kagi	Computer Science and Engineering
	Pankaj Vatwani	Electrical Engineering
Agilo Research Private Limited, Ahmedabad	Pranav Peepre	Civil Engineering
Aliyance Future Experience Technologies LLP, Ahmedabad	Anshul Shivhare	Electrical Engineering
	Pratik Puri Goswami	Electrical Engineering
Banas Dairy, Palanpur	Ankur Yadav	Chemical Engineering
	Kavish Kumar	Chemical Engineering
	Shiv Kumar	Chemical Engineering
	Shubham	Chemical Engineering
Barclays, Pune	Ravi Shrimal	Electrical Engineering
	Rushali Atul Prakash Saxena	Mechanical Engineering
British Broadcasting Corporation, Delhi	P Jayakrishna Sahit	Computer Science and Engineering
Bharat Heavy Electricals Limited, Bhopal	Shikhar Rajput	Mechanical Engineering
Bosch Limited, Nashik	Dashpute Chinmay	Mechanical Engineering
CSIR, Trivandrum	Bidyan Basumatary	Materials Science and Engineering
	Godina Ganga Hrishikesh	Materials Science and Engineering
	Rahul Rajeev	Materials Science and Engineering
	Shubham Gond	Materials Science and Engineering
Danfoss Industries Private Limited, Chennai	Mudit Jangid	Mechanical Engineering
GCMMF (Amul), Gandhinagar	Tukkani Sandeep Reddy	Mechanical Engineering
Godrej Industries, Valia	Ankit Singh	Chemical Engineering
Goldman Sachs, Bangalore	Arik Pamnani	Electrical Engineering
	Saksham Singal	Mechanical Engineering
KDE (GSoc), Kota	Anmol Gautam	Computer Science and Engineering
Gujarat Rail Infrastructure Development Corporation Limited, Ahmedabad	Aishwary Omkar	Civil Engineering
	Kushal Agrawal	Civil Engineering
Gujarat Urja Vikas Nigam Limited Gandhinagar	Rahul Challa	Computer Science and Engineering
	Jatin Ashish Dholakia	Electrical Engineering
	Pranjal Darda	Electrical Engineering
	Shubham Ashok Kalgunde	Electrical Engineering
	Sriram Sriharsha	Materials Science and Engineering
	Kevin Patel	Mechanical Engineering
	Polampalli Bala Srimannarayana	Mechanical Engineering
	Vedant Rajendra Gote	Mechanical Engineering
	Dharmendra Sablaniya	Materials Science and Engineering
Hindalco, Mumbai	Kunwar Shivam Pratap	Materials Science and Engineering
	Pankaj Kumar Saini	Materials Science and Engineering
Honda Motor Company Limited, Bhiwandi	Rajat Biluniya	Mechanical Engineering
HOWE Engineering Projects (India) Private Limited, Ahmedabad	Lavalesh Kumar Bajpayee	Civil Engineering
	Rahul Kumar Saini	Civil Engineering
	Sarthak Mittal	Civil Engineering
Indian Institute of Management Ahmedabad	Shah Atmin Shitalbhai	Chemical Engineering
	Yashasvi Modi	Chemical Engineering
	Arra Sriya	Civil Engineering

Indian Institute of Management Ahmedabad	Sahil Jain	Civil Engineering
	Tanisha Aggrawal	Materials Science and Engineering
Indian Institute of Science Bangalore	S Vinu Sankar	Computer Science and Engineering
Indian Institute of Technology Bombay	Akhil Anil Rajput	Civil Engineering
Indian Institute of Technology Delhi	Ayush Garg	Computer Science and Engineering
Indian Institute of Technology Gandhinagar	Abhavya Chandra	Chemical Engineering
	Singh Shivam	Chemical Engineering
	Sourabh Saini	Chemical Engineering
	Spand Bharat Mehta	Chemical Engineering
	Yash Makwana	Chemical Engineering
	Abhishek Dubey	Chemical Engineering
	Buditi Prudhvi	Chemical Engineering
	Kamle Mayank Shrikant	Chemical Engineering
	Lakhan Agrawal	Chemical Engineering
	Raman	Chemical Engineering
	Ritik Jain	Chemical Engineering
	Chinmay Girish Kulkarni	Civil Engineering
	Ayush Singh	Civil Engineering
	Ajay Bhardwaj	Civil Engineering
	Ishank Singh	Civil Engineering
	Jitesh Mittal	Civil Engineering
	Akshay Mittal	Civil Engineering
	Animesh Rastogi	Civil Engineering
	Muhammed Sinan R K	Civil Engineering
	Piyush Chandra	Civil Engineering
	Rishabh Jain	Civil Engineering
	Wani Tejas Sakahari	Civil Engineering
	Mukesh Kumar	Civil Engineering
	Debanuj Nayak	Computer Science and Engineering
	Davinder Singh	Computer Science and Engineering
	Atishay Jain	Computer Science and Engineering
	Ayush Garg	Computer Science and Engineering
	Gohil Varun	Computer Science and Engineering
	Kukunuri Sai Venkata Ratna Rithwik	Computer Science and Engineering
	Mridul Sharma	Computer Science and Engineering
	Nitiksha	Computer Science and Engineering
	Parmar Monarch	Computer Science and Engineering
	Pranjali Jain	Computer Science and Engineering
	Shivansh Choudhary	Computer Science and Engineering
	Kunal Verma	Computer Science and Engineering
	Gupta Sagar Rajeev	Electrical Engineering
	Balani Mohit	Electrical Engineering
	Bedmutha Manas Satish	Electrical Engineering
	Abhinav Narayan Harish	Electrical Engineering
	Chennuri Prateek	Electrical Engineering
	Deshpande Ajit Umesh	Electrical Engineering
	Rahul Yadav	Electrical Engineering
	Sai Praneeth Maddi	Electrical Engineering
	Sumit Walia	Electrical Engineering
	Shubhranshu Singh	Electrical Engineering
	Anjali Kumari	Materials Science and Engineering
	Joshi Kavan	Materials Science and Engineering
	Dineshraj D	Materials Science and Engineering
	Neha Meena	Materials Science and Engineering
	Ratul Chakraborty	Materials Science and Engineering
	Utkarsh Balodi	Materials Science and Engineering
	V V S Akhil	Materials Science and Engineering

Indian Institute of Technology Gandhinagar	Deshpande Shubham Gopal	Mechanical Engineering
	G Ramanan	Mechanical Engineering
	Kadam Omkar Devidas	Mechanical Engineering
	Kaushal R Modi	Mechanical Engineering
	Manvendra Singh Chauhan	Mechanical Engineering
	Nisarg Ujjainkar	Mechanical Engineering
	Rahil Sanwla	Mechanical Engineering
	Surve Sushrut Sudarshan	Mechanical Engineering
Indian Institute of Technology Kanpur	Chitipolu Gowtham	Mechanical Engineering
Indian Institute of Technology Kharagpur	Shreyas Singh	Computer Science and Engineering
Indian Institute of Technology Madras	Ashar Akhil Parag	Mechanical Engineering
	Siddharth Krishnan	Electrical Engineering
Indian Institute of Technology Ropar	S Deepak Narayanan	Computer Science and Engineering
Indian Institute of Space Science and Technology, Thiruvananthapuram	C R Greeshma	Materials Science and Engineering
Indian Oil Corporation Limited, Mathura	Deepti Gautam	Chemical Engineering
	Harsh	Chemical Engineering
	Varsha Singh	Chemical Engineering
	Sareem Sandeed	Civil Engineering
Indian Railway Institute of Civil Engineering, Pune	Bannelly Naresh	Civil Engineering
	Gopal Singh	Civil Engineering
	Nikhil Chandra	Civil Engineering
InfoStretch Corporation, Ahmedabad	Heer Ambavi	Computer Science and Engineering
Invention Factory IITGN, Gandhinagar	Chekkala Sai Srishal	Civil Engineering
	Kratika Bhagtani	Electrical Engineering
	Chavali Bharath Chandra	Electrical Engineering
	Akshat Bansal	Mechanical Engineering
	Karthik Subramanya Karvaje	Mechanical Engineering
	Suyash Patidar	Mechanical Engineering
Indian Space Research Organisation, Thiruvananthapuram	Sobhan Kumar Bhoi	Electrical Engineering
	Veeramallu Giridhar Sai	Electrical Engineering
	Navin Kumar	Electrical Engineering
	Ukey Vishal Hemraj	Mechanical Engineering
	Vikalp Lanjewar	Mechanical Engineering
ITC Limited, Mysore	Sakhalikar Pushpakraj	Mechanical Engineering
Jasubhai Engineering, Ahmedabad	Upendra Kumar	Mechanical Engineering
JSW, Mumbai	Ayaz Lakhani	Mechanical Engineering
	Saurav Nagar	Mechanical Engineering
L&T Hydrocarbon Engineering, Vadodara	Kshitij Sendre	Mechanical Engineering
L&T-Sargent & Lundy Limited, Vadodara	Pulkit Singhal	Civil Engineering
Mojo Networks, Pune	Pachpande Soham Kishor	Computer Science and Engineering
NHPC Limited, Faridabad	Krishan Kumar	Civil Engineering
Nielsen (India) Private Limited, Bangalore	Rajat Goel	Chemical Engineering
Nvidia, Bangalore	Apoorv Agnihotri	Computer Science and Engineering
ONGC, Hazira	Bhumika Sandilya	Chemical Engineering
Physical Research Laboratory, Ahmedabad	Aditya Anand	Electrical Engineering
	Chauhan Anand	Electrical Engineering
Pradeep Metals Limited, Maharashtra	Priyang Priyadarshi	Materials Science and Engineering
Strand Life Sciences, Bangalore	Shivdutt Sharma	Electrical Engineering
Synopsys Inc, Bangalore	Ansh Joshi	Electrical Engineering
Tata Institute of Fundamental Research, Mumbai	Ayan Rakshit	Materials Science and Engineering
Tata Motors, Ahmedabad	Tandale Atharva	Mechanical Engineering
Texas Instruments, Bangalore	Anand Yadav	Electrical Engineering
WhatBox Entertainment Private Limited, Bangalore	Gajapure Kshitij Dewanand	Computer Science and Engineering
White Panda, Gandhinagar	Rohan Gupta	Chemical Engineering

DOMESTIC INTERSHIPS (WINTER)

HOST INSTITUTION	STUDENT NAME	DISCIPLINE
ACM Summer School, Kanpur	Rohit sharma	Computer Science and Engineering
Centre for Creative Learning, IIT Gandhinagar, Gandhinagar	Pankaj Vatwani	Electrical Engineering
Deshpande Foundation, Hubballi	Anish Dubey	Chemical Engineering
Ernst and Young, Ahmedabad	Smeet Vora	Computer Science and Engineering
GeoCarte Radar Technology Private Limited, Gandhinagar	Garima Chaudhary	Civil Engineering
	Kushal Agrawal	Civil Engineering
	Tarun Sharma	Civil Engineering
Gram Fellowship, Bihar	Piyusha	Humanities and Social Sciences
Gyan Data Private Limited, Chennai	Siddharth Sheshadri K	Chemical Engineering
Hindustan Aeronautics Limited, Kanpur	Kunal Singhmar	Chemical Engineering
	Govind Kumar sharma	Chemistry
	Chirag M Korat	Mechanical Engineering
Indian Institute of Technology Gandhinagar	Sushrut Surve	Mechanical Engineering
	S Vinu Sankar	Computer Science and Engineering
	Shreyas Sreeram	Materials Science and Engineering
Khaitan Chemicals and Fertilizers Limited, Madhya Pradesh	Ankur Yadav	Chemical Engineering
MOSIMA, Madurai	M Naveen	Mechanical Engineering
National Fertilizers Limited, Noida	Navpreet Singh	Chemical Engineering
	Honey Kumar Singla	Civil Engineering
Re-Materials Private Limited, Ahmedabad	Yash Patel	Mechanical Engineering
STMicroelectronics, Noida	Rohit dawar	Electrical Engineering



CLASS OF 2018 GRADUATES PURSUING HIGHER STUDIES ABROAD

NAME	INSTITUTE	PROGRAMME	DISCIPLINE AT IITGN
BTECH			
Arul Mozhi Devan P	University of Alberta, Canada	PhD	Chemical Engineering
Mridul Pareek	Central European University, Hungary	MS	Chemical Engineering
Roy Nikhil Aditya	University of Florida, USA	MS	Chemical Engineering
Purvil Rahul Jani	Cornell University, USA	MS	Chemical Engineering
Aditya Sundaram	Cornell University, USA	MS	Chemical Engineering
Ramchandra Gawas	Drexel University, USA	PhD	Chemical Engineering
Veeravalli Sai Ganesh	University of Twente, Netherlands	MS	Civil Engineering
Heet Vasudevbbhai Patel	University of California San Diego, USA	MS	Civil Engineering
Vidhi Rasik Solanki	University at Buffalo, USA	PhD	Civil Engineering
Prakrut Kansara	University of South Carolina, USA	PhD	Civil Engineering
Kshiteej Sheth	École Polytechnique Fédérale de Lausanne, Switzerland	MS	Electrical Engineering
Vasudev Arvindkumar Gohil	Texas A&M University, USA	PhD	Electrical Engineering
Varun Aggarwal	Duke University, USA	PhD	Electrical Engineering
Chinmay Shirpurkar	University of Central Florida, USA	PhD	Electrical Engineering
Aketi Sai Aparna	Purdue University, USA	PhD	Electrical Engineering
Jugal Mehta	University of California, Davis, USA	MS	Materials Science and Engineering
Ankita Joshi	University of Michigan Ann Arbor, USA	MS	Materials Science and Engineering
M Barath Kanna	University of California Riverside, USA	MS	Materials Science and Engineering
Zainab Shabbar Patel	University of Washington, USA	MS	Materials Science and Engineering
Kaustubh Shirish Panse	University of Illinois at Urbana Champaign, USA	PhD	Materials Science and Engineering
Akhilesh Bhat	University of Pennsylvania, USA	MSE	Mechanical Engineering
Nishant Patel	Delft University of Technology, Netherlands	MS	Mechanical Engineering
Darshil Jitendrabhai Chauhan	New York University, USA	Graduate Studies	Mechanical Engineering
Relan Udit Surendra	University of Florida, USA	MS	Mechanical Engineering
Prasanna Sanjay Raut	University of Washington, USA	MS	Mechanical Engineering
Karan Gohil	Purdue University, USA	PhD	Mechanical Engineering
Vinod Ramakrishnan	University of California, San Diego, USA	PhD	Mechanical Engineering
Sai Mani Prudhvi Valleti	University of Tennessee, USA	PhD	Mechanical Engineering
MTECH			
Neha Gupta	University of Massachusetts, USA	PhD	Biological Engineering
Harsha Vardhan Tetali	University of Florida, USA	MS + PhD	Electrical Engineering
MSc			
Shivansh Kaushik	University of California Riverside, USA	Graduate Program	Chemistry
Ankush Tyagi	Arizona State University, USA	PhD	Chemistry
Afridi Zamader	Uppsala University, Sweden	PhD	Chemistry
Ayatri Singha	University of Glasgow, UK	PhD	Physics
Soumodeep Mitra	York University, UK	PhD	Physics
MA			
Prerna Subramanian	Queen's University, Canada	PhD	Humanities and Social Sciences

CLASS OF 2018 GRADUATES PURSUING HIGHER STUDIES IN INDIA

NAME	INSTITUTE	PROGRAMME	DISCIPLINE AT IITGN
BTECH			
Amit Bhongade	IIT Gandhinagar	MTech	Electrical Engineering
Anmol Gaur	IIT Bombay	MTech	Electrical Engineering
Yash Bohre	IIT Delhi	MDes	Mechanical Engineering
Venu Gopal Agarwal	IIT Delhi	MSR	Mechanical Engineering
MTECH			
Preetika Ghawri	IIT Gandhinagar	PhD	Biological Engineering
Ashutosh Jindal	IIT Bombay	PhD	Electrical Engineering
Kumar Saurav	Tata Institute of Fundamental Research	PhD	Electrical Engineering
Mohit lamba	IIT Madras	PhD	Electrical Engineering
Sarang Anant Kulkarni	IIT Madras	PhD	Materials Science and Engineering
Arpan Rout	IIT Gandhinagar	PhD	Materials Science and Engineering
MSc			
Surya Pratap Singh	IIT Kanpur	PhD	Chemistry
Kousik Loho	IIT Gandhinagar	PhD	Physics

AWARDS AND RECOGNITION

- **Ms Ayatri Singha**, a student of MSc Physics at IITGN, has been awarded the prestigious **Ronald Drever Scholarship** to pursue doctoral studies in gravitational waves at the University of Glasgow, UK
- **Gayathri Purushothaman**, a final year PhD student of Biological Engineering, attended the prestigious 68th Lindau Nobel Laureate Meeting, Lindau, Germany, June 24-29, 2018
- **Prajakta Jadhav**, a PhD student in Civil Engineering, received the **Young IGS Member Session Award** at the International Conference on Geosynthetics held in Seoul, South Korea
- **Neha Manav**, a PhD student in Chemistry discipline, received the prestigious **Shastri Research Student Fellowship** to undertake a research project on porphyrin-lipid conjugates under the mentorship of **Professor Gang Zheng** in the Department of Medical Biophysics at the University of Toronto, Canada
- **Anirban Roy**, a PhD student in the Electrical Engineering discipline, won two travel grants namely, the **International Travel Grant of the Department of Science and Technology**, and the **Zurich Instruments Student Travel Grant** for his doctoral work on the measurement of atmospheric carbon dioxide and water vapor in built-up urban areas in the Gandhinagar-Ahmedabad region in India using a laser
- **Chandan Kumar Jha**, a PhD student in Electrical Engineering, won the **Outstanding Results Award** for his oral presentation at the 26th Optical Fiber Sensors (OFS 26) conference held between Sep 24-28, 2018 at Lausanne, Switzerland. Chandan presented his research on “A fiber Bragg grating-based sensing glove with a sensitivity of 18.45 pm/degree to accurately assess finger flexure”
- **Tejas Mehta** and **Manikanta Mandlem** secured the second position in the Case Study event while **Abhinav** and **Karthik Karvaje** (all UG students) secured the fourth position in the Space Quiz at the National Students Space Challenge organised by IIT Kharagpur in collaboration with ISRO during Oct 5-7, 2018
- **Swaroop Chakraborty**, a PhD student in the Materials Science and Engineering discipline, received the **Best Oral Presentation Award** at the 5th International Conference on Nanomedicine and Tissue Engineering (ICNT-2018), held at Kottayam, Kerala
- **Vraj Patel, Rushil Shah, Pranjali Jain, and Sharad Joshi** won the BBC Hackathon on ‘Fighting Fake News’, which was conducted at the Google campus, Gurgaon on Nov 14-15, 2018
- **Joshna Gadhvi**, a PhD student, received an **Oral Presentation award** (3rd prize) at the 13th India-Japan Bilateral Conference, BICON-2018 held during Nov 25-28, 2018 at Jaipur
- **Avishek Kumar**, an MTech student, received the **Best Poster award** in the Polymer category at the International Conference on Soft Matter (ICSM) 2018, held at MNIT Jaipur
- **Anirban Roy**, PhD student, and **Rohan Chawhan**, an MTech student won the **Optical Society of America Best Poster Award** at Photonics 2018 (International Conference on Fiber Optics and Photonics) held at IIT Delhi in December 2018
- **Vraj Patel, Rushil Shah, Pranjali Jain, and Sharad Joshi** won the BBC Hackathon on ‘Fighting Fake News’, which was conducted at the Google campus, Gurgaon on Nov 14-15, 2018
- IITGN secured Gold in **BETiC Medical Innovation Challenge**, Bronze in the **Eye in the Sky**, 4th in **Case Study**, 7th in **Star Cluster Identifier** and 8th in **Campus Sustainability Challenge** at the 7th Inter IIT Tech Meet held at IIT Bombay. Overall, IITGN stood 9th in the tally
- **Saran Aadhar**, a PhD student in Civil Engineering, received the prestigious **Water Advanced Research and Innovation (WARI)** Internship program supported by the Department of Science and Technology, Govt of India, the University of Nebraska-Lincoln (UNL), the Daugherty Water for Food Institute (DWFI) and the Indo-US Science and Technology Forum (IUSSTF)
- **Harini Gunda**, a PhD student in Chemical Engineering, IITGN, has received an **AWSAR (Augmenting Writing Skills for Articulating Research)-DST award** for her research story. She also got an opportunity to attend the Science Film Training Workshop organised by Vigyan Prasara
- **Sanjay Kumar**, a PhD student in Biological Engineering

received an **Oral Presentation Award** (2nd Prize) at International conference on River Health: Assessment to Restoration (RHAR-2019), at IIT (BHU), Varanasi, Feb 14-16, 2019

- **Amit Reza**, a PhD student in Physics, IITGN, received the top **Poster award** at the International Conference titled 'Multi-messenger astronomy in the era of LIGO-India', at Khandala, India
- **Dr Oishi Roy**, a postdoctoral fellow in Archaeological Sciences, IITGN, has been awarded the prestigious **H D Sankalia Young Archaeologist Award** at a conference

of archaeology by the Indian Society of Prehistoric and Quaternary Studies (ISPQS)

- **Beena Kumari**, a PhD student in Chemistry, IITGN, received the **Best Poster Award** at the 4th International Conference on Aggregation-Induced Emission held at Australia
- **Rajendra Nagar**, a PhD student in Electrical Engineering, IITGN, has won the **Graduate Student Day Award** for his thesis work presented at the 25th National Conference on Communications (NCC) 2019, held at IISc Bangalore



EXTRA-CURRICULAR ACTIVITIES

UDAAN FAREWELL

Udaan was organised on Apr 15, 2018 to bid farewell to the 7th BTech, 6th MTech, 4th MSc, 3rd MA and 5th batch of PhD students of IIT Gandhinagar. The nostalgic evening had several cultural performances by the students and faculty. A few faculty members also shared their vision and experiences with graduating students. This was followed by a formal dinner.

STUDENT'S SUMMER TECHNICAL PROJECTS

The first edition of Students' Summer Technical Projects (SSTP) was held on May 14, 2018 by the Technical Council IITGN. This was conducted exclusively for 1st year BTech students. The institute provided support to three teams to work on their prototypes. The SSTP Programme is an initiative to encourage 1st year BTech students to gain hands-on experience by working on their projects. The selected teams worked on their projects from May 14 - July 3, 2018.

UNDERGRADUATE RESEARCH CONCLAVE

The third Undergraduate Research Conclave (UGRC) was organised at the campus on Aug 25, 2018. A total of 17 students presented posters on their research work in UGRC 2018 as a part of their summer internship program. The



conclave was organised by **Prof Iti Gupta**, **Prof Manish Kumar**, **Prof Krishna Kanti Dey**, and **Prof Vineet Vashista**. The Best Poster awards were won by **Anusha Kamath** and **Alrick Dsouza**.

IIT GANDHINAGAR'S GOT TALENT

IIT Gandhinagar organised its second edition of IIT Gandhinagar's Got Talent (IGT) during Sep 7-9, 2018. The program offered an opportunity to all the students to showcase their talents. The event witnessed students delivering some mind-blowing performances in dance, singing, drama, fashion show and many more.

ROBOT SUMO WRESTLING

IITGN organised its first Robot Sumo Wrestling competition on Nov 23, 2018. The students brought their robots into the ring and organised multiple round matches, which witnessed some amazing knockout matches. **Prof Madhu Vadali** was the coordinator of the competition.



AMALTHEA 2018

The 9th edition of Amalthea, the Annual Technical Summit of the institute, was organised on Oct 20-21, 2018 with a focal theme of 'Integrating Technologies'. The two-day long event witnessed lectures by eminent industrial experts from across the world, a symposium on 'Advancing Solar Power Generation', and also an interactive exhibition with some exciting display of different technologies. The participants also competed in various exciting techno-centric competitions. The event was inaugurated by **Mr Kush Saxena**, CTO, Mastercard, and **Prof Sudhir K Jain**, Director, IITGN.

JASHN 8.0

The 8th edition of the intra-college cultural festival Jashn was conducted during Jan 4-7, 2019. The four-day festival was filled with a lot of fun activities and some power-packed performances by the students.

HACKATHON

The Student Academic Council organised the second edition of HackRush - a 36-hour long hackathon for the students of IITGN during Jan 11-13, 2019. The participants came up with very impressive and productive solutions.

TECH RADIO

IITGN community is engaged in multiple projects around the year. Tech Radio is a student tech talk series started with an aim to provide a platform to students to showcase and explain their projects to the community, get constructive feedback and build their confidence. It is organised every Tuesday in an informal setting at the 2-degree café on campus. Each project gets 10 minutes slot.

WINTER CARNATIONS

This year's Winter Carnations was organised by the students on Jan 12, 2019. The carnival was lit up by colorful lights, tasty food, game stalls, and a rocking musical night by hosting **UDAAN-THE BAND**.

D-DINE DAY

IITGN celebrated the first D-Dine day with great zeal and enthusiasm on Jan 18, 2019. The students, faculty, and staff members cooked and served dinner to the mess and outlet workers to express the institute's gratitude towards them. The event was coordinated by **Prof Sivapriya Kirubakaran**.

STUDENT LEADERSHIP CONCLAVE

The second edition of the Student Leadership Conclave was held on Jan 5-6, 2019 at IITGN. The conclave attracted the participation of 33 student leaders from 19 IITs. The objective of the conclave was to provide a forum to discuss the experiences of students at various IITs with the goal of learning from each other. Several problems and their possible solutions were discussed.



MATHEGON 2019

An outreach event called Mathegon was organised by IITGN on Jan 19, 2019, to provide a platform to convey the excitement in mathematics to the young and bright minds. The event was coordinated by **Prof Akshaa Vatwani**.

STUDENT ENTREPRENEURSHIP ADVISORY COUNCIL

Entrepreneurship Initiative of IIT Gandhinagar (EII), organised the first edition of Student Entrepreneurship Advisory Council (SEAC) on Feb 3, 2019. It was attended by seven E-Cells from various colleges of Gujarat, IIT Jodhpur and IIT Indore.

MUSICAL PERFORMANCES

IITGN hosted three musical concerts during Feb 19-21, 2019. The performances comprised a sitar and tabla duet by **Mr**

Soumitra Thakur and **Mr Mahavir**, a South Indian Classical Music performance by **Dr Deepti Navaratna**, and a sarangi recital by **Ustad Murad Ali Khan**.

IGNITE 5.0

The intra-institute technological festival of IITGN, Ignite 5.0, was held during Mar 16-17, 2019. The two-day event included talks, workshops, quiz, games, laboratory visits, and some unique competitions. About 30 technical projects of students were put on display at the Project Expo.

RANGMANCH

Rangmanch has been initiated this year with the idea to provide a universal platform for anybody in the IITGN community to showcase their talents, be it music, dance, art exhibitions, or speeches. Rangmanch is aiming to promote performing arts culture as a part of our daily life.



ALUMNI ACTIVITIES

HOMECOMING 2018

The second edition of Homecoming, an annual alumni meet was held on Dec 22-23, 2018, which made the alumni relive their fun-filled student life. The two-day event kicked off with **Prof Sudhir K Jain** addressing the alumni at an open house. The students were taken down memory lane with some interesting activities like mini-Hallaboli, a campfire dinner, a campus tour and a cultural program.

ALUMNI FUNDRAISING DRIVE

A fundraising drive was conducted for the financial year 2018-19 through an annual appeal. The alumni response to the annual IITGN alumni appeal far exceeded the expectations with 375 gifts, representing a 27% participation rate among 1,368 IITGN alumni. Alumni giving at IITGN as a ratio far exceeds the alumni participation rate at other Indian educational institutes. Indeed, it exceeds the proportion of major public universities globally.





SPORTS NEWS

LEAGUE OF FOOTBALL PLAYERS

The 9th edition of intra-college football league was held during the period Jan 9 - Apr 16, 2018. It attracted a large group of enthusiastic, skillful and football crazy players in a full-fledged bidding process to form the teams for each season. There was noticeable participation from the faculty and staff as well.

SRIJA MEMORIAL LEAGUE

The students organized the 1st edition of Shrija Memorial League, the intra-college volleyball league in memory of **Ms Srija Vaddineni**, a senior volleyball player who sadly passed away while she was still a student. An enthusiastic response from the IITGN community resulted in eight teams being formed through an auction process. The event was organised from Feb 9 - Apr 26, 2018.

DISHA CUP

IIT Gandhinagar organised the 4th edition of Disha Cup sports tournament during June 22 - 24, 2018 with great enthusiasm and team spirit. The institute organises this event every year in order to motivate the ground staff and to make them feel as a part of the institution.

SUMMER FITNESS CAMP

This year the Summer Fitness Camp was organised during May 21 - June 14, 2018. The scope of this summer camp was to bring in the motivation of doing exercises daily among the IIT Gandhinagar community and convert that into their habit.

SUMMER SPORTS CAMP

The summer sports camp was organised for the second time from June 1-15, 2018 to continue the sports activity at IITGN in summers. The camp included basketball, cricket, football, gym, volleyball and yoga and was open to all IITGN community and SRIP students.

INTRA MURAL

IITGN hosted its 5th Intra-Mural opening ceremony in the concluding week of the Foundation Programme from Aug 20-24, 2018. The students made different groups, each with a unique name such as Team Aakash, Team Prithvi, Team Naag, and Team Agani. The groups gave dance performances that included several acrobatic moves, human pyramid, and zumba dance.

RELIANCE CUP

IITGN football team took part in the Reliance Foundation Youth Sports tournament for football. The tournament started on Sep 16, 2018. The team won both their matches 4-0 and 3-0 respectively.

SHAURYA 2018

IIT Gandhinagar participated in 15 different sports events in Shaurya 2018, an annual sports festival organised by IIM Ahmedabad from Sep 20-23, 2018. The frisbee team and badminton women's team made it to the semi-finals, while the basketball women's team made it to the first round.

ANNUAL SPORTS FEST OF DAIICT

At Concours '18, the Annual Sports Fest of DAIICT, held on Oct 28, 2018, the table tennis women's team comprising **Pranjali Borse**, **Nivedita Pradhan**, and **Aparna Rathi** won the tournament, whereas the men's cricket team emerged as runner-up in the finals.

INTER-IIT SPORTS MEET

IITGN took part in the 53rd Inter-IIT Sports Meet held during Dec 13-21, 2018 at IIT Guwahati. The women's team secured 4th position in both 4 x 100 m & 4 x 400 m women's relay. The institute also secured 4th and 5th position in the 200 m women's race and 6th and 7th position in the 100 m women's race, whereas the 800 m women's team made it to the finals. IITGN also secured the 4th position in the march-past.

INTER-IIT CULTURAL MEET

The third Inter-IIT Cultural Meet was held at IIT Roorkee during Dec 27-30, 2018. Of the 23 IIT's, IITGN secured an overall 8th position. Bronze medals were secured in Music (Duet Singing and Instrumental Event), FAS Design (Costume Designing), and Photography and Film Making (Online Photography).

JUSTICE LEAGUE TOURNAMENT

The IITGN basketball team stood 3rd at the Justice Cup 2019, the annual sports festival of GNLU, Gandhinagar, that was held during Feb 7-10, 2019.

HALLA BOL '19

Halla Bol, an intra-institute sports festival was organised during Mar 23-Apr 2, 2019. The 10-day event comprised many entertaining games including futsal, tug of war, frisbee, throwball, foot volley, gully cricket, 7 stones, 3-a-side baddy, dodgeball, street hockey, and kho-kho.

CASH AWARD FOR RESEARCH PUBLICATIONS

In its 9th meeting on March 28, 2013 the Board of Governors had approved a cash award scheme as an incentive for undergraduate and postgraduate students to publish in peer-reviewed journals. The following students were given cash awards during the year 2018-19:

NAME OF THE STUDENT	PROGRAMME	AMOUNT (Rs)
Anand Yadav	BTech	8333
Amit Kumar	MSc (alumnus)	12500
Surya Pratap Singh	MSc (alumnus)	12500
Sachin	MSc (alumnus)	12500
Harshit Kumar Agarwal	MSc (alumnus)	8333
Ayushi Tyagi	MSc (alumnus)	8333

Afridi Zamader	MSc (alumnus)	5000
Arushi Dev	MTech	25000
Aditya Vora	MTech (alumnus)	25000
Syed Azhar Ali	MTech (alumnus)	8333
Ajay Singh	MTech (alumnus)	25000
Gundeep Kaur Sudan	MTech (alumnus)	10000
G Rakesh	MTech (alumnus)	25000
Hemant Kumar Verma	MTech (alumnus)	12500
Ameya Dilip Deshpande	MTech (alumnus)	12500
Shubham Chouksey	MTech (alumnus)	25000
M Sai	MTech (alumnus)	12500
Rishi Dhawan	MTech (alumnus)	25000
Asim Bashir	MTech (alumnus)	25000
Vishal Kushwaha	MTech (alumnus)	25000

SCHOLARSHIPS FOR STUDENTS

MERIT-CUM-MEANS SCHOLARSHIPS

Merit-cum-Means (MCM) scholarships were awarded to 23 undergraduate and 26 postgraduate students during the academic year 2018-19. These scholarships are awarded to meritorious students (a high JEE/JAM rank for first year students and CPI greater than 6.5 for senior students), whose parents have limited income (up to Rs 4.5 lakhs per year). An MCM scholarship carries tuition fee waiver (current value Rs 90,000 per year for undergraduates and Rs 10,000 for postgraduates) and Rs 1,000 per month for ten months. This scholarship was available to undergraduate batch of 2015 and postgraduate students of 2017 and 2018. In addition, tuition fee waiver (freeship) was also awarded to 4 undergraduate and 3 postgraduate students. All students of SC/ST category avail full tuition fee waiver. In addition, 41 undergraduate and 16 postgraduate SC/ST category students whose parents' income was within the limit prescribed for MCM scholarships were granted the facility for free basic messing and a pocket allowance of Rs 250 per month for ten months.

S C MEHROTRA SCHOLARSHIP

The S C Mehrotra Scholarship is awarded to a second year civil engineering undergraduate student for the six semesters. A student who meets the MCM scholarship criteria is eligible for this scholarship. This scholarship carries an amount of Rs 1500 per month for ten months. **Gaurav Kumar, Jeetendra Kumar** and **Anurag Kumar Gupta** are the recipients of the scholarship for the year 2018-19.

PROF M H DIVEKAR SCHOLARSHIP

The Prof M H Divekar Scholarship is open for the third year UG students of chemical engineering. This scholarship is awarded every year to the student securing highest grade in chemical engineering courses at the end of third year. This scholarship carries an amount of Rs 2,000 per month for ten months. **Anusha Kamath M** is the recipient of this scholarship for the year 2018-19.

CLASS-OF-2016 SCHOLARSHIPS

The Class-of-2016 Scholarships have been awarded to three undergraduate students in 2018-19 as an MCM scholarships. Students with a minimum CPI of 6.5 (except first year) and whose family annual income is not more than Rs 8,00,000 are eligible to apply. The scholarship carries an amount of Rs 2,000 per month for ten months. **Mohammad Aslam, Bedmutha Manas Satish** and **Chavali Bharath Chandra** are the recipients of this scholarship for the year 2018-19.

MAHABIR PRASAD SULTANIA SCHOLARSHIP AND DURGA DEVI SULTANIA SCHOLARSHIP

These two scholarships are awarded to two undergraduate students every year. Students with a minimum CPI of 6.5 (except first year) and whose family annual income is not more than Rs 8,00,000 are eligible for these scholarships. Each scholarship carries an amount of Rs 5,000 per month for ten months. **Chitipolu Gowtham** is the recipient of Mahabir Prasad Scholarship and **Dip Nilim Das** is the recipient of Durga Devi Sultania Scholarship for the year 2018-19.

AMALTHEA SCHOLARSHIPS

The Amalthea Scholarships were instituted in 2016. Students (except first year) with a minimum CPI of 6.5 and whose family annual income is not more than Rs 8,00,000 are eligible to apply. The scholarship carries an amount of Rs 5,000 per month for ten months. **Rahul Yadav, P S K Sarma** and **Kailash Kumar** are the recipients of this scholarship for the year 2018-19.

LALITA J SHAH & JAYANTILAL B SHAH SCHOLARSHIP

The Lalita J Shah & Jayantilal B Shah Scholarship was instituted in the year 2016. Students (except first year) with a minimum CPI of 6.5 and whose family annual income is not more than Rs 8,00,000 are eligible for these scholarships. The scholarship carries an amount of Rs 2,000 per month each for ten months. **Mukesh Kumar** and **Rishabh Jain** are the recipients of this scholarship for the year 2018-19.

P K KELKAR SCHOLARSHIP

The P K Kelkar Scholarship was instituted in 2016. Students (except first year) with a minimum CPI of 6.5 and whose family annual income is not more than Rs 8,00,000 are eligible for this scholarship. The scholarship carries an amount of Rs 2,000 per month for ten months. **Akshay Mittal** is the recipient of this scholarship for the year 2018-19.

SRI TEMASEK@IITGN SCHOLARSHIP

The Sri Temasek@IITGN Scholarship was instituted in 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 of Rs 2,000 per month for ten months. **Amit Kumar Singh Yadav** is the recipient of this scholarship for the year 2018-19.

SATYARAM SCHOLARSHIPS

The Satyaram Scholarships were instituted in 2016. The number of scholarships increased from one to eight in the year 2017-18 and to eleven in the year 2018-19. Students with a minimum CPI of 6.5 (CPI is not applicable for first-year students) and whose family annual income is not more than 3 lakhs are eligible for this scholarship. The scholarship amount is Rs 1 lakh per year per student and a total of 11 scholarships were awarded Satyaram Scholarships in the year 2018-19. The scholarship carries an amount of Rs 10,000 per month for ten months. **K S Santosh, Agarwal Parth Sunil Kumar, Ayush Kumar Gupta, Narni Vishnu Karthikeya, Patel Vandan, Anuj Yadav, Ram Udit Saadh, Buddhiraj Sahu, Tella Selva Sowmya Rani, Amlin Jose and Yashi Gaur** are the recipients of this scholarship for the year 2018-19.

CLASS-OF-2015 SCHOLARSHIPS

The Class-of-2015 Scholarships were instituted in 2017. Students (except first year) with a minimum CPI of 6.5 and whose family annual income is not more than Rs 8,00,000 are eligible. The scholarship carries an amount of Rs 2,000 per month for ten months. **Rahil Sanwla** and **Prasad Athave** are the recipients of this scholarship for the year 2018-19.

KANDOI-DAIRKEE-GAURAV SCHOLARSHIP

The Kandoi-Dairkee-Gaurav Scholarship was instituted by three alumni of the pioneer batch (BTech graduates of 2012) at IIT Gandhinagar. This Merit-cum-Means Scholarship is awarded to a second or third year BTech student actively involved in non-academic activities of the Institute. Students with a minimum CPI of 6.0 and whose family annual income is not more than Rs 8,00,000 are eligible for this scholarship. The scholarship carries an amount of Rs 5,000 per month for ten months. **Suyash Patidar** is the recipient of this scholarship for the year 2018-19.

NITEEN P SANT SCHOLARSHIP

The Niteen P Sant Scholarship was instituted in the year 2014. Students with a minimum CPI of 6.5 who are in their second year and whose family annual income is not more than Rs 4,50,000 are eligible for this scholarship. The awardee receives a scholarship of Rs 20,000 for the academic year. **Shubham Raviprakash Baheti** is the recipient of this scholarship for the year 2018-19.

CHANDRAKANT & PATRICIA SCHOLARSHIP

The Chandrakant and Patricia Desai Scholarship was instituted in the year 2017. Students with a minimum CPI of 6.5 and whose family annual income is not more than Rs 8,00,000 are eligible for this scholarship. The scholarship carries an amount Rs 5,000 per month for ten months. **Pranjali Anil Borse** is the recipient of this scholarship for the year 2018-19.

PROF K V V MURTHY SCHOLARSHIP

The Prof K V V Murthy Scholarship was instituted in 2017. 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 of Rs 5,000 per month for ten months. **Gupta Sagar Rajeev** is the recipient of this scholarship for the year 2018-19.

Dr J L NAYYAR SCHOLARSHIP

The Dr J L Nayar scholarship was instituted in 2017 and is open to all fourth year UG students of IIT Gandhinagar. 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 amount is Rs 5,000 per month for ten months. **Jammu Tarun Kumar** is the recipient of this scholarship for the year 2018-19.

PROFESSOR D V PAI SCHOLARSHIP

The Prof D V Pai Scholarship was instituted in the year 2018 and is open to all second year students of MSc Program in Mathematics at IITGN. Students with a minimum CPI of 7.0 and whose family annual income is not more than Rs 8,00,000 are eligible to avail this scholarship. The scholarship amount is Rs 25,000 per year. In addition, there will be a book grant of total up to Rs 5,000. **Shrikant Shekhar** is the recipient of this scholarship for the year 2018-19.

Mrs SITA JHA MEMORIAL SCHOLARSHIP

The Mrs Sita Jha Memorial Scholarship was instituted in the year 2018. Students with a minimum CPI of 6.5 (CPI criterion is not applicable for first-year students) and whose family annual income is not more than Rs 8,00,000 are eligible to avail this scholarship. The scholarship amount is Rs 50,000 per year. **Arra Sriya** is the recipient of this scholarship for the year 2018-19.

SEVERAL OF THESE SCHOLARSHIPS WERE UPGRADED TO Rs ONE LAKH SCHOLARSHIPS DURING 2018-19.

SCHOLARSHIP FOR EXCELLENCE

IITGN has instituted several scholarships of excellence for outstanding performance in academics, sports, art and culture, and social work and leadership. These scholarships are different from the Merit-cum-Means scholarships and awarded only on the basis of outstanding achievements in the identified fields. The scholarship carries a stipend of Rs 2,000 per month for 10 months. Excellence scholarships for the academic year 2018-19 were awarded as follows:

SCHOLARSHIP FOR EXCELLENCE IN ACADEMICS

Ankit Ghanghas (CPI 8.83), **Anusha Kamath M** (CPI 9.64), **Shah Harshil Kalpeshkumar** (CPI 9.72), **Dsouza Alrick Cyril** (CPI 9.32) and **Aman Kamlesh Singh** (CPI 9.27) are the recipients of Scholarship for Excellence in Academics from BTech 2015 batch.

Animesh Rastogi (CPI 8.87), **Khili Khamesra** (CPI 9.20), **Atishay Jain** (CPI 10.00), **Shubhranshu Singh** (CPI 9.24), **Rahil Sanwla** (CPI 9.04) and **Ayan Rakshit** (CPI 9.34) are the recipients of Scholarship for Excellence in Academics from BTech 2016 batch.

Shivang Pareek (CPI 8.54), **Shreya Pamecha** (CPI 8.59), **Vraj Patel** (CPI 9.74), **Mithbavkar Ojas Shashikant** (CPI 8.98), **Shah Dhruvin** (CPI 9.37) and **Varun Dolia** (CPI 8.37) are the recipients of Scholarship for Excellence in Academics from BTech 2017 batch.

SCHOLARSHIP FOR EXCELLENCE IN SPORTS & GAMES

The Scholarship for Excellence in Sports & Games is awarded with an objective to encourage excellence in sports and games. Students in second, third and fourth year of their UG program can apply and each recipient is awarded Rs 2,000 per month for ten months. However, if the awardee is also recipient of any other scholarship of equal or higher value, then he/she is eligible only for a one-time receipt of Rs 5,000. **Jammu Tarun Kumar** was awarded the scholarship for Excellence in Sports & Games for the year 2018-19.

SCHOLARSHIP FOR EXCELLENCE IN ARTS & CULTURE

The Scholarship for Excellence in Arts & Culture is awarded with an objective towards promoting excellence in arts and cultural activities, wherein each recipient is awarded Rs 2,000 per month for ten months. However, if the awardee is also recipient of any other scholarship of equal or higher value, then he/she is eligible only for a one-time receipt of Rs 5000. **Sakhalikar Pushpakraj Shyamappa** and **Suyash Patidar** were awarded the scholarship for Excellence in Arts & Culture for the year 2018-19.

FINANCIAL SUPPORT TO STUDENTS

The institute provides the financial support in various forms to deserving students for their needs towards expenditures such as tuition fee, hostel and mess fee, books, computer, pocket expenses, medical emergencies (beyond what is covered by insurance), social and cultural activities, internships and educational tours, etc.

The terms for interest-free loans and financial grants are as below:

- The short-term loans will be provided with demonstrated needs for the above-state purposes from Student Benevolent Fund. The student may repay the loan using their stipend, personal sources or earning through the EWYL program.
- The long-term loans will be provided with demonstrated needs for the above-state purposes from Student Benevolent Fund. The students shall be provided interest-free loans with repayment dates extending up to maximum of 36 months from their respective dates of graduation.
- The financial grants will be provided to deserving students with demonstrated needs for the above-stated purposes from Student Benevolent Fund. Unlike the short-term and long-term loans, the financial support received from such grants are not deemed to be repaid by the beneficiary students.

STAFF ACTIVITIES



STAFF DEVELOPMENT CELL

Development of the non-teaching staff has been a specific area of focus at IITGN. The Staff Development Cell (SDC) has adopted a three-pronged approach to work towards staff development:

- professional training in specific areas of service
- general soft skill development
- development of a positive work environment

The SDC has been working towards generating a pool of staff which is proficient in the latest tools and practices by facilitating their professional training. The SDC emphasizes the development of generic soft skills. Ranging across divergent themes, the soft skills development has majorly focussed on communication and interpersonal skill sets. The SDC has engaged external and internal resources to achieve this. Just over the last year, 677 hours of sessions were conducted by external experts and additional 1950 hours were put in by IITGN's internal resources. A total of 2627 person-hours of training and development were achieved. The SDC is proud of the vibrant and synergistic work environment, an environment that is built on team spirit, collegiality and cooperation between individual staff members as well as between various sections. The activities conducted by SDC have always focussed on the importance of work-life balance and emotional awareness about co-workers to develop a stress-free work environment. The two flagship annual events of SDC, the STRIDES and Outbound Training (OBT) are the cornerstone of the efforts of SDC in this direction. In addition, this year has seen two major developments:

- a set of staff activity clubs have been setup through spontaneous and voluntary leadership of individual staff members, and
- an informal creative expression journal called The SDC-Bundle of Wisdom has been instituted.

The SDC is committed to making IITGN an outstanding and

exemplary workplace for the non-teaching staff and looks forward to interesting developments in the year ahead.

STRIDES- AN EVENING ABOUT YOU

'Strides-An Evening about YOU' was organised on Mar 9, 2019, by the Staff Development Cell (SDC) of IITGN. The IITGN community participated in various events to showcase their talents in dance, song or poem recitation, quiz games, and drama.

OUTBOUND TRAINING PROGRAMME 2.0

With an aim to facilitate healthy peer relationships, the Staff Development Cell, IITGN arranged the second edition of 'Leaps and Bounds', an Outbound Training Programme for the staff members on Dec 8, 2018. More than 85 staff members of IITGN enthusiastically participated in the programme at an eco-tourism campsite in Panchmahal district, Gujarat.

EXCELLENCE AWARDS TO STAFF

IITGN celebrated the 70th Republic Day on Jan 26, 2019 with flag hoisting and address to the community by Prof Sudhir K Jain. The following staff members were awarded the Staff Excellence Awards for the year 2018-19. Through these awards the Institute formally recognizes the sustained devotion and exemplary service of its employees.

Ms Meena Joshi, Assistant Registrar
Mr Saumil Shah, Senior Executive Officer
Mr Jigar Shah, Junior Accounts Officer
Mr Abhishek Gupta, Deputy Project Manager
Mr Dharmendra Panchal, Junior Engineer (Civil)
Mr Ashok Rathod, Housekeeping Supervisor
Mr Dharmesh Kapadiya, Junior Laboratory Attendant
Mr Rajesh Parmar, Driver
Mr Viral Chaudhary, Office Attendant
Mr Suresh Airi, Guest House Cook

OUTREACH ACTIVITIES



NYASA: IITGN COMMITMENT TO SOCIAL OUTREACH

IITGN continued its strong commitment to underprivileged children welfare through Nyasa. The children of neighbourhood migrant workers attend the daily school run by the volunteers and are actively engaged in several educational activities and general festive celebrations (Independence Day, Diwali, Ganesh Chaturthi, Hallaboli, Uttarayan, Birthday, Teacher's Day among others). The second phase of campus construction started in 2018 and there was a significant increase in the number of construction workers. Nyasa regularly conducted campus audits to keep track of the living conditions of the workers. To acquaint the incoming batch of students with the social outreach programmes of IITGN, Nyasa conducted a toys-from-trash session in the 2018 Foundation Programme. The 1st year students made various useful items such as slippers and umbrellas that can be made from readily available materials such as wood, cotton, plastic cups, etc. Nyasa also instituted a community teaching programme, called Chetana. Under Chetana, the professors, staff, and students of IITGN came together to conduct regular teaching sessions for construction worker's kids. This not only helped the children with their education but also served as an eye-opener for the teaching volunteers, acquainting them with the grassroots of India. This year saw a significant rise in the number of activities along with the impact that the events made on the society around us and we hope to continue this endeavor fervently.

SANJEEVANI HEALTH CAMP

Nyasa, IITGN in collaboration with Desai Foundation, Indian Institute of Public Health Gandhinagar (IIPHG), and



M S University, Baroda, organised annual Sanjeevani Health Camp for the residents of six nearby villages of Gandhinagar district and the grassroots workers at IITGN on Jan 27, 2019. The camp benefited over 700 people.

NYASA SUMMER CAMP

Nyasa, a social initiative by the IITGN community for the welfare of the construction workers and their families around the campus, organised its fourth edition of Annual Summer Camp for underprivileged kids. The camp aimed to impart fundamental yet essential knowledge of various fields such as basic awareness and English language. IITGN students successfully conducted six sessions on math puzzles, dance, english, craft, cricket, and football.

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. Since 2014, NEEV has conducted 48 projects and activities related to entrepreneurship and skill development for over 2000 youth and adults from the Ahmedabad/Gandhinagar areas,



including 15 villages near IITGN. **Ms Soumya Harish** is the coordinator, **Ms Shradha Jain** is the programme associate, and **Ms Roshni Patel** is the programme assistant of the NEEV programme.

ENTREPRENEURSHIP DEVELOPMENT

NEEV organises entrepreneurship development workshops that include topics such as idea generation, market research, negotiation, marketing, cost analysis, financials and basic business plan preparation, and offers post-workshop mentoring support. NEEV also organises entrepreneurship awareness sessions to promote entrepreneurship as a viable avenue of livelihood generation. The following entrepreneurship workshops and awareness sessions were conducted in 2018-19:

- A 5-day workshop was organised during June 18-22, 2018 at IITGN for 39 youth from villages such as Palaj, Basan, Prantiya, and Gandhinagar and Ahmedabad cities
- A 5-day workshop was organised during June 25-29, 2018 at Palaj village and IITGN for 24 women
- An awareness session on Aug 01, 2018 at Government Engineering College (GEC), Gandhinagar for 148 students of GEC Gandhinagar
- A 5-day workshop was organised during Aug 27-31, 2018 at Ratanpur village and IITGN for 28 women
- A 6-day workshop was organised during Oct 30 - Nov 04, 2018 at GLS University and IITGN for 41 students of Faculty of Business Administration, GLS University
- A 5-day workshop during Jan 28 - Feb 01, 2019 at Basan village and IITGN for 24 women. The lead facilitators for the workshops and awareness sessions include **Mr B R Venkatesh**, **Mrs Tejaswini Venkatesh** and **Mr Amit Mere** from MBTLA Mumbai, and **Ms Shradha Jain** and **Ms Soumya Harish** from NEEV.

SKILLS DEVELOPMENT

VOCATIONAL SKILLS TRAINING COURSE

NEEV conducted a vocational skills training course at IITGN from Apr 23 - Jun 14, 2018 for 34 youth from villages such as Palaj, Basan, Prantiya, Lekavada, Lavarpur, and from the Industrial Training Institute, Gandhinagar. This included eight-week training for participants enrolled in trades such as wiring, plumbing, welding, and two-week training for participants enrolled in CNC machining course. The course also included field visits to Gift City for plumbing students, thermal power plant for wiring students, and fabrication

workshops in Ahmedabad for welding students. The lead facilitators for the course were **Mr Ramesh**, **Mr Ramanand Prajapati**, **Mr Ashish Pandey**, **Mr Nirav Bhatt**, **Mr Palak Bagiya**, **Mr Tushar Brahmabhatt**, **Mr Ankur Navdiwala**, **Mr Supin Gopi** and **Mr Pragnesh Parekh** from IITGN.

STITCHING SKILLS TRAINING COURSE

With a focus on empowering rural women, NEEV conducts basic training course in sewing. The modules include measurement, marking, cutting and sewing. The following sewing courses were conducted in 2018-19:

- An 8-week sewing course during Apr 23-Jun 14, 2018 at Palaj village for 31 women
- An 8-week sewing course during Jul 02 - Aug 24, 2018 at Ratanpur village for 30 women
- An 8-week sewing course during Dec 03, 2018 - Jan 25, 2019 at Basan village for 29 women

Ms Mamta Parekh from Ahmedabad was the trainer for the course

COMPUTER SKILLS TRAINING COURSE

NEEV conducted an eight-week computer skills training course from Apr 23 - Jun 14, 2018 for 30 participants from villages such as Prantiya, Shahpur, Palaj, Basan, Chandrala, and Gandhinagar city. The course included basics of computer operation, MS office and use of the internet. **Mr Hitesh Patel** from Ahmedabad was the trainer for the course.

SPOKEN ENGLISH TRAINING COURSE

NEEV conducted an eight-week spoken English training course from Apr 23-Jun 14, 2018 for 26 participants from villages such as Palaj, Basan, Ratanpur, Shahpur, Firozpur and Chandrala. The course included modules on basic grammar, pronunciation, speech used in daily life, with the help of descriptive writing and speaking. **Ms Suzane Doshi** from Gandhinagar was the trainer for the course. The District Development Officer (DDO), **Mr Hitesh Koya** IAS, and the Taluka Development Officer (TDO), **Ms Janvi Patel**, were the chief guests of the valedictory function of NEEV's summer skill courses held on June 14, 2018. More than 100 trainees participated and were awarded certificates. Philanthropic support for several of NEEV's projects were provided by the Desai Foundation. ICreate India was the knowledge partner for NEEV's entrepreneurship projects.



IITGN INNOVATION AND ENTREPRENEURSHIP CENTRE

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

CURRENT INCUBATEES

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

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

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

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

MicoB Technologies (micob.in): MiCoB is an entrepreneurial venture started by a group of PhD students at IIT Gandhinagar. The company focuses on bringing automation solutions to various sectors ranging from civil engineering labs to large-scale construction projects. It aims to provide robust and high-performance 3D concrete printing solutions to the construction industry. MiCoB is in the process of developing a minimum viable product (MVP).

The MVP would be a mobile truck-mounted 3D concrete printer with thermal curing and shotcreting features. This product will be specially designed to cater to rapid on-site/near-site construction requirements like mass housing, shelter homes, bunkers and barracks.

Svakatha: It is a startup promoted by **Vivek Pujari**, a graduate from NIFT Gandhinagar. This startup is introducing design and apparels technology solutions to create new garments from old garment. He is also working on developing methods to remove dyes from the fabric and recycle them.

Startup Mentor Clinic: IIEC conducted regular startup mentor clinics to help and advise startups and students on various aspects of entrepreneurship, ideas of startups, feedback and suggestions to reduce the risk associated with the startups. The 18 Mentor clinics that were organised this year were attended by 70 participants (over 40 IITGN students) since May 2018.

TALKS AND PROGRAMS

- Founding the team by **Mr K Thyagrajan** and **Mr Madhu Mehta**, Mentors at IIEC and founding team members at I-create, July 20, 2018
- To be or not to be?! A session on what does it takes to embark into entrepreneurship as a career choice by **Mr K Thyagrajan**, Mentor, IIEC, IITGN, Sep 01, 2018
- New product idea to business innovation by **Dr Jayanta Chatterjee**, Adjunct Professor, IIT Kanpur, Sep 07-09, 2018
- Entrepreneurship and the role of design by **Mr Dheeraj Pandey**, Founder & CEO, Nutanix, Oct 02, 2018
- Blockchain masterclass by **Mr Babu Munagala**, Founder, CEO & Managing Director, Zebi, Nov 03, 2018
- Building early stage startups and valuations by **B V Jagadeesh**, managing partner, KAAJ Ventures and adjunct faculty, Leavey School of Business, Nov 12-17, 2018
- Product management masterclass by **Ms Nikita Maheshwari**, director, Product Management, Nutanix, USA, Nov 16, 2018
- Fundraising masterclass by **Mr Shripati Acharya**, co-Founder and managing partner, Priven Advisors, Dec 05, 2018
- Blockchain technology mythbuster by **Mr Kamalesh Dwivedi**, business partner, 3Lines Venture Capital, Jan 12, 2019
- Startup lifecycle management and how to prevent an early



Construction site of Research Park

death by **Mr Kamlesh Dwivedi**, business partner, 3Lines Venture Capital, Jan 26, 2019

- IITGN Innovation and Entrepreneurship Center (IIEC) organised a unique **Hyper Accelerator Programme** for technology startups during Jan 28-Feb 1, 2019. This intense program provided the participants in-depth understanding about various topics necessary for startups. **Mr Krishna Kunapuli**, a certified venture capital executive from UC Berkeley and founder of 3Lines Venture Capital, USA, and **Mr Kamlesh Dwivedi**, an active angel investor, a mentor and business advisor to early stage startup companies in USA and Business Partner at 3Lines Venture Capital, guided the participants of technology startups. On the last day, 13 teams presented their startup ideas/ plans to a panel of Jury. The event was coordinated by **Mr Anand Pandey**.

NOTABLE ACHIEVEMENTS

- IIEC partnered with Gujarat Industrial Development Corporation (GIDC), Government of Gujarat in evaluating the startup ideas submitted under Vibrant Gujarat Startup Grand Challenge 2018
- **Mr Shashank Shekhar**, founder of MiCoB Pvt Ltd was selected for Academia Industry Training (AIT) program for innovators and early-stage startups. He attended a training camp during Dec 02-07, 2018 at Bengaluru and Mumbai during Apr 01-05, 2019 at Lausanne and Zurich in Switzerland. The program was organised by the Department of Science and Technology (DST), Swissnex India and Society for Innovation and Entrepreneurship (SINE, IIT Bombay)
- **Mr Sunil Parmar**, founder of Powency Circuits was selected for the India Innovation Growth programme 2018 organised by the Department of Science and Technology, Government of India, Lockheed Martin and Tata Trusts. As part of the program, he received training at IIM Ahmedabad and an opportunity to pitch for investment.

IIT GANDHINAGAR RESEARCH PARK

The IIT Gandhinagar Research Park seeks to foster a powerful interplay between industry and academia, and thereby push the boundaries of innovation and research. Industries can set up their offices at the IIT Gandhinagar Research Park to carry out R&D activities. This allows them to be part of a vibrant community and gain access to R&D professionals, students and state-of-the-art R&D infrastructure at IIT Gandhinagar. The construction and commissioning of Research Park would take about one year and the Institute wished to start the park activities from the currently available building 9 in the academic area.

The following companies have already started operations from the currently available buildings in the academic area:

- Gujarat Urja Vikas Nigam Limited (GUVNL)
- BBC World Services Pvt Ltd
- WIN Foundation (Centre of Water & Sanitation)
- Tawata Technologies LLP
- E-infochips Limited
- DP Pulveriser Industries
- NASSCOM
- Pan IIT Alumni Reach for India Foundation (PARFI)

NASSCOM has taken 8,000 sqft space in the permanent buildings of the Research Park. Till the time buildings are not ready, we have provided approximately 2,000 sq ft space in the existing buildings of the Institute. We are at the final stage of negotiation with Optimized Solutions Ltd, which is expected to join in the Research Park soon.

CONSTRUCTION OF PERMANENT RESEARCH PARK COMPLEX

The construction planning of the permanent buildings of the Research Park was completed this year and the contract for construction was awarded to M/s B L infra projects Pvt Ltd by CPWD. The work on the site has also started from June

2018. The construction work is going on in full swing and it is expected that the building will be ready by December 2019. The buildings are planned on a 1.43 ha irregular spur shaped site that slopes down to the 10m deep ravines. It is proposed to build around 19,070 m² which is considered as the buildable capacity of the site. Of this, about 12,452 m² will be constructed as fully finished set of buildings and 6,618 m² will be constructed as warm shell structures.

- **Progress Review Meetings:** The institute is periodically convening meetings to review the progress made by the institute towards establishing the Research Park and to seek advice on the way forward in terms of plans for construction, process of construction, charges and agreements with companies, funding requirements etc. **Mr H K Mittal**, Advisor Department of Science and Technology, Government of India attended the meetings and shared his thoughts on various issues.
- **Building Works Committee:** The Building Works Committee of the Institute, which meets almost every month monitors the overall planning and execution of the activities of the Research Park construction.
- **Advisory Council:** To effectively pursue our initiatives the Institute has constituted an Advisory Council for IIT Gandhinagar Research Park along with IIEC. **Mr Kris Gopalakrishnan**, co-founder Infosys Ltd has chaired the Council. The second meeting of the council took place on Feb 14, 2019. Eminent personalities from different industries visited the Institute during the Second Advisory Board Council of Research Park including **Ms Soumya Rajan**, founder, MD & CEO, Waterfield Advisors, India **Mr R Gopalakrishnan**, executive director, Tata Sons Ltd, **Mr N G Subramaniam**, chief operating officer and executive director, Tata Consultancy Services, **Mr Vijay Kumar Ivaturi**, co-founder and CTO, Crayon Data, **Mr H K Mittal**, scientist G, adviser, member secretary, National Science & Technology Entrepreneurship Development Board (NSTEDB), **Mr Ashank Desai**, chairman & MD, Mastek Limited, **Mr Anand Parekh**, president, Textile Business, Reliance Industries and **Mr Sanjay Randhar**, managing director, GVFL. The main objectives of the council include: a) set up the strategy and goals of the Research Park help with networking hence getting clients for the Research Park b) attract mentors for startups c) facilitate funding for startups or create a startup fund.
- **Meetings of the Statutory Board:** The IIT Gandhinagar Research Park Board also reviews the progress of the Research Park development in the Board meetings. Nine meetings of the Board have been convened to date.

- **Coffee hour for Research Park occupants and faculty:** To provide a platform for interaction between faculty members from various disciplines and the Research Park occupants, a coffee hour is organised every alternate week in the Research Park complex in building 9.

NEW COMPANIES IN RESEARCH PARK

The Pan-IIT Alumni Reach for India Foundation (PARFI) started operations from the Research Park from Mar 1, 2019. **PARFI** is a not-for-profit section 25 social enterprise, managed by Pan-IIT professionals and domain experts, committed to execute and scale self-sustainable business models that enhance incomes of the underprivileged sections. It is overseen by an advisory board of IITians and invitees from various walks of life including corporate, academia

INTELLECTUAL PROPERTY

During the year 2018-19, a total of 15 invention disclosures were generated by the faculty and students out of which 5 were filed at the Indian Patent Office and 2 invention disclosures are in the process of filing. The patents filed are as follows:

1. An automated story-creation and story-telling platform: Inventors are **Prof Uttama Lahiri**, Electrical Engineering, **Mr Krishnappa Babu Pradeep Raj**, Centre for Cognitive Science and **Ms Sujata Sinha**, Computer Science & Engineering, IITGN
2. Additive manufacturing using self compacting concrete: Inventors are **Prof Manish Kumar**, Civil Engineering, **Mr Shashank Shekhar**, Civil Engineering and **Mr Rishabh Mathur**, Mechanical Engineering, IITGN
3. Pharmaceutical compound and process for preparing the same: Inventors are **Prof Sivapriya Kirubakaran**, Chemistry, **Ms R Srimadhavi Ravi**, Chemistry, **Mr Althaf Shaik**, Chemistry, and **Dr Sugata Barui**, Chemistry, IITGN
4. Process for preparing fluorescent carbon based quantum dots: Inventors are **Prof Kabeer Jasuja**, Chemical Engineering, **Mr Saroj Kumar Das**, Chemical Engineering and **Mr Ramchandra Gawas**, Chemical Engineering, IITGN
5. A current source array for systematic effect compensation in high resolution high-speed digital to analog converters: Inventors are **Prof Nihar Ranjan Mohapatra**, Electrical Engineering and **Mr Satyajit Mohapatra**, Electrical Engineering, IITGN

EXTERNAL RELATIONS



NASSCOM IN RESEARCH PARK

An agreement was signed on May 19, 2018 in the presence of the Chief Minister of Gujarat, **Shri Vijaybhai Rupani** and the Chief Secretary of Gujarat, **Mr J N Singh, IAS, Mr Dhananjay Dwivedi, IAS** and **Ms Sandhya Bhullar,**

IAS, Mr Harish Mehta, founder Chairman of NASSCOM, **Mr Nirmal Jha** of IIT Gandhinagar, and **Mr Sanjeev Malhotra** of NASSCOM. Under this agreement, the National Association of Software and Services Companies (NASSCOM) will set up a Centre of Excellence for Internet of Things (IoT) at the IITGN Research Park.

MoU WITH INDIAN NAVY

The Indian Navy entered into a Memorandum of Understanding (MoU) with IIT Gandhinagar on May 7, 2018 to promote academic cooperation and enhance

scientific understanding of technologies related to defense. As per the agreement, IITGN will also accept naval officers in its masters and doctoral programmes for various disciplines.

MoUs

IITGN has been constantly building strong and mutually beneficial relationships with internationally renowned academic institutions and non-academic organisations. Several partnerships forged in the year 2018-19 will benefit the students and the faculty.

INTERNATIONAL

ORGANISATION / INSTITUTION	OBJECTIVE
Mr Navin Doshi and Ms Pratibha Doshi of Los Angeles, California, USA and IIT Gandhinagar Foundation, USA	To establish Kanchan and Harilal Doshi Chair to support the area of water purification and sanitation
Dr Anil K Chopra and Mrs Hamida Banu Chopra, Orinda, California and IIT Gandhinagar Foundation, USA	To establish Maulana Abul Kalam Azad Chair at the Institute for teaching Urdu language and literature
California Institute of Technology, USA	Summer Undergraduate Research Fellowship (SURF) program at Caltech
Wheels India Niswarth Foundation, USA	To establish IITGN Wheels Collegiate fellowship to encourage college students of Indian origin based in USA
Japan Advanced Institute of Science and Technology, Japan (JAIST)	To promote mutual academic, student exchanges and research exchanges
Mr Aniket Singh, Santa Clara, California, USA and IIT Gandhinagar Foundation, USA	To support IITGN's summer research internship programme
Prof A V Anilkumar, California, USA and IIT Gandhinagar Foundation, USA	To establish Smt Amba & Sri V S Sastry Distinguished visiting chair
Invention Factory and IIT Gandhinagar Foundation, USA	To run Invention Factory programme at IITGN
Maker Bhavan Foundation, California, USA and IIT Gandhinagar Foundation, USA	To foster experiential learning, design thinking, creativity and innovation among students across all disciplines

NATIONAL

ORGANISATION / INSTITUTION	OBJECTIVE
Indian Navy	To promote academic cooperation and enhance scientific understanding of technologies related to defense
EdCIL (India) Limited, Noida	To increase the inflow of inbound international students
QS- IGAUGE Indian College & University Rating	To improve international recognition of IIT Gandhinagar
Confederation of Indian Industry, Ahmedabad	To provide platform and engage Industries in Gujarat
Embassy of France in India	French language tutor programme
Archaeological Survey of India (ASI), New Delhi	To carry out multispectral drone survey of the Harappan site of Dholavira
National Coordinating Institute Unnat Bharat Abhiyan, MHRD - Indian Institute of Technology Delhi	To participate in Unnat Bharat Abhiyan as a Regional Coordinating Institute (RCI) for the 17 districts of Gujarat

RESEARCH PARK

ORGANISATION / INSTITUTION	OBJECTIVE
Indian Institute of Public Health Gandhinagar	To set up and operate a project office at IITGN
Tawata Technologies LLP, Ahmedabad	To set up and operate an R&D Unit at IITGN
The National Association of Software and Services Companies (NASSCOM) and Department of Science & Technology, Govt. of Gujarat	To set up a Centre of Excellence for Internet of Things (IoT) at the IITGN Research Park
DP Pulveriser Industries, Mumbai	To design (Process design and Mechanical design) of size reduction system and characterisation of micronized powders



REACHING OUT

Prof Sudhir K Jain, was the Chief Guest for the Convocation Ceremony at the Indian Naval Academy, Ezhimala, Kerala, on Nov 25, 2018.

Prof Sudhir K Jain participated in a panel discussion on India 3.0 - Driving disruptions from within at the NEXT CIO Leadership Forum 2018 organised by Nutanix in Mumbai on Oct 04, 2018.

Prof Pratik Mutha, Prof Nithin George, Prof Vineet Vashista and Prof Manish Jain visited six universities of the US (Stanford University, University of California Berkeley, Carnegie Mellon University, Columbia University, New York University and Massachusetts Institute of Technology) from May 19 - June 2, 2018 to learn about their experiences with designing "Maker Spaces". IITGN aims to put greater emphasis on hands-on training and "learning-by-doing",

which are facilitated through such spaces. The visits were aimed at understanding the philosophy of such programs, how they are integrated into the curriculum and also some managerial aspects. These experiences will inform the development of prospective maker spaces at IIT Gandhinagar in due course.

Prof Sudhir K Jain visited Maker Spaces at the University of California at Berkeley, Massachusetts Institute of Technology, and Carnegie Mellon University in June 2018. He also reached out to numerous well wishers of the Institute in San Francisco, Los Angeles, Boston, New York, Tampa and Washington DC area. He was accompanied by **Prof Chelva Kumar, Prof Achal Mehra and Prof Gaurav Srivastava** at some of these places. Prof Jain visited several well wishers in Los Angeles and San Francisco area and participated in Indiaspora Leadership Forum 2018 in San Jose, USA during Sept 7 - 9, 2018.

SUPPORT FOR THE INSTITUTE

MAJOR NEW GIFTS

KANCHAN AND HARILAL DOSHI CHAIR



Mr Navin Doshi and **Mrs Pratima Doshi** of Los Angeles, California have set up the **Kanchan and Harilal Doshi Chair** in honour of Mr

Navin Doshi's parents. The Chair is expected to identify and initiate research and develop cost-effective and sustainable technologies/solutions for water purification and sanitation. Mr Navin Doshi, who grew up in Mumbai, is a graduate of Pune Engineering College and the LD Engineering College of Gujarat University, and holds a Master's degree in Electrical Engineering from the University of Michigan, Ann Arbor. He worked as an Aerospace Engineer at TRW (now Northrop), where he was the recipient of NASA awards and US patents. He also ran highly successful businesses with his wife Pratima. Kanchan & Harilal Doshi Chair in water and sanitation was inaugurated on Jan 15, 2019 with a felicitation event for **Mr Navin Doshi** and **Mrs Pratima Doshi**, who have established the chair in honour of Mr Navin Doshi's parents. **Prof Jaichander Swaminathan** has been appointed to the Kanchan & Harilal Doshi Chair.

SMT AMBA AND SRI V S SASTRI DISTINGUISHED VISITING CHAIR



Prof A V Anilkumar has set up a Distinguished Visiting Chair at the institute to promote institutional excellence, in honor of his parents **Smt Amba and Sri V S Sastri**. Under this chair, every year, a currently active distinguished academic of international stature, in science, engineering, or humanities, will be invited to spend at least a month at IITGN for lectures, interactions, and research collaborations. Prof Anilkumar is an aerospace engineer on the faculty at Vanderbilt University. He was a NASA investigator of microgravity fluid flow phenomenon and his current interests include novel energy conversion systems for airplane flight.

MAKER BHAVAN



Dr Hemant Kanakia, Co-Founder and former Chief Executive Officer, Gemplex Internet, Inc., USA, has committed a large donation to establish the Maker Bhavan at the Institute. The Maker Bhavan is envisioned as a multidimensional maker space on campus to foster experiential

learning, design thinking, creativity and innovation among students across all disciplines. It aims to provide the necessary tools, resources, facilities, people, and equipment for both curricular and extracurricular activities.

MAULANA ABUL KALAM AZAD CHAIR



Maulana Abul Kalam Azad Chair in Urdu was inaugurated on Feb 2, 2019, in memory of Maulana Azad, India's first Minister of Education. **Mrs Hamida Banu Chopra** from California, USA has established a generous endowment to support the Chair.

NEW SCHOLARSHIPS

BHAI SURESH MOHAN MITTAL SCHOLARSHIP



Shri Sudhir Mohan Mittal has set up a scholarship of Rs 1 Lakh per year for BTech students, in memory of his brother **Bhai Suresh Mohan Mittal**. The objective is to award an excellence scholarship to one student every year to carry out summer research internship overseas. **Shri Sudhir M Mittal** is currently the Director in Sukriti Vidyut Udyog (P) Ltd, Ghaziabad. He did his BTech in Chemical Engineering from IIT Kanpur. He is involved in numerous social projects and is currently President, Vardan Sewa Sansthan that runs an eye hospital and a 280 bed hospital in Ghaziabad.

PROF S P SUKHATME SCHOLARSHIP

Prof S P Sukhatme has set up a scholarship of Rs 1 lakh per year for the BTech students at IIT Gandhinagar. The scholarship will be awarded to a student every year to carry out summer research internship overseas. Prof Sukhatme has been a faculty member in the Department of Mechanical Engineering at IIT Bombay since 1965 and served as the Director of the Institute from 1995 to 2000. He is known for his outstanding contributions to teaching and research in the fields of Heat Transfer and Energy. Prof Sukhatme was awarded the Padma Shri by the Government of India in 2001. Prof Sukhatme obtained his undergraduate degree from Banaras Hindu University and did his postgraduate studies at the Massachusetts Institute of Technology.

BIPIN ANDREKHASHAH SCHOLARSHIP

Mr Bipin Shah has set up a scholarship to support the UG students for overseas summer research internship in the area of Electrical Engineering. The scholarship is awarded every year to a UG student of Electrical Engineering. Mr



Bipin Shah is CEO and Chairman of Kovair Software in San Ramon, California. He holds a BEE (hons) degree from Jadavpur University, Kolkata and a MSEE from the University of Wisconsin. He has mentored three start-ups and has been active in several non-profit organisations as well. Mr Shah is also a co-founder of the IIT Gandhinagar Foundation in USA.

VIMALA SRINIVAS SCHOLARSHIP



The **Vimala Srinivas Scholarship** at IITGN is set up by **Mr Sai Chowdhary Gullapally** (BTech 2016) in honour of his parents. The scholarship of Rs 1 lakh per year is to support the undergraduate students for international internships, projects and other needs. This is the first-such scholarship at IITGN set up by a single alumnus. Sai Chowdhary Gullapally is a BTech alumnus of the Class of 2016 with a major in Electrical Engineering and has done his Masters in Intelligent Systems, Robotics and Controls from ECE Department of the University of California San Diego. He currently works as a machine learning engineer with Path AI, an artificial intelligence and healthcare startup in Boston.

SHRI ARJUNRAJ MANAKRAJ MEHTA SCHOLARSHIP



Mr Rounak Mehta (BTech 2015) has set up a scholarship of Rs 1 lakh per year for undergraduate students in honour of his grandfather **Shri Arjunraj Manakraj Mehta**. This scholarship will support undergraduate students for international internships, projects, and other needs. Shri Arjunraj Manakraj Mehta was a self-made businessman who believed in the power of education and was passionate about supporting those seeking to learn. Rounak Mehta pursued Masters in Engineering Management from Duke University and currently works as a Data Scientist at Salesforce in San Francisco. His grandfather's aims to spread his values and honour his legacy.

ASHOK JAIN SCHOLARSHIP



Mr Sarthak Jain (BTech 2012) has set up a scholarship of Rs 1 lakh per year for undergraduate students in honour of his late father **Mr Ashok Jain**. This scholarship will support international internships, projects, and other needs. Sarthak has been a serial entrepreneur and set up his first venture while still a student at IITGN. He is the co-founder and CEO of his latest venture NanoNets: Machine Learning API.

AJODYABAI GULABCHANDJI RANDAD SCHOLARSHIP



Mr Akshay Randad (BTech 2015) has set up a scholarship of Rs 1 lakh per year for undergraduate students in honour of his late grandmother **Late Ajodyabai Gulabchandji Randad** as an expression of gratitude towards his alma mater. This scholarship will support the international internships, projects and other needs. Mr Akshay Randad completed a masters degree in Mechanical Engineering from the University of Washington, Seattle. He works as a Transducer Engineer at Applied Physics Lab at the University of Washington Seattle and plans to join as an R&D engineer with a medical device company Sonomotion Inc in the Bay Area (US).

VINAY GUPTA SCHOLARSHIP



Mr Luv Gupta (BTech 2012) has set up a scholarship of Rs 1 lakh per year for undergraduate students in honour of his father **Shri Vinay Kumar Gupta**. This scholarship will support the international internships, projects and other needs. Mr Luv Gupta obtained an MS in Chemical Engineering at Stanford University. He has worked with firms such as Verizon in Data Science and Business Analytics domain and is currently a data scientist with Uber in the San Francisco Bay Area, US.

DONORS LIST

NAME	CATEGORY	CITY
MORE THAN RS 5 CRORE		
Kiran & Pallavi Patel Family Foundation	well-wisher	Tampa, Florida, USA
RS 1 CRORE - 4,99,99,999		
Navin Doshi	well-wisher	Los Angeles, USA
WIN Foundation	well-wisher	USA
Hemant Kanakia	well-wisher	Washington DC, USA
RS 25,00,000 - 99,99,999		
A V Anilkumar	well-wisher	Nashville, USA
Anil and Hamida Banu Chopra	well-wisher	Orinda, USA
Ruyintan Mehta	well-wisher	New Jersey, USA
Anonymous	well-wisher	New York, USA
Tata Motors Limited	well-wisher	Mumbai
RS 5,00,000 - 24,99,999		
Ramesh Gaonkar	faculty	New York, USA
Sudhir K Jain	faculty	Gandhinagar
Nirmal Jha	staff	Gandhinagar
Desai Foundation	well-wisher	Mumbai
Singhal Iyer Family Foundation	well-wisher	Mauritius
Gujarat Informatics Limited	well-wisher	Gandhinagar
Milacron India Private Limited	well-wisher	Ahmedabad
Cumulus Systems Private Limited	well-wisher	Pune
Technocraft Industries India Limited	well-wisher	Mumbai
Rajesh Mashruwala	well-wisher	Palo Alto, USA
Sudhir Mohan Mittal	well-wisher	Ghaziabad
Avi Nash	well-wisher	New Jersey, USA
S P Sukhatme	well-wisher	Mumbai
Bipin Shah	well-wisher	California, USA
Piyush Shah	well-wisher	Ahmedabad
Sumanben Charitable Trust	well-wisher	Mumbai
Venkatsai Laxman Vangipurapu	well-wisher	Hyderabad
RS 1,00,000 - 4,99,999		
Sarthak Jain	BTech/EE/2012	San Francisco, USA
Akshay Randad	BTech/ME/2015	San Francisco, USA
D P Roy	faculty	Gandhinagar
R Sharan	faculty	Gandhinagar
C S Sharma	staff	Gandhinagar
Kamalesh Dwivedi	well-wisher	Colorado, USA
Yes Bank Limited	well-wisher	Mumbai
Kirat Patel	well-wisher	Mumbai
K E Seetha Ram	well-wisher	Chennai
G Venkatappa Rao	well-wisher	Hyderabad
Pankaj Shah	well-wisher	Massachusetts, USA
Rajendra Shah	well-wisher	California, USA
B R Shroff	well-wisher	Vadodara
Aniket Singh	well-wisher	California, USA
RS 25,000 - 99,999		
Abhishek Kandoi	BTech/ME/2012	Dubai
Rounak Mehta	BTech/ME/2015	San Francisco, USA
Akash Keshav Singh	BTech/ME/2015	Pune
Sai Chowdary Gullapally	BTech/EE/2016	Greater Boston Area, USA
Manish Jain	faculty	Gandhinagar
Gopinadhan Kalon	faculty	Gandhinagar
Achal Mehra	faculty	Gandhinagar
S P Mehrotra	faculty	Gandhinagar

NAME	CATEGORY	CITY
Neeldhara Misra	faculty	Gandhinagar
Harsh Bhargava	well-wisher	New Jersey, USA
IIT BHU	well-wisher	Varanasi
Kishan Kandoi	well-wisher	Jodhpur
Gaurav Sant	well-wisher	California, USA
Shyam Sundar	well-wisher	Connecticut, USA
Vijay Singh	well-wisher	Los Angeles, USA
Nitish Thakor	well-wisher	Clarksville, USA
Anjaleem Good Cause Trust	well-wisher	Vadodara
Institute of Technology and Management Universe	well-wisher	Vadodara
Paresh Jashwantraai Vora	well-wisher	Ahmedabad
RS 5,000 - 24,999		
Luv Gupta	BTech/CL/2012	San Francisco, USA
Pratyul Kapoor	BTech/CL/2012	Bangalore
Prathmesh Juvatkar	BTech/EE/2012	San Francisco, USA
Suguru Kundan	BTech/EE/2012	Gandhinagar
Neel Nadkarni	BTech/EE/2012	Boston, USA
Sushmitha Yalla	BTech/EE/2012	Washington, USA
Tanmay Balwa	BTech/ME/2012	Pune
Adit Gupta	BTech/CL/2013	Bengaluru
Shaline Kavadiya	BTech/CL/2013	St Louis, USA
Nagender Singh	BTech/CL/2013	Rewari
Chetas Joshi	BTech/EE/2013	San Francisco, USA
Rajat Jain	BTech/ME/2013	Mumbai
Shyamal Kishore	BTech/ME/2013	Kingston, USA
Mohak Patel	BTech/ME/2013	Mehsana
Prashant Patel	BTech/ME/2013	Alberta, Canada
Anirudha Vishvakarma	BTech/CL/2014	Ahmedabad
Hoosein Safdari	BTech/EE/2014	San Francisco, USA
Katre Vibhav Vikas	BTech/EE/2014	Thane
Deshmukh Sumit Hemant	BTech/ME/2014	Thane
Akanksha Sharma	BTech/ME/2014	Bangalore
Sukriti Gakhar	BTech/CL/2015	Davis, California, USA
Tushti Shah	BTech/CL/2015	Mumbai
Vaibhav Gandhi	BTech/EE/2015	Ahmednagar
Aashrith Saraswathibhatla	BTech/ME/2015	Kondapur
Sachchit Vekaria	BTech/ME/2015	Bengaluru
Chinmay Ajnadkar	BTech/EE/2016	New Delhi
Rakesh Ranjan	BTech/ME/2016	Jalgaon
Manu Chaudhary	BTech/CE/2017	Ahmedabad
Prerna Singh	BTech/CE/2017	Atlanta, USA
Priyanka Bansal	BTech/CL/2017	Ahmedabad
Bhargav B Chauhan	BTech/ME/2017	Ahmedabad
Poonam Meena	MA/HSS/2018	Kotputli, Rajasthan
Kinley Mehra	MSc/CG/2015	Torrington, USA
Ujjval Ashokkumar Pamnani	MSc/CG/2015	Pune
Vipin Kumar	MSc/MA/2016	Ghaziabad
Himanshu Kumar Singh	MSc/CH/2017	Aligarh
Ravinder Kumar	MTech/ME/2018	Baddi, Himachal Pradesh
Neeraj Kumar	PhD/HSS/2014	Montreal, Canada
Alpana Thorat	PhD/CL/2016	West Lafayette, Indiana
Siddharth Vijay Kulkarni	PhD/CL/2017	Mumbai
Anonymous	faculty	Gandhinagar
Chandra Kumar Appayee	faculty	Gandhinagar
Prasanna Venkatesh Balasubramanian	faculty	Gandhinagar

NAME	CATEGORY	CITY
Atul Bhargav	faculty	Gandhinagar
Arup Lal Chakraborty	faculty	Gandhinagar
Michel Danino	faculty	Gandhinagar
Shivakumar Jolad	faculty	Gandhinagar
Mohan C Joshi	faculty	Gandhinagar
Ragavan K	faculty	Gandhinagar
Harish P M	faculty	Gandhinagar
Sharmistha Majumdar	faculty	Gandhinagar
Jaison Manjaly	faculty	Gandhinagar
Nihar Ranjan Mohapatra	faculty	Gandhinagar
Vinod Narayanan	faculty	Gandhinagar
Ajanta Sachan	faculty	Gandhinagar
Sudhanshu Sharma	faculty	Gandhinagar
Meera Mary Sunny	faculty	Gandhinagar
Urjit A Yajnik	faculty*	Mumbai
Meena Joshi	staff	Gandhinagar
T S Kumbar	staff	Gandhinagar
Pijush Majumdar	staff	Gandhinagar
Sunita Menon	staff	Gandhinagar
Anand Pandey	staff	Gandhinagar
Santosh Raut	staff	Gandhinagar
Anonymous	well-wisher	USA
Paypal Giving Fund	well-wisher	USA
Bishwajit Ganguli	well-wisher	Gandhinagar
Rajkishore Govindu	well-wisher	San Francisco, USA
Paul C Jennings	well-wisher	Pasadena, USA
Rita & Minesh Kinkhabwala	well-wisher	New Jersey, USA
Hari Kumar	well-wisher	New Delhi
Ravindra Kumar	well-wisher	Dehradun
Sharad N Medhekar	well-wisher	Pune
Ram Misra	well-wisher	Montville, USA
Aditya Pathak	well-wisher	USA
Raghvendra Pratap Singh	well-wisher	USA
Balkrishna B Soneji	well-wisher	Ahmedabad
Chandra M Srivastava	well-wisher	New Jersey, USA
UPTO RS 4,999		
Kanchan Patel	BTech/CL/2012	Pune
Amit Asher	BTech/EE/2012	Mumbai
V Naveen Deepak	BTech/EE/2012	Pune
Naveen Kumar Endla	BTech/EE/2012	Gandhinagar
Nitesh Gupta	BTech/EE/2012	Gurugram
Shaik Siddhik Hussain	BTech/EE/2012	Nalgonda
Vivek Kshirsagar	BTech/EE/2012	Gurugram
Vivek Maheshwary	BTech/EE/2012	Bengaluru
Harsh Paliwal	BTech/EE/2012	Udaipur
Nikhil Haridas	BTech/ME/2012	Mumbai
Ajinkya Mukund Kulkarni	BTech/ME/2012	Mumbai
Abhik Patel	BTech/ME/2012	Mumbai
Swati Verma	BTech/ME/2012	Delhi
Pankaj Kumar Yadav	BTech/ME/2012	Ahmedabad
Shruti Jain	BTech/CL/2013	Boise, Idaho, USA
Ravi Kumar	BTech/CL/2013	San Francisco, USA
Arul Mozhi Devan P	BTech/CL/2013	Ahmedabad
Garima Raghuvanshi	BTech/CL/2013	Bengaluru
Mohit Verma	BTech/CL/2013	Lucknow
Dhruv Chokshi	BTech/EE/2013	Hanover, Germany

* Former

NAME	CATEGORY	CITY
Aditi Dighe	BTech/EE/2013	North Carolina, USA
Mohit Malu	BTech/EE/2013	Tempe, Arizona, USA
Shashank Naphade	BTech/EE/2013	San Francisco, USA
Ekta Prashnani	BTech/EE/2013	Santa Barbara, USA
Shubham Ranka	BTech/EE/2013	Chembur
Tarkeshwar Singh	BTech/EE/2013	Bengaluru
Kishan Suthar	BTech/EE/2013	Sirohi
Ravi Agarwal	BTech/ME/2013	Gandhinagar
Ajinkya Dahale	BTech/ME/2013	Mumbai
Gourav Dubey	BTech/ME/2013	Bangkok
Varun Gupta	BTech/ME/2013	Bengaluru
Shashank Pandey	BTech/ME/2013	Chennai
Sunil Patidar	BTech/ME/2013	Indore
Sanjay Saroj	BTech/CL/2014	Assam
Smit Alkesh Shah	BTech/CL/2014	Vadodara
Yashovardhan	BTech/CL/2014	Indore
Yash Kotak	BTech/EE/2014	Vadodara
Shah Nisarg Nikhil	BTech/EE/2014	Singapore
Dhwanil Shukla	BTech/EE/2014	Atlanta, USA
Suresh Kumar Choudhary	BTech/ME/2014	Bengaluru
Nihar Kotak	BTech/ME/2014	Troy, Michigan, USA
Prateek Nyati	BTech/ME/2014	Kolkata
Shah Jinesh Rajesh	BTech/ME/2014	Mumbai
Prem Prakash Meena	BTech/CL/2015	Rajasthan
Mihika Shah	BTech/CL/2015	Rajkot
Aalok Gangopadhyay	BTech/EE/2015	Gandhinagar
Parth Gudhka	BTech/EE/2015	Gandhinagar
Mukesh Singh Rawat	BTech/EE/2015	Rajkot
Preet Shah	BTech/EE/2015	Mumbai
Abhay C A	BTech/ME/2015	Patna
Akash	BTech/ME/2015	Pune
Aryan	BTech/ME/2015	Amherst, USA
Ajay Devedwal	BTech/ME/2015	Jaipur
Anshul Gupta	BTech/ME/2015	Bangalore
Harsh Gupta	BTech/ME/2015	San Carlos, USA
Ronak Khandelwal	BTech/ME/2015	Bengaluru
Ramesh Kumar	BTech/ME/2015	Chennai
Shreyans Nahar	BTech/ME/2015	Khopoli
Vivek Prakash	BTech/ME/2015	Jharkhand
Dhyey Shah	BTech/ME/2015	Ahmedabad
Eepsit Tiwari	BTech/ME/2015	Ahmedabad
Vishal Yadav	BTech/ME/2015	Noida
Kishore Kumar J	BTech/CL/2016	Padi
Lavdeep Kaur	BTech/CL/2016	Ganganagar
Vivek Maida	BTech/CL/2016	Banswara
Ankit Pandole	BTech/CL/2016	Gandhinagar
Prashant Shekhar	BTech/CL/2016	Jhansi
Manjot Singh	BTech/CL/2016	Bengaluru
Salecha Kushal Dilipkumar	BTech/EE/2016	Jodhpur
Akhilesh Deepak Gotmare	BTech/EE/2016	New Delhi
Ashish Kumar Gupta	BTech/EE/2016	Jaipur
Ajinkya Tupkar Jain	BTech/EE/2016	Mumbai
Prashant Kumar	BTech/EE/2016	Noida
Chitranshu Kumar	BTech/EE/2016	Pune
Animesh Singh Kumawat	BTech/EE/2016	Gandhinagar
Paturu Veerabadra Lokesh	BTech/EE/2016	Nellore

NAME	CATEGORY	CITY
Yash Sanjay Mehta	BTech/EE/2016	Houston, USA
Somani Dipen Omprakash	BTech/EE/2016	Asansol
Abhishek Ranjan	BTech/EE/2016	North Carolina, USA
Raj Shekhar	BTech/EE/2016	Mumbai
Alok Singh	BTech/EE/2016	Noida
Jatindeep Singh	BTech/EE/2016	Bengaluru
Rocky Dongre	BTech/ME/2016	Chennai
Rahul Garg	BTech/ME/2016	Kadapa
Chitnis Parag Jayant	BTech/ME/2016	Kota
Karan Palaskar	BTech/ME/2016	Pune
Rahul Kumar Pandey	BTech/ME/2016	New Delhi
Radhika Patil	BTech/ME/2016	California, USA
Jithin Prabha	BTech/ME/2016	Vadodara
Pranshul Saini	BTech/ME/2016	Guntur
Shrey Shah	BTech/ME/2016	Dallas, USA
Gaurav Sharma	BTech/ME/2016	Mumbai
Abhinav Singh	BTech/ME/2016	Mumbai
Yash Pratap Singh	BTech/ME/2016	Mumbai
Konduru Venkata Naga Sai Ravi Teja	BTech/ME/2016	Bengaluru
Divyansh Tripathi	BTech/ME/2016	Mumbai
Saurabh Sandeep Vaichal	BTech/ME/2016	Pune
Samarth Sanjiv Vijanapurkar	BTech/ME/2016	British Columbia
Margaj Om Vijay	BTech/ME/2016	Gandhinagar
Kushagra Bhargava	BTech/CL/2017	Kota
Rushabh Desadla	BTech/CL/2017	New Delhi
Rajat Gupta	BTech/CL/2017	Pune
Suman Kumari	BTech/CL/2017	Gandhinagar
Dewansh Rastogi	BTech/CL/2017	Vapi
Nisha Rawat	BTech/CL/2017	New Delhi
Akshay Kumar Verma	BTech/CL/2017	Bangalore
Srinivasan A	BTech/CE/2017	Chennai
Roshan Agarwal	BTech/CE/2017	Bengaluru
Shaleen Chhajer	BTech/CE/2017	Digiboi
Rishabh Jain	BTech/CE/2017	Mumbai
Mayank Khewaria	BTech/CE/2017	Jodhpur
Shailendra Kumar	BTech/CE/2017	New Delhi
Hemant Kumar	BTech/CE/2017	Ahmedabad
Narendra Sarswat	BTech/CE/2017	New Delhi
Rishab Anand	BTech/EE/2017	Mumbai
Aravind Damacharla	BTech/EE/2017	Bengaluru
Aditya Ganesh	BTech/EE/2017	Mumbai
Pratham Rajkumar Saroj Goel	BTech/EE/2017	Mumbai
Rushi Jariwala	BTech/EE/2017	Bengaluru
Shashank Mehra	BTech/EE/2017	Ahmedabad
Shubham Patil	BTech/EE/2017	Mumbai
Aditya Shah	BTech/EE/2017	Mumbai
Namana Naga Sindhu	BTech/EE/2017	Gurgaon
Rajendra Singh	BTech/EE/2017	Hyderabad
Aatman C Vora	BTech/EE/2017	Hanover, Germany
Sakshi Yadav	BTech/EE/2017	Bengaluru
Ankit Agarwal	BTech/ME/2017	Delhi
Anurag Agrawal	BTech/ME/2017	Pune
Amber Kothari	BTech/ME/2017	Solapur
Suryakumar Mane	BTech/ME/2017	Hyderabad
Ankit Mittal	BTech/ME/2017	Bharatpur
Rohit Nanavati	BTech/ME/2017	Mumbai

NAME	CATEGORY	CITY
Nishanth	BTech/ME/2017	Nirmal
Kanak Sharma	BTech/ME/2017	Mumbai
Himanshu Chauhan	BTech/CL/2018	Ahmedabad
Ashish Gehlot	BTech/CL/2018	Ahmedabad
Purvil Jani	BTech/CL/2018	Vadodara
Ayush Mathur	BTech/CL/2018	Mumbai
Mayuresh More	BTech/CL/2018	Tirupur
Mridul Pareek	BTech/CL/2018	Gandhinagar
Apurva Potturu	BTech/CL/2018	Jhunjhunu
Abhinay Rana	BTech/CL/2018	Gurugram
Nikhil Roy	BTech/CL/2018	New Delhi
Aashay Sandansing	BTech/CL/2018	Hyderabad
Mukul Tyagi	BTech/CL/2018	Gandhinagar
Borse Dinesh Anil	BTech/CE/2018	Bengaluru
Bulabai Sreedhar Gopikrishna	BTech/CE/2018	Mumbai
Pranav Gupta	BTech/CE/2018	Ateli Mandi
Anusha Gupta	BTech/CE/2018	Vadodara
Kunal Jain	BTech/CE/2018	Lyon, France
R Yashwanth Kumar	BTech/CE/2018	New Delhi
Homit Singh Pal	BTech/CE/2018	Gandhinagar
Anmol Kishore Raina	BTech/CE/2018	Gandhinagar
Ajay Singh Shekhawat	BTech/CE/2018	Mumbai
Pranavkumar Shivakumar	BTech/CE/2018	Gandhinagar
Vikas Yadav	BTech/CE/2018	Gandhinagar
Varun Aggarwal	BTech/EE/2018	Mumbai
Sanket Duthade	BTech/EE/2018	Pune
Aditya Goel	BTech/EE/2018	Mumbai
Himanshu Goswami	BTech/EE/2018	Chandigarh
G Sai Rama Krishna	BTech/EE/2018	Hyderabad
Arvind Roshaan S	BTech/EE/2018	Rajkot
Chinmay Shirpurkar	BTech/EE/2018	New Delhi
Ayush Shrote	BTech/EE/2018	Trivandrum
Ayushman Tripathi	BTech/EE/2018	Ahmedabad
Rushil Shamkant Vispute	BTech/EE/2018	Ahmedabad
Deepak Dhariwal	BTech/MSE/2018	Mumbai
Jugal Mehta	BTech/MSE/2018	Mumbai
Kaustubh Panse	BTech/MSE/2018	Ghaziabad
K Raviteja	BTech/MSE/2018	Azara
Dileep Singh	BTech/MSE/2018	Thane
Setti Satya Sai Venkata Ravi Teja	BTech/MSE/2018	Azara
Venu Agarwal	BTech/ME/2018	New Delhi
Akhilesh	BTech/ME/2018	Cuttack
Yash Bohre	BTech/ME/2018	South Delhi
Darshil Chauhan	BTech/ME/2018	Ahmedabad
Sowill Dave	BTech/ME/2018	Gandhinagar
Karan Gohil	BTech/ME/2018	Hyderabad
Modi Harsh Jashvantbhai	BTech/ME/2018	Mehsana
Subodh Kumar	BTech/ME/2018	Ahmedabad
Ahamed Naji	BTech/ME/2018	Bangalore
Tushar Nirmal	BTech/ME/2018	New Delhi
Vinod Ramakrishnan	BTech/ME/2018	San Diego, USA
Nithin Ramesh	BTech/ME/2018	Cheriyana
Udit Relan	BTech/ME/2018	New Delhi
Singampalli Sai Rohit	BTech/ME/2018	Kashipur
Krishna Kumar Soni	BTech/ME/2018	Amroha
Jaladhir Trivedi	BTech/ME/2018	Ahmedabad

NAME	CATEGORY	CITY
Vismay Vakharia	BTech/ME/2018	Trivandrum
Mitta Venkata Sai Viswanath	BTech/ME/2018	Cuddapah
Prathamesh Badve	BTech/ME/2019	Gandhinagar
Sonar Chinmay Narendra	BTech/ME/2019	Jalgaon
Sonar Chinmay Narendra	BTech/ME/2019	Jalgaon
B Ratna Bharti	MA/HSS/2016	Ajmer
Bhandari Saumya Nareshkumar	MA/HSS/2016	Ahmedabad
Sini Susan Varghese	MA/HSS/2016	Thiruvananthapuram
Mujeeburahman K C	MA/HSS/2017	Malappuram
Khobragade Prateek Pawankumar	MA/HSS/2017	Pune
Arundhathy B	MA/HSS/2018	Hyderabad
Debayan Bhattacharya	MA/HSS/2018	Gandhinagar
Pawan Sharma	MA/HSS/2018	Soyat Kalan
Neha Tetali	MA/HSS/2018	Mumbai
Samyak Shah	MSc/CG/2015	Bengaluru
Aditya Singh	MSc/CG/2015	Nagaur
Goldy Yadav	MSc/CG/2015	Gandhinagar
Shivam Dhama	MSc/MA/2015	Kollam
Devu Mahesan	MSc/CG/2016	Mumbai
Haby Koshy Mathew	MSc/CG/2016	Pathanamthitta
Karthikeyan Palanisamy	MSc/CG/2016	Tirupur
Rakhi	MSc/CG/2016	Bokara
Sohhom Bandyopadhyay	MSc/CG/2017	Hooghly
Manasi Wali	MSc/CG/2017	Gandhinagar
Jyotsna Saini	MSc/CH/2017	Ahmedabad
Ayushi Tyagi	MSc/CH/2017	Ahmedabad
Baby Ziliya N A	MSc/CG/2018	Gandhinagar
Shalin Gomez	MSc/CG/2018	Bengaluru
Pavithra Ashok Kumar	MSc/CG/2018	Bengaluru
Unnati Palan	MSc/CG/2018	Navi Mumbai
Sachin Giri	MSc/CH/2018	Ahmedabad
Govind Kumar Sharma	MSc/CH/2018	New Delhi
Rajvir Singh	MSc/CH/2018	Gandhinagar
Naveen Tak	MSc/CH/2018	Jaipur
Ankush Tyagi	MSc/CH/2018	Karnal
Sarla Yadav	MSc/CH/2018	Delhi
Afridi Zamader	MSc/CH/2018	Aligarh
Archit Agarwal	MSc/MA/2018	Kamalganj
Aritra Kumar Bhaduri	MSc/MA/2018	Konnagar
Harshitha C	MSc/MA/2018	Bengaluru
Sangeeta Chhabarwal	MSc/MA/2018	Chhoti Sikar
Siyaram Gurjar	MSc/MA/2018	Mumbai
Shivani Huvor	MSc/MA/2018	Banswara
Vinod Kumar	MSc/MA/2018	New Delhi
Indrajit Narah	MSc/MA/2018	Dhemaji
Arvind Kumar Nath	MSc/MA/2018	Kota
Mahajan Samiksha Satish	MSc/MA/2018	Dombivli
Tikam Chand Soyal	MSc/MA/2018	Gandhinagar
Gaurav Yadav	MSc/MA/2018	Bhadohi
Samten Bhutia	MSc/PH/2018	Gangtok
Sanu Kumar Gangwar	MSc/PH/2018	New Delhi
Rajesh Maurya	MSc/PH/2018	Gandhinagar
Daphisha Mary Nonghuloo	MSc/PH/2018	Shillong
Neha Patel	MSc/PH/2018	Khargone
Anoop Singh	MSc/PH/2018	New Delhi
Sandeep Kumar Singh	MSc/PH/2018	Mumbai

NAME	CATEGORY	CITY
Mishra Nidhi S	MTech/CL/2014	Mumbai
Sreejith R	MTech/EE/2014	Palakkad
Manish Pillai	MTech/ME/2014	Bengaluru
Mandar Suresh Bhoir	MTech/EE/2015	Karjat
Vandana Rajput	MTech/CL/2016	Gandhinagar
Kiran Rangwani	MTech/CE/2016	Ahmedabad
Nikita Rankawat	MTech/CE/2016	Jodhpur
Nandhita J S	MTech/CE/2016	Hyderabad
Raminder Kaur	MTech/EE/2016	Ambala
Anubha Agarwal	MTech/CL/2017	Indore
Harshit Nema	MTech/CE/2017	Chennai
Rahul Lalitkumar Jain	MTech/CSE/2017	Gandhinagar
Vora Aditya Narendrabhai	MTech/EE/2017	Bengaluru
Ashu Gupta	MTech/ME/2017	Gandhinagar
Subhamoy Datta	MTech/BE/2018	Gandhinagar
Preetika	MTech/BE/2018	New Delhi
Aditi Singhal	MTech/BE/2018	Tonk
Aishwarya Vijayakumar	MTech/BE/2018	Thrissur
Ramchandra Gawas	MTech/CL/2018	Hyderabad
Kusum Panwar	MTech/CL/2018	Rishikesh
Saikat Sen	MTech/CL/2018	Bilaspur
Sandesh Shirude	MTech/CL/2018	Nashik
Parth Prasoon Sunil Sinha	MTech/CL/2018	Ahmedabad
Sachin Verma	MTech/CL/2018	Srinagar
Kaustubh Deshpande	MTech/CE/2018	Indore
Rajdeep Ghosh	MTech/CE/2018	Kolkata
Vikalp Kamal	MTech/CE/2018	Ahmedabad
Rimpy Khokhar	MTech/CE/2018	Jodhpur
Sarana Hasanth Kota	MTech/CE/2018	Hyderabad
Harsh Janakkumar Shah	MTech/CE/2018	Surat
Ashutosh Sonpal	MTech/CE/2018	Mumbai
Abhijith T K	MTech/CE/2018	Kozhikode
Sujata Sinha	MTech/CSE/2018	Agartala
Prathamesh Upadhyay	MTech/CSE/2018	Gandhinagar
Rohan Shuddhodhan Chawhan	MTech/EE/2018	Vadodara
Shweta Dahale	MTech/EE/2018	Pune
Sohini Dhar	MTech/EE/2018	Siliguri
Chakka Yaswanth Sai Kiran	MTech/EE/2018	Prakasam
Vishal Kushwaha	MTech/EE/2018	Dehradun
Namrata Pandey	MTech/EE/2018	Mumbai
Dhanapala Prudhviraj	MTech/EE/2018	Kadapa
Jerry Samuel R	MTech/EE/2018	Pondicherry
Chandra Sekhar Ravuri	MTech/EE/2018	Guntur
Biswajeet Rout	MTech/EE/2018	Jajpur
Harsha Vardhan Tetali	MTech/EE/2018	Gainesville, USA
Shivangi Singh	MTech/ES/2018	Gorakhpur
Vipul Anand	MTech/MSE/2018	New Patna
Peddiraju V S Vivek Chaitanya	MTech/MSE/2018	Guntur
Rishi Dhawan	MTech/MSE/2018	Faridabad
Ashutosh Kumar	MTech/MSE/2018	Sonbhadra
Bhoopendra Kumar	MTech/MSE/2018	Bareilly
Priyanka Rawat	MTech/MSE/2018	Ahmedabad
Arpan Rout	MTech/MSE/2018	Angul
Rana Pratap Singh	MTech/MSE/2018	Faizabad
Rajat Srivastava	MTech/MSE/2018	Lucknow
Shubham Chouksey	MTech/ME/2018	Jabalpur

NAME	CATEGORY	CITY
Nilkumar Mathur	MTech/ME/2018	Gandhinagar
Priyank Mehta	MTech/ME/2018	Dungarpur
Nevilkumar Panchal	MTech/ME/2018	Surat
Giridhari Pattnaik	MTech/ME/2018	Bangalore
Anashusen Saiyad	MTech/ME/2018	Anand
Aditya Anil Sakhare	MTech/ME/2018	Pune
Atul Sharma	MTech/ME/2018	Pune
Sourabh Singh	MTech/ME/2018	Alwar
Gayathri Purushothaman	PhD/BE/2014	Gandhinagar
Sumitava Mukherjee	PhD/HSS/2014	Ahmedabad
Hariharan P	PhD/CL/2016	Dharmapuri
Payel Chattopadhyay Mukherjee	PhD/HSS/2016	Ahmedabad
Rameshkumar M Bhoraniya	PhD/ME/2018	Ahmedabad
Amit Arora	faculty	Gandhinagar
Nithin V George	faculty	Gandhinagar
Superb Misra	faculty	Gandhinagar
N Ramakrishnan	faculty	Gandhinagar
Deepak Agnihotri	staff	Gandhinagar
Divyangi N Chaudhari	staff	Gandhinagar
Tej Bahadur Gurung	staff	Gandhinagar
Bhupendra Kumar	staff	Gandhinagar
Jayakumar Nandagopal	staff	Gandhinagar
Jitendra Pukhraj Pawar	staff	Gandhinagar
Komal Tarunkumar Sangtani	staff	Gandhinagar
Seema Saxena	staff*	Gandhinagar
Tejas Shrikrishna	staff	Gandhinagar
Sunny Thomas	staff	Gandhinagar
Anonymous	well-wisher	Gandhinagar
Anand Ramesh Ekbote	well-wisher	Pune
Ramakrishna BRS Katakam	well-wisher	Vijayawada
Swarn Kumar	well-wisher	Bihar
Subhendu S Sanyal	well-wisher	Kolkata
Praveena Manimunda	well-wisher	Bruker, USA
Vishal Patel	well-wisher	USA



ORGANISATION

BOARD OF GOVERNORS

CHAIRMAN

To be appointed. Currently all functions are 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

DR SUKHBIR SINGH SANDHU, 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 (U T)

PROF SUDHIR K JAIN

Director
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

PROF AMIT PRASHANT

Dean, Research & Development
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

PROF PRANAB MOHAPATRA

Professor
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

SECRETARY

SHRI P K CHOPRA

Registrar
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

FINANCE COMMITTEE

CHAIRMAN

To be appointed. Currently functions are being discharged by the Director

MEMBERS

PROF SUDHIR K JAIN

Director

Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

DR SUKHBIR SINGH SANDHU, 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 (Integrated Finance Bureau) & Financial Advisor
Ministry of Human Resource Development
Government of India, New Delhi

SHRI BHADRESH MEHTA

Chartered Accountant
Ahmedabad

PROF D P ROY

Professor-in-Charge (General Administration)
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

SECRETARY

SHRI P K CHOPRA

Registrar
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

BUILDING AND WORKS COMMITTEE

CHAIRMAN

PROF SUDHIR K JAIN

Director
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

MEMBERS

PROF NEELKANTH CHHAYA

former Dean
Faculty of Architecture
CEPT University
Ahmedabad

SHRI K S WAGH

Chief Advisor (Civil Infrastructure)
Indian Institute of Technology Bombay
Powai, Mumbai

SHRI A K JAIN

former Special Director General
Central Public Works Department
Government of India
New Delhi

SHRI M B BHALALA

former Chief Engineer
Roads & Buildings Department
Government of Gujarat
Gandhinagar

SHRI L P SRIVASTAVA

Advisor (Works)
Indian Institute of Technology Gandhinagar
Palaj, Gandhinagar

PROF GAURAV SRIVASTAVA

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 P Roy
 Prof G K Sharma
 Prof S P Mehrotra
 Prof N Ramakrishnan
 Prof R Sharan
 Prof Jyoti Mukhopadhyay
 Prof Mohan Joshi
 Prof R R Puri
 Prof R N Singh
 Prof A Ramanathan
 Prof C N Pandey
 Prof Michel Danino
 Prof Svetlana Brzev
 Prof K Chelvakumar
 Prof Achal Mehra
 Prof Amit Prashant
 Prof Pranab Kumar Mohapatra
 Prof Neelkanth Chhaya
 Prof Raghavan Rangarajan
 Prof Deepak Kunzru
 Shri Anand Parekh
 Shri Sunil Parekh
 Prof Jaison Manjaly
 Prof Harish P M
 Prof Pratik Mutha
 Prof Gaurav Srivastava
 Prof Vikrant Jain
 Prof Sharmistha Majumdar
 Prof Umashankar Singh
 Prof Vimal Mishra
 Prof Manish Kumar
 Prof Sairam Mallajosyala
 Prof Bhaskar Datta
 Prof Pratyush Dayal
 Prof Kabeer Jasuja
 Prof Krishna Prasad Miyapuram
 Prof Uttama Lahiri
 Prof Bireswar Das
 Prof Anirban Dasgupta
 Prof Nihar Ranjan Mohapatra
 Prof Nithin V George
 Prof Manish Kumar Singh
 Prof Tannistha Samanta
 Prof Arka Chattopadhyay
 Prof Atul Dixit
 Prof Neeldhara Misra
 Prof Uddipta Ghosh
 Prof Dilip Srinivas Sundaram
 Prof Superb Misra
 Prof Abhay Raj Singh Gautam
 Prof Sudipta Sarkar
 Prof Krishna Kanti Dey
 Dr T S Kumbar

SECRETARY

SHRI P K CHOPRA

Registrar

STUDENT INVITEES

Sandeep Yadav (General Secretary, Student Council)
 Tarun Sharma (Convener, Student Senate)
 Amit Kumar Singh Yadav
 Tushar Pareek
 Anish Dubey

STANDING COMMITTEES OF THE SENATE

SENATE ACADEMIC PERFORMANCE EVALUATION COMMITTEE (SAPEC)

Prof Sameer Dalvi, Convener
 Prof Pratik Mutha (Dean, Academic Affairs)
 Prof Kabeer Jasuja
 Prof Krishna Kanti Dey
 Prof Bhaskar Datta
 Prof Virupakshi Soppina
 Prof S Rajendran
 Prof Madhu Vadali
 Prof R Sharan
 Prof Dhiraj Bhatia

SENATE ACADEMIC PROGRAMMES COMMITTEE (SAPC)

Prof Pratik Mutha, Chairman, (Dean, Academic Affairs)
 Prof Kabeer Jasuja
 Prof Krishna Kanti Dey
 Prof Sharmistha Majumdar
 Prof Pratyush Dayal
 Prof Sairam Mallajosyala
 Prof Pranab Mohapatra
 Prof Krishna Prasad Miyapuram
 Prof Bireswar Das
 Prof Nihar Ranjan Mohapatra
 Prof Jaison A Manjaly
 Prof Superb Misra
 Prof Atul Dixit
 Prof Uddipta Ghosh
 Prof Sudipta Sarkar
 Prof Vikrant Jain
 Kshitij Sendre, Student Nominee
 Animesh Rastogi, Student Nominee

SENATE SCHOLARSHIPS AND PRIZES COMMITTEE (SSPC)

Prof Harish P M, Chairman, (Dean, Student Affairs)
 Prof Manish Kumar
 Prof Chetan Pahlajani
 Prof Shanmuganathan Raman

SENATE STUDENT AFFAIRS COMMITTEE (SSAC)

Prof Harish P M, Chairman, (Dean, Student Affairs)
 Prof Nithin V George
 Prof Angus McBlane
 Prof Madhu Vadali
 Prof Sharmistha Majumdar
 Prof Arnab Dutta
 Tarun Sharma, Convener, Student Senate
 Sandeep Yadav, General Secretary, Student Council
 Shreyas Sreeram, Student Nominee
 Sri Savya Tanikella, Student Nominee

SENATE LIBRARY COMMITTEE (SLC)

Prof R Sharan, Chairman
 Dr T S Kumbar
 Prof Baradhawaj Coleppa
 Prof Shivakumar Jolad
 Prof Jaichander Swaminathan
 Mr Nirmal Jha
 Mayank Singh
 Rachel C, Student Nominee
 Sahil Jain, Student Nominee

ACADEMIC OFFICIALS

Prof Sudhir K Jain
Director

Prof Pratik Mutha
Dean, Academic Affairs

Prof Kabeer Jasuja
Associate Dean, Postgraduate Studies

Prof Krishna Kanti Dey
Associate Dean, Undergraduate Studies

Prof Harish P M
Dean, Student Affairs

Prof Madhu Vadali
Associate Dean, Students Affairs

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

Prof Shanmuganathan Raman
Coordinator, Internships

Prof Mithun Radhakrishna
Coordinator, Higher Education & Industry Visits

Prof Bhaskar Datta
Head, Student Counselling Services

Prof Joycee Mekie
Associate Head, Student Counselling Services

Prof Akshaa Vatwani
Coordinator, Communication & Life Skills Program

Prof Gopinadhan Kalon
Advisor, Sports

Prof Baradhwaj Coleppa
Advisor, Gymnasium

Prof Atul Dixit
Advisor, Cultural Activities

Prof S Rajendran
Advisor, Technical Activities

Prof Umashankar Singh
Coordinator, Students Integration

Prof Arnab Dutta
Warden, Student Welfare

Prof Sivapriya Kirubakaran
Warden, Hostel Facilities

Prof Chetan Pahlajani
Explorers Fellowship, Gram Fellowship

Prof Jaichander Swaminathan
IMS Liaison

Professor-in-Charge Faculty Affairs

Prof Nithin V George
Associate Dean, Faculty Relations

Prof Dilip S Sundaram
Associate Dean, Faculty Recruitment

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

Prof Ravikumar Bhaskaran
Honorary Advisor, External Relations

Prof Neeldhara Misra
Associate Dean, External Communication

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

Prof Amit Prashant
Team Leader- Partnership with Overseas
Universities

Prof Amit Prashant
Dean, Research and Development

Prof Atul Bhargav
Associate Dean, External Projects (and also
Coordinator, Continuing Education Programmes)

Prof Sameer V Dalvi
Chairman, Central Instrumentation Facility (CIF)

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

Prof Pranab Kumar Mohapatra
Head, Engineering Disciplines

Prof Jaison A Manjaly
Head, Humanities and Social Sciences

Prof Vikrant Jain
Head, Natural Sciences

Prof Gaurav Srivastava
Dean, Campus Development

Prof Ravi Sastri Ayyagari
Associate Dean, Campus Management

Prof Jaison A Manjaly
Coordinator, Information Systems and Technology Facility

Prof Nipun Batra
Co-coordinator, Information Systems and
Technology Facility (ISTF)

Prof Pratyush Dayal
Coordinator, Institute Management System (IMS)

Prof Jaichander Swaminathan
IMS Liaison

Prof Pranab Kumar Mohapatra
Chief Vigilance Officer

Prof G K Sharma

DISCIPLINE COORDINATORS

Prof Sharmistha Majumdar
Biological Engineering

Prof Pratyush Dayal
Chemical Engineering

Prof Sairam S Mallajosyula
Chemistry

Prof Pranab K Mohapatra
Civil Engineering

Prof Krishna Prasad Miyapuram
Cognitive Science

Prof Bireswar Das
Computer Science and Engineering

Prof Nihar Rajan Mohapatra
Electrical Engineering

Prof Jaison Manjaly
Humanities and Social Sciences

Prof Superb Misra
Materials Science and Engineering

Prof Atul Dixit
Mathematics

Prof Uddipta Ghosh
Mechanical Engineering

Prof Sudipta Sarkar
Physics

Prof Vikrant Jain
Earth Sciences

CENTRES COORDINATORS

Centre for Archaeological Sciences
Coordinator: Prof Michel Danino
Co-coordinator: Prof S P Mehrotra

Centre for Biological Engineering
Coordinator: Prof Uttama Lahiri
Co-coordinator: Prof Sivapriya Kirubakaran

Centre for Creative Learning
Coordinator: Mr Manish Jain
Co-coordinators: Mr Gaurav Kumar, Mr Neeraj Sharma
and Mr Pankaj Godara

Centre for Cognitive and Brain Sciences
Coordinator: Prof Krishna Prasad Miyapuram
Co-coordinator: Prof Pratik Mutha

Design and Innovation Centre
Coordinator: Prof Vineet Vashista
Co-coordinator: Prof Nithin George

Dr Kiran C Patel Centre for Sustainability Development
Coordinator: Prof Achal Mehra
Co-coordinator: Prof Jaichander Swaminathan

Centre for Safety Engineering
Coordinator: Prof Chinmay Ghoroi
Co-coordinator: Prof Gaurav Srivastava

STUDENT LEADERSHIP

The following students were declared elected as office bearers for the academic year 2018-19:

General Secretary	Sandeep Yadav
Convener, Student Senate	Tarun Sharma
Sports Secretary	Yash Patel
Technical Secretary	Rushali Saxena
Industry Relations & Projects (IR&P) Secretary	Aagam Shah
Professional Development Council (PDC) Secretary	Hardeep
Cultural Secretary	Alrick Dsouza
Welfare Secretary	Rahul Bharti

FACULTY

Discipline	Designation	PhD /Last Degree	Specialisation
ARCHAEOLOGY			
Sharada V Channarayapatna	Assistant Professor	Deccan College, 2014	Archaeozoology & Taphonomy and Bioarchaeology
Michel Danino	Visiting Professor	Electrical and Electronics Engineering at École Supérieure d'Électricité (Gif-sur-Yvette, France), 1977	Archaeology, history and culture of ancient India
Alok Kumar Kanungo	Assistant Research Professor	Deccan College, 2003	History and origin of glass
BIOLOGICAL ENGINEERING			
Dhiraj Devidas Bhatia	Assistant Professor	Tata Institute of Fundamental Research, 2013	DNA nanotechnology and chemical biology
Sharad Gupta	Associate 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
Rahul Kanadia	Visiting Professor	Genetics-University of Florida, 2004	Understanding the role of the minor spliceosome
Sharmistha Majumdar	Assistant Professor	Cornell University, 2006	Genomic and proteomic analysis of transposases and transposase homologs
Pratik Mutha	Associate Professor (jointly with Electrical Engg)	Pennsylvania State University, 2009	Sensorimotor control and learning
Umashankar Singh	Assistant Professor	Uppsala University, Sweden, 2006	Cytoprotection
Virupakshi Soppina	Assistant Professor	Gulbarga University, Gulbarga, 2006	Kinesins and intracellular transport
Vijay Thiruvengatam	Assistant Research Professor (jointly with Biological Engg)	Jiwaji University, 2009	Small molecules x-ray crystallography
Premalatha Chelvakumar	Visiting Professor	Veterinarian, US Equivalent D V M (University of Peradeniya)	Quality assurance and regulatory compliance in pharmaceutical and medical device industries
CHEMICAL ENGINEERING			
Sameer V Dalvi	Associate Professor	IIT Bombay, 2007	Supercritical fluid processing
Pratyush Dayal	Assistant Professor	University of Akron, 2007	Self-oscillating polymer gels
Chinmay Ghoroi	Associate Professor	IIT Bombay, 2007	Particle engineering and powder processing
Kabeer Jasuja	Assistant Professor	Kansas State University, 2011	Synthesis of two-dimensional nanomaterials
Nitin U Padhiyar	Assistant Professor	IIT Bombay, 2008	Process optimization and control
Babji Srinivasan	Assistant Professor (jointly with Electrical Engg)	Texas Tech University, 2011	Design, control and monitoring of complex systems with human-in-the-Loop
Kaustubh Rane	Assistant Professor	University at Buffalo, 2014	Thermodynamics and statistical mechanics of the interfacial systems
Mithun Radhakrishna	Assistant Professor	Columbia University, 2014	Study of soft matter systems through theory and molecular simulations
Prachi Thareja	Associate Professor	University of Pittsburgh, 2008	In-situ rheology of crystallizing fatty acid pastes
CHEMISTRY			
Chandrakumar Appayee	Assistant Professor	IISc, Bangalore 2008	Asymmetric catalysis
Sudipta Basu	Associate Professor	Max-Planck Institute for Molecular Physiology, Germany, 2006	Chemical biology of mitochondria and endoplasmic reticulum
Bhaskar Datta	Associate Professor (jointly with Biological Engg)	Carnegie Mellon University, 2004	Nucleic acid based chemical biology
Arnab Dutta	Assistant Professor	Arizona State University, 2012	Bio-inorganic chemistry
Sriram V Gundimeda	Associate Professor	IIT Bombay, 2001	Bio-organic chemistry
Iti Gupta	Associate Professor	IIT Bombay, 2005	Macrocyclic receptors & expanded porphyrinoids

* For part of the year

Discipline	Designation	PhD /Last Degree	Specialisation
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
Udit Bhatia	Assistant Professor	Northeastern University, 2018	Critical infrastructure resilience and network science
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	Associate Professor	Purdue University, 2010	Surface water hydrology
Pranab Kumar Mohapatra	Professor	IIT Kanpur, 1999	Hydraulics and water resources engineering
Amit Prashant	Professor	University of Tennessee, 2004	Constitutive modeling for granular materials
Ajanta Sachan	Associate Professor	University of Tennessee, 2005	Material characterization
C N Pandey	Visiting Professor (jointly with Earth Sciences)	North Gujarat University, 2011	Forestry, wildlife, environment
COMPUTER SCIENCE & ENGINEERING			
Manu Awasthi	Assistant Professor	University of Utah, 2011	Computer architecture, operating systems, memory and storage hierarchies
Nipun Batra	Assistant Professor	IIIT Delhi, 2017	Sensor networks, machine learning and computational sustainability
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
Dinesh Garg*	Associate Professor	Indian Institute of Science, Bangalore, 2006	Large scale optimization for machine learning
Neeldhara Misra	Assistant Professor (jointly with Mathematics)	Institute of Mathematical Sciences, Chennai, 2012	Design and analysis of algorithms
Mayank Singh	Assistant Professor	Indian Institute of Technology Kharagpur, 2019	Text mining natural language & processing and machine learning
CREATIVE LEARNING			
Manish Jain	Associate Teaching Professor	IIT Kanpur, 1993 (BTech)	3D Geometry, Polyhedra, Geodesics, Machines & Mechanisms, and Recreational Math
DESIGN			
Manasi Kanetkar	Associate Teaching Professor	IIT Bombay, 2006 (MDes)	Pedagogy in design education and semiotics & design
EARTH SCIENCES			
Sanjay Bora	Assistant Professor	University of Potsdam, 2016	Spectral analysis of source, path and site effects
Vikrant Jain	Professor	IIT Kanpur, 2001	Earth surface processes
Manish Kumar	Assistant Professor	The University of Tokyo, 2009	Pathways of contamination in freshwater system
R N Singh	Visiting Professor	Banaras Hindu University, Varanasi, 1969	Modeling of near-surface geophysical and environmental processes

Discipline	Designation	PhD /Last Degree	Specialisation
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
Nithin V George	Associate 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
Rajendra Nagar	Assistant Research Professor	IIT Gandhinagar, 2019 (Pursuing PhD)	Computer vision, computer graphics and 3D shape analysis
Naran M Pindoriya	Associate 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	Associate Professor	IIT Bombay, 2011	Computational photography
R Sharan	Visiting Professor	University of Waterloo, 1968	Technological progress and human values
HUMANITIES & SOCIAL SCIENCES			
Ambika Aiyadurai	Assistant Professor	National University of Singapore, 2015	Anthropology of nature conservation and the role of local communities
Arka Chattopadhyay	Assistant Professor	Western Sydney University, 2016	20th Century Literature: Modernism and postmodernism, modern theatre, European avant garde fiction
Nishaant Choksi	Assistant Professor	University of Michigan-Ann Arbor, 2014	Semiotics; linguistic ethnography; script and writing systems
Antonio Fonseca	Visiting Faculty	ISCTE – Lisbon, 2015	Complex social systems, measures of complexity
Sharmita Lahiri	Assistant Professor	University of Houston, 2008	Postcolonial literature and composition
Leslee Lazar	Visiting Faculty	National Brain Research Centre, India, 2013	Neuroscience of design, science communication, cultural cognition, behavioral change
Jordan Litman	Visiting Professor	University of South Florida, 2000	Study of curiosity and its relationship to knowledge seeking and self-directed learning
Jaison A Manjaly	Associate Professor	IIT Kharagpur, 2008	Experience, consciousness, rationality
Angus McBlane	Visiting Assistant Professor	Cardiff University, 2014	Cultural theory, embodiment, environmental humanities
Achal Mehra	Visiting Professor	Southern Illinois University, Carbondale, 1985	Online media, media management, investigative reporting, media law, media ethics
Mona Mehta	Assistant Professor	University of Chicago, 2010	Democracy, ethnic conflict, civil society, nationalism and identity politics in India
Krishna P Miyapuram	Assistant Professor (jointly with CSE)	University of Cambridge, UK, 2008	Brain imaging (fMRI) & cognitive science
Pedro Manuel S Pombo	Visiting Assistant Professor	ISCTE-IUL, Lisbon, 2015	Ethnicity and cultural identity
Arnapurna Rath	Assistant Professor	IIT Bombay, 2010	South-Asian literature, critical theories, Bakhtin studies, creative writing

* For part of the year

Discipline	Designation	PhD /Last Degree	Specialisation
A Ramanathan	Visiting Professor	Bombay University, 1981	Managerial economics, cost benefit analysis, applied econometrics and monetary economics
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
Atul Singh	Visiting Professor	The Wharton School, University of Pennsylvania, 2010	Global economy, World affairs, Geopolitics, political systems and sustainability
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
Mana Apoorva Shah	Teaching Associate	Gujarat University, 2012 (MA)	Sanskrit and Prakrit grammar, Jain Kavya and Stotra literature, manuscriptology
MATERIALS SCIENCE AND ENGINEERING			
Amit Arora	Assistant Professor	The Pennsylvania State University, 2011	Friction stir welding, heat transfer and visco-plastic flow
Abhay Raj Singh Gautam	Assistant Professor	University of Virginia, 2009	Interface structure and dynamics
S P Mehrotra	Visiting Professor	IIT Kanpur, 1973	Mineral processing and process metallurgy
Superb Misra	Assistant Professor	Imperial College London, UK, 2007	Biomaterials and tissue engineering
Manas Paliwal*	Assistant Professor	McGill University, 2013	Thermodynamic and kinetic modeling of material processes
Abhijit Mishra	Associate 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
Chandra Sekhar Tiwary*	Assistant Professor	IISc Bangalore, 2013	Development of Ultra-Low density materials for space applications
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
Bipul Saurabh	Assistant Professor	Indian Statistical Institute, Delhi, 2016	Operator algebras, Noncommutative geometry and Quantum groups
Jagmohan Tyagi	Associate Professor	IIT Kanpur, 2008	Ordinary differential equations, elliptic partial differential equations
Akshaa Vatwani	Assistant Professor	Queen's University, 2016	Analytic Number Theory, Sieve methods and Algebraic number theory
MECHANICAL ENGINEERING			

Discipline	Designation	PhD /Last Degree	Specialisation
Ravi Sastri Ayyagari	Assistant Professor	Illinois Institute of Technology, 2013	Solid mechanics, constitutive modeling, computational mechanics
Atul Bhargav	Associate Professor	University of Maryland, College Park, 2010	Fuel cell systems design and simulation
Uddipta Ghosh	Assistant Professor	IIT Kharagpur, 2016	Low-reynolds number hydrodynamics, with special focus on electrokinetics of complex systems
K Chelva Kumar	Visiting Professor	Caltech, 1985	Healthcare finance and engineering mechanics
Harish P Madapusi	Associate Professor	University of Michigan, Ann, Arbor, 2007	Systems and control theory, system identification (data-based modeling)
Vinod Narayanan	Assistant Professor	JNCASR, 2006	Fluid mechanics
N Ramakrishnan	Visiting Professor	IIT Bombay, 1980	Manufacturing, automation & composite materials
D P Roy	Visiting Professor	Tech University Aachen, 1976	Fluid dynamics and fluid machinery
G K Sharma	Visiting Professor	Moscow Power Engineering Institute, 1974	Thermal engineering
Jayaprakash K R	Assistant Professor	University of Illinois at Urbana Champaign, 2013	Wave propagation in one and two-dimensional granular media
Dilip Srinivas Sundaram	Assistant Professor	Georgia Institute of Technology, 2013	Thermofluid sciences, combustion, and energetic materials
Jaichander Swaminathan	Assistant Professor	Massachusetts Institute of Technology, 2017	Thermal sciences, Water-energy systems, Industrial reuse and recycling
Vineet Vashista	Assistant Professor	Columbia University, 2015	Design and control of mechanical systems
Venkata Madhukanth Vadali	Assistant Professor	University of Wisconsin, Madison, 2013	Dynamic systems, Control systems, Manufacturing, Mechatronics, Robotics
PHYSICS			
Rupak Banerjee	Assistant Professor	University of Calcutta (Saha Institute of Nuclear Physics), 2012	Surface physics and materials science
Prasanna Venkatesh B	Assistant Professor	McMaster University, 2013	Theoretical research in Quantum Optics and Nanophysics, Ultracold Atomic Physics
Vinod Chandra	Assistant Professor	IIT Kanpur, 2009	Quark-gluon-plasma and relativistic heavy ion collisions
Bharadhwaj Coleppa	Assistant Professor	Michigan State University, 2009	Beyond the standard model – model building and LHC, phenomenology of new states
Krishna Kanti Dey	Assistant Professor	IIT, Guwahati, 2011	Active matter, colloidal dynamics, nanotechnology
Shivakumar Jolad*	Assistant Professor (jointly with Social Sciences)	The Pennsylvania State University, 2010	Networks - complex systems, information theory
Gopinadhan Kalon	Assistant Professor	IIT Delhi, 2008	Graphene based nanofluidics/ desalination techniques
R R Puri	Visiting Professor	Bombay University, 1981	Theoretical quantum optics, quantum mechanics, random matrix theory of quantum chaos
Nirat Ray*	Assistant Professor	Massachusetts Institute of Technology, 2014	Experimental and first-principles design of novel artificial solids made from nano-scale building blocks
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

* For part of the year

DISTINGUISHED HONORARY PROFESSORS

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

SCHOLARS-IN-RESIDENCE

Name	Affiliation
Dr Maria João Amante	Director, Information and Documentation Services at ISCTE-IUL, Lisbon University Institute
Ms Marjorie Greene	Consultant for Earthquake Engineering Research Institute (EERI), USA
Dr Ashish Deshpande	Associate Professor, Walker Department of Mechanical Engineering, The University of Texas at Austin, USA
Prof Shungo Kawanishi	Director, Global Communication Center of Japan Advanced Institute of Science and Technology (JAIST), Japan
Dr Shalena Jha	Associate Professor, Department of Integrative Biology, The University of Texas at Austin, USA
Prof Frederick Coolidge	Professor, University of Colorado, USA
Dr Juan Jose	Researcher, Department of Structural Engineering, Institute of Engineering, UNAM, Mexico

GUEST PROFESSORS

Name	Affiliation
Prof A V Anilkumar	Professor, Vanderbilt School of Engineering, USA
Dr Amb V Ashok	Senior Advisor and Fellow at the Garwood Center for Corporate Innovation, Haas School of Business, University of California, Berkeley, 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 (ret'd), Archaeological Survey of India & Padma Shri Awardee, 2013
Prof Rajendra Kumar Bordia	Professor and Chair of the Department, Materials Science and Engineering, Clemson University, USA
Prof Bijoy H Boruah	Professor, Humanities and Social Sciences, Indian Institute of Technology Delhi
Prof Ravi Banavar	Professor, Systems and Control Engineering, IIT Bombay
Prof R P Chhabra	Professor, Department of Chemical Engineering, Indian Institute of Technology Kanpur
Dr Pravinray D Gandhi	Director Corporate Research, Underwriters Laboratories Inc, USA
Prof Ramesh Gaonkar	Guest Professor, Electrical Engineering, IITGN
Mr Rajen Jaswa	CEO & Chairman, Dyyno
Prof Ashok Joshi	Professor, Department of Aerospace Engineering, Indian Institute of Technology Bombay
Prof Lilavati Krishnan	Professor (ret'd), HSS Department, IIT Kanpur
Prof Dinesh Kant Kumar	Program Director for Biomedical Engineering, School of Electrical and Computer Systems Engineering, College of Science Engineering and Health, RMIT University, Melbourne, Australia
Prof S L Narayanamurthy	formerly Dean, Academic Affairs, IITGN
Prof V N Prabhakar	Superintending Archaeologist, Archaeological Survey of India, New Delhi
Prof Durgesh C Rai	Professor, Department of Civil Engineering, Indian Institute of Technology Kanpur
Prof Himanshu Prabha Ray	Honorary Professor, Distant Worlds, Munich Graduate School of Ancient Studies, Ludwig Maximilian University, Munich
Prof T R Ramachandran	Visiting Professor, Nonferrous Materials Technology Development Centre, Hyderabad
Prof Mythily Ramaswamy	Professor, Mathematics Department, Tata Institute of Fundamental Research Centre, Bangalore
Prof G Venkatapa Rao	Professor (ret'd), Department of Civil Engineering, IIT Delhi
Prof Srinivas Reddy	Scholar, translator and musician, Center for Contemporary South Asia, Brown University, USA
Prof Dheeraj Sanghi	Professor, Department of Computer Science and Engineering, Indian Institute of Technology Kanpur
Prof Shyam Sunder	James L Frank Professor of Accounting, Economics, and Finance, Yale School of Management, USA
Prof Chapin Thomas	Vice President Research and UL Corporate Fellow, Underwriters Laboratories Inc, USA
Prof Koshy Tharakan	Associate Professor, Department of Philosophy, Goa University
Prof Mahesh Tandon	Managing Director, Tandon Consultants Pvt Ltd, New Delhi
Prof M Venkataraman	Vice President, Indian Chapter of International Geosynthetics Society

NON-TEACHING STAFF AGAINST REGULAR POSITIONS

Employee Name	Designation
Akshay	Junior Accountant
M Armugam	Junior Laboratory Attendant
Suganya Arumugam	Junior Technical Superintendent
Viral J Asjola	Senior Library Information Assistant
Babloo	Junior Laboratory Attendant
Vinod Kumar Singh Baghel	Superintending Engineer
Palak R Bagiya	Junior Laboratory Assistant
Sudeep Narayan Banerjee	System Analyst
Suvakanta Barik	Junior Technical Superintendent
Raju Beerasant	Junior Laboratory Assistant
Timir Yakunj Berawala	Junior Assistant
Ram Babu Bhagat	Deputy Registrar
L K Bhargawa*	Superintending Engineer
Rahulendra Bhaskar	Junior Technical Superintendent
Nirav Madanbhai Bhatt	Junior Laboratory Assistant
Shri Krishan Birhman	Assistant Registrar
Tushar H Brahmabhatt	Junior Laboratory Attendant
Biresh Chaubey	Assistant Registrar
Divyangi N Chaudhari	Junior Laboratory Assistant
Pannaben P Chaudhari	Assistant Library Information Officer
G C Chaudhary	Superintending Engineer
Rohitkumar B Chaudhary	Technical Superintendent
Krupeshkumar P Chauhan	Junior Accountant
Pratikkumar K Chavda	Junior Laboratory Assistant
Prem Kumar Chopra	Registrar
Tapas Kumar Das	Senior Library Information Assistant
Dineshbhai B Desai	Junior Laboratory Attendant
Varaprasad Dhanikela	Junior Laboratory Assistant
Nisha Dhanwani	Junior Accountant
Bhavna Virambhai Dharani	Junior Accountant
Supin Gopi	Junior Technical Superintendent
Memo Gupta	Junior Account Officer
Hemant Kumar Gupta	Junior Assistant
Tej Bahadur Gurung	Junior Assistant
Laxmi P Hirani	Junior Laboratory Assistant
Yogesh Dattatraya Jade	Junior Superintendent
N Jayakumar	Assistant Engineer (Civil)
Meena Joshi	Assistant Registrar
Payal Kabariya	Junior Assistant
Vishnu Deth J J	Assistant Engineer (Electrical)
Jithesh V K	Superintendent
Navdiwala Ankur Kanchanlal	Laboratory Assistant
Dharmeshkumar V Kapadiya	Junior Laboratory Attendant
Hani M Khamar	Junior Assistant
Hiral S Khatri	Junior Accountant
T S Kumbar	Librarian
Dipakkumar K Lalpura	Junior Assistant
Prajapati Ramanand Lalsahab	Junior Laboratory Attendant
Pijush Majumdar	Assistant Registrar
Prashant G Makwana	Junior Assistant
Saumya Malavia	Junior Assistant
Vijay Meena	Junior Accountant
Jay Mehta	Junior Accountant
Parth Rajendrakumar Mehta	Junior Assistant
Shreejit B Menon	Superintendent
Laxmi Kant Mishra	Assistant Engineer
Rupali S Mohite	Junior Assistant
Pradipbhai K Ninama	Junior Laboratory Attendant

* For part of the year

Employee Name	Designation
Dharmendrakumar S Panchal	Junior Engineer
Ashish Kumar Pandey	Junior Laboratory Attendant
Maulin Pandya*	Junior Assistant
Sanjeev Kumar Pandey	Accounts Officer
Pragnesh D Parekh	Technical Superintendent
Dinesh H Parmar	Physical Training Instructor
Switi Rameshchandra Parmar	Junior Assistant
Shaileshkumar JPatani	Junior Assistant
Darshan C Patel	Junior Assistant
Sanketkumar J Patel	Junior Technical Superintendent
Arika K Patel	Senior Accountant
Kamini A Patel	Junior Assistant
Sanjaykumar T Patel	Junior Laboratory Assistant
Bhikhabhai R Patel	Junior Laboratory Attendant
Jignesh S Patel	Laboratory Assistant
Twinkle Patel	Junior Account Officer
Harshad Kumar J Patel	Junior Account Officer
Akash Mahendra Kumar Patel	Junior Superintendent
Sachin Maganlal Patel	Senior System Analyst
Darshak Hareshbhai Pathak	Junior Accountant
Jitendra Pukhraj Pawar	Junior Accountant
Jayesh Prajapati	Junior Laboratory Attendant
Parul Jayantilal Prajapati*	Junior Assistant
Narendra J Rabadiya	Junior Assistant
Vaibhavi Rathode	Junior Assistant
Santosh Raut	Superintendent
Ishan Raval	Junior Laboratory Assistant
N Ravi*	Junior Superintendent
Pavitra Kumar Rout	Junior Accountant
Saswati Roy	Assistant Registrar
Shibaram Sahoo	Junior Laboratory Attendant
Komal Sangtani	Assistant
Sujit Kumar Shah	Assistant
Viral Y Shah	Superintendent
Jigar Shah	Junior Account Officer
Deepak Sharma	Junior Laboratory Assistant
Mukesh Sharma	Staff Nurse
Hradesh Kumar Sharma	Deputy Registrar
Gaurav Shukla	Superintendent
Nitin Shukla	Junior Technical Superintendent
Gaurav Kumar Singh	Junior Assistant
Harish Singh	Junior Assistant
Amit Kumar Singh*	Assistant Registrar
Mrugesh R Solanki	Junior Superintendent
Tenils Wilsonbhai Solanki	Junior Superintendent
Rohit Pranav Somabhai	Assistant Registrar
Nileshkumar B Soni	Junior Engineer
Ravi Subhash Soni	Assistant Engineer (Civil)
Raviraj V Sukhadiya	Junior Laboratory Assistant
Una Sujit	Junior Superintendent
Sachin S Tawde	Junior Technical Superintendent
Prabhuji Thakor	Junior Laboratory Attendant
Supresh Thaleshari	Laboratory Attendant
Sunny Thomas	Junior Laboratory Assistant
Rajendra Vaishnav	Junior Account Officer
Lakshmipriya G Valappil	Junior Accountant
Piyushbhai P Vankar	Assistant
Kinjal Virani*	Junior Assistant
Anjanaba Rajendrasinh Zala	Junior Accountant
Devendrasinh Dahyaji Zala	Driver

PHD SCHOLARS

NAME OF THE STUDENT	DISCIPLINE	SUPERVISOR/PROGRAMME ADVISOR
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 Purushothaman	Biological Engineering	Prof Vijay Thiruvenkatam
Indumathi S	Biological Engineering	Prof Sameer V Dalvi
Nalini Natarajan	Biological Engineering	Prof Vijay Thiruvenkatam
Sanghavi Hiral Manojkumar	Biological Engineering	Prof Sharmistha Majumdar
Patel Manthan Maheshbhai	Biological Engineering	Prof Umashankar Singh
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Chandan Kumar	Computer Science and Engineering	Prof Shanmuganathan Raman
Darshita Jain	Computer Science and Engineering	Prof Shanmuganathan Raman
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Anandsingh Chauhan	Electrical Engineering	Prof Naran Pindoriya
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Kaushal Dadsena	Electrical Engineering	Prof S Rajendran
Piyush Dewangan	Electrical Engineering	Prof Nihar Mohapatra
Roshni Agrawal	Electrical Engineering	Prof S Rajendran
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Ankit Jaiswal	Materials Science and Engineering	Prof Superb Misra
Charishma Gowripattapu	Materials Science and Engineering	Prof Jyoti Mukhopadhyay
Pranav Trivedi	Materials Science and Engineering	Prof Abhijit Mishra
Priya Tiwari	Materials Science and Engineering	Prof Abhay Raj Gautam
Ranga Teja Pidathala	Materials Science and Engineering	Prof Abhay Raj Gautam
Rohit Dahule	Materials Science and Engineering	Prof Emila Panda
Sidharth Sarmah	Materials Science and Engineering	Prof Ravi Sastri Ayyagari
Sudha Gautam	Materials Science and Engineering	Prof Amit Arora
Gaurav Anilkumar Yadav	Materials Science and Engineering	Prof Jyoti Mukhopadhyay
Saurabh Soni	Materials Science and Engineering	Prof Superb Misra
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2017 BATCH

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Kaushik Bhowmik	Biological Engineering	Prof Sivapriya Kirubakaran
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Priyanka Srivastava	Biological Engineering	Prof Bhaskar Datta
Rahul Gupta	Biological Engineering	Prof Sharad Gupta
Shruti Adhikari	Biological Engineering	Prof Umashankar Singh
Siddhant Kumar	Biological Engineering	Prof Uttama Lahiri
Vaishali C	Biological Engineering	Prof Sivapriya Kirubakaran
Vishakha	Biological Engineering	Prof Sharad Gupta
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Ankur Mittal	Chemical Engineering	Prof Pratyush Dayal
Arun Yadav	Chemical Engineering	Prof Prachi Thareja
Avishek Kumar	Chemical Engineering	Prof Mithun Radhakrishna
Ayush Nema	Chemical Engineering	Prof Babji Srinivasan
Kanchan Sharma	Chemical Engineering	Prof Chinmay Ghoroi
Khushwant Fatnani	Chemical Engineering	Prof Nitin Padhiyar
Manis Lenka	Chemical Engineering	Prof Kabeer Jasuja
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Ravi Anand Singh	Chemical Engineering	Prof Nitin Padhiyar
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Ashutosh Jena	Materials Science and Engineering	Prof Manas Paliwal
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Litton Bhandari	Materials Science and Engineering	Prof Amit Arora
Mittireddi Teja	Materials Science and Engineering	Prof Emila Panda
Pravalika Butreddy	Materials Science and Engineering	Prof Superb Misra
Saurabh Sharma	Materials Science and Engineering	Prof Superb Misra
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Akash Unnikrishnan	Mechanical Engineering	Prof Vinod Narayanan
Ankit Diwvedi	Mechanical Engineering	Prof Atul Bhargav
Ankit Sharma	Mechanical Engineering	Prof Dilip Srinivas Sundaram
Arun Cherkkil	Mechanical Engineering	Prof Vinod Narayanan
Arunav Choudhury	Mechanical Engineering	Prof K R Jayaprakash
Ashu Gupta	Mechanical Engineering	Prof Kaustubh Rane
Deep Bakshi	Mechanical Engineering	Prof Ravi Ayyagari
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Hemant Pahuja	Mechanical Engineering	Prof Vinod Narayanan
John Sherjy Syriac	Mechanical Engineering	Prof Vinod Narayanan
Kishankumar Chauhan	Mechanical Engineering	Prof N Ramakrishnan
Nashit Jalal	Mechanical Engineering	Prof Kaustubh Rane
Pinki	Mechanical Engineering	Prof Dilip Srinivas Sundaram
Piyush Agrawal	Mechanical Engineering	Prof Atul Bhargav
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Pratik Prajapati	Mechanical Engineering	Prof Vineet Vashista
Rakesh Tunk	Mechanical Engineering	Prof Jyoti Mukhopadhyay
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2016 BATCH

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Neha Khairkar	Civil Engineering	Prof Gaurav Srivastava
Naveen Kavuri	Electrical Engineering	Prof Joyce M Mekie
Brajesh Singh	Materials Science and Engineering	Prof Abhay Raj Gautam
Bhaskar Shukla	Mechanical Engineering	Prof Ravi Sastri Ayyagari
Satbir Singh	Mechanical Engineering	Prof Dilip Srinivas Sundaram
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DUAL MASTER'S DEGREE PROGRAMME WITH JAIST, JAPAN

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Mansi Porwal	Chemistry
Monika	Chemistry
Nilesh Mathur	Chemistry
Ojasvi Jasvi Verma	Chemistry
Pankaj Kumar	Chemistry
Parul	Chemistry
Priya	Chemistry
Priyavrat Vashisth	Chemistry
Rimjhim	Chemistry
Shaiborlang Rapsang	Chemistry
Shivam Kumar	Chemistry
Tannu	Chemistry
Tarun	Chemistry
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Divya Reji	Cognitive Science
Ekta Khemchandani	Cognitive Science
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Ihsan K	Cognitive Science
Ishita Arun	Cognitive Science
Pooja R	Cognitive Science
Prashanti Ganesh	Cognitive Science
Rachelle Chandraan	Cognitive Science
Raunak Swarnkar	Cognitive Science
Ruhi Bhanap	Cognitive Science
Samruddhi Damle	Cognitive Science
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Alka Baliyan	Mathematics
Ambhore Siddhi Balu	Mathematics
Arun Kumar	Mathematics
Bhawani Shankar	Mathematics
Deo Mihir Vilas	Mathematics
Goutam Biswas	Mathematics
Joshi Bhavin Rasikbhai	Mathematics
Kshama Sehra	Mathematics
Kuntal Banerjee	Mathematics
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Rahul Rohilla	Mathematics
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Ravi Mahala	Mathematics
Sneha Kumari	Mathematics
Surbhi Warkade	Mathematics
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Debroy Das	Physics
Diptesh Gayen	Physics
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Neeraj Kumar Meena	Physics
Neha Singh	Physics
Nitin Kumari	Physics
Nitish Goyal	Physics
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Prashant Kumar	Physics
Rachana Choudhary	Physics
Ravi Shankar Bunkar	Physics
Saroj Yadav	Physics
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Lhingneichong Touthang	Chemistry
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Ayush Agrawal	Mathematics
Dasharath Meena	Mathematics
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Harmeet Kumar Garg	Mathematics
Jyotsna Gadhwal	Mathematics
Lata Yadav	Mathematics
Meghali	Mathematics
Mohammad Aqib	Mathematics
Pawan Jakhar	Mathematics
Pulkit	Mathematics
Ravikant Bairwa	Mathematics
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Satyanarayan Pruseth	Mathematics
Shadab Ali	Mathematics
Shashi Chourasiya	Mathematics
Shobha Mangal	Mathematics
Shrikant Shekhar	Mathematics
Shubham Kumar	Mathematics
Sukhwant Singh	Mathematics
Suresh Choudhary	Mathematics
Surjeet Singh Choudhary	Mathematics
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Abhishek Kumar	Physics
Ankit	Physics
Arvind Kumar	Physics
Goutam M	Physics
Kamal Kant Chandra	Physics
Kanhaiya Gupta	Physics
Kanshokmi Tuithung	Physics
Kapil Dev	Physics
Karishma Gupta	Physics
Mohit Kumar Dubey	Physics
Nikhil Sharma	Physics
Pankaj Borah	Physics
Praveen Kumar Gupta	Physics
Rajes Ghosh	Physics
Rajesh Biswas	Physics
Ravi Kumar	Physics
Richa Dobal	Physics
Sajjan	Physics
Samardhi	Physics
Sarswati Sharma	Physics
Sonu Yadav	Physics
Tathagata Mandal	Physics
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MA IN SOCIETY & CULTURE**2018 BATCH**

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Ankit Verma	Electrical Engineering

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Bhatt Pratyush	Chemical Engineering
Bhavya Gupta	Chemical Engineering
Darren R	Chemical Engineering
Hariharan Dnyaneshwar Parmar	Chemical Engineering
Jay Ashish Shah	Chemical Engineering
Kartik Hillal	Chemical Engineering
Kumar Ayush Paramhans	Chemical Engineering
Lavanya Naik	Chemical Engineering
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Mrityunjay Saraf	Chemical Engineering
N T Ramakrishnan	Chemical Engineering
Nitin Kumar Gupta	Chemical Engineering
Palak Purohit	Chemical Engineering
Prankush Agarwal	Chemical Engineering
Prasanna D	Chemical Engineering
Priyanka Sunil Sardar	Chemical Engineering
Sakshi Yogesh Kabra	Chemical Engineering
Souritra Garai	Chemical Engineering
Sumit Kumar	Chemical Engineering
Taha Mohammad Syed	Chemical Engineering
Tanmay Jain	Chemical Engineering
Tanmay Sharma	Chemical Engineering
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Amlin Jose	Civil Engineering
Anas Ali	Civil Engineering
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Avinash	Civil Engineering
Bhanu Jarwal	Civil Engineering
Bhanu Pratap Singh	Civil Engineering
Boddu Saigowri Jhansi	Civil Engineering
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Devendra Singh	Civil Engineering
Dhanesh Jagdish Bhutada	Civil Engineering
Gondalia Dhruvi Ramniklal	Civil Engineering
Hardik Khichi	Civil Engineering
Hitesh Joya	Civil Engineering
Jayesh Khanna	Civil Engineering
Kamlesh Arun Sawadekar	Civil Engineering
Kishan Singh	Civil Engineering
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Abhinav Singh	Computer Science and Engineering
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Aditya Tripathi	Computer Science and Engineering
Aishna Agrawal	Computer Science and Engineering
Ajinkya Shirish Pawar	Computer Science and Engineering
Amey Amol Kulkarni	Computer Science and Engineering
Amireddy Manisha	Computer Science and Engineering
Anupam Kumar	Computer Science and Engineering
Arpit Venilal Patel	Computer Science and Engineering
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Dishank Goel	Computer Science and Engineering
Gannavarapu Dhanya Sree	Computer Science and Engineering
Guntreddi Harshavardhan	Computer Science and Engineering
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Nishikant Parmar	Computer Science and Engineering
Pranshu Kumar Gond	Computer Science and Engineering
Prasad Athave	Computer Science and Engineering
Priyam Tongia	Computer Science and Engineering
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Raghav Goyal	Computer Science and Engineering
Sachin Yadav	Computer Science and Engineering
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Shivam Sahni	Computer Science and Engineering
Siddharth Soni	Computer Science and Engineering
Vivek Modi	Computer Science and Engineering
Abhinav Meena	Electrical Engineering
Arpit Kaushal	Electrical Engineering
Bhavesk Kumar Solanki	Electrical Engineering
Dhruvi Prakash Lodhavia	Electrical Engineering
Dhruvin Pankajkumar Patel	Electrical Engineering
Gudivada Venkata Prudvi Tej	Electrical Engineering
Harish Meghwal	Electrical Engineering
Hetvi Shastri	Electrical Engineering
Jani Dhyey Hareshbhai	Electrical Engineering
Jayesh Dnyaneshwar Salunkhe	Electrical Engineering
Jessica Satyarthi	Electrical Engineering
Jitender Kumar	Electrical Engineering
Kamble Yash Gautam	Electrical Engineering
Kuntal Sunilkumar Patel	Electrical Engineering
Laxman	Electrical Engineering
Permender Kumar	Electrical Engineering
Pradipbhai Dahyabhai Prajapati	Electrical Engineering
Reddy Venkata Neeraj Kumar	Electrical Engineering
Rishi Patidar	Electrical Engineering

NAME OF THE STUDENT	DISCIPLINE
Roopak Sharma	Electrical Engineering
Sanket Jagdish Vadhvana	Electrical Engineering
Satyam Kumar	Electrical Engineering
Shah Jay Rahul	Electrical Engineering
Shivanshu Sharma	Electrical Engineering
Shril Paresh Mody	Electrical Engineering
Shruti Prakash Gupta	Electrical Engineering
Udit	Electrical Engineering
Unnat Nikhil Dave	Electrical Engineering
Vagisha	Electrical Engineering
Varun Jain	Electrical Engineering
Viraj Kalpesh Shah	Electrical Engineering
Vrutik Chandresh Shah	Electrical Engineering
Aastha Jivrajani	Materials Science and Engineering
Aditi Gera	Materials Science and Engineering
Aishwarya Ajay Malve	Materials Science and Engineering
Aman	Materials Science and Engineering
Aman Sharma	Materials Science and Engineering
Amish Raj	Materials Science and Engineering
Ayush Lodha	Materials Science and Engineering
Borase Nikhil Ravindrakumar	Materials Science and Engineering
Daga Parth Prakash	Materials Science and Engineering
Dhananjay Singh	Materials Science and Engineering
Dhruv Mahesh Bukinkere	Materials Science and Engineering
Gaurav Ravi Dalmia	Materials Science and Engineering
Himanshu	Materials Science and Engineering
Janhavi Premi	Materials Science and Engineering
Janvi Vinodkumar Thakkar	Materials Science and Engineering
Katike Pranay Deep Reddy	Materials Science and Engineering
Krish Gupta	Materials Science and Engineering
M J Sujit Akash	Materials Science and Engineering
Maitreya Mahesh Thakur	Materials Science and Engineering
Menon Dhruv	Materials Science and Engineering
Mithun Ravichandran	Materials Science and Engineering
Patel Smit Bhupeshbhai	Materials Science and Engineering
Poreddy Venkat Karthik	Materials Science and Engineering
Rohan Ninad Shirodkar	Materials Science and Engineering
Shashi Sarraf	Materials Science and Engineering
Shlok Prashant Ramteke	Materials Science and Engineering
Suryansh Kumar	Materials Science and Engineering
Tanishque Zaware	Materials Science and Engineering
Anusheel Kaula	Mechanical Engineering
Arpita Sanjay Kabra	Mechanical Engineering
Deepesh Pankaj	Mechanical Engineering
Jaydeep Gulab Ramnani	Mechanical Engineering
Joshi Devvrat Shaileshkumar	Mechanical Engineering
Kailash Kumar	Mechanical Engineering
Kakadiya Jaydeep Sureshbhai	Mechanical Engineering
Kshitija Anam	Mechanical Engineering
Kulkarni Shardul Sunil	Mechanical Engineering
Kushagra Sharma	Mechanical Engineering
Maddela Siddarth	Mechanical Engineering
Murkute Nikhil Ramrao	Mechanical Engineering
Navneet Kaur	Mechanical Engineering
Nikhil Yadav	Mechanical Engineering
Pandya Srujan	Mechanical Engineering
Patel Dev	Mechanical Engineering
Patel Neel Kirankumar	Mechanical Engineering

NAME OF THE STUDENT	DISCIPLINE
Pedamajji Rakeshnaidu	Mechanical Engineering
Poojan Modi	Mechanical Engineering
Pradeep Saini	Mechanical Engineering
Praveen Venkatesh	Mechanical Engineering
Pushan Pravin Patel	Mechanical Engineering
Rachit Shrimal	Mechanical Engineering
Rahul Gupta	Mechanical Engineering
Ritu Verma	Mechanical Engineering
S Ganesh	Mechanical Engineering
Shah Viraj Mitul	Mechanical Engineering
Shashi	Mechanical Engineering
Vaibhav Saini	Mechanical Engineering
Vakil Yatharth Nilesh	Mechanical Engineering
Vibhute Prathamesh	Mechanical Engineering
Sanjivkumar	
Vijendra Meena	Mechanical Engineering
Yash Arun Meshram	Mechanical Engineering

2017 BATCH

NAME OF THE STUDENT	DISCIPLINE
Akshat Mangal	Chemical Engineering
Anand Hiren Merchant	Chemical Engineering
Ankur Vaibhav	Chemical Engineering
Anurag Singh	Chemical Engineering
Arun Shakya	Chemical Engineering
Ayushman Bahuguna	Chemical Engineering
Deependra Kumar	Chemical Engineering
Dev Ajay Kakkad	Chemical Engineering
Gaurav Sonkusle	Chemical Engineering
Harshal Rashtrapal Thool	Chemical Engineering
Manraj Meena	Chemical Engineering
Mohammad Aslam	Chemical Engineering
Parichay Thakore	Chemical Engineering
Parth Upadhayay	Chemical Engineering
Priyansh Singh	Chemical Engineering
Rachit Ray	Chemical Engineering
Rahul Dhamania	Chemical Engineering
Rajas Prasad Shah	Chemical Engineering
Rajkumar Sain	Chemical Engineering
Samyak Jain	Chemical Engineering
Sanjeet Kumar Yadav	Chemical Engineering
Satti Kartik Naik	Chemical Engineering
Shantanu Sakti Jana	Chemical Engineering
Shubhi Maheshwari	Chemical Engineering
Solanki Soham Pratik	Chemical Engineering
Vinod Kumar	Chemical Engineering
Vyom Mudgal	Chemical Engineering
Pradumn Pandey	Chemical Engineering
Akash Ajnare	Civil Engineering
Akshay P Nambiar	Civil Engineering
Anil Berwal	Civil Engineering
Chintakayala Venu Gopal	Civil Engineering
Deepak Meena	Civil Engineering
Gaurav Kumar	Civil Engineering
Harsh Sarju Shah	Civil Engineering
Jeetendra Kumar	Civil Engineering
Madhav Tiwari	Civil Engineering
Nishant	Civil Engineering

NAME OF THE STUDENT	DISCIPLINE
Pavan Kumar Meena	Civil Engineering
Pranjal Singh	Civil Engineering
Pranjali Anil Borse	Civil Engineering
Rensi Pipalia	Civil Engineering
Sarang Patil	Civil Engineering
Shahzaib Khan	Civil Engineering
Shubham Raviprakash Baheti	Civil Engineering
Sumit Kumar	Civil Engineering
Utkarsh Sandeep Gangwal	Civil Engineering
Utsav Prashant Racca	Civil Engineering
Varanganti Hari Pratap Goutham	Civil Engineering
Vishesh Roy Anand	Civil Engineering
Yashaswi Soni	Civil Engineering
Abhisht Tiwari	Computer Science and Engineering
Aditya Garg	Computer Science and Engineering
Ankush Chauhan	Computer Science and Engineering
Anshuman Yadav	Computer Science and Engineering
Anubhav Jain	Computer Science and Engineering
Anup Ravindra Aglawe	Computer Science and Engineering
Atharva Pandurang Chewale	Computer Science and Engineering
Ayush Agarwal	Computer Science and Engineering
Chandan Maji	Computer Science and Engineering
Chenna Kesava Tirunagari	Computer Science and Engineering
Debarya Das	Computer Science and Engineering
Dharavath Anitha	Computer Science and Engineering
Dyavarashetty Peeyush	Computer Science and Engineering
Jain Harshil Rakesh	Computer Science and Engineering
Kakumani Prudhvi Raj	Computer Science and Engineering
Kanishk Kalra	Computer Science and Engineering
Kavita Vaishnav	Computer Science and Engineering
Kishen N Gowda	Computer Science and Engineering
Lakshay	Computer Science and Engineering
M Mohit Mina	Computer Science and Engineering
Mrinal Anand	Computer Science and Engineering
Nidhin Harilal	Computer Science and Engineering
Parimi Siva Krishna Sarma	Computer Science and Engineering
Patel Vandan	Computer Science and Engineering
Pittala Nikhil	Computer Science and Engineering
Ram Bhagwan Prajapat	Computer Science and Engineering
Rohan Prashant Patil	Computer Science and Engineering
Rohit Shantaram Patil	Computer Science and Engineering
Saumitra Sharma	Computer Science and Engineering
Shah Rushil	Computer Science and Engineering
Shah Ujjaval Satishkumar	Computer Science and Engineering
Shaurya Agarawal	Computer Science and Engineering
Vraj Patel	Computer Science and Engineering
Ajay Meena	Electrical Engineering
Akshay Biju	Electrical Engineering
Ashish Kumar Meena	Electrical Engineering
Chauhan Jainish Nileshkumar	Electrical Engineering
Deepika Soni	Electrical Engineering
Dehade Sankesh Deepak	Electrical Engineering
Ishita Goyal	Electrical Engineering
Jaspreet Singh	Electrical Engineering
Jethva Utsav	Electrical Engineering
Kaoshik Ronak Nitin	Electrical Engineering
Karri Revanth Ratna Kireeti	Electrical Engineering
Manoj Kumar Kumawat	Electrical Engineering

NAME OF THE STUDENT	DISCIPLINE
Mithbavkar Ojas Shashikant	Electrical Engineering
Mohammed Aasim Shaikh	Electrical Engineering
Naman Kumar Singh	Electrical Engineering
Narni Vishnu Karthikeya	Electrical Engineering
Nayan Chaudhary	Electrical Engineering
Onteddu Rama Krishna Reddy	Electrical Engineering
Pandipati Vamshi Nikhil	Electrical Engineering
Pardeshi Shweta Rajesh	Electrical Engineering
Patel Ajikumar Dahyalal	Electrical Engineering
Patel Urvishkumar Jayrambhai	Electrical Engineering
Prakash R	Electrical Engineering
Preet Gokulesh Patel	Electrical Engineering
Pundru Chandrahas	Electrical Engineering
Ram Udit Saadh	Electrical Engineering
Ravi Rathod	Electrical Engineering
Ribhu Vajpeyi	Electrical Engineering
Rushikesh Vijay Kumthekar	Electrical Engineering
Shreya Pamecha	Electrical Engineering
Tanmaey Gupta	Electrical Engineering
Uttharapally Sai Chandra	Electrical Engineering
Vedanta Krishna Bhutani	Electrical Engineering
Anuj Yadav	Materials Science and Engineering
Atharv Mahendra Gholap	Materials Science and Engineering
B Dhyanesh	Materials Science and Engineering
Banoth Vishnu Sai Naik	Materials Science and Engineering
Dhaiwat Kabaria	Materials Science and Engineering
Dhruval Suresh Shah	Materials Science and Engineering
Harendra Singh Gurjar	Materials Science and Engineering
Karra Uma Naga Srikar	Materials Science and Engineering
Kaushik Kumar Bhaiya	Materials Science and Engineering
Krutarth Hemant Khot	Materials Science and Engineering
Mewada Rohan	Materials Science and Engineering
Mulastham Amitha Rani	Materials Science and Engineering
Pinniboina Muneeswar	Materials Science and Engineering
Sagar Singh Meena	Materials Science and Engineering
Shivani Patley	Materials Science and Engineering
Shuchi Dharendra Sanandiya	Materials Science and Engineering
Surabhi Ashutosh Torne	Materials Science and Engineering
Ujjwal Gautam	Materials Science and Engineering
Varun Dolia	Materials Science and Engineering
Yasham Amar Mundada	Materials Science and Engineering
Neena Tatu	Materials Science and Engineering
Abhinav	Mechanical Engineering
Agrawal Parth Sunilkumar	Mechanical Engineering
Akshay Jay Tandale	Mechanical Engineering
Anirudha Pradeepkumar Soni	Mechanical Engineering
Ankush Mishra	Mechanical Engineering
Ashish Kumar Jha	Mechanical Engineering
Ayush Kumar Gupta	Mechanical Engineering
Bhukya Heram Naik	Mechanical Engineering
Deepak Kumar Meena	Mechanical Engineering
Dip Nilim Das	Mechanical Engineering
Kakadiya Harsh Babulal	Mechanical Engineering
Karanam Avinash	Mechanical Engineering
Mohamed Shamir T M	Mechanical Engineering
Parmar Hitarth	Mechanical Engineering
Parth Shinde	Mechanical Engineering
Sabbi Pavan Kumar Chakri	Mechanical Engineering

NAME OF THE STUDENT	DISCIPLINE
Saurabh Kartik Muneshwar	Mechanical Engineering
Shah Dhruvin	Mechanical Engineering
Shah Jainam	Mechanical Engineering
Shah Meet Parag	Mechanical Engineering
Shireesh Raghunath Shelke	Mechanical Engineering
Shivang Pareek	Mechanical Engineering
Shreyas Dattatray Sonawane	Mechanical Engineering
Sourabh Khatik	Mechanical Engineering
Sukkala Balaji	Mechanical Engineering
Tushar Choudhary	Mechanical Engineering
Vala Vedangraj	Mechanical Engineering
Vandit Goyal	Mechanical Engineering
Vatsal Ketankumar Joshi	Mechanical Engineering
Yannawar Pranav Sameer	Mechanical Engineering
Yash Gaur	Mechanical Engineering
Yash Nilkanth Dhake	Mechanical Engineering

2016 BATCH

NAME OF THE STUDENT	DISCIPLINE
Abhishek Dubey	Chemical Engineering
Bhumika Sandilya	Chemical Engineering
Buditi Prudhvi	Chemical Engineering
Gameti Nirav	Chemical Engineering
Kamle Mayank Shrikant	Chemical Engineering
Khili Khamesra	Chemical Engineering
Lakhan Agrawal	Chemical Engineering
Manjot Singh	Chemical Engineering
Patel Milanbhai	Chemical Engineering
Rahul Shakya	Chemical Engineering
Raman	Chemical Engineering
Ritik Jain	Chemical Engineering
Rohan Gupta	Chemical Engineering
Shubham Sankhla	Chemical Engineering
Singh Shivam	Chemical Engineering
Sourabh Saini	Chemical Engineering
Spand Bharat Mehta	Chemical Engineering
Sparsh Jain	Chemical Engineering
Varsha Singh	Chemical Engineering
Yash Makwana	Chemical Engineering
Ajay Bhardwaj	Civil Engineering
Akhil Anil Rajput	Civil Engineering
Akshay Mittal	Civil Engineering
Amar Baroliya	Civil Engineering
Animesh Rastogi	Civil Engineering
Anubhav Meena	Civil Engineering
Arra Sriya	Civil Engineering
Ayush Singh	Civil Engineering
Chekkala Sai Srishal	Civil Engineering
Chinmay Girish Kulkarni	Civil Engineering
Danish Mansoor	Civil Engineering
Hansraj Bijarnia	Civil Engineering
Ishank Singh	Civil Engineering
Jitesh Mittal	Civil Engineering
Kaushal Chhimpaa	Civil Engineering
Kishan Khichi	Civil Engineering
Kokkonda Prashanth	Civil Engineering
Krishan Kumar	Civil Engineering
Mayank Kumar	Civil Engineering

NAME OF THE STUDENT	DISCIPLINE
Mohit Gadhwal	Civil Engineering
Muhammed Sinan R K	Civil Engineering
Mukesh Kumar	Civil Engineering
Piyush Chandra	Civil Engineering
Pranav Peepre	Civil Engineering
Rishabh Jain	Civil Engineering
Sahil Jain	Civil Engineering
Utkarsh Meena	Civil Engineering
Wani Tejas Sakahhari	Civil Engineering
Anmol Gautam	Computer Science and Engineering
Apoorv Agnihotri	Computer Science and Engineering
Atishay Jain	Computer Science and Engineering
Ayush Garg	Computer Science and Engineering
Ayush Garg	Computer Science and Engineering
Bikramjot Singh Dhindsa	Computer Science and Engineering
Davinder Singh	Computer Science and Engineering
Debanuj Nayak	Computer Science and Engineering
Dutta Ritik	Computer Science and Engineering
Gajapure Kshitij Dewanand	Computer Science and Engineering
Gohil Varun	Computer Science and Engineering
Heer Ambavi	Computer Science and Engineering
Kukunuri Sai Venkata Ratna Rithwik	Computer Science and Engineering
Kunal Verma	Computer Science and Engineering
Meet Panchal	Computer Science and Engineering
Monika Chouhan	Computer Science and Engineering
Mridul Sharma	Computer Science and Engineering
Naman Jain	Computer Science and Engineering
Nitiksha	Computer Science and Engineering
P Jayakrishna Sahit	Computer Science and Engineering
Pachpande Soham Kishor	Computer Science and Engineering
Parmar Monarch	Computer Science and Engineering
Pathlavath Prashanth	Computer Science and Engineering
Pranjali Jain	Computer Science and Engineering
Pratik Kayal	Computer Science and Engineering
Rahul Challa	Computer Science and Engineering
Rayan Gaat	Computer Science and Engineering
Rendla Aditya	Computer Science and Engineering
Rohit Sharma	Computer Science and Engineering
S Deepak Narayanan	Computer Science and Engineering
S Vinu Sankar	Computer Science and Engineering
Sammed Shantinath Kagi	Computer Science and Engineering
Shivansh Choudhary	Computer Science and Engineering
Shivji Bhagat	Computer Science and Engineering
Shreyas Singh	Computer Science and Engineering
Smeet Vora	Computer Science and Engineering
Abhinav Narayan Harish	Electrical Engineering
Amit Kumar Singh Yadav	Electrical Engineering
Anshul Shivhare	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
Deshpande Ajit Umesh	Electrical Engineering
Girish Chandar G	Electrical Engineering
Gupta Sagar Rajeev	Electrical Engineering

NAME OF THE STUDENT	DISCIPLINE
Jai Parmar	Electrical Engineering
Jatin Ashish Dholakia	Electrical Engineering
K S Santhosh Kumar	Electrical Engineering
Kratika Bhagtani	Electrical Engineering
Pankaj Vawani	Electrical Engineering
Penumaka Gopi Kishore	Electrical Engineering
Pranjal Darda	Electrical Engineering
Pratik Puri Goswami	Electrical Engineering
Priolkar Neha Satyendra	Electrical Engineering
Rahul Yadav	Electrical Engineering
Rajat Kumar Verma	Electrical Engineering
Ramesh Meena	Electrical Engineering
Sai Praneeth Maddi	Electrical Engineering
Shubham Ashok Kalgunde	Electrical Engineering
Shubhranshu Singh	Electrical Engineering
Siddharth Krishnan	Electrical Engineering
Sumit Walia	Electrical Engineering
Suraj Kumar Meena	Electrical Engineering
Vasu Bhalothia	Electrical Engineering
Himanshu Rai	Electrical Engineering
Anjali Kumari	Materials Science and Engineering
Anushikha	Materials Science and Engineering
Ayan Rakshit	Materials Science and Engineering
Bidyan Basumatary	Materials Science and Engineering
Bukya Vinay	Materials Science and Engineering
C R Greeshma	Materials Science and Engineering
Dhrmendra Sablaniya	Materials Science and Engineering
Dineshraj D	Materials Science and Engineering
Godina Ganga Hrishikesh	Materials Science and Engineering
Ingle Varad Jitendrakumar	Materials Science and Engineering
Joshi Kavan	Materials Science and Engineering
Kunwar Shivam Pratap	Materials Science and Engineering
Pankaj Kumar Saini	Materials Science and Engineering
Rahul Rajeev	Materials Science and Engineering
Rampratap Kumar	Materials Science and Engineering
Ratul Chakraborty	Materials Science and Engineering
Shreyas Sreeram	Materials Science and Engineering
Sriram Sriharsha	Materials Science and Engineering
Tanisha Aggrawal	Materials Science and Engineering
Utkarsh Balodi	Materials Science and Engineering
V V S Akhil	Materials Science and Engineering
Vikas Dudi	Materials Science and Engineering
Neha Meena	Materials Science and Engineering
Shubham Gond	Materials Science and Engineering
Adithya R	Mechanical Engineering
Akshat Bansal	Mechanical Engineering
Ashar Akhil Parag	Mechanical Engineering
Bharg Mehta	Mechanical Engineering
Dashpute Chinmay Laxmikant	Mechanical Engineering
G Ramanan	Mechanical Engineering
Kadam Omkar Devidas	Mechanical Engineering
Karthik Subramanya Karvaje	Mechanical Engineering
Kathroth Pavan Kalyan	Mechanical Engineering
Kaushal R Modi	Mechanical Engineering
Kevin Patel	Mechanical Engineering
Kshitij Sendre	Mechanical Engineering
Manish Alriya	Mechanical Engineering
Manvendra Singh Chauhan	Mechanical Engineering

NAME OF THE STUDENT	DISCIPLINE
Mudit Jangid	Mechanical Engineering
Mukul Lawas	Mechanical Engineering
Polampalli Bala Srimannarayana	Mechanical Engineering
Putsala Anirudh	Mechanical Engineering
Rahil Sanwla	Mechanical Engineering
Rajat Biluniya	Mechanical Engineering
Rathi Aditya Manish	Mechanical Engineering
Sakhalikar Pushpakraj	Mechanical Engineering
Shyamappa	
Surve Sushrut Sudarshan	Mechanical Engineering
Suyash Patidar	Mechanical Engineering
Tandale Atharva Madhukar	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
Anusha Kamath M	Chemical Engineering
Avinash Joy Bara	Chemical Engineering
Deepti Gautam	Chemical Engineering
Madhyan Harsh Mukesh	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
Puroshotam 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

NAME OF THE STUDENT	DISCIPLINE
Gopal Singh	Civil Engineering
Honey Kumar Singla	Civil Engineering
Kushal Agrawal	Civil Engineering
Lavalesh Kumar Bajpayee	Civil Engineering
Maya Kumari	Civil Engineering
Naman Jain	Civil Engineering
Nikesh Panwar	Civil Engineering
Nikhil Chandra	Civil Engineering
Pulkit Singhal	Civil Engineering
Puneet Swami	Civil Engineering
Purusottam Kundara	Civil Engineering
Rahul Kumar Saini	Civil Engineering
Ravi Meena	Civil Engineering
Rohan Nyayadhish	Civil Engineering
Sachin Kumar Meena	Civil Engineering
Sareem Sandeed	Civil Engineering
Sarthak Mittal	Civil Engineering
Siddhant Gulechha	Civil Engineering
Tarun Sharma	Civil Engineering
Aditi Singh	Electrical Engineering
Aditya Anand	Electrical Engineering
Amit Parihar	Electrical Engineering
Anand Yadav	Electrical Engineering
Ansh Joshi	Electrical Engineering
Anusha Rajendra Malani	Electrical Engineering
Aparna N Tumkur	Electrical Engineering
Arik Pamnani	Electrical Engineering
Ayon Biswas	Electrical Engineering
Battu Deepak	Electrical Engineering
Chauhan Anand	Electrical Engineering
Chitta Sai Pavan	Electrical Engineering
Gaurav Singh Khatana	Electrical Engineering
Hardeep	Electrical Engineering
L Madhulika	Electrical Engineering
Mandlem Manikanta	Electrical Engineering
More Rishikesh Babu	Electrical Engineering
Navin Kumar	Electrical Engineering
Pankaj Kumar	Electrical Engineering
Pansetty Karthik	Electrical Engineering
Ravi Jangir	Electrical Engineering
Ravi Shrimal	Electrical Engineering
Ritesh Kumar	Electrical Engineering
Samarth Kathal	Electrical Engineering
Shah Harshil Kalpeshkumar	Electrical Engineering
Shipra Mohan	Electrical Engineering
Shivang Agarwal	Electrical Engineering
Shivdutt Sharma	Electrical Engineering
Sobhan Kumar Bhoi	Electrical Engineering
Swathi S G	Electrical Engineering
Tejas Mehta	Electrical Engineering
Uday Kiran Banoth	Electrical Engineering
Veeramallu Giridhar Sai	Electrical Engineering
Aagam Rajeev Shah	Materials Science and Engineering
Abhiroop Mishra	Materials Science and Engineering
Akshat Pachauri	Materials Science and Engineering
Akshat Sandhaliya	Materials Science and Engineering
Aman Kamlesh Singh	Materials Science and Engineering
Ayush Gupta	Materials Science and Engineering

NAME OF THE STUDENT	DISCIPLINE
Gyan Chand Maurya	Materials Science and Engineering
Himani Verma	Materials Science and Engineering
Jammu Tarun Kumar	Materials Science and Engineering
Jayshankar Sharma	Materials Science and Engineering
Kuldeep Singh	Materials Science and Engineering
Priyang Priyadarshi	Materials Science and Engineering
Sujeet Singh Mathur	Materials Science and Engineering
Tulasi Narendra Das Tripurana	Materials Science and Engineering
Amit Jangid	Mechanical Engineering
Anilraj Meena	Mechanical Engineering
Anupam Swarnkar	Mechanical Engineering
Arshdeep Singh Brar	Mechanical Engineering
Ayaz Lakhani	Mechanical Engineering
Bhattad Varun Rajkumar	Mechanical Engineering
Dsouza Alrick Cyril	Mechanical Engineering
Gandhi Meet Bankim	Mechanical Engineering
Jagmohan	Mechanical Engineering
Lahane Yogesh Ratnakar	Mechanical Engineering
M Naveen	Mechanical Engineering
Mihir Hitendra Salot	Mechanical Engineering
Patel Darshankumar	Mechanical Engineering
Parasotambhai	
Rahul Bharti	Mechanical Engineering
Rahul Meena	Mechanical Engineering
Rajat Ranjan	Mechanical Engineering
Rishabh Bhattacharya	Mechanical Engineering
Rohit Kumar Singh	Mechanical Engineering
Rushali Atul Prakash Saxena	Mechanical Engineering
S Santhosh	Mechanical Engineering
Saeed Aamer	Mechanical Engineering
Saksham Singal	Mechanical Engineering
Sandeep Kumar Yadav	Mechanical Engineering
Saurav Nagar	Mechanical Engineering
Shashi Mohan Singh	Mechanical Engineering
Shikhar Rajput	Mechanical Engineering
Shrinidhi Dilip Bhide	Mechanical Engineering
Subham Meena	Mechanical Engineering
Tukkani Sandeep Reddy	Mechanical Engineering
Tushar Pareek	Mechanical Engineering
Vaibhav Mittal	Mechanical Engineering
Vikalp Lanjewar	Mechanical Engineering
Yash Patel	Mechanical Engineering

2014 BATCH

NAME OF THE STUDENT	DISCIPLINE
Lakshmi Narayan Meena	Chemical Engineering
Navpreet Singh	Chemical Engineering
Raveena	Chemical Engineering
Siddharth Sheshadri K	Chemical Engineering
Navdeep Prakash	Chemical Engineering
Bhoge Shashank Vilas	Civil Engineering
Khushdeep Singh	Civil Engineering
Pushpender Kumar Kuntal	Civil Engineering
Satish Kumar Meena	Civil Engineering
Satya Prakash	Civil Engineering
Sushant Kumar	Civil Engineering
Vishal Kumar Sinha	Civil Engineering
Rohit Kumar	Civil Engineering

NAME OF THE STUDENT	DISCIPLINE
Kartik Mandlekar	Civil Engineering
Ajay	Electrical Engineering
Jagdish Choudhary	Electrical Engineering
Koda Dinesh Kumar	Electrical Engineering
Sarvepalli Nagasai Vardhan Rao	Electrical Engineering
Varade Amit Bhaskar	Electrical Engineering
Antima Meena	Materials Science and Engineering
Dudhat Kunal Hansraj	Materials Science and Engineering
Sisara Pratikkumar Dhirubhai	Materials Science and Engineering
Dabhi Parth Lalitkumar	Mechanical Engineering
Harshad Gawali	Mechanical Engineering
Ninama Rishilkumar	Mechanical Engineering
Prathamesh Badve	Mechanical Engineering
Rahul Kumar	Mechanical Engineering

NAME OF THE STUDENT	DISCIPLINE
Vaibhav S Pal	Mechanical Engineering
Panna Lal Saini	Mechanical Engineering

2013 BATCH

NAME OF THE STUDENT	DISCIPLINE
Pushpak K Baviskar	Civil Engineering
Praveen Pandey	Civil Engineering
Sai Kiran	Civil Engineering

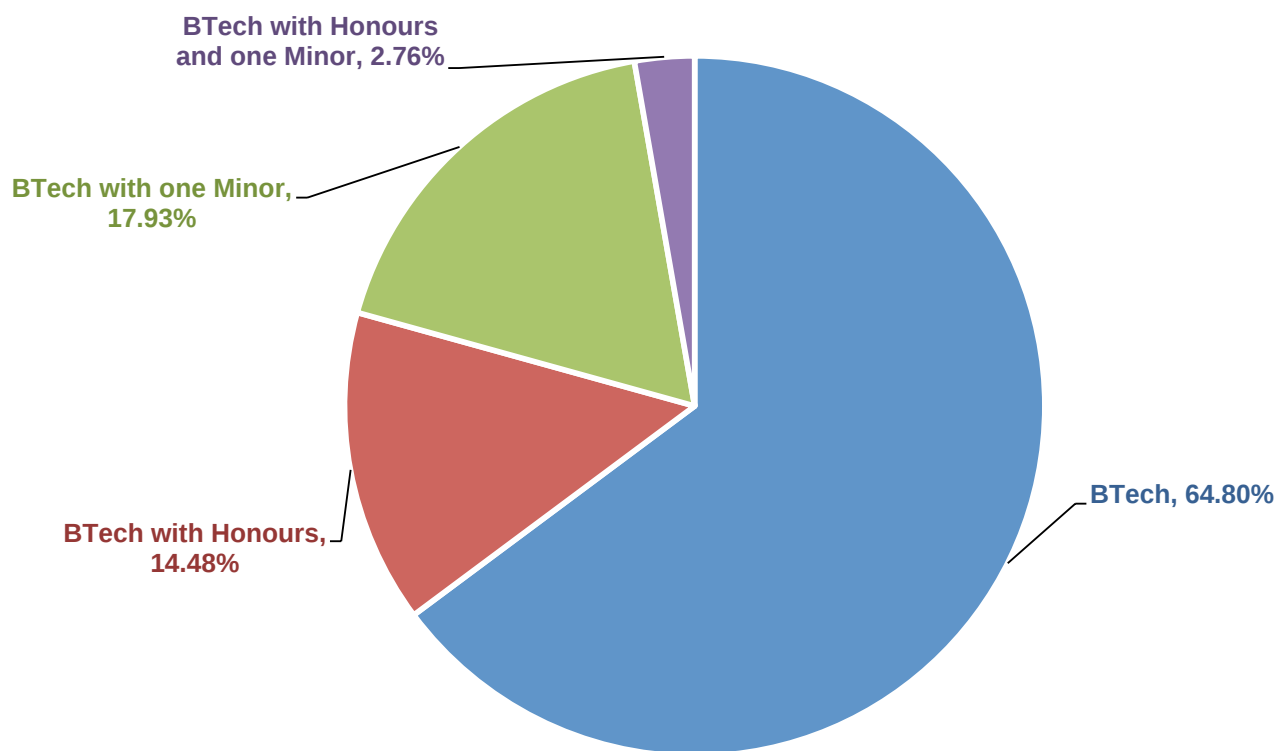
2012 BATCH

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

LIST OF STUDENTS GRADUATING CLASS OF 2019

BTECH STUDENTS GRADUATING WITH HONOURS AND MINORS

Discipline	BTech	BTech with Honours	BTech with one Minor	BTech with Honours and one Minor	Total Strength
Chemical	19	3	7	2	31
Civil	35	2	3	0	40
Electrical	17	3	11	1	32
MSE	6	4	0	1	11
Mechanical	17	9	5	0	31
Total	94	21	26	4	145



MASTER OF ARTS IN SOCIETY AND CULTURE

DISCIPLINE	GRADUATING STUDENTS
Society & Culture	21

MASTER OF SCIENCE (MSC)

DISCIPLINE	GRADUATING STUDENTS
Chemistry	15
Cognitive Science	19
Mathematics	26
Physics	26
Total	86

BTECH-MSC DUAL DEGREE

DISCIPLINE	GRADUATING STUDENTS
Mechanical Engineering and Master of Science in Mathematics	1

POST-GRADUATE DIPLOMA OF THE INSTITUTE (PGDIIT)

DISCIPLINE	GRADUATING STUDENTS
Chemical Engineering	2
Civil Engineering	1
Electrical Engineering	1
Materials Science and Engineering	1
Mechanical Engineering	2
Total	7

MASTER OF TECHNOLOGY (MTECH)

DISCIPLINE	GRADUATING STUDENTS
Biological Engineering	15
Chemical Engineering	12
Civil Engineering	11
Computer Science and Engineering	10
Electrical Engineering	18
Materials Science and Engineering	14
Mechanical Engineering	25
Total	105

BTECH-MTECH DUAL DEGREE

DISCIPLINE	GRADUATING STUDENTS
Mechanical Engineering and Master of Technology in Computer Science and Engineering	1
Electrical Engineering and Master of Technology in Computer Science and Engineering	1
Total	2

DOCTOR OF PHILOSOPHY (PHD)

DISCIPLINE	GRADUATING STUDENTS
Chemistry	2
Chemical Engineering	2
Civil Engineering	6
Cognitive Science	1
Earth Sciences	2
Electrical Engineering	6
Humanities & Social Sciences	2
Mathematics	1
Materials Science & Engineering	2
Physics	3
Total	27







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