Indian Institute of Technology Gandhinagar

Annual Report

2014-15

INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

ANNUAL REPORT

2014-15

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FROM THE DIRECTOR'S DESK

FROM THE DIRECTOR'S DESK

The Institute is seven years old and that is a very short span of time in the life of a university. Nevertheless, the Institute has made tremendous progress during these years and has been recognised for its vibrancy, its academic ethos and culture, and its energetic faculty, staff and students.

The highlights of the last year are as follows:
The construction work at the permanent campus has progressed extremely well and the Institute expects to start moving to the Palaj in July 2015. The progress has been more than satisfactory considering that the land was handed over to us only in July 2012. It is our belief that the campus will be known for its several innovative features and we hope that it will inspire not just future students and faculty, but also generations of architects, planners and educationists.

Our initiatives for the welfare of construction workers and their families at the Palaj site are being widely acknowledged. We received the national award for "Best Practices to Improve the Living Environment 2013-14" from the Housing and Urban Development Corporation (HUDCO).

Our relationships with several universities overseas are now reaching a high level of maturity. These include our ties with California Institute of Technology (USA), University of Saskatchewan (Canada), Japan Advanced Institute of Science and Technology (Japan) and with ISCTE-Lisbon University Institute. In fact, the Presidents of the last two universities visited the Institute during the year.

At the time of President Barack Obama's visit to India in January 2015, a Joint Declaration of Intent was signed between USAID and MHRD with the intention to support a newer IIT (or IITs) in India with the broad aim of intensifying collaborations in research and development as well as in entrepreneurship. IIT Gandhinagar was identified

as the IIT that would receive initial support. Substantial progress has since been made in operationalising this support from the USAID.

IITGN's strategy for internationalisation was awarded the World Education Award 2014 at the World Education Summit, New Delhi on Aug 8, 2014. IITGN was declared winner in the category of "Global Collaborative Learning" at the annual summit, organized by Elets Technomedia along with others.

Our efforts to provide international exposure to the students through internships and participation in conferences are distinctive In India, and now the Nielsen Company has started to provide substantial funds to nurture this initiative.

During the year, more than Rs 5 crores in philanthropic contributions were received by the Institute. We also signed an MoU for a multi-million gift to fund a Centre for Sustainable Development from Dr Kiran Patel, a cardiologist based in Tampa (Florida). Encouraged by the progress of the Institute, the IIT Gandhinagar Foundation in the US has now recruited Mr Ravi Mistry, a San Francisco based NRI, as a paid Executive Director of the Foundation. This will significantly improve our capacity to raise funds.

Our alumni are doing exceedingly well with many pursuing higher education in top universities worldwide. Several students have taken up entrepreneurship. The company GridAnts that was set up by the first-batch of BTech alumni of the Institute is now receiving external funding from reputed US-based venture capitalists. Inspired by their success, many more entrepreneurial ventures are emerging from our students and alumni.

The Institute went through a 2-stage peer-review of all aspects of its functioning. Numerous innovations at the Institute were lauded by the committee which remarked that these "serve as a template for new institutions starting out in any field."

Many visitors to the Institute comment on the collaborative culture and vibrancy at the Institute, and the enthusiasm and engagement of faculty, staff and students. All of this would not have been possible without the extraordinary faith, confidence that the numerous well-wishers, friends and donors have shown in the Institute and for the unstinting support that they have provided. The Institute is fortunate to have an extremely supportive Board of Governors and the generous support of the Central and the State Governments. Finally, we owe a special word of gratitude to the faculty, staff and students of VGEC Chandkheda and its Principal Dr Rajul Gajjar for their exemplary hospitality.

It has been a great opportunity for all of us to be associated with the Institute and we take in striving to build a world-class university that will contribute to solving the societal problems. The entire IITGN community is committed to prove itself worthy of the huge resources and the confidence that our country has put in us.

For me personally, these past few years at IITGN have been most enjoyable. I am grateful to the Board of Governors and the Government of India for giving me the opportunity to continue to lead the Institute for another five years.

Professor Sudhir K Jain
Director

ACADEMICS

PROGRAMMES OFFERED (2014-15)

UNDERGRADUATE / POSTGRADUATE

BTech / MTech and PGDIIT

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

MSc

Chemistry
Cognitive Sciences
Mathematics
Physics

MA

Society and Culture

DOCTORAL

Ancient and Medieval India
Biological Engineering
Chemical Engineering
Chemistry
Civil Engineering
Cognitive Science
Computer Science and Engineering
Earth Sciences
Electrical Engineering
History
Language and Literature
Materials Science and Engineering
Mathematics
Mechanical Engineering
Philosophy
Physics
Political Science
Psychology
Social Epidemiology
Sociology
South Asian Studies

DEVELOPMENTS AT IITGN

4th digital LEARNING WORLD EDUCATION AWARDS 2014
August 7 - 8, New Delhi

GLOBALISATION OF IITGN'S CURRICULUM WINS WORLD EDUCATION AWARD 2014

IIT Gandhinagar was awarded the **World Education Award 2014** at the World Education Summit, New Delhi on Aug 8, 2014. IITGN was declared winner in the category of Global Collaborative Learning at the annual summit, which is organized by Elets Technomedia, All India Confederation for Women's Empowerment through Education (AICWETE), National Commission for Minority Educational Institutions (NCMEI) and United Nations Educational Scientific and Cultural Organisation (UNESCO). IITGN was recognized for its outstanding performance in globalizing its curriculum, which includes study abroad opportunities for nearly a third of its undergraduate students, engaging a large number of international faculty, collaborative courses and projects with leading international Institutes and participation of international students in its programmes.

HRD MINISTER'S VISIT

The Union Minister for Human Resource Development and Chairperson of IIT Council **Smt Smriti Zubin Irani** visited IITGN on Jun 13, 2014. During her visit she interacted with the academic officials and students, and visited the teaching and research laboratory facilities. **Prof Sudhir K Jain** briefed the minister about the innovative developments in the Institute. Smt Irani discussed at length, the challenges faced by new IITs and ways to overcome these.

IITGN DIRECTOR REAPPOINTED

IITGN Director **Prof Sudhir K Jain** has been reappointed for a second five-year term, effective Jun 2014. Prof Jain, an internationally renowned scholar in earthquake engineering and professor of civil engineering at IIT Kanpur, joined IIT Gandhinagar as its first director in June 2009 on a five-year term. Prof Jain said, "At IITGN, we are privileged to have the unique opportunity to build an institution from the ground up and we have set ourselves the ambitious task of becoming one of the world's leading institutions of higher learning over the next decade. We have recruited world-class faculty, developed an exceptionally innovative undergraduate curriculum and built several distinctive centres and programmes. Undoubtedly, the next five years will be as enriching and exciting as the last five as we pursue the goal of global leadership in education."

BOG APPROVES TWO NEW CENTRES

At its meeting held on Dec 2, 2014, the Board of Governors approved proposals on the creation of a Centre for **Cognitive Science** and **a Centre for Sustainable Development**. The board approved the creation of the IIT Gandhinagar **Innovation and Entrepreneurship Centre (IIEC)** to support incubation and technology commercialization initiatives. It also approved a proposal for creating the **IIT Gandhinagar Explorer's Fellowship**, which enables students to undertake travel and introduce them to the cultures, people, and areas of India with which they are not familiar.

PEER REVIEW OF IITGN

The External Peer Review of IIT Gandhinagar was carried out on Aug 28-29, 2014 by a peer review committee comprising eminent persons namely, **Prof G K Mehta**, Hon Eminent Scientist, Inter-University Accelerator Centre, New Delhi; **Prof Indira Rajaraman**, former professor, IIM Bangalore and member of 13th Finance Commission; **Mr Vijay Thadani**, CEO, NIIT Technologies Ltd, New Delhi. At the start, the committee was apprised of the genesis of the Institute and its academic and administrative structure by the director and the deans. This was followed by individual presentations outlining the academic and research activities and achievements of the engineering, sciences and HSS disciplines. The committee members also reviewed the laboratory, library and hostel facilities before finally meeting with undergraduate and graduate students to hear about their experience of life at IITGN. The peer review exercise was a time for introspection and stock-taking for the Institute. The wide-ranging and thought-provoking discussions will be immensely helpful as IITGN grows in the years ahead.

IITGN'S CONSTRUCTION WORKERS' WELFARE PROGRAMME WINS NATIONAL HUDCO AWARD

IIT Gandhinagar's Construction Workers' Welfare Programme won the **National HUDCO Award for Best Practices to Improve the Living Environment 2013-14.** The award recognizes both institutional commitments to construction workers' welfare and safety, as well as the efforts of Nyasa, the community volunteer programme of the Institute. The Institute ensures dignified and clean housing conditions for construction workers by including special conditions in all its contracts that make it obligatory for contractors to construct clean, hygienic and well ventilated workers' housing with adequate water supply, electrical and sanitation facilities. The contractors are required to implement safety measures. A comprehensive group insurance cover is also required for all workers and their supervisory staff. In addition, regular health camps are organized for the workers.

INTERNATIONALIZATION: COLLABORATIVE COURSES

IIT Gandhinagar has collaborated with foreign universities in developing joint courses that enable cross cultural experiences for students and faculty. Typically in these collaborative courses student and faculty teams are engaged in intensive immersion in fieldwork and research. They spend time on both campuses or meet in virtual classrooms through video-conferencing. In the course titlted Disruptive Design for Health, students from the Calfornia Institute of Technology, collaborated with IITGN students on several teams to design a spill-proof spoon for patients of advanced Parkinson's disease. This innovation won the **Gandhian Technological Innovation Award** in Mar 2015. In 2015, student and faculty teams from IITGN collaborated with the School of the Arts, University of Northampton, UK, on a course Where Technology Meets the Art, to develop design interventions in India's handicraft industries.

CURRICULUM PARTNERSHIPS

IIT Gandhinagar and ISCTE-Lisbon University Institute, Portugal, have signed an agreement under which the master's degree from **IITGN's Cognitive Science programme and ISCTE's** Complexity Sciences programmes will be offered in partnership and course credits transferred between the two institutes.

ACTIVITIES AT IITGN

THIRD CONVOCATION

The third convocation of the Institute was held on Aug 2, 2014 at which a total of 161 students comprising 123 BTech, 36 MTech and 2 PhD students were conferred degrees. **Mr K Venkataramanan**, chief executive officer & managing director, Larsen & Toubro was the chief guest at the event. In his convocation speech Mr Venkataramanan reminded the students about their responsibility in a world where India and China will lead the world. **Dr Baldev Raj**, chairman of IITGN's Board of Governors (BoG) and president of the International Council of Academies of Engineering and Technological Sciences, presided over the event. The President's Gold Medal in BTech and MTech programmes were awarded respectively to **Dhwanil Shukla** and **Ritesh Jain**.

Other awards included: Institute Gold Medal, Chemical Engineering BTech (**Pranav Bagaria**), Electrical Engineering BTech (**Shashank Tyagi**), Mechanical Engineering BTech (**Dhwanil Shukla**), Institute Gold Medal, Chemical Engineering MTech (**Mishra Nidhi S**), Electrical Engineering- MTech (**Ritesh Jain**), Mechanical Engineering MTech (**Rachit Prasad**). Institute Silver Medal, Chemical Engineering BTech (**Pamulapati Sushma Sri**), Electrical Engineering BTech (**Aishwarya Agrawal**), Mechanical Engineering BTech (**Shashank Agarwal**), Director's Gold Medal, BTech (**Kotak Yash Prashant**), Director's Silver Medal, Chemical Engineering- BTech (**Akshay Jain**), Electrical Engineering BTech (**Shah Nisarg Nikhil**), Mechanical Engineering BTech (**Shashank Agarwal**), Outstanding Innovation (**Kotak Yash Prashant**), Integrity and Exemplary Human Qualities (**Sushrut Pramod Meshram**), Outstanding Research BTech (**Akshay Jain**), Outstanding Research MTech (**Rachit Prasad**), Outstanding Research PhD (**Sumitava Mukherjee**), Overall Outstanding Performance in Sports (**Suresh Choudhary**), Outstanding Performance in Outdoor Sports (**Gavasane Ritu Milind**), Outstanding Performance in Athletics (**Suresh Choudhary**), Outstanding Performance in Arts and Culture (**Bhaskarjyoti Das**), Pioneer Batch Award for Outstanding Leadership (**Katre VibhavVikas**), Best Performance in the core courses on Engineering Graphics, Manufacturing and Workshop Practice (**Katre Vibhav Vikas**), Best Performance in core courses of Mathematics (**Shashank Tyagi**), Best Performance in core courses in Physics (**Aishwarya Agrawal**), Best Performance in core courses in Humanities and Social Sciences (**Katre Vibhav Vikas**), Best Overall Performance in Humanities and Social Sciences Subjects (**Shaliwahan Singh Rathore**).

ACADEMIC ADVISORY COUNCIL MEETING

The 4th Academic Advisory Council meeting was held on Jan 5, 2015. This annual event provides the Institute strategic inputs and external perspectives on key academic issues. The participants this year included **Prof Pratim Biswas**, Washington University, St Louis, USA; **Prof Rajendra Kumar Bordia**, Clemson University, USA; **Prof Nitesh Chawla**, University of Notre Dame, USA; **Prof Frederick Coolidge**, University of Colorado, USA; **Prof Rosa Maria Perez**, ISCTE- Lisbon University Institute, Portugal; **Prof Surendra Prasad**, former director, IIT Delhi; **Prof Indira Rajaraman**, former professor, IIM Bangalore; **Prof V S Raju**, former director, IIT Delhi; **Prof Dheeraj Sanghi**, IIT Kanpur; **Prof Shyam Sunder**, Yale University, USA; and **Prof Satish K Tripathi**, State University of New York, Buffalo, USA. The agenda included improving faculty research productivity, postgraduate students issues connected with the imminent move to the permanent campus and developing strategic relationships with foreign universities.

LEADERSHIP CONCLAVE

The 5th Leadership Conclave met on Jan 6, 2015 to guide the Institute its short-term, medium-term, and long-term strategic issues. The conclave discussed ideas on fund-raising initiative by the Institute, engaging with professional bodies and organizations, and creation of a research park at IITGN's permanent campus. The participants included **Prof Pratim Biswas**, Washington University, St Louis, USA; **Prof Nitesh Chawla**, University of Notre Dame, USA; **Prof Rosa Maria Perez**, ISCTE- Lisbon University Institute, Portugal; **Prof Surendra Prasad**, former director, IIT Delhi; **Prof Indira Rajaraman**, former professor, IIM Bangalore; **Prof V S Raju**, former director, IIT Delhi; **Prof Dheeraj Sanghi**, IIT Kanpur; **Prof Satish K Tripathi**, State University of New York, Buffalo, USA; **Shri Harsh Bhargava**, Bankworld Incorporated, USA; **Shri Ajai Chowdhry**, former chairman, HCL Infosystems Ltd; **Shri Kamalesh Dwivedi**, Bellsystem24 Inc, USA; **Mr Sarthak Jain**, GridAnt Technologies; **Shri Sushil Kapoor**, Technical Textiles Business, SRF Ltd; **Shri Sanjay Lalbhai**, Arvind Mills Pvt Ltd, Ahmedabad; **Shri Kamal P Nanavaty**, Reliance Industries Limited, Mumbai; **Shri Hasmukh P Rama**, JHM Hotels, Inc, Greenville, USA; **Prof Akshai Runchal**, Analytic & Computational Research Inc, California, USA; **Shri Kushal Chand Sacheti**, Galaxy USA Inc and Key Items Inc, New York; **Shri Maheswar Sahu**, retired additional chief secretary, Industries & Mines, Government of Gujarat; **Shri Bhupen Shah**, technopreneur; **Shri Arvind Singhal**, Technopak Advisors Pvt Ltd, Gurgaon; **Dr Pramath Raj Sinha**, 9.9 Mediaworx Pvt Ltd; **Shri Ukabhai Solanki**, Big Saver Foods Inc, USA; **Shri K Sridhar**, Ricoh Innovations Pvt Ltd, Bangalore; **Shri Naveen Tewari**, InMobi, Bangalore; and **Shri A M Tiwari**, Gujarat Alkalies and Chemicals Limited, Vadodara.

INTERNATIONAL CONFERENCE ON SAFETY

The IITGN Safety Centre in association with Underwriters Laboratories Inc. organized the **2nd International Conference on Safety (ICS 2014)** from Dec 2-6, 2014. A pre-conference workshop on **Process Safety Education** was conducted by **Prof Daniel Crowl** from Michigan Technological University. As part of the conference a **Symposium on Process Safety (SPS 2014)** was also held to commemorate the 30th anniversary of the Bhopal Gas Disaster. A short course on **Design and Safety of Structures** under Fire was also conducted by **Prof Gaurav Srivastava**, **Prof Dhiman Basu**, IITGN; **Dr Venkatesh Kodur**, Michigan State University, USA; and **Dr Anthony Abu**, University of Canterbury, New Zealand, Dec 5-6, 2014. The conference was organized by **Prof Rajagoplan Srinivasan** and **Prof Chinmay Ghoroi**.

DESIGN FOR A BILLION CONFERENCE

A three-day international conference titled **Design for a Billion** was organized from Nov 7-9, 2014 by the Design & Innovation Centre. Nearly 200 designers, researchers, educators, practitioners, and entrepreneurs from across the world came together at IITGN to discuss the implications and future of design for mass impact. Speakers at the event included **Dr Klaus Krippendorff**, University of Pennsylvania, USA; Dr Jonas Wolfgang, Institute of Transportation Design, Germany; **Dr Jean Joseph Boillot**, co-chairman of the Euro-India Economic & Business Group (EIEBG); **Dr Gjoko Muratovski**, head, Communication Design at AUT, New Zealand, **Mr Suresh Sethi**, vice president, Whirlpool Design Asia; and **Mr Satish Gokhale**, founder of Design Directions Pvt Ltd. The conference was organized by Prof Achal Mehra and Prof Bhaskar Bhatt.

FOUNDATION PROGRAMME 2014

The Foundation Programme is IITGN's flagship programme designed for the incoming batch of first year BTech students. This dynamic immersion programme nurtures students in a holistic and engaging manner through workshops, talks and projects on the themes of creativity, social awareness, leadership and communication, values and ethics, and sports and physical fitness. The programme was conducted during Jul 21 – Aug 24, 2014 and was inaugurated by **Prof Sanjeev Sanghi**, member of the Board of Governors, IIT Delhi along with IITGN alumni **Sarthak Jain**, CEO, GridAnts Technologies and **Shrankhla Narya**, independent visual artist. The highlight this year was a talk by **Mr Kailash Satyarthi**, winner of the 2014 Nobel Peace Prize. In his talk titled "**Engineers can fight social injustice better: a personal story",** Mr Satyarthi spoke about his efforts to rescue children from the scourge of child labour not just in India, but worldwide. Other talks included Frugal Innovation (**Prof Anil Gupta**, executive vice chair, National Innovation Foundation), Corporate Leadership (**Mr Sanjeev Rangrass**, CEO, ITC Agri-Business), Science and Entrepreneurship (**Prof Shiladitya Sengupta**, Harvard University), Gandhian Vision of Civilization (**Rajni Bakshi**, author and journalist) and Environmental Sustainability (**Ms Manju Menon**, former Nehru-Fulbright fellow) among others. A number of workshops dynamically engaged students and included activities such as sketching (**Mr Jayanti Naik**, noted sculptor, ceramist and design educator), theater (**Mr Dakxin Bajrange**, award-winning filmmaker, playwright and activist), creating animations and comics (**Prof Shekhar Mukherjee**, National Institute of Design), poetry (**Prof Bill Wolak**, William Patterson University) and numerous other interesting events. The 5-week long programme ended with in the event **Eureka**,a cultural program that was coordinated by **Mr Stefan Haves**, acclaimed director, creator and producer of circus, theater and film, and Scholar-in-Residence at IITGN. The 2014 Foundation Programme was coordinated by **Prof Anirban Dasgupta**, **Prof Surjeet Kour**, **Prof Sairam Mallajosyula**, **Prof Sharmistha Majumdar** and **Prof Pratik Mutha**.

INDIA KI KHOJ: AN INTER-INSTITUTIONAL INTERACTION

The third round of India Ki Khoj was held in Dec 2014. It was inaugurated by Padmashree **Urvashi Butalia**, founder, Zubaan Books (an impint of Kali for Women). Ms Butalia shared with students of Caltech and IITGN a nuanced overview of women's struggle for empowerment in India, stories of small and big changes, as well as unchanging nature of patriachy. This was followed by a delightful account on conventions of romance in Hindi film songs by **Nasreen Munni Kabir**. As students of both institutions were exposed to various subjects by which to understand both continuities and shifts in a globalizing and aspirational India. **Monojit Majumdar** shared truth tests and decisions in print media; **Zahir JanMohammed** spoke on the increasing ghettoisation and invisible lives in India and United States; **Shefalee Vasudev** provided the lens of fashion to understand tradition and modernity. Besides several lectures, including those on caste and religion, the students also learnt of the North Eastern states and their uneasy relation with mainstream India. Field trips to heritage sites, the Bhasha centre for tribal languages and workshop on Hindustani classical music were other highlights of the program.

INDIA AT ISCTE, LISBON

On June 24, 2014 faculty members and students from IITGN and ISCTE-IUL organized an event **India at ISCTE** in Lisbon, Portugal to celebrate the

ongoing partnership and intellectual exchange between the two universities. Faculty members who attended the event included **Prof Rosa Marie Perez**, **Prof Nuno Guimaraes**, **Prof Jorge Louca**, **Prof Jaison Manjaly**, **Prof Meera Mary Sunny** and **Prof Srinivas Reddy**. It was also attended by UG and PG students **Bruno Gaminha, Pedro Pombo, Hamza Mohd Zubair, Kinley Mehra** and **Anshul Gupta**. The event concluded with dance and music performances by **Lajja Sambhavnath, Srinivas Reddy** and **Stephen Bull**.

CE AND MSE CURRICULUM MEETINGS

Separate brainstorming meetings were organized to finalize the curricula for the four year BTech programs in **Civil Engineering** and **Materials Science and Engineering**. The civil engineering meeting was organized on Nov 22, 2014 in which 11 external experts from industry and academia participated and deliberated on various aspects of the curriculum. The materials science and engineering brainstorming meeting with 8 external experts was held on Dec 10, 2014. Both the review meetings identified the coverage of base programs and made several suggestions on possible modes and extent of exposure in the respective disciplines to facilitate enhanced industrial experience of students during the four years of their study.

SUMMER RESEARCH INTERNSHIP 2014

The **Summer Research Internship Programme** (SRIP) 2014 was organized during May - Jul at IITGN to foster research activities of students. The applicants were asked to choose among 68 project titles spread across various disciplines

offered by IITGN faculty. A total of 171 students participated in SRIP 2014. Of them 88 were from IITGN and 83 from 44 other institutions across India. Towards the end of SRIP 2014, a poster session was organized on Jul 11, 2014 to showcase the research outputs of the summer interns. **Prof Gaurav Srivastava, Prof Shanmuganathan Raman** and **Prof Pranab Mohapatra** coordinated the event with guidance from Associate Dean **Prof Bhaskar Datta**.

TEDX IIT GANDHINAGAR

IITGN hosted its first **TEDx IIT Gandhinagar** on Aug 31, 2014 in collaboration with TED, a non profit organisation devoted to Ideas worth spreading. The event featured seven eminent personalities from diverse domains: **Dr Vidyadhar Oke**, inventor of the 22 shruti harmonium; **Harun Robert**, India's biggest kids' icon and animation film-maker; **Khurshed Batliwala**, faculty at Art of Living and director of WAYE (World Alliance for Youth Empowerment); **Neeti Kailas**, a social entrepreneur and winner of the Rolex 2014 Award for Enterprise; **Rajat Nagpal**, filmmaker and entrepreneur; and **Jiten Thukral** and **Sumir Tagra**. The event was organized by **Akhilesh Gotmare**, **Mudit Rathor, Vaibhav Palkar** and **Vidyanand Wagh**.

PHASE 2015

An Indo-UK Workshop on **Photonics for Health, Atmosphere, Safety (PHASE 2015)** was organized on Jan 16-17, 2015 to seed discussions among early-career researchers from the two countries regarding the role that photonics can play in research and in teaching. It is envisaged that the deliberations will lead to research collaborations between the participants. The workshop was attended by academicians, researchers and industrialist from IIT Madras, IIT Bhubaneshwar, the Physical Research Laboratory, Ahmedabad, the Space Applications Centre, Ahmedabad and Sterlite Technologies, Aurangabad. Two plenary talks were given by **Prof Walter Johnston**e from the University of Strathclyde, Glasgow, and by **Prof Bishnu Pal** from the Ecole Mahindra, Hyderabad. A session was conducted specifically for students to make them aware of the huge potential that Photonic technologies and their importance in the modern world.

HINDI DIWAS @ IITGN

The Institute celebrated **Hindi Diwas** on Sep 13, 2014 to mark the significance of Hindi. Speaking at the event, **Prof Sudhir K Jain**, director, said that Hindi serves as a common thread that binds

SWACHH BHARAT MISSION

In keeping with the nation-wide **Swachh Bharat Mission** launched on Oct 2, 2014, IITGN organized a pledge-taking ceremony and a cleanliness drive in the areas adjoining the campus. Students, faculty and staff members participated in the event.

RASHTRIYA EKTA DIWAS

Rashtriya Ekta Diwas was observed on Oct 31, 2014 to commemorate the birth anniversary of Sardar Vallabhbhai Patel. On this occasion around 200 students, faculty and staff took a pledge and participated in the Run for Unity campaign.

together the diverse population of the nation. Students, faculty and staff members actively participated in a poetry recital event. The event also hosted fun and entertaining games including an open challenge of Amir Khusrao's riddles, and Complete the Muhavra in which one half of a popular Hindi proverb was given and the participants had to complete the remaining half.

CANCER AWARENESS WEEK @ IITGN

IITGN's Centre for biomedical engineering conducted a week-long programme to create basic awareness about cancer. A series of lectures were delivered by eminent oncologists **Dr Usha Bohra** and **Dr Vishal Choksi**, Apollo Hospitals, Ahmedabad, and **Dr Arun Shet**, St John's Hospital, Bangalore, Oct 7-12, 2014. The programme was organized by **Prof Sivapriya Kirubakaran** and **Prof Vijay Thiruvenkatam**.

GOOD GOVERNANCE DAY

Good Governance Day was observed at IITGN on Dec 24, 2014. A competition on Use of Technology and Innovation in Promoting Good Governance was organized to mark the occasion. The winners were **Gaurav Sharma, Anshul Gupta, Yash Pratap Singh** and **Ashish Kumar Sehra**.

IITGN ESSAY COMPETITION

The IITGN essay competition, announced in Jan 2014, to describe the journey of IITGN from its inception till the year 2035 received a total of 44 entries. Of these, 8 entries were selected for the reading session. The authors presented their ideas in short interactive sessions held on Jan 16, 2015. The essay titled **We are Infinite** by **Harsh Gupta**, BTech, IITGN, was adjudged as the best essay jointly with the essay titlted Towards light- vision 2035 by **Nitesh Pandey**, Researcher, IARC Mumbai. The writers received a MacBook Air each.

URDU POETRY

Mehfil-e-Adab, an evening of Urdu Poetry, by **Ms Hamida Banu Chopra**, University of California, Berkeley and her students was organized at IITGN on Feb 19, 2015.

PIANO CONCERT

A piano and violin concert by internationally renowned pianist **Dr Hao Huang** and violinist **Dr Rachel Vetter Huang** both from Scripps College, Claremont, California, USA better known as The Mei Duo, was held at IITGN on Jan 8, 2015. This was the first live western classical music concert organized at IITGN. The Mei Duo has been awarded grants for excellence in performance and scholarship by both the National Endowment for the Arts and the National Endowment for the Humanities, USA. Rachel and Hao Huang have performed in such venues as Merkin Hall in Abraham Goodman House, Coolidge Auditorium in the Library of Congress and the National Museum of Women in the Arts, Washington, D C. The Mei Duo concert at IITGN was followed by a week long lecture series on aspects of western music such as Jazz and American Chamber Music by **Dr Huang** and **Dr Vetter Huang**. During their 10 day visit to IITGN, the Huangs interacted with several members of the IITGN community in formal and informal settings. They wrote about their memorable visit to IITGN in Scripps College's leading campus newsletter.

SCHOLARSHIPS FOR STUDENTS

MERIT-CUM-MEANS SCHOLARSHIPS

Merit-cum-Means (MCM) scholarships were awarded to 112 undergraduate and 8 postgraduate students of general and OBC categories during the year 2014-15. 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) and Rs 1000 per month for ten months.

In addition to the MCM, tuition fee waivers (Freeships) were awarded to 14 undergraduate and 3 postgraduate students who did not qualify for MCM on merit, but needed financial assistance. All students of SC/ST category avail the tuition fee waiver. In addition, 26 undergraduate and 2 postgraduate students in the SC/ST category whose parents' income was within the limit prescribed for MCM scholarships were granted the facility for free food in the student mess and Rs 250 per month for ten months.

GITA AND PRITHWISH GOSWAMI SCHOLARSHIP

The Gita and Prithwish Goswami Scholarship is awarded to a first year undergraduate student. This scholarship carries an amount Rs 1500 per month for ten months and tuition fee waiver. A student who qualifies for MCM scholarship is eligible for this scholarship. **Relan Udit Surendra** is the recipient of this scholarship for the year 2014-15.

S C MEHROTRA SCHOLARSHIP

The S C Mehrotra Scholarship is awarded to a second year civil engineering undergraduate student for six semesters. A second year civil engineering student who qualifies for MCM scholarship is eligible for this scholarship. The value of the scholarship is Rs 1500 per month for ten months. **Vaddineni Srija** is the recipient of this scholarship for the year 2014-15.

NITEEN P SANT SCHOLARSHIP

The Niteen P Sant Scholarship is awarded to second year civil engineering and materials science and engineering undergraduate students for six semesters. A second year student who qualifies for MCM scholarship is eligible for this scholarship. The value of the scholarship is Rs 20000 per year and tuition fee waiver. **Anurag Goyal** (civil engineering) is the recipient of this scholarship for the year 2014-15.

SCHOLARSHIP FOR EXCELLENCE

IITGN has instituted several merit scholarships for outstanding performance in academics, sports, art and culture, and social work and leadership. These scholarships are different from the Merit-cum-Means scholarships and are awarded only on the basis of outstanding achievements in the respective fields. The scholarship carries a stipend of Rs 2000 per month for 10 months. Excellence scholarships for the academic year 2014-15 have been awarded as follows:

Scholarship for Excellence in Academics

Tushti Shah (CPI 9.03), **Preet Shah** (CPI 9.94), **Mishita Jaiswal** (CPI 9.94) and **Prathmesh Bhatt** (CPI 9.58) from third year batch are the new recipient of the Scholarship for Excellence in Academics for the year 2014-15. **Among the second year students, Nishit Shetty** (CPI 8.69), **Kushal Salecha** (CPI 9.58) and **Radhika Patil** (CPI 9.88) are the new recipients of the scholarship. **Rishab Anand** (CPI 10.00), **Anikesh Kamath** (CPI 9.70), **Bhargav Chauhan** (CPI 9.98) and **Prerna Singh** (CPI 9.22) are the new recipients of the scholarship from first year batch.

Scholarship for Excellence in Sports

The Scholarship for Excellence in Sports and Games is awarded to upto six students for outstanding performance in sports and games as evidenced in the Inter IIT sports meet or similar national events. **Parth Sane, Animesh Kumawat** and, **Nisha Rawat** are awarded scholarship for excellence in sports for the year 2014-15.

Scholarship for Excellence in Arts & Culture

The Scholarship for Excellence in Arts & Culture is awarded to upto 2 students for outstanding performance in cultural and other art festivals as evidenced at the Inter-IIT cultural meet or similar national events. **Shubham Patil** is awarded the scholarship for Excellence in Art & Culture for the year 2014-15.

Scholarship for Excellence in Social Work & Leadership

The Scholarship for Excellence in Social Work and Leaderships is awarded to upto 2 students for outstanding leadership exhibited by the students either in Institutional affairs (including organising events and in discharging responsibilities in managing students office), or in social work. **Eepsit Tiwari** and **Akash Keshav Singh** are awarded the scholarship for Excellence in Social Work & Leadership for the year 2014-15.

IITGN INCUBATION CENTRE (IIC)

INNOVATION AND ENTREPRENEURSHIP

International Exposure

12 students from the third and fourth year of the BTech programme received exposure to international entrepreneurship ecosystems during a two-week intensive program on entrepreneurship at Technion Israel Institute of Technology, Israel. **Eepsit Tiwari** was a recipient of the **Rajeev Motwani Young Entrepreneurship Fellowships** in summer 2014, which enabled him to gain exposure to the Silicon Valley ecosystem.

Dr Hiran Vedam was part of an international delegation that visited Israel as part of Technion e.Xplore AC program for international scholars held from Sep 9-14, 2014. This gave her an opportunity to interact with entrepreneurship scholars from 13 different countries and understand their entrepreneurship ecosystems. **Ms Rachel Shalom** from Technion spent time in IIT Gandhinagar from Dec 2014-Mar 2015 as a visiting faculty. During her stay she conducted a short course and coordinated the launch of WinS, IIT Gandhinagar's program to promote technology entrepreneurship among women. Prof Harry Yuklea from Technion visited IIT Gandhinagar from Jan 15-24, 2015 to provide his expert advice on developing IIT Gandhinagar's incubation and entrepreneurship programs.

INFRASTRUCTURE: (INCUBATION CENTRE)

The IIT Gandhinagar Incubation Centre (IIC) is well connected with the commercialization infrastructure in Ahmedabad and has strong connections with several ecosystem partners and incubators in Ahmedabad, other IITs and NCL. IIC currently has one non-resident and two resident incubatees (TinkerTank and Lumos). The Institute's first incubatee GridAnts recently received its first round of external funding. The Institute has introduced a deferred placement policy in Oct 2014 that enables students to opt out of placements while they pursue their entrepreneurial dreams. Nine students from the graduating batch took the option to start three different companies.

In Dec 2014, the Board of Governors (BoG) approved the Institute's IP and incubation policies designed to provide more transparency in creating high-value startups and expedite interaction with the industry. The BoG also approved the creation of the IIT Gandhinagar Innovation and Entrepreneurship Centre (IIEC) to support incubation and technology commercialization initiatives. In January 2015, IIT Gandhinagar received approval to set up an incubator under the Technology Business Incubator (TBI) program of Department of Science and Technology. The TBI is envisioned to have wet and dry labs and rapid prototyping infrastructure (hardware and software) to support high technology startups.

An Incubation Advisory Committee (IAC) comprising of **Dr Madhu Mehta** (iCreate), **Mr Sushanto Mitra** (LeadAngels), **Prof Harry Yuklea** (Technion), **Dr H K Mittal** (NSTEDB-DST) and **Ms Rachael Shalom** (Technion) met on Jan 19, 2015 to advise the Institute on the strategy and policies for creating sustainable incubation activities.

In March 2015, **Mr Anand Pandey** joined the Institute as the Assistant Technology Commercialization Manager. He earlier worked at National S&T Entrepreneurship Development Board, Department of Science and Technology. Mr Pandey has an MTech degree in biotechnology from Uttarakhand Technical University and postgraduate diploma in intellectual property rights from the National Law University, Jodhpur.

INTELLECTUAL PROPERTY

In 2014, IIT Gandhinagar filed two patent applications and one design registration. The Institute is actively commercializing these registered technologies.

EYE TRACKER SYSTEM

This technology enables post-stroke therapy based on eye-gaze diagnosis and operant conditioning with minimal expert intervention.

The resulting system reduces the cost of delivering post-stroke care in the comfort of the patient's home. PI: **Prof Uttama Lahiri.**

MULTI-PARAMETER PATIENT MONITORING SYSTEM

This technology enables measuring multiple physiological parameters of a patient non-invasively using a pulse-plethysmogram sensor and a pressure sensor. It allows the monitoring and displaying physiological parameters of a patient rapidly with minimal discomfort. PI: **Prof Uttama Lahiri.**

DESIGN: STREET BIN

This street bin design attempts to overcome most of the problems associated with dustbins by providing the following features (1) robust single component (2) stable to prevent toppling (3) out of reach animals (4) directional to enable ease-of-use and (5) translucent to enable segregation. PI: **Prof Dinesh Korjan.**

SEMINARS AND COURSES:

Courses

- **Entrepreneurship: Talking Sharp** by **Ms Rachel Shalom,** Technion Israel Institute of Technology, Israel, Jan 20- Feb 3, 2015.
- **Social Entrepreneurship** by **Mr Ketan Deshpande** and **Mr Santosh Huralikoppi,** Mar 28-29, 2015**.**
- **Engineering Entrepreneurship that focuses on a variety of skills necessary for being a successful entrepreneur** by **Dr Arnab Sarkar** and **Mr Raj Jaswa**, Spring 2015.

Seminars

- **Research2Rupees** seminar was organized in partnership with Gujarat State Biotechnology Mission (GSBTM), Feb 4, 2015.
- **Prior Art Search** seminar was organized by **Ms Mita Sheikh**, senior associate & patent agent, Krishna and Saurastri Associates, Mar 21, 2015.

Capacity Building:

- **Ms Mouli Kethineedi** attended a one-day workshop for incubation managers conducted by Lead Angels in Bangalore on Aug 8, 2014.
- **Ms Soumya Harish** attended a three-day incubator capacity building workshop on building an incubator for social ventures from Nov 26-28, 2014. The workshop was organized by Centre for Innovation, Incubation and Entrepreneurship (CIIE) and Deutsche Gese llschaftfür Internationale Zusammenarbeit (GIZ) at IIM Ahmedabad.
- **Mr Anand Pandey** attended a two-day introductory workshop conducted by Venture Centre in Puneon setting up and running an in-house patent cell.
- **Dr Hiran Vedam** attended TechCircle startup 2014 (Mumbai Edition) in Mumbai on Dec 17, 2014.

WINS (WOMEN IN STARTUP) - AN INITIATIVE FOR FOSTERING TECHNO-ENTREPRENEURSHIP SKILLS AMONG WOMEN

IIC has launched WinS, a unique program to foster tech-based entrepreneurship skills among women in India by creating an active network of women entrepreneurs, supporters and enthusiasts. The program created an active network of women professionals, women entrepreneurs (aspiring and inspiring) and others who want to support creation of such ventures in the Ahmedabad-Gandhinagar area. Eminent speakers to deliver presentations at the group include **Ms Rama Moondra**, successful trainer and coach; **Mr Abhishek Desai**, Digicorp, **Ms Renu Mittal**, Cotton Route and **Dr Hiran Vedam**, IITGN.

CONFERENCES/ SYMPOSIA/ WORKSHOPS/ SEMINARS

Conferences, symposia, workshops and seminars on focus themes are vital academic activities that help stimulate discussions on different areas of importance. Many of these activities invite participation from other organisations and enhances the Institute's visibility to the outside world. The following activities were organized during 2014-15:

- A one-day workshop on **Design and Development of Indoor Remotely Controlled Airships** by **Prof Rajkumar S Pant**, IIT Bombay, May 1, 2014.
- A one-day workshop on **Remote Sensing of Dholavira & Environs** by **Dr M B Rajani**, an expert on remote sensing applications to archaeology, Aug 5, 2014.
- International workshop on **Fire Investigation**, Aug 24, 2014 and international workshop on **Enclosure Fire Dynamics**, Aug 25, 2014 by **Dr Björn Karlsson**, Director General of the Iceland Construction Authority and an Associate Professor at the University of Iceland.
- The **8th National Frontiers of Engineering (NatFOE-08) Symposium** with "Safety" as its main theme and the four sub-themes including: Earthquake engineering and safety; Process and fire safety; Road safety and Cognition and safety was organized during Sep 5-6, 2014. Nearly 30 faculty members from institutes, such as IIT Kanpur, IIT Madras, IIT Delhi, IIT Bhubaneswar, IIT Kharagpur, IIT Bombay, IIT Roorkee, NIT Rourkela, NIT Patna and NIT Surat, shared their ideas and information with eminent engineers. The symposium was attended by 75 participants & coordinated by **Prof Pranab Mohapatra, Prof Dhiman Basu, Prof Rajagopalan Srinivasan, Prof Chinmay Ghoroi, Prof Krishna Prasad**, IITGN and **Prof Vinod Vasudevan**, IIT Kanpur.
- A three-day workshop on **Low-cost High-Tech Automation** was conducted by **Prof N Ramakrishnan**, and **Prof Joycee Mekie**, Sep 25-27, 2014. It was attended by nearly 53 participants from industries such as DRDO, DRDL, Mahindra & Mahindra, NFC, NIF, Voltamp etc., and faculties from engineering institutions of Gujarat.

- A two-day workshop on **Industrial Hazard Identification using HAZOP** by **Shri G Vishwanathan**, former deputy general manager, Indian Petrochemicals Corporation (now RIL), Vadodara and **Prof Rajagopalan Srinivasan**, IITGN, Oct 11-12, 2014.
- A workshop on **Scarred Nations: Partition in the Indian Subcontinent** was inaugurated by **Prof Sanjay Palshikar**, Hyderabad Central University with a talk on **Nation and nationalism** followed by a talk on **Witnessing Partition** by **Prof Tarun Saint**, Hindu College, Nov 7, 2014.
- A one-day workshop on **Foundation of Personality: When Abhishek Meets Rahul** by **Ms Sarita Shah**, psychotherapist and behavioral trainer, Nov 15, 2014.
- An industry workshop to review the **Civil Engineering curriculum** coordinated by **Prof Amit Prashant** & **Prof Dhiman Basu** was held on Nov 22, 2014.
- A one-day workshop on **Networking, Negotiation & Communication** by **Mr Ulhas Kamat**, CEO, I-Create India, Nov 30, 2014.
- **Rozgar Evam Udhyamitha Vikas Karyakram** was organized by NEEV (Nurture & Empower Entrepreneurial Ventures), an IITGN community outreach programme and I-Create India, a non-profit organization; for aspiring entrepreneurs from IITGN staff and their family members, Dec 5-8, 2014.
- A two-day workshop on **Archaeometallurgy and Archaeology** was organized by the **Archaeological Sciences Centre**, IITGN and Ar-

chaeological Survey of India (ASI), Dec 8-9, 2014.

- A two-day self-development workshop on **Be Yourself, Everyone Else Is Taken** by **Ms Meenaskhi Kirtane**, psychotherapist and behavioural trainer, Jan 10-11, 2015.
- A workshop on **Adding Sustainability to Engineering Courses** by **Prof Cliff Davidson**, Syracuse University and **Prof Ted Russell**, Georgia Tech, Jan 14, 2015.
- The first Indo-UK workshop on **Photonics for Health, Atmosphere, Safety and Education (PHASE 2015)** Jan 16-17, 2015 saw participation from academicians, researchers and industrial persons from India and the UK. The speakers included **Prof Walter Johnstone**, **Dr Michael Lengden** and **Dr Gordon Flockhart from the** University of Strathclyde, Glasgow; **Prof Bishnu Pal**, Ecole Centrale Mahindra, Hyderabad, **Shri Arup Banerjee**, Space Applications Centre, ISRO, Ahmedabad; **Dr Goutam Samanta** from PRL Ahmedabad. The event was coordinated by **Prof Arup Lal Chakraborty**.
- A one-day workshop on **Maritime Gujarat and the Western Indian Ocean: Cultural Routes Through Time** in collaboration with Project Mausam, featured a keynote address by **Prof Michael Pearson**, University of New South Wales, Australia, Jan 19, 2015.
- A one-day workshop on **IP Awareness** by **Mr Gouraj Yadav** and **Mr Ojas Sabnis**, Hourglass Research, Mumbai, Jan 24, 2015.

- A two-day workshop on the **History and Archaeology of Ancient India** was organized by the IITGN Archaeological Science Centre during Jan 30-Feb 1, 2015. The inaugural and valedictory lectures were given by eminent historians **Dr Upinder Singh** and **Dr Nayanjot Lahiri**, University of Delhi. Over twenty scholars from around the country delivered research papers.
- **Padayatricks**, a brainstorming session centred on the **Pedestrian in the City** was organized by the Safety centre at IIT Gandhinagar on Feb 7, 2015.
- A one-day workshop on **Variational Analysis and Optimization** by **Prof Jagmohan Tyagi**, Mar 2-8, 2015.
- Symposium on **Mathematical and Computational Biology** in association with National Network for Mathematical and Computational Biology (NNMCB), Pune, Mar 21-22, 2015.
- A workshop of talks titled **The Modern, the Colonial, and Beyond**, hosted by IISER Pune and IIT Gandhinagar included talks on **Zoology for a Colony and the Making of India's Fauna** by **Dr John Mathew**; **The Magic in Magical Realism: Implications for Fictional Worlds** by **Dr Pooja Sancheti**; and **Technologically Crafting Heritage: The Cultural Politics of Vernacular Music Documentation in India** by **Dr Aditi Deo**, IISER Pune, Mar 27, 2015.

SHORT COURSES

A variety of short courses are offered throughout the year to increase the choice and flexibility of course offerings, as well as to benefit from the expertise of visiting faculty and experts from varied backgrounds who visit the campus for short durations. The following short courses were delivered during 2014-15 by recognized experts in their respective fields.

- A five-day short course on **Tensor Mathematics in Constitutive Modeling** by **Prof Gyan Vikash**, Shiv Nadar University, Noida, Jul 9-13, 2014.
- A short course on **Crystallography** by **Prof T Ramachandran**, former faculty at IITKanpur, Aug 11-25, 2014.
- A short course on **X-ray Diffraction** by **Prof T Ramachandran**, former faculty at IIT Kanpur, Sep 8-18, 2014.

- A short course on **Financial Considerations in Engineering Decisions** by **Dr Kasivisvanathan Chelvakumar**, president of EPIR Technologies, Chicago, Sep 2-11, 2014.
- A short course on **Displacement-based Methods in Seismic Design and Assessment** by **Dr Katrin Beyer**, EPF Lausanne, Oct 20-24, 2014.
- A short course on **Development Studies** by **Dr Sandeep Pandey**, co-founder of Asha for Education, Nov 1-2, 2014.
- A two-day short course on **The Psychology of Conservation & Sustainability** by **Dr Jolina Ruckert**, University of Washington, Nov 8-9, 2014.

- A short course on **Geotechnical Investigations for Structural Engineering** by **Prof V S Raju, Prof Ajanta Sachan** and **Prof Amit Prashant**, IITGN, Nov 13-15, 2014.
- A short course on **Computational Methods in Engineering using MATLAB** by **Prof Nitin Padhiyar**, IITGN, Dec 17-19, 2014
- A short course on **Applied Digital signal Processing** by **Prof Nithin V George**, IITGN, Dec 08-12, 2014
- A short course on **Fiber-reinforced Polymer Matrix Composite Materials** by **Prof Rajendra Bordia**, Clemson University, USA, Jan 5-16, 2015.
- A short course on **Mechanics in Engineering** by **Prof Chandrakant Desai**, Distinguished Scholar-in-Residence, IITGN & Regents Professor Emeritus, University of Arizona, Jan 6-13, 2015.
- A short course on **Soil-Structure Interaction: Computer Applications and Material Models** by **Prof Amit Prashant**, IITGN, Jan 19-23, 2015.
- A short course on **Entrepreneurship: Talking Sharp** by **Ms Rachel Shalom**, Technion Israel Institute of Technology, Israel, Jan 20-Feb 3, 2015.
- A short course on **Dream Interpretation** by **Prof Frederick Coolidge**, Scholar-in-Residence, IITGN, Jan 24-25, 2015.
- A short course on **Electron Microscopy** by **Prof T Ramachandran**, formerly with IIT Kanpur, Jan 28-Feb 10, 2015
- A short course on **Building a Start-up Company and Business Plan Presentation** by **Mr B V Jagadeesh**, managing director, KAAJ Ventures, San Francisco, CA, Feb 5-10, 2015.
- A short course on **Language Contact in South Asia** by **Dr Hugo C Cardoso**, University of Lisbon, Feb 14-15, 2015.
- A two-day short course on **Vector Spaces and Applications** by **Prof Ravi Banavar**, IIT Bombay, Feb 19-20, 2015.
- A three-day short course on **Transport of Sediments** by **Prof Pranab Kumar Mohapatra**, IITGN, Mar 02-04, 2015.
- A two-day short course on **Introduction to Computer Networking** by **Dr Amit Saha**, Cisco, Mar 14-15, 2015.
- A short course on **Intersections of Law & Technology** by **Ms Kelly Dhru**, Research Foundation for Governance in India (RFGI), Mar 21-22, 2015
- A two-day short course on **Social Entrepreneurship** by **Mr Ketan Deshpande** and **Mr Santosh Huralikoppi**, FUEL, Mar 28-29, 2015.

INVITED LECTURES

The following invited lectures were delivered by experts who were invited to the Institute to share their insights in their fields to kindle scholarly interest in the students in a diverse range of topics.

- **Breaking the tradition- whole crude oil fractionation then hydrotreating or whole crude oil hydrotreating then fractionation?** by **Prof Iqbal M Mujtaba**, University of Bradford, UK, April 2, 2014.

- **Influence of low-level stimulus features on high-level stimulus categorization-behavioral and neural evidence,** by **Dr Bhuvanesh Awasthi**, University of Wisconsin-Madion, USA, April 4, 2014.
- **Structural engineering design and practice: examples and career advice,** by **Mr John Pao**, president, BogdonovPao Associates Ltd, Vancouver, Canada, April 7, 2014.
- **Leveraging your knowledge and skills for success in your professional career,** by **Prof Vinay Khanna**, visiting faculty at premier Institutes in India, April 14, 2014.
- **The Pakistan paradox instability and resilience,** by **Prof Christophe Jaffrelot**, a French political scientist specializing in South Asia, April 14, 2014.
- **Water treatment technologies and over all view on recent advancements in water treatment,** by **Dr T N V V Rao**, head, Water Solution, UL, April 15, 2014.
- **Community water treatment technologies and experience with the existing plants,** by **Mr Ravindra Sewak**, director, Safe Water Network, April 15, 2014
- **Education abroad-engineering, privatization and the new middle class in neoliberalizing India,** by **Dr Aalok Khandekar**, Maastricht University, Netherlands, April 16, 2014.
- **BIAcore (SPR) for studying biomolecular interactions,** by **Dr Annette Person**, GE Healthcare Life Science, Sweden, May 19, 2014.
- **Microcalorimetry: Technology and applications,** by **Dr Natalia Markova**, GE Healthcare Life Science, Sweden, May 19, 2014.
- **How to make teaching more interactive/ challenging, by raising the level of problems given in standard textbooks,** by **Prof M K Harbola**, IIT Kanpur, July 4, 2014.
- **Synchrotron radiation facility at RRCAT,** by **Dr Sudip K Deb**, former head, Indus Synchrotron Utilization Division, Raja Ramanna Centre for Advanced Technology (RRCAT), Indore, July 7, 2014.
- **Large and great earthquakes in the stable continental region of India,** by **Prof J R Kayal**, Institute of Seismological Research, Gandhinagar, July 10, 2014
- **Cyber defense of critical infrastructure systems,** by **Prof Vittal S Rao**, director, Smart Grid Energy Centre, Texas Tech University, July 22, 2014.
- A series of lectures on **Optimizing pure Nb for particle accelerators**; **a multifunctional material with many conflicting design constraints**; **Characterization, analysis, and simulation of the influence of mesotexture on heterogeneous deformation**; and **Influence of microstructure, crystal orientations, deformation, and recrystallization on high temperature metallic material performance,** by **Prof T R Bieler**, Michigan State University, USA, July 28-29, 2014.
- **On the complexity of some graph/multigraph decomposition problems,** by **Prof Shailesh Tipnis**, Illinois State University, July 31, 2014.
- **Introduction to probability theory and stochastic processes,** by **Prof Krishna B Athreya**, Iowa State University, August 1, 2014.
- **Engineers can fight social injustice better - a personal story,** by **Mr Kailash Satyarthi**, internationally acclaimed child right's activist and pioneer in the fight against child slavery, August 4, 2014.
- **Small voices sing big songs: music and the development imaginary in Western Rajasthan, India,** by **Dr Shalini Ayyagari**, an ethnomusicologist who specializes in the music of South Asia, August 12, 2014.
- **Picture Abhi Baki Hai,** by **Prof Rachel Dwyer**, School of Oriental & African Studies, London, August 13, 2014.
- **The barriers in the search for a cure for cancer: Recent understandings and advances,** by **Prof Shiladitya Sengupta**, Harvard Medical School and MIT, August 19, 2014.
- **Nanodevice technology and smarter planet initiatives,** by **Dr Murali Kota**, chief technologist, IBM India Semiconductor Research and Development Centre, August 22, 2014.
- **Elementary particles in our Universe and the search for Higgs boson,** by **Prof Raghavan Rangarajan**, PRL Ahmedabad, August 29, 2014.

- **An entrepreneur's journey of ideas, trials and success,** by **Mr Pranit Banthia**, founder and CEO, Hi Tech group of companies, Ahmedabad, August 30, 2014.
- **Capitalizing on the economy of expertise,** by **Dr Rajendra Bera**, chief mentor at Acadinnet Education Services India Pvt Ltd, Bangalore, September 3, 2014.
- **Emerging revolution in India's energy sector,** by **Prof Rajendra Singh**, Clemson University, September 3, 2014.
- **Aesthetics and politics: Community and conflict transformation through theatre,** by **Prof Henry Schwarz**, general editor, Blackwell Encyclopedia of Postcolonial Studies, September 4, 2014.
- **From IIT to mapping genes** by **Ms Anu Acharya**, CEO, mapmygenome, September 4, 2014.
- **Orientation programme on New face of administration in the IIT system for the non-teaching staff of IITGN** by **Shri D K Ghosh**, former registrar, IIT Bombay, September 6, 2014.
- **Engineering a sustainable future** by **Prof Nirmal Sethia**, California State Polytechnic University, Pomona, September 11, 2014.
- **From Dandy to Dandi: Gandhi's journey to social justice,** by **Prof Tara Sethia**, California State Polytechnic University, Pomona, September 11, 2014.
- **Queer movement in India: rights, struggles and activism,** by **Mr Pallav Patankar**, director, HIV programmes of India's first registered LGBT NGO, The Humsafar Trust, Mumbai, September 11, 2014.
- **Thought experiments, models and the heuristic power of metaphors in science,** by **Prof Bipin Indurkhya**, AGH University of Science and Technology, Cracow, Poland, September 11, 2014.
- **Patterns of life and death: using physics to understand complex dynamics in human physiology,** by **Prof Sitabhra Sinha**, Institute of Mathematical Sciences, Chennai, September 19, 2014.
- **Biogas technology,** by **Dr Sharad Kale**, Bhabha Atomic Research Centre, Mumbai, September 23, 2014.
- **Basic awareness about cancer,** by eminent oncologists **Dr Usha Bohra**, **Dr Vishal Choski**, Apollo Hospitals, Ahmedabad, and **Dr Arun Shet**, St John's Hospital, Bangalore, October 7-12, 2014.
- **Learning and deciding from uncertain data,** by **Prof R N Singh**, CSIR-National Geophysical Research Institute, Hyderabad, October 10, 2014.
- **Optical-matter: creating nanomaterials with light,** by **Dr Uttam Manna**, The James Franck Institute, University of Chicago, October 27, 2014.
- **Internet freedom: hot-button challenges,** by **Dr Nikhil Moro**, scholar and teacher of digital media law, October 30, 2014.
- **Application of technology to develop human qualities and be a happy achiever,** by **Dr Ronak Shodhan**, engaged in academic, counseling, social and philanthropic services, October 31, 2014.
- **Culture and psychology,** by **Prof Lilavati Krishnan**, IIT Kanpur, November 7, 2014.
- **Telling new stories with old bones: understanding Harappan migration through archaeological bone chemistry,** by **Mr Benjamin Thomas Valentine**, Dartmouth College, USA, November 10, 2014.
- **Risk assessment of petroleum oil storage,** by **Dr Ravi Kumar Sharma**, IIT Roorkee, November 13, 2014.
- **Black holes in the universe,** by **Prof Ranjeev Misra**, Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune, November 17, 2014.
- **Energy spectrum of buoyancy-driven turbulence,** by **Prof Mahendra K Verma**, IIT Kanpur, December 5, 2014.
- **From powders to shapes, components and devices through powder synthesis, shape forming and assembly,** by **Prof Parag Bhargava**, IIT Bombay, December 5, 2014.
- **Scaling relationships for mechanical behavior in nanocrystals,** by **Prof Atul H Chokshi**, IISc Bangalore, December 12, 2014.
- **Changing role of libraries and librarians: experience of Drexel University libraries** by **Mr Jay Bhatt**, Drexel University Libraries,

USA, December 23, 2014

- **The case for a holistic technical view of sustainability and impetus for better designs,** by **Dr Subhas K Sikdar**, National Risk Management Research Laboratories, Cincinnati, USA, December 30, 2014
- **What did the Bayesian ideal observer teach us about vibrotactile perception?,** by **Dr Arindam Bhattacharjee**, University of Toronto, December 30, 2014
- **Wide bandgap (WBG) power electronics,** by **Dr Krisha Shenai**, vice president, LoPel Corporation, Naperville, Illinois, USA, January 1, 2015
- **Construction of gender,** by **Prof Lina Fruzzetti**, Brown University, January 5, 2015
- **A formalization of the role of uncertainty in services and their embodiment in goods,** by **Prof Devanathan Sudharshan**, University of Kentucky, January 6, 2015
- **Stone beads of the Indus civilization: technology and trade,** by **Prof Jonathan Mark Kenoyer**, University of Wisconsin, Madison, January 8, 2015
- **Shear localization in three-dimensional amorphous solid,** by **Dr Pankaj Kumar Mishra**, Weizmann Institute of Science, Israel, January 8, 2015
- **Understanding consumers for Behavioral interventions,** by **Prof Raghunath Singh Rao**, University of Texas, January 8, 2015
- **Change of norms and creativity: a cognitive perspective on normativity** by **Prof Bipin Indurkhya**, International Institute of Information Technology, Hyderabad, January 9, 2015
- An interactive session with **Mr Arun M Kumar**, US Assistant Secretary of Commerce, January 10, 2015.
- **Advances in nano-modified, multifunctional fiber reinforced concrete materials for sustainable infrastructure,** by **Dr Nemkumar Banthia**, University of British Columbia, January 12, 2015.
- **All that Jazz: jazz music through the blues,** by **Prof Hao Huang**, Scripps College, Claremont, January 13, 2015
- **American art music for violin and piano** by **Prof Rachel Vetter Huang**, Scripps College, Claremont, January 15, 2015
- **Is India's Northeast a 'different' cultural category?,** by **Prof Samir Das**, University of Calcutta, January 15, 2015
- **Gravitational wave astronomy: opening new windows to the universe,** by **Dr Sanjit Mitra**, IUCAA, Pune, January 16, 2015
- **Science learning, spatial cognition and representation,** by **Dr Shamin Padalkar**, University of Pune, January 16, 2015
- **Engineering education: Curriculum, teaching and learnin**g, b**y Prof Subrata Ray**, IIT Mandi, January 21, 2015
- Reporting **the other India, by Mr Jaideep Hardikar, The Telegraph,** Janu**ary 23, 2015**
- **Ur**du calligraphy, by **Prof Kalamuddin**, Urdu calligrapher, January 23, 2015
- **Growth of carbon nanostructures by catalytic chemical vapor deposition,** by **Prof Subrata Ray**, IIT Mandi, January 23, 2015
- **Silicon photonics for fiber optic communications and Journey of a physicist as a technology entrepreneur,** by **Dr Kal Shastri**, Cisco, January 30, 2015
- **A country of our own: imagining India, 1915-2015,** by **Dr Ananya Vajpeyi**, Centre for the Study of Developing Societies, New Delhi, February 3, 2015
- **Creative writing,** by **Prof William Herbert**, British poet and author, February 3, 2015
- **Working with head and heart aligned: My experiences with starting 108 emergency services project,** by **Dr Sudhakar Varanasi**, founder of Emergency Management Research Institute(EMRI), February 5, 2015
- **Fourier transforms and application to signal processing,** by **Prof V D Pathak**, formerly with M S University of Baroda, February 12, 2015
- **Disaster management - understanding disasters, the uncommon do's and don'ts and an insight of Indian Air Force relief operations,** by Wing Commander **Dinesh Vaswani**, IAF, February 13, 2015
- **Do I love you, or the 'me' in you?**, by **Ms Sarita Shah**, psychotherapist and behavioral trainer, February 14, 2015
- **Music of India and Europe: connections and parallels,** by **Stephen Bull**, violinist,

February 18, 2015

- **Exploring and explaining the diversity of Indo-Portuguese and The impact of the Portuguese language in South Asia,** by **Dr Hugo Cardoso**, University of Lisbon, February 18-19, 2015
- **The quantum and the continuum: Einstein's dichotomous legacies,** by **Prof Parthasarathi Majumdar**, Ramakrishna Mission Vivekananda University, Kolkata, February 19, 2015.
- **Tectonic, climatic, and surface processes at orogenic plateau margins,** by **Dr Rasmus Thiede**, Institute of Earth and Environmental Science, University of Potsdam, Germany, February 24, 2015
- **IT in India: trends and patterns**, by **Mr Avinash Vashistha**, Accenture India, March 10, 2015
- **East of Suez - glass beads, bangles, mirrors and more from India,** by **Prof Jan Kock**, Aarhus University, Denmark, March 12, 2015
- **Religion, culture and technology**, by **Prof Braj Sinha**, University of Saskatchewan, Canada, March 13, 2015
- **Solar Impulse: the world flight powered by the sun,** by **Mr Michael Pietig**, ABB Solar Impulse technology alliance, March 13, 2015
- **Monetization of IP,** by **Mr Akash Bhavsar**, Sky Quest Technology Group, March 14, 2015.
- **Prior-art search,** by **Ms Mita Sheikh**, Krishna and Saurastri Associates, March 21, 2015.
- **Data based decision making in small and medium enterprises,** by **Dr Arvind Saraf**, Entrepreneur, March 24, 2015
- **Leveraging the climate change challenge: new technologies and opportunities for sustainable growth,** by **H E Mr François Richier**, Ambassador of France to India, March 25, 2015
- **Solar fuels: splitting water and natural photosynthesis: chemistry of food and cooking,** by **Dr Siddharth Dasgupta**, NSF Centre for Chemical Innovation: Solar Fuels at Caltech, USA, March 27-28, 2015
- **Estimating India's future needs of electricity,** by **Prof S P Sukhatme**, distinguished honorary professor, IITGN, March 30, 2015

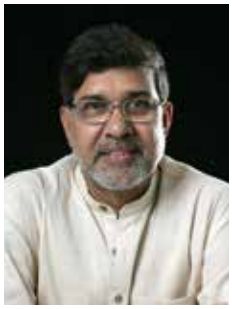
CONTINUING EDUCATION PROGRAMMES

A two-day TEQIP conclave on electrical and mechanical engineering sciences was held on Mar 13-14, 2015. Sixty one faculty members representing 14 engineering institutes from Gujarat, Maharashtra and Madhya Pradesh participated in the conclave. The participants made presentations on the facilities in their respective institutes. The themes of the conclave were industry-academia interaction and undergraduate research. In the session on the first theme experts from industries and academia **Mr Akhilesh Magal**, GERMI, **Mr Venugopal Pisharody**, Ingersoll Rand and **Prof H J Nagarsheth**, SVNIT expressed their views on roles of engineering institutes and industries. The discussion was coordinated by **Prof Naran Pindoriya**, **Prof Pratyush Dayal** and **Prof Harish P M.** Active participation by the delegates resulted in several realistic recommendations. The second theme was conducted by **Prof Amit Prashant** and **Prof Pranab Mohapatra** to

emphasize undergraduate research. Different modes of undergraduate research were brainstormed. Separate sessions on project-based undergraduate teaching and importance of entrepreneurship were conducted by **Dr Hiran Vedam** and **Prof Superb Misra** from IITGN. The participants also formed seven groups to discuss the difficulties they encounter in their institutes and came up with ideas on the conclave themes for implementation.

DISTINGUISHED VISITORS

SHRI KAILASH SATYARTHI



Nobel laureate Kailash Satyarthi visited IIT Gandhinagar as one of the eminent speakers of the **Foundation Programme 2014-2015**. The winner of the 2014 Nobel Peace Prize spoke to the IITGN community on Aug 4, 2014 about how engineers can fight social injustice better. In his talk Shri Satyarthi recounted his own story of having trained as an electrical engineer and how his work evolved to solving the deeply rooted issue of child trafficking and labour in India and around the world. He also strongly encouraged IITGN students to work towards such social issues, even if at a small level. Shri Satyarthi also interacted with the children under the wings of Nyasa, IIT Gandhinagar's community outreach program for children of construction workers.

RECTOR ISCTE

Prof Luís Antero Reto, Rector, ISCTE, University Institute of Lisbon visited the Institute during Feb 15-20, 2015 to strengthen academic and research relations between the two institutes.

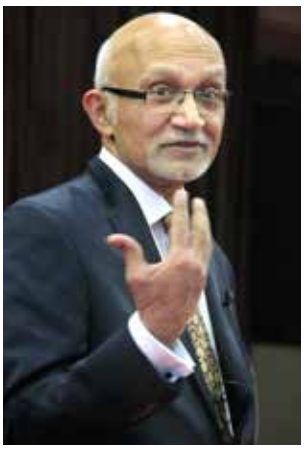
H E MR VENKATESAN ASHOK

H E Mr Venkatesan Ashok, former Ambassador of India to the Czech Republic and current Consul General of India (San Francisco) made a special visit to the Institute in October to discuss building collaborations between IITGN and various universities and industries in California. Ambassador Ashok met with several faculty members across several disciplines to discuss ways to develop strategies to strengthen academic, industrial and professional ties between India and the US.

JAIST DELEGATION

A delegation of four members from JAIST visited IITGN during Jan 16-17, 2015 to explore opportunities for collaboration. **Mr Tetsuo Asano**, President, JAIST said, "We are planning to send a team of students to study at IITGN and also look at its interdisciplinary studies programs". Other members included **Mr Hiroyuki Iida**, **Mr Shungo Kawanishi** and **Mr Ryo Maezono**.

MR ARUN KUMAR



IIT Gandhinagar hosted **Mr Arun Kumar**, US Assistant Secretary of Commerce, Global Markets at IITGN on Jan 10, 2014. Mr Kumar said risk in entrepreneurship is over-rated. He made this observation while interacting with over 100 students during his visit to the Institute. Mr Kumar, who is also the director general of the US and Foreign Commercial Service, was in Gandhinagar for the Vibrant Gujarat Summit. He also spoke about failure in entrepreneurship. 'A failure after trying your level best is appreciated in Silicon Valley and many doors are open for such people to come join corporates. However, there are other cultures where failures are a stigma." He appreciated IITGN's emphasis on entrepreneurship so that students don't look for jobs, but are in fact create more jobs in the market.

PROF JONATHAN MARK KENOYER

Prof Jonathan Mark Kenoyer visited IIT Gandhinagar on Jan 8, 2015 along with Dr Dennys Frenez of Italy and Mr James Lanning, a research scholar from University of Wisconsin-Madison. Prof Kenoyer gave a talk on **Stone Beads of the Indus Civilization: technology and trade**. He also held meetings with Institute officials.

H E MR FRANÇOIS RICHIER

The Ambassador of France to India, **Mr Francois Richier**, visited IIT Gandhinagar on Mar 25, 2015. The objective of his visit was to interact with students and faculty members and to raise awareness about the 21st Conference of the Parties (COP21) of the United Nations Framework Convention on Climate Change (UNFCCC), which will take place in Paris in Dec, 2015. He delivered a lecture on **Leveraging the climate change challenge: new technologies and opportunities for sustainable growth** followed by an interaction session. During the interaction, students and faculty members asked questions related to climate change and sustainability as well as climate change negotiations. The ambassador emphasized the need for clean energy to tackle the adverse implications of climate change. He highlighted that renewable energy can play a vital role in the development of India. The COP21 aims to provide a better platform for climate change negotiations and to develop strategies for climate change mitigation. An effective and equitable international agreement will be critical for reducing greenhouse gas emissions to limit global temperature rise. France, as the host and chair, of the COP21 is committed to the role of an impartial facilitator for forging an ambitious agreement at COP 21. In this context, Ambassador Richier addressed several issues related to the global fight against climate change and the role of France as chair of the upcoming conference in December. The way forward is to ensure sustainable growth that creates wealth, jobs, and social progress. Ambassador Richier also highlighted Indo-French cooperation in the field of climate change, including scientific and technology cooperation.

DISTINGUISHED HONORARY PROFESSORS

PROF J B JOSHI

Prof J B Joshi is an eminent professor of chemical engineering and J C Bose National Fellow of the Institute of Chemical Technology (ICT), Mumbai as well as the DAE–Homi Bhabha Distinguished Chair Professor of the Homi Bhabha National Institute (HBNI), Mumbai. His research interests are mainly in the field of computational fluid dynamics (CFD), transport phenomenon and non-linear dynamics in multiphase systems, energy, biological wastewater treatment, petroleum residue upgradation, enzyme engineering, gas inducing impellers/surface aerators, NOx abatement. He has supervised over 65 doctoral students and contributed in 350 peer-reviewed international journals and 26 national journals along with several conferences and books. He has about 40 years of experience in teaching and research. He has designed novel reactors, processes and plants which are in successful commercial operation in India and abroad. He is an active consultant to large sections of the chemical process industry. He has won several national and international awards and honors such as Fellow of Maharashtra Academy of Sciences (1987), Fellow of Indian Academy of Sciences (1991), Shantiswarup Bhatnagar Prize for Engineering Sciences (1991), Fellow of the Indian National Science Academy, New Delhi (1995), Best Teacher Award from the Maharashtra Government for the year 2004. In 2007 the American Chemical Society (ACS) selected him among the top 100 research scientists over a period of 40 years of industrial and engineering chemistry research on the basis of high impact publications.

PROF HARINARAYANA KOTA

Prof Harinarayana Kota graduated from Banaras Hindu University (BHU) in Mechanical Engineering, received his postgraduate degree in aero-engineering at IISc, Bangalore and PhD at IIT Bombay. He started his career in 1967 at Hindustan Aeronautics Limited. He rejoined HAL in 1982 as chief designer in Nasik Division. He was deputed to DRDO in 1985 and assumed charge as director of the Aeronautical Development Establishment (ADE), Bangalore. During 1995 he was elevated as Distinguished Scientist by DRDO. As programme director and chief designer of the Light Combat Aircraft, he successfully directed the project leading to flight testing and clearance for limited series production. His work contributed to the development of a state-of-the-art high-technology fighter aircraft. He is the Fellow of Aeronautical Society of India (former President of the Society), National Academy of Sciences and Indian National Academy of Engineering. He received Distinguished Alumnus Award from Indian Institute of Science and from IIT Bombay. He was awarded National Aeronautics Prize and FIE Foundation Award in 1996. He received SBI-Pragna Puraskar in 2001; the Dr Y Nayudamma Memorial Award 2001; and the DRDO Technology Leadership Award for 2001. He was honoured with the Padma Shri by Government of India in 2002. The Indian National Academy of Engineering conferred upon him, the Lifetime Contribution Award in Engineering, 2006. He was awarded Shri Om Prakash Bhasin award for Science & Technology for the year, 2007 in the field of engineering including Energy & Aerospace. He received DRDO lifetime achievement award in 2008. He was formerly vice-chancellor of the University of Hyderabad till 15 July, 2005. He is the chairman, research council, Centre for Wind Energy Technology, Chennai, Distinguished Guest Professor, Department of Aerospace Engineering, IIT Bombay, Indian technical coordinator for India-Trento/Italy S&T program, Pratt & Whitney chair professor at University of Hyderabad; Dr D S Kothari, DRDO Chair at ADA, Bangalore.

PROF SURENDRA PRASAD

Prof Surendra Prasad received his education at IIT Kharagpur and IIT Delhi. He has served IIT Delhi for more than four decades, having held a number of academic and administrative positions including the post of

the director. He is an eminent academician and researcher and has received numerous honours for teaching and research including 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 honoured with an honorary doctorate by the Loughborough University, UK in 2007. He is a Fellow of the Indian National Academy of Engineering, the Indian National Science Academy, the Indian Academy of Sciences and the National Academy of Science and has been a member of the governing body of CSIR and CSIR Society, Government of India and boards of many IITs, NITs and other engineering Institutes.

PROF V RAJARAMAN

Prof V Rajaraman obtained a BSc (Honors) in physics from Delhi University, completed SM in electrical engineering, Massachusetts Institute of Technology, USA, and PhD from University of Wisconsin, USA. He has held several important positions including IBM Research Professor of Information Technology, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore; professor and chairman, Supercomputer Education and Research Centre, Indian Institute of Science, Bangalore; and senior professor and head of Computer Centre, IIT Kanpur. He has been director of several companies including CMC Ltd, New Delhi; Canbank Computer Services Ltd, Bangalore; and Encore Software Ltd, Bangalore. He was awarded the Padma Bhushan by the President of India in 1998. He is also the recipient of the Zaheer Medal for Research in Engineering, Indian National Science Academy; Shanti Swarup Bhatnagar Prize (CSIR); Homi Bhabha award of UGC, and Lifetime Achievement award from Dataquest; the Indian National Academy of Engineering; the Computer Society of India; and Systems Society of India.

PROF V S RAJU

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

PROF SUHAS P SUKHATME

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

PROF NITISH V 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 Institutefor Neurotechnology (SINAPSE) at the Na-

tional University of Singapore. He earned his undergraduate degree from IIT Bombay in 1974 and PhD from the University of Wisconsin, Madison in 1981. Prof Thakor's expertise is in the areas of neural diagnostic instrumentation, neural microsystem, neural signal processing, optical imaging of the nervous system, neural control of prosthesis and brain machine interface. He is a co-author of more than 250 refereed journal papers and is currently the editor-in-chief of Medical and Biological Engineering and Computing. He was the editor-in-chief of IEEE Transactions on Neural Systems and Rehabilitation Engineering from 2005-2011. Prof Thakor is the recipient of the Research Career Development Award from the National Institutes of Health and the Presidential Young Investigator Award from the National Science Foundation. He is a Fellow of the American Institute of Medical and Biological Engineering, IEEE, the Founding Fellow of the Biomedical Engineering Society, and Fellow of International Federation of Medical and Biological Engineering. He is also a recipient of the Centennial Medal from the School of Engineering, University of Wisconsin (2008), Honorary Membership from Alpha Eta Mu Beta Biomedical Engineering student Honor Society. He received the award of Technical Excellence in Neuroengineering from IEEE Engineering in Medicine and Biology Society and the Distinguished Alumnus Award in 2012 from IIT Bombay and the Centennial Medal from the University of Wisconsin, Madison School of Engineering in 2012.

GUEST PROFESSORS

PROF ANILKUMAR AMURTUR

Prof Anilkumar Amurtur is an aerospace engineer on the faculty at Vanderbilt University. He has been a NASA investigator of microgravity fluid flow phenomena on Space Shuttle flights and on the International Space Station. His current interests are in the design and evaluation of novel energy conversion systems for airplane flight, through low-altitude rocketry, and in the design and evaluation of renewable energy technologies. Prof A V Anilkumar has established the Sastry Endowment at the Institutein memory of his parents Smt Amba and Shri Venkatasubba Sastry. Originally from the villages of Amrutur and Nanjangud in Karnataka, they had the opportunity to reside at various locations throughout India, while Shri Sastry worked as a field service engineer at Hindustan Aeronautics Limited's Air Force Detachments. As parents, they strongly emphasized the importance of education and responsibility to society. His research focus includes experimental fluid dynamics, rocket propulsion, drop and bubble dynamics, bio-encapsulation; energy conversion, wind, thermoelectrics, biodiesel; materials processing: float-zones, directional solidification

DR NIKHIL BALRAM

Dr Nikhil Balram is President and CEO of Ricoh Innovations Corporation, a Silicon Valley company that develops innovative technologies and creates new businesses for Ricoh Company Ltd. With over 20 years of experience, Dr Balram is widely regarded throughout industry and academia as an expert and innovator in video and display technologies across multiple platforms and has been an officer of several publicly listed companies. 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 an adjunct professor of electrical engineering at Carnegie Mellon University, visiting professor of vision science at the University of California, Berkeley, a guest professor of design and innovation at the Indian Institute of Technology Gandhinagar, and serves on the Industry Advisory Board (IAB) at the School of Engineering at Santa Clara University. He has over 60 US patents granted or pending, more than 30 technical publications, including two invited book chapters, and has given over 25 keynote speeches at major conferences

worldwide, including most recently the International Business Forum at the 2013 Ricoh Women's British Open at St Andrews, UK. He received his BS, MS and PhD in electrical engineering from Carnegie Mellon University.

DR ACHINTYA K BHOWMIK

Dr Achintya K Bhowmik is the founding general manager and chief technology officer of the perceptual computing group at Intel Corporation, where he leads the research & development, engineering, and marketing of advanced computing products and solutions based on natural sensing and interaction technologies, intuitive interfaces, immersive applications and user experiences, branded as "Intel®RealSense Technology". Previously, he served as the chief of staff of the personal computing group, Intel's largest business unit with over $30 billion revenues. Prior to that, he led the advanced video and display technology group, responsible for developing and enabling power-performance optimized multimedia processing and display technologies for Intel's computing products. His previous work includes development of all-digital liquid-crystal-on-silicon microdisplay technology, fast electro-optic modulation and integrated optoelectronic circuits for high-speed communication networks. As an adjunct and guest professor, he has advised graduate dissertation research and taught graduate-level courses on advanced sensing and human-computer interactions, computer vision, digital image processing, display technologies and electro-optics at the University of California, Berkeley, Kyung Hee University in Seoul, Korea, and University of California, Santa Cruz Extension, and the Liquid Crystal Institute of the Kent State University. He has over 150 publications, including two books titled Interactive Displays: Natural Human-Interface Technologies and Mobile Displays: Technology & Applications. He also has 27 granted patents. He is an associate editor for the Journal of the Society for Information Display and the editor for two special volumes on Advances in OLED Displays and Interactive Displays.

DR R S BISHT

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

PROF RAJENDRA BORDIA

Prof Rajendra Bordia is an internationally recognized scholar whose research is at the intersection of materials science and mechanics and is focused on fundamental and applied studies in the processing and properties of complex material systems for energy, environmental and high temperature applications. He is currently professor and chair of the Department of Materials Science and Engineering at Clemson University. He was earlier the chair of the Materials Science and Engineering Department at the University of Washington, Seattle. He received his undergraduate degree in mechanical engineering from the Indian Institute of Technology Kanpur (1979) and his M S (1981) and PhD (1986) degrees in materials science and engineering (minor in solid mechanics) from Cornell University, Ithaca, NY. In 2002, he was elected as a Fellow of the American Ceramic Society, Fellow of the Indian Institute of Metals in 2010 and an Academician in the World Academy of Ceramics in 2012. He received other prestigious awards including: Humboldt Senior Scientist Research Award from the Alexander von Humboldt Foundation, Germany (2007); National Young Investigator Award (NSF) (1992-1997);

DuPont Young Professor Award (E I duPont Co) (1993-1996); International Expert Award from Technical University Hamburg-Harburg, Germany (1996, 2001 and 2002). A dedicated teacher and mentor ,Prof Bordia was selected as the Teacher of the Year seven times by students in his department at the University of Washington (1994, 1995, 1996, 2000, 2006. 2009, 2011 and 2012); 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 Bordia is an associate editor of the Journal of the American Ceramic Society (1988- to date); Editor of the Journal of Ceramic Processing Research (1999-to date) and editor-in-chief of the Ceramics International Journal (2009 – to date). He was a member of the Board of Directors of the American Ceramic Society (2008-2010).

PROF BIJOY H BORUAH

Prof Bijoy H Boruah, currently associated with Indian Institute of Technology, Delhi completed his BA (Honours) in Philosophy, Dibrugarh University, India; MA, Banaras Hindu University; MLitt, University of Oxford, UK; and PhD from University of Guelph, Canada. Prof Boruah has also served as a Professor at IIT Kanpur, and Senior Fulbright Fellow at University of Texas at Austin, USA. He has been a member of Indian Council of Philosophical Research (ICPR); Research and Publication Committee, ICPR; member, Advisory Committee, Centre for Philosophy, School of Social Sciences, Jawaharlal Nehru University; visitor's nominee, Faculty of Humanities and Social Sciences, North Eastern Hill University; external member, Academic Council, Mata Vaisno Devi University; member, External Advisory Committee for Humanities and Social Sciences, Birla Institute of Technology and Science, Pilani; member, Institute Ethics Committee, Fortis Memorial Research Institute, Gurgaon.

PROF SVETLANA BRZEV

Prof Svetlana Brzev is Professor at British Columbia Institute of Technology, Vancouver, Canada. She completed here PhD in Earthquake Engineering from IIT Roorkee. Prof Brzev also served as director and vice president of Earthquake Engineering Research Institute, Oakland, California, USA from 2001-2003. She was the member of various research projects and programs which include review panel of National Science Foundation (NSF), NEES program; reviewer of NSF Partnerships for International Research and Education and reviewer of NSERC research proposals (various programs). She is the founding editor-in-chief for a major international project World Housing Encyclopedia (www.worldhousing.net). Prof Brzev has over twenty five years of experience in structural design and rehabilitation of buildings, commercial, institutional facilities and lifelines; participated in numerous design projects and studies of existing facilities in Canada, India, Russia, Chile, Peru, former Yugoslavia, Egypt, Algeria and Jordan. As a seismic engineering consultant to the World Bank and to the Government of Maharashtra, India, she prepared a management strategy and technical guidelines for repair and retrofitting/reconstruction of over 200,000 masonry residences damaged in the September 30, 1993 Latur earthquake in India. Prof Brzev also participated in reconnaissance studies after several earthquakes, including the 2010 Maule, Chile earthquake, the 2003 Boumerdes, Algeria earthquake, and the 1993 Maharashtra, India earthquake. She has published over eighty papers and reports, published in journals, presented at conferences and delivered several invited seminars.

PROF R P CHHABRA

Prof R P Chhabra completed his BE in Chemical Engineering from University of Roorkee, ME from IISc Bangalore and PhD from Monash University, Australia. He has been associated with Indian Institute of Technology, Kanpur; University of New South Wales, Sydney; University College of Swansea; Monash University, Clayton; and University of Sydney. He has also been a member of Indian Institute of Chemical Engi-

neers, Kolkata; Alumni Association, University of Roorkee (now IIT Roorkee); and Alumni Association, Indian Institute of Science, Bangalore. 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 for a Chemical Engineer below the age of 35 years.

MR MICHEL DANINO

Mr Michel Danino has been an independent student of the Indian civilization since he came to India in 1977. He has authored papers and books in French and English. His recent titles include The Lost River: On the Trail of the Sarasvati (Penguin India, 2010) and Indian Culture and India's Future (DK Printworld, 2011). He has lectured on the origins of Indian civilization from archaeological, ancient historical and cultural perspectives at many Institutes of higher education across the country. He was a visiting faculty at IIT Kanpur in 2011 and is currently a visiting faculty at IIM Ranchi. He is also a member of the course committee for the CBSE's elective course for classes 11 & 12 on Knowledge traditions and practices of India and has co-edited the course's two textbooks.

DR PRAVINRAY D GANDHI

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

PROF DIPAN K GHOSH

Prof Dipan K Ghosh is currently professor of physics at IIT Bombay. He is condensed matter theorist who worked primarily in low-dimensional magnetic systems. He is best known for his work on exact solution of a one-dimensional many-body problem which is widely known in the literature as the Majumdar-Ghosh model. He has authored a textbook on mechanics and thermodynamics and several web books. Prof Ghosh has served IIT Bombay in several capacities including its dean and deputy director. He was awarded IITB's Best Teacher award in 2000. In 2011 he was awarded the Lifetime Achievement Award of IITB for his contributions to institution building. He has been the president of the Indian Physics Association (2005-07) and is currently the chief editor of Physics News. He is a member of the Academic Council of Homi Bhabha National Institute(DAE), Centre for Basic Sciences of DAE at the University of Mumbai and IIS University, Jaipur. Prof Ghosh was the provost (vice-chancellor) of Navrachana University at Vadodara in 2012 and established the engineering program there. He is a member of the Board of Governors of SVNIT, Surat.

DR BIPIN INDURKHYA

Dr Bipin Indurkhya is professor of computer science and the head of the Cognitive Science Lab, IIIT Hyderabad. He received his PhD from University of Massachusetts, Amherst and master's degree from Philips International Institute of Technological Studies, Eindhoven, The Netherlands. He also contributed as visiting professor in the teaching and research program of many institutes which include Department of Computer Science and the Department of Cognitive Science, Jagiellonian University, Kraków (Poland); Computer Science and Philosophy Departments, Boğaziçi University, Istanbul (Turkey); University of Cagliari, Cagliari, Italy; Computer Science Department, Takushoku University, Tokyo, Japan; Department of Computer Science, State University of New York, Buffalo, New York; Department

of Electrical Engineering and Computer Science, Tufts University, Medford, Sept.; Computer Science Department, Boston University, Boston and Institute of Computer Science and Society, Albert Ludwig University, Freiburg, Germany. His multidimensional research activities have been funded from different international and national funding organisations like National Science Foundation (NSF), the Netherlands Organisation for Scientific Research (NWO), Japan Society for the Promotion of Science (JSPS), Ministry of Communication and Information Technology (MCIT), India, Department of Science and Technology (DST), Intel Corporation, Rediff.com, Samsung Global Research Outreach Program and Xerox Open Innovation Project. He has recently initiated new activities in the field of remote sensing applications in archaeology and has received many grants.

SHRI SUBODH KUMAR JAIN

Shri Subodh Kumar Jain completed his BE degree in civil engineering from University of Roorkee (now IIT Roorkee) in 1974. He served in the Ministry of Railways and superannuated from the position of Member Engineering, Railway Board, Ministry of Railways, ex-officio secretary to the Government of India. He is currently working as honorary expert in civil engineering of the Hyderabad Metro Rail. Shri Subodh Jain has been closely associated in various capacities with all the metro rail networks in the country. He was also the head of the entire engineering activities of Indian Railways involving projects worth Rs12000 crores. His immense contribution in the Indian railways has been acknowledged by a number of awards. He was awarded the Best Innovation of the Year Award 2006 - 2007 by the Railway Board for the special high-speed Diamond Xing and has been felicitated by the Speaker of the Legislative Assembly of Madhya Pradesh and was presented with a silver plaque for bringing about significant improvement of the state's railway services. He received the Lifetime Achievement Award of the Electron Microscope Society of India in July 2012, the Nalco Gold Medal of the Indian Institute of Metals in 2006 (the year of inception) for outstanding contributions to the aluminium industry, the Hindustan Zinc Gold Medal of the Indian Institute of Metals in 1994 for significant contributions to nonferrous metallurgical industry, the Certificate of Appreciation from AIME in 1987. He also won an award in the metallographic contest organized by the American Society of Metals in 1965. Shri Subodh Jain has also published nearly 100 publications in international and national journals and in conferences proceedings.

DR RAJ JASWA

Dr Raj Jaswa is an accomplished serial technology entrepreneur. His most recent role was that of CEO and chairman of Dyyno from 2009 to 2012. Dyyno's user-friendly communication platform seamlessly transports audio, video, text, graphics and voice for live, interactive instant sharing with audiences of unlimited size across multiple devices. From 2003-2008, he volunteered full-time for TiE Silicon Valley, serving as president from 2005 to 2008 and as a director from 2003 to 2004. Dr Jaswa was the co-founder, chairman and CEO of Selectica from 1996 to 2002. During Raj's tenure, Selectica became the leading configuration software vendor with customers like General Electric, BMW, Cisco, Samsung, and Dell. Selectica went public in 2000 with a peak market value of $5 billion, and was named in the Forbes 500, Deloitte & Touche Technology Fast 500, Software 500, Inc 500, and Interactive Week 500. Dr Jaswa had previously co-founded Opti in 1988, where he served first as EVP of Sales and Marketing and then as president until 1996. Opti went public in 1993 with a peak market value of $350 million. Earlier in his career, Dr Jaswa worked for Intel, General Electric, and Chips & Technologies. He received a bachelor's degree in electrical engineering from the Indian Institute of Technology in Bombay, a master's degree in electrical engineering from the University of Toronto and an MBA from Stetson University.

PROF DINESH KANT KUMAR

Prof Dinesh Kant Kumar is a professor in RMIT University, Melbourne, Australia and the programme director for Biomedical Engineering. He

earned his PhD in Bioelectronics from IIT Delhi and BE in electrical engineering from IIT Madras. Prof Kant has received many awards including the European Union'sErasmus 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 was also the recipient of 2 research supervisor awards and has supervised to completion 20 research students including 17 PhD and 3 master's degree students. He holds five patents and has published 321 peer reviewed papers with total number of citations of over 4000 and h-index of 24. Prof Kant is the associate editor of the IEEE Transactions of Neural Systems and Rehabilitation Engineering (TNSRE). He is the editor of the Journal of Medical and Biological Engineering (JMBE). Prof Kant is also the founder of the international conference IEEE Biosignals and Biorobotics for the past 5 years. He has received various major grants including the ARC Network Grant (2006- 2012), the ARC contribution value $ 2,300,000 for 5 years and $ 300,000 grant as the leader of the education and international exchange program.

DR K CHELVA KUMAR

Dr K Chelva Kumar completed his BS degree in mechanical engineering from Peradeniya University, Sri Lanka, and followed it up with an MS and PhD from California Institute of Technology and MBA from University of California, Irvine. He is the president of EPIR Technologies, Inc, Bolingbrook, IL. Dr Chelvakumar has also served on various senior administrative positions in various organisatoins that include Saint Louise Regional Hospital, Gilroy, CA, Caritas Business Services, Redwood City, CA, St Francis Medical Centre, Lynwood, CA, ReproNet, Los Angeles, CA. He has accomplished excellent results during his assignments in different organisations. Before that, he was the faculty in California State University, Los Angeles & Fullerton campuses, CA, Carnegie Mellon University and Peradeniya University, Sri Lanka. He also achieved distinctions and awards in the area of his interest, mainly in music and sports. He has given many performances as concert player of south Indian drums and accompanied the renowned maestro M L Vasanthakumari. He was also the national weightlifting champion in 1979 and 1980.

PROF A K MITTAL

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

PROF S L NARAYANAMURTHY

Prof S L Narayanamurthy obtained his PhD degree in chemical engineering from the University of Bradford in 1971 as a Commonwealth Scholar. He served IIT Bombay for nearly four decades as a faculty member, head of department and dean. His research interests are in the areas of separation processes and food process engineering. Prof Narayanamurthy 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 Narayanamurthy served IIT Gandhinagar for nearly four years as a visiting professor and guided the academic programmes of the fledgling Institute for two years. His current professional interests are in the areas of engineering education, food process engineering and mentoring.

DR SANDEEP PANDEY

Dr Sandeep Pandey earned his PhD degree in mechanical engineering from University of California, Berkeley in 1992 and is currently a social activist based in Lucknow. He is deeply committed to his work that includes the right to education, work, food, information, human rights, empowerment of marginalised communities, grassroots democracy, anti-corruption movements, land reforms, communal harmony, nuclear disarmament and peace, peace and friendship between India and Pakistan, corporate accountability and people's politics. He is currently part of the Socialist Party. Dr Pandey's work is mainly in the rural areas. He concentrates on issues affecting the daily lives of people. His organisation helps people access benefits through various governmental social welfare schemes by fighting corruption. He is also part of movements where people are struggling to establish their rights over natural resources that are under threat because the government allows them to be usurped by corporates. He is deeply involved in building a genuine grassroots political alternative to the mainstream politics dominated by corruption.

PROF DURGESH C RAI

Prof Durgesh C Rai is a professor in the Department of Civil Engineering at the Indian Institute of Technology Kanpur. Prior to joining IIT Kanpur, he was a research fellow at the University of Michigan (1996-1997) and on the faculty of the Department of Earthquake Engineering at IIT Roorkee (1997-2001). His research interests are in design and behaviour of structures under earthquake loads, experimental investigations, supplemental damping, seismic rehabilitation, masonry structures and seismic design codes. He has published over 130 peer-reviewed papers in journals and conferences in the area of structural and earthquake engineering. 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. Prof Rai received his BE (Honors) degree from the National Institute of Technology, Tiruchirapalli (1989), an MS from the University of Oklahoma, Norman (1992) and a Ph.D. from the University of Michigan, Ann Arbor (1996). He is coordinator of National Information Centre of Earthquake Engineering (NICEE) at IIT Kanpur and serves on the Board of World Seismic Safety Initiative (WSSI) of International Association of Earthquake Engineering (IAEE).

PROF B RAJANI

Prof B Rajani research interests are in the area of Landscape Archaeology. She uses space/air- based remote sensing images to study features on the earth's surface and subsurface to extract information that improves the understanding of the archaeology of an area. She complements remote sensing study with ground truth and GPS survey, and integrates spatial information from multiple sources using Geographic Information System (GIS) technologies. She did her doctoral research in the field of space-based archaeological investigations at the National Institute of Advanced Studies (NIAS), Bangalore and was awarded a PhD by the University of Mysore in 2011. She received the Rachapudi Kamakshi Memorial Young Geospatial Scientist Award for this work. She conducted post-doctoral research for a year at NIAS, and subsequetly held the position of assistant professor in the MTech GIS programme at NIIT University (NU), Neemrana from 2011 to 2013. Her recent work includes a study of the archaeological remains in the environs of Nalanda as a Fellow of Nalanda University (2013-2014). She is currently the recipient of the Homi Bhabha Fellowship for writing a manual on remote sensing and GIS applications to archaeology. She is a guest faculty in Archaeological Sciences Centre, IIT Gandhinagar, and visiting faculty, NU, Neemrana.

PROF T R RAMACHANDRAN

Prof T R Ramachandran received his BE in metallurgy from the Indian Institute of Science Bangalore in 1960, an MSc degree from the McMaster

University Canada in 1965 and a PhD from the University of Wales UK in 1969. He had been on the faculty of the Indian Institute of Technology Kanpur for two decades, 1969-89. He was the head of the Department of Metallurgical Engineering at IIT Kanpur during 1986-88 and the head of the Materials Science Programme in 1987-89. Almost all the research projects that he had supervised during his stint at IIT Kanpur were related to structure-property relationship in aluminium alloys. He was the founder director of the Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC) Nagpur during the period 1989-99. He was also the National Project Director of the UNDP project on the establishment of the Jawaharlal Nehru Aluminium Research Development and Design Centre (1989-96). He was an Emeritus Scientist at the Nonferrous Materials Technology Development Centre Hyderabad from 1999 where his main interests were in the development of grain refiners and specialized master alloys for the aluminium industry. He has been closely associated with the Indian aluminium industry, serving as part-time director of the National Aluminium Company (1991-93), the Bharat Aluminium Company (1994-97), Paradeep Carbons (2002-2006) and presently Alufluoride. He has served on several committees set up by the government to assess the performance of some major aluminium producers in the country. As the founder director of JNARDDC he was involved in organising a number of research projects and workshops on topics covering bauxite, alumina and aluminium production, molten metal processing and downstream activities. He has lectured extensively in these areas both in India and abroad. He has been a consultant to several industries in the areas of molten metal processing and alloy development. He has organized a number of courses on electron microscopy in IIT Kanpur; in the last year and a half, he has conducted electron microscopy courses in NML Jamshedpur, NIFFT Ranchi, IGCAR Kalpakkam, IIT Roorkee, IIT Kharagpur, NIT Surathkal, NIT Trichy and IIT Bombay. For his outstanding contributions in the field of nonferrous metals, he was awarded the Hindustan Zinc Gold Medal in 1994 and the NALCO Gold Medal in 2006, the year of its inception, by the Indian Institute of Metals. His research interests are in the areas of energy conservation and environmental control in aluminium industry, physical metallurgy of aluminium alloys and applications of electron optical techniques to metallic materials.

PROF A RAMANATHAN

Prof A Ramanathan holds a PhD degree in economics from Mumbai University. He is a senior professor and a former head of the Department of Humanities and Social Sciences of IIT Bombay. He is a well known quantitative economist with rich expertise particularly in the teaching of research methods in social sciences. Further, in tune with the academic and research temper of IIT Bombay, Prof Ramanathan has gained good knowledge of many multi-disciplinary topics of current relevance in the country. He specializes in managerial economics, applied econometrics and social cost-benefit analysis. Prof Ramanathan has published a number of articles in Indian and international journals. He has guided 24 PhD students, including very senior officials from industries, government and banks. He has also guided 20 MPhil dissertations.

PROF MYTHILY RAMASWAMY

Prof Mythily Ramaswamy is a professor and currently the dean at the Tata Institute of Fundamental Research Centre for Applicable Mathematics, Bangalore. She is one of the leading figures in the country in the field of partial differential equations and specifically in analysis and applications to control problems. She received her BSc and MSc degrees from the University of Bombay and PhD from University of Paris 6, France.

PROF DHEERAJ SANGHI

Prof Dheeraj Sanghi, dean of academic affairs is professor of computer science and engineering at IIT Kanpur. His research interests are in the area of computer networks with special focus on pro-

tocols at different layers, IPv6, mobility and security. He served as the director of LNM Institute of Information Technology, Jaipur for two years. He is passionate about technical education in India and writes regularly about it in magazines and blogs. He received his BTech from IIT Kanpur, and MS and PhD from the University of Maryland, College Park.

DR SHILADITYA SENGUPTA

Dr Shiladitya Sengupta is currently the Assistant Professor of Medicine and Health Sciences and Technology at Harvard Medical School Brigham & Women's Hospital. He completed his BS and MS from the All India Institute of Medical Sciences (AIIMS) and PhD from University of Cambridge (Trinity College). He is a Member of the American Society for Pharmacology and experimental therapeutics and American Association for Cancer Research. Dr Sengupta is the recipient of DoD Breast Cancer Research Program Collaborative Innovators Award, the Mary Kay Ash Foundation Career Award, the DoD era of Hope scholar Award, the Indus Technovator award and the Coulter Foundation Young Investigator Award in Bioengineering.

PROF KOSHY THARAKAN

Prof Koshy Tharakan is Professor in Department of Philosophy, Goa University. He received his PhD degree from University of Hyderabad in the area of philosophy of social science. His area of interest is philosophy of social sciences and phenomenology, where he has made significant contribution. He has also contributed in the area of environmental ethics and mentored PhD students in this area.

INFRASTRUCTURE AND FACILITIES

PERMANENT CAMPUS DEVELOPMENT
SELECTION OF ARCHITECTS
COMPUTER CENTRE
RESEARCH FACILITIES
LABORATORY FACILITIES
LIBRARY
MEDICAL CENTRE
PHYSIOTHERAPY CENTRE
DAY CARE CENTRE

At IITGN the process of improving and expanding the infrastructure and other facilities related to research and teaching is a continuous one. The construction of the Institute's permanent campus is in the final stage. The temporary campus has also grown during this time to meet the rising needs of the faculty and students.

PERMANENT CAMPUS DEVELOPMENT

The development of Phase-1A of constructions of the permanent campus have reached advanced stages, and despite challenges. The Institute has been able to follow the original schedule without any significant delays. IITGN plans to start moving to its permanent campus in July 2015 in line with its earlier plans, and hopes to welcome the new batch of students on the 400-acre campus on the banks of the Sabarmati river. The campus has an ambience that is conducive to academic endeavours and is located in a neighbourhood that is well connected and rapidly developing. The high-profile GIFT City near the permanent campus site is ramping up its operations, the road and services network near the campus site have been significantly upgraded, other national institutes are coming up near the campus, and several defence establishments and a large forest reserve area are situated in the immediate vicinity of the campus.

The student hostels with capacity of 1200 along with housing and academic buildings took its final shape. In addition to these major works, IITGN has taken up development of several additional amenities. Some basic sports facilities including a cricket ground, a practice pitch, a football ground, some volleyball pitches and a basketball court are being developed. The undeveloped pockets of land (ear-marked for future constructions) were greened with extensive plantations in the form of a mix of flowering plants, some vegetable shrubs and some utility plants. Installation of rooftop solar PV panels and a central biogas plant for generating energy by processing organic waste generated on campus is underway. In parallel, IITGN has also started to develop a few ravines on campus with the intention of their stabilisation and promoting biodiversity.

SELECTION OF ARCHITECTS

IITGN conducted a national-level design competition to select the architect to design the next phase of hostels, guest house and director's residence. Initially, IITGN received concept designs from 43 architectural firms. An evaluation committee reviewed proposals from interested architectural consultants and short-listed eight firms who then made final presentations. **M/s Neeraj Manchanda Architects** were selected by an independent jury that judged the presentations.

COMPUTER CENTRE

INFORMATION SYSTEM AND TECHNOLOGY FACILITY

The Information Systems & Technology Facility (ISTF) at IITGN has come a long way to provide and enable wide-ranging services to the IITGN community. ISTF's state-of-the-art networking infrastructure enables provisioning of information systems and computational facilities to all users regardless of whether they stay on the campus or outside it. The IITGN community consists of around 1200 users including faculty, students and staff. The goal of the ISTF is to provide better infrastructure and services for the Institute's various IT needs. The following are the key highlights of activities and projects undertaken by ISTF during the last year.

INFORMATION SYSTEMS

IITGN conceptualized an Institute Management System (IMS) that would interconnect various departments online and provide a single window service to students, faculty and staff. This will serve to automate IITGN's operations and help the Institute move closer towards being a paperless office. The project kicked-off in Jul 2014 and development is underway. The system is geared to go live in Jul 2015. The Payroll module developd using the package Tally emerged as an early go-live module when it was launched in Dec 2014, thereby completely automating the generation of payslips in the Accounts Section.

Some of the key highlights of the system for each department and various user communities at IITGN are as follows:

1. **Academics**: This module covers the entire gamut of activities of a student's academic life-cycle management. A dedicated online student portal is designed to provide not only a one-stop access to various student-centric services from other sections, but also online access to academic details. Students will be able to submit medical claims, branch change requests, travel requests, scholarship applications, applications for financial aid, request for counselling services, register for EWYL programmes, submit fees and other suchrequests through the online student portal. The academic office will be able to carry out activities such as student admissions, registrations, results management and course management through the IMS portal. The time-table coordinator will be able to create and manage the academic time-table through a user friendly drag-drop interface available in IMS. Some of the other useful functionalities that will be made available through IMS include on-campus smart card for cashless transactions, biometrics for mess, integration with library management system and learning management system.
2. **General Administration**: This module will cater to administrative processes including processes for joining and relieving of employees, submission and processing of leave requests, submission and processing of claims for LTC, soft loans, travel requests, medical claims, process for managing employee performance appraisal etc. In addition employee service records will also be maintained by the IMS. The module will enable the management of faculty and staff recruitments. Applications will be received online and the entire processing of applications will be done through IMS. The training management module will facilitate the processing of various training requests, planning and executing training and recording of training feedback. A separate module named legal cell will enable the management of RTI requests.
3. **Materials Management**: This module facilitates all activities related to purchase of equipment funded by the both Institute and externally sponsored projects. Users can submit online requests as part of the purchase proposal request process. The request will then be received at the purchase section through IMS and processed. The entire tender management and e-procurement will be done through a third-party platform called Tender Wizard. Users can raise requests for stationary, both in-stock and fresh procurement. A separate module for mail room will allow for a centralized management of inward and outward mails.
4. **System Administration**: This module will

take care of horizontal activities across the Institute. For example, processing of online meal requests for various events and activities, guest house booking, conference room booking, classrooms management, IT service helpdesk etc. The users will be notified either by email or through SMS. SMS gateway integration is part of this module.

5. **Finance & Accounts**: This module cuts across various modules and links processes that have a monetary component. This module will provide a platform for the accounts team for efficient dealings of various service requests and accounts management. The payroll sub-module which is part of F&A module is currently being used to process salaries of IITGN employees.
6. **External Connect**: The module on external connect includes all activities related to the R&D Office. For example, creation, approval and management of various project proposals, online advertisement and recruitment of project staff, support for the office of Career Development Services (CDS), management of alumni relations and outreach, management of donations received by IITGN , management of MoUs etc.
7. **Content management system (CMS)**: CMS will be used to manage the content for newsletters, IITGN website and other content that IITGN generates from time to time.

COMPUTING AND NETWORK INFRASTRUCTURE

The campus is well connected over 1Gbps high speed optical fiber network with 1Gbps internet link from National Knowledge Network (NKN). The campus and student hostel areas are WiFi enabled. The ISTF team has successfully setup the necessary infrastructure, the wireless point-to-point network, to provide network connectivity from the current temporary campus in Chandkheda to its upcoming permanent campus in Palaj. The construction of the permanent campus is monitored 24x7 through video cameras and can be viewed in real-time at any location.

ISTF maintains an extensive software repository for needs of various disciplines. Some of the most popular software are ANSYS, Star CCM+, Autodesk Inventor, AspenTech, Mathematica, PSCAD 4.2, STATA 11.1, AutoCAD, Lab-View, Cadence, TCad, Matlab, Xilinx, ISE, Origin, ETab, Arc-GIS.

The Institute also houses VEGA, a High Performance Computing Cluster (HPCC) that enables the users to perform parallel computing and GPU computing relevant to their research interests. In addition to HPCC, the Institute has a separate setup, powered by two high-end nodes with NVIDIA K20Xm Tesla cards, as part of the NVIDIA Cuda Teaching Centre; these nodes are connected to country-wide GARUDA network provided by C-DAC.

NEW INITIATIVES

The ISTF team 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:

Centralized login to all the public machines using OpenLDAP (Open Lightweight Directory Access Protocol). The system enables the users to use their respective login credentials for access to these machines and other online services provided by IITGN.

Pilot project on cloud computing that is based on the open source software Open Nebula. Using this platform, the users can create their own virtual machines by way of Virtual Desktop Infrastructure (VDI). The platform also supports both cold and hot migration of virtual machines.
Pilot project on file hosting service portal based on open source software Owncloud. It is envisioned that the centralized storage to all the users shall be provided using this platform. The platform uses OpenLDAP and SSL and its integration with Dropbox has already been demonstrated.

Connecting IITGN to EDUROAM wireless network. Using this service, which is available across the world, the users can obtain internet connectivity via WiFi across the campus and also when visiting other participating institutions using their laptops, smartphones and other portable devices.

OUTREACH ACTIVITIES

The ISTF has been an active contributor and participant in many of the Institute's initiatives and events. The team provides round-the-clock support for various events and activities. Some of the recent contributions towards outreach by ISTF are:

1. Conducted a two day workshop entitled "ICT Infrastructure: Towards a Digital Network" which included lectures followed by hands-on sessions based on the lectures. The participants for this workshop were from engineering colleges in Gujarat. The objective of the workshop was to give a crash course to colleges in configuring and troubleshooting the network related problems in their Institutes.
2. IITGN participated in Vibrant Gujarat Summit 2015 where the ISTF showcased its pilot Cloud Computing environment. The ISTF members interacted with visitors and exchanged information about recent technologies and shared information about opportunities available at IITGN.

RESEARCH FACILITIES

MOLECULAR AND CELLULAR BIOLOGY FACILITY (MCBF)

The Molecular and Cellular Biology Facility is well-equipped with many instruments required to carry out standard molecular biology and biochemistry experiments. The existing facilities are being supplemented with additional equipment like ultrasonicator and nanospectrophotometer. In 2014, the MCBF also added a cell culture facility in compliance with Biosafety Level 2 with instruments like biosafety cabinet, CO_2 incubator, automated cell counter, inverted fluorescence microscope, liquid N_2 cryopreserver, temperature-controlled water bath and refrigerator-freezer.

COMPUTATIONAL NANOELECTRONICS LABORATORY (CONREL)

The Computation Nanoelectronics Laboratory (CONREL) is equipped with tools, boards and equipment related to VLSI Design and semiconductor devices. The laboratory has all the tools ranging from device level simulations to tape out, such as TCAD, Cadence tools suite with 10 licenses, Mentor Graphics tools such as Questa, ADMS, Eldo, etc. and Calibre. It also includes Coventorware for MEMS simulation and Xilinx ISE and Vivado for FPGA synthesis. The CONREL is equipped with high-end FPGAs such as KC 705. The CONREL research group has signed an MoU with IMEC Belgium for chip tape-out. The first test chip for the study of synchronizers was fabricated through the Europractice program at IMEC, Belgium with financial support received from the Department of Science and Technology (DST). The laboratory also has the semiconductor device characterization laboratory equipped with probe station and other facilities. The ongoing projects include synchronizer studies, low-power neuromorphic architectures, network-on-chip architectures, radiation-hard by design, IP integration issues, computational nanoelectronics, computational lithography, compact modeling and high-voltage devices.

FRICTION STIR WELDING (FSW)

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

HEARING PROTECTOR TEST MODULE

The Hearing Protector Test System consists of a GRAS 45CA hearing protector test fixture, a

microphone setup comprising of externally polarized pressure microphones (GRAS 45AG), pre-amplifiers and power modules; and a GRAS 42AP intelligent piston phone for calibration. In addition to measuring the performance of hearing protector devices, the setup can be used to measure the level of noise cancellation provided by active noise control headphones. The module may also be used to check the characteristics of hearing aids if an artificial pinna is connected to the existing setup.

HIGH PERFORMANCE COMPUTING LAB

HPCLab@IITGN started life in 2011/2012 with the establishment of NODE-X, a hybrid multi-core and GPU based high-performance computing (HPC) platform for advancing research and teaching in computational science and engineering and for the promotion of the use of GPU accelerators and CUDA programming for HPC.

The lab is having seven networked workstations set up with partial support from IIT Gandhinagar, Fujitsu and Nvidia. The initial main compute engines for this system are the two Celsius R-670 workstations consisting of Intel CPU cores and Nvidia Tesla GPU cards. The system runs on the Ubuntu Linux Operating System and the job scheduling is managed by an open source software Torque.

The remaining five high-end workstations form a computational design cluster to facilitate high fidelity computational modeling and visualization of engineered systems. In 2013, the cluster has been expanded to include another R-670 workstation. These are widely used in the graduate level and a computer science minor course on Algorithms on Advanced Computer Architectures. In Feb 2013, IIT Gandhinagar was granted recognition as a Nvidia-CUDA Teaching Centre and since 2015 as the Nvidia GPU Education Centre.

Several popular CAE softwares as well as open source softwares have been implemented on the system. NODE-X is connected to GARUDA- the Indian Grid and a MOU between CDAC Bangalore and IITGN. CDAC Pune has allotted a few accounts facilitating large scale scientific computing on the National Param Supercomputing Facility (NPSF) –ParamYuva at CDAC Pune. In conjunction with this, CD-Adapco has provided IITGN with unlimited licenses for Star-CCM+multi-physics and CFD software licenses for enabling large scale scientific computations on NPSF. IITGN has also been appointed by CDAC as the Indian Grid Certification Authority for Ahmedabad.

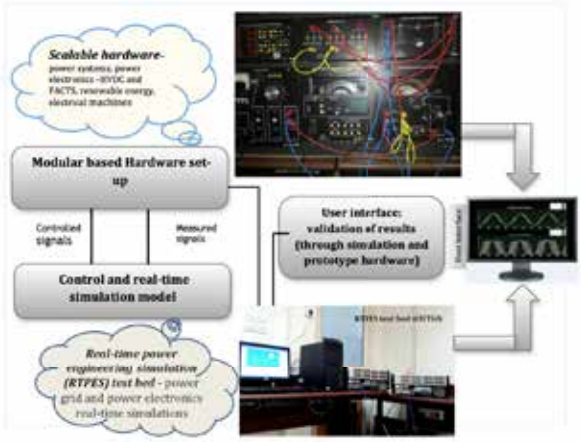
In 2015, a new HPC System named VEGA, has been set up to meet the increasing demands of HPC on campus with research funding from Department of Electronics and Information Technology (DEITY), Department of Science and Technology (DST) and IIT Gandhinagar (IITGN). VEGA is a high performance computing cluster (HPCC) of Fujitsu make with 8.8 TFlops (Peak) and 7.4 Tflops (sustained), has a nomenclature of master and compute nodes with Intel processors and two GPU nodes each with Intel as well as NVIDIA K20Xm Tesla cards. The storage of the HPCC is equipped with Dual-Controller based SAN and has a usable capacity of 25TB that connects to the master node through I/O nodes. The inter-node communication takes place through the Infiniband backbone and Gigabyte Ethernet Switch. Currently VEGA has 192 Intel cores and 5376 GPU cores in each GPU node.

Many software packages ranging from compilers to parallel computing softwares such as MPI, OpenMP, and parallel scientific libraries such as PETSc, MAGMA and PLASMA, both commercial and open-source softwares for Computational Fluid Dynamics (CFD) and Finite Element Methods (FEM) have been installed and are being used for teaching and research in high fidelity computational engineering analysis and design of multi-disciplinary engineered systems. Plans are underway to continually upgrade the HPC System to support all the HPC needs of IIT Gandhinagar.

FUEL CELL RESEARCH LABORATORY

The Fuel Cell Research Laboratory has been com-

missioned and is fully operational. The laboratory has been equipped with industrial ventilation system that can achieve 25 ACH (air changes per hour) during normal operation and 50 ACH in case of leakage of harmful gases as detected by gas detectors. The laboratory has sensors for specific gases that have been deployed at various locations. These sensors are connected to a central monitoring and control system that is based on a real-time controller. The real-time controller is equipped to receive, interpret and take appropriate action on the inputs received from each of the individual sensors. The control actions involve shutting off the supply of certain gases from outside of the laboratory, audio visual alarm and increasing the ventilation rate in the laboratory. The placement of the sensors has been guided by computational fluid dynamics (CFD) calculations that have been performed on a model of the laboratory. The CFD simulations have also helped in sizing and designing the ventilation system.



RENEWABLE ENERGY LABORATORY

This laboratory (both hardware and firmware) allows the user to emulate the structure and behavior of an electrical power system and renewable energy resources with most of the different types of components and technologies involved. This intergraded hardware and software platform provides students and researchers the unique ability to conduct experiments on power systems, power converters, renewable energy generation and electrical machines. It also involves system study, design and testing under normal/fault conditions and observes the effect of controller actions in various domains of power engineering such as power generation, transmission, distribution and utilization of electrical energy. The customized hardware and firmware setup has been procured from Lab-Volt, USA. The laboratory hardware composed of customizable and scalable 3-phase AC power supplies, 3-phase synchronous motor/generator and induction machines, transmission lines network and transformers, power electronics and HVDC hardware, energy storage devices, and embedded data acquisition and control would reproduce a fully functional electric power grid with major components and technologies involved.

WASTE WATER TREATMENT LABORATORY

The Waste Water Treatment Laboratory has all the modern facilities required for water and waste water analysis with its own aerobic reactor for biological nutrient removal process. The lab has various state-of-the-art facilities. The nitrous and nitric oxide sensors are used to quantify dissolved nitrous and nitric oxide formed during aerobic treatment of waste water. This is the first such facility in India that could to measure dissolved nitrous and nitric oxide online in waste water. The automated online dissolved oxygen (DO) gives continuous measurement of DO of the water being treated in the aerobic reactor. The commercial software SIMBA will be used to model large scale treatment plants. This software is being used by IITGN research team to model and analyze waste water treatment systems at Amul Dairy. The chemical oxygen demand (COD) of waste water samples is measured by the closed reflux method. It can analyse 12 samples in a single 2-hour run. The Total Kjeldal Nitrogen (TKN) measurement instrument is a leading edge instrument. It has inbuilt automated scrubber and distillation system attached to a heating digester to prevent any leakage of harmful gases to atmosphere. Aerobic bioreactor is an open channel contemporary reactor, which can treat 80 litres of waste water in a continuous mode. It has two inbuilt tanks of 120 litres capacity each to store the raw and treated water separately. The pH, DO, conductivity and TDS electrodes provide accurate values of the related parameters in waste water samples.

THE ARCHAEOLOGICAL SCIENCES CENTRE (ASC)

The Archaeological Sciences Centre (ASC) is engaged in carrying out multi-disciplinary investigations of the site of Dholavira and other Harappan sites. Some of the projects initiated are as follows; (1) chemical characterization of copper samples from Dholavira (2) palaeoclimatic investigations of northern Rajasthan based on the palaeobotanical evidences like phytolith, diatom and pollen from the site of Karanpura, Rajasthan (3) archaeobotanical investigations of the site of Rupnagar, Punjab through the analysis of charred grains (4) ceramic analysis of Dholavira excavations (5) bead drilling technology of the Harappans through the samples from Karanpura, Dholavira, Daimabad and Sanauli. The ASC is utilizing the various facilities available at IIT Gandhinagar for the above analysis. These facilities includes scanning electron microscope with EDS, x-ray diffraction and microscopes available with the discipline of biological engineering.

INDIAN REGIONAL NAVIGATION SATELLITES SYSTEM (IRNSS) RECEIVER

IITGN has received an IRNSS receiver from ISRO-SAC to examine its navigation error characteristics, which has been installed on the roof of a building. The latitude, longitude, altitude and other measurements of the receiver are being gathered and analyzed at regular intervals. The research team provides a monthly report on the statistics of the errors in the position, velocity and other measurements of the receiver to ISRO-SAC. IITGN is also using this data to improve the accuracy of the digital elevation mapping (DEM on which the research team is currently working. The DEM of the Himalayan mountains is being carried out using low-Earth-orbit satellites with a synthetic aperture radar and IRNSS receiver, the latter for inertial navigation. A detailed knowledge of the error characteristics of the IRNSS receiver will help to improve the DEM accuracy upto decimeter scale.

VIRTUAL REALITY MOTION CAPTURE SYSTEM

This custom-made 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.

SYSIDEA LAB

A few motion control experiments were conducted in the SysIDEA lab. The research team is currently developing two other experimental setups. One is an image-based constitutive-law estimation setup while the other is a new multiple-degree of freedom under-actuated motion control setup that will help to analyze trackability concepts and path-planning controllers.

COLLOIDS ENGINEERING LABORATORY

A state-of-the-art laboratory facility has been developed for the preparation and characterization of nanoparticles/microparticles to be used in pharmaceuticals and biomedical applications. The laboratory has a set-up for nanoparticle production using a probe sonicator (Sonics VC 505), a particle size analyzer (Beckman Coulter LS 13320) for the measurement of particle sizes in the range of 40nm-2mm and particle sizing systems (PSSS) zeta analyzer (NICOMP380 ZLS) for estimation of zeta potential of aqueous suspensions of nanoparticles. A Martin Christ freeze dryer (Alpha 1-4 LD plus) is available for preparation of dry powder samples. A facility to produce aqueous suspensions of drug nanoparticles using subcritical CO_2 (at 30-70 bar) is also available which includes a 5-liter high-pressure vessel (operating conditions: 200 bar, and 100° C). A facility to produce and characterize aqueous suspensions of microbubbles is also available. These microbubble suspensions are emerging as a major tool in ultrasonic contrast imaging and drug delivery applications.

LABORATORY FACILITIES

CHEMICAL ENGINEERING

The laboratory facility in the Chemical Engineering discipline has an extensive range of modern experimental setups. Fluid mechanics experimental set-ups include Reynolds experiment apparatus, Bernoulli's apparatus, friction factor through different pipes, equivalent length of pipe fittings, orifice and venturi-meter, 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 set-ups pertaining to heat transfer operations include heat exchangers of various types such as shell and tube/double pipe/coiled plate/fluidized/finned tube, and other experiments such as heat transfer in agitated vessel, heat transfer in laminar/turbulent flows, and absorptivity of different materials. Chemical reaction engineering setups cover Batch/PFR/CSTR reactors. Process control and dynamics setups include simple pendulum, bulb thermometer, interacting and non-interacting tanks, on-off controllers, and PID control. The facility also includes special characterization facility such as UV spectrophotometer, HPLC, GC, and particle size analyzer, and a computer facility for process simulation laboratory. Simulation tools such as ANSYS, STAR-CCM, AspenTech suite, MATLAB and COMSOL are also available.

CHEMISTRY

The Chemistry discipline enjoys access to several research facilities. These include a 500MHz Ascend FT NMR (Bruker), a Synapt G2S ESI-QToF mass spectrometer (Waters) and cyclic voltameter (CH Instruments), a powder XRD (Bruker), a Lifespec-II TCSPC (Edinburgh), a multimode 8 atomic force microscope (Bruker), a scanning electron microscope (JEOL) a circular dichroism (CD) spectrometer (JASCO), 3 Flex-BET surface area analyzer (Micromeritics, USA), TGA-DSc and Gas Chromatography. Other research equipment such as digital polarimeter (Anton-Paar), an FT-IR spectrophotometer (Thermo Scientific), digital melting point apparatus (MR-VIS), a photochemical apparatus (Luzchem), UV-Vis instruments (Shimadzu and Analytik Jena), a spectrofluorimeter (Horiba-JobinYvon), high pressure liquid chromtography system (Agilent) are also used for teaching and research. The wetlab is well equipped with fume hoods, rotary evaporators (Buchi, IKA), analytical balances (Shimadzu, Mettler) and regular facilities such as Schlenk lines, heating mantles, ovens, freezers, hot plates and stirrers.

CIVIL ENGINEERING

Civil Engineering curriculum includes an extensive material testing program for the undergraduate students. The testing program in the Structural Engineering Laboratory: includes compressive strength test of concrete; compaction test of concrete; slump test of concrete for workability; consistency test of concrete (Ve Be consistency); soundness test of concrete; bulk density estimation of concrete; specific gravity test; setting time test for cement; grading of aggregates; compressive strength of mortar; compressive strength of bricks; prism test for masonry; water absorp-

tion test for bricks; and initial rate of absorption of brick. Other facilities for the PG students to demonstrate some fundamental components of structural dynamics includes instrument like electro-dynamic shaker, sledge impulse hammer, sensors and data acquisition systems, waveform generator and dynamic signal analyser. The sensors include a variety of accelerometers, velocity seismometers and displacement transducers depending upon the applications. The postgraduate students are also given some basic exposure on non-destructive testing through ultrasonic pulse velocity measurement and impact concrete hammer. The Geotechnical Engineering Laboratory supports UG and PG teaching and research focusing on core subject material as well as the breadth of research interests being pursued by the MTech and PhD students. The lab is equipped with basic soil testing equipments as well as high-end research equipment. The equipment are used to measure the mechanical properties of soils, which include index property, permeability, compressibility, shear strength and dynamic properties.

The Geotechnical Laboratory has the following facilities/equipments: index property and soil classification, falling head permeability test for fine grained soil and constant head for coarse grained soil, proctor testing setup (compaction test): standard & modified, three 3-gang pedometer setup (consolidation test), swell pressure measurement facility, chemical test, muffled furnace (900°C) for organic matter evaluation in soils, optical and digital LCD microscopes for studying shape of coarse grained soil (sand) particles, suction pressure measurement including conventional tensiometer, sensor based tensiometer, filter paper testing method setup and dew point potentiometer setup, 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, two triaxial test setup with data acquisition equipment (DAQ) and analysis software for measuring shear strength of all soil types with the facility of accurate measurement of pore pressure response and volume change under compression loading conditions (UU,CU,CD tests). Advanced automated triaxial setup with additional facility for extension loading test, kotest and stress path test, fully automated cyclic triaxial test setup (0.01-10Hz, stress and strain controlled, hydraulic-cum-pneumatic operation) for liquefaction potential and dynamic properties of soil (high-strain amplitude test; 10^{-4}% to 10^{-2}%); bender element system for shear modulus of soil (low-strain amplitude test; 10^{-6}% to 10^{-4}%), design software such as GEO5, GiD, STADPro, CSI-SAP, slurry consolidation setup developed at IITGN laboratory for preparing the remolded specimens of fine grained soils consists of self-reacting 250kg reaction frame with four double-stroke pneumatic pressure cylinders

and four consolidation cells, in-situ soil testing including plate load test of 300kN capacity with motorized anchoring system for bearing capacity, standard penetration test (SPT) and dynamic cone penetration test (DCPT) with automatic free fall hammering system, ground penetration radar (GPR) with mono and bistatic operations including antennae of frequencies 100MHz, 400MHz with bistatic operation and 200MHz and 900MHz with monostatic operation.

ELECTRICAL ENGINEERING

The Electrical Engineering discipline currently offers six laboratory courses to its undergraduate students and one basic laboratory course to students of other engineering disciplines. The laboratories are also well equipped for advanced experiments and research.

The **Electronics Engineering Laboratory** has Gunn diode-based microwave test benches and antenna trainer kits to train the students in RF experiments. It also has facilities for microprocessor and microcontroller-based embedded systems experiments.The Electrical Machinery laboratory has 5 sets of test benches with each set incorporating the following machinery and control modules: a DC machine, a synchronous machine and an induction machine. The bench also includes panel meters, sensors for speed torque measurement, power electronic controllers for field and armature power supply, variable frequency drive for the induction motors and synchronizer for parallel operation of alternators. The **Power Electronics and Drives Laboratory** has FPGA based (Sparton/Xilinx) DSP controllers and intelligent power modules for the control of induction motors, BLDC motors, PMAC motors, dc (shunt or separately excited) motors and switched reluctance motors. The **Control Systems Laboratory** has process control trainer modules that include simulators of various types of feedback control systems. PID controllers and lead/lag compensators are also in place. Process measurement kits are available to measure parameters such as temperature, level, position, velocity and acceleration. The laboratory also has a comprehensive two-channel vibration analyzer to study vibrations in flexible structures. The **computational facilities** of the discipline include widely used software tools such as Matlab, Synopsis TCAD tools and Cadence analog/digital design tools. The laboratory is also equipped with ARM, PIC controller, AVR and microcontroller boards as well as a precision magnetic analyzer. The power systems simulation laboratory has PSCAD software licensed for 25 nodes.

The latest additions include a facility for fabricating printed circuit boards (PSBCs), DSP starter kits for conducting real-time signal processing experiments, a data acquisition system (National Instruments) to strengthen the machines and controls laboratory and solar PV laboratory kits for PV cell/module/system characterization.

The laboratory facilities now available for research include the following:

The Photonic Sensors Laboratory focuses on research in the field of optical physical and chemical sensors. The major area of thrust is tunable diode laser spectroscopy to measure concentration, pressure and temperature of gases for industrial and medical applications. Another area of focus is the detection of adulteration in food and beverages. The lab is equipped with several narrow line width near-infrared and mid-infrared laser diodes for the detection of methane, acetylene, carbon dioxide, ammonia and water vapour. A state-of-the-art **Semiconductor characterization laboratory** with a 6-inch probe station, parametric analyzer, a dynamic signal analyzer and ICCAP software has been developed for detailed wafer-level characterization using I-V, C-V, pulse, noise and reliability measurements. An **Affective Computing System Laboratory** equipped with physiological signal data acquisition system and virtual reality programming platform for research on adaptive psychophysiology based systems. The **VLSI Design lab** facility has been now enhanced with almost all the necessary software and a considerable amount of hardware support. **Real-time Power Engineering Simulation (RTPES)** test bed is a fully digital real-time simulation platform. It has been set-up to study the behavior of the electrical system as a "virtual"prototype. The actual computer-controlled HIL and RCP capability of RTPES test bed provide the opportuni-

ty to test the performance of the various equipments/controllers before introducing them into the real environment.

MATERIALS SCIENCE AND ENGINEERING

The Materials Science and Engineering discipline has state-of-the-art equipment for materials characterization focusing on thin film processing and characterization, biomaterials and joining of materials. These include the following equipment and facilities:

Ambient scanning probe microscope (Multimode-8-AM, Bruker) –This high-end instrument is equipped with basic and advanced modes, such as, contact, non-contact, lateral, magnetic and electric force, phase imaging, STM/STS and c-AFM. Along with the measurement of the film quality, its roughness and particle size, this instrument also measures the magnetic force, electrostatic force and conductivity profile of the relevant samples. All kinds of solid samples can be measured with this instrument.

X-ray diffraction System (D8 Discover, Bruker) –This is a floor-mounted fully automatic x-ray diffraction (XRD) system. In addition to the basic powder diffraction (Bragg-Brentano geometry) facility, it has separate modules for non-ambient high temperature (up to 1600°C) studies, small angle X-ray scattering (SAXS) and thin film analysis (grazing incidence).

Friction stir welding equipment –The friction stir welding machine is designed to weld plates in linear manner. The machine is capable of providing up to 50kN axial thrust and can accommodate a maximum platesize of 800mm length and 600mm width. The machine is controlled using a high-end PLC module. The user-friendly software allows for ease of setting all relevant parameters such as tool rotary speed, feed, torque and force for x-axis and on tool shoulder (z axis). During stir welding operations these parameters are recorded and can be retrieved.

Thin Film Laboratory –The Thin Film Laboratory carries out film deposition using an RF magnetron sputtering unit (model: table-top sputter coater MM–237, M/s Milman thin film systems Pvt Ltd) with facility for co-deposition from two targets. All types of metal, semiconductor and insulator films can be deposited using this deposition unit. The laboratory is also equipped with a four-point probe measurement system to measure the resistivity of the semiconductor thin films.

Wet Lab and liposome preparation facility – This lab houses the instruments necessary for preparing liposomes and protein-lipid complexes. The instruments include ultrasonic processor, analytical weighing balance, dessicator with vacuum pump, centrifuge, incubator and autoclave.

MECHANICAL ENGINEERING

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

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

Manufacturing Laboratory: The Manufacturing

Laboratory has facilities such as lathes, milling machine, vertical machining centre, electric discharge machine, welding, fitting and tin smithy equipment. It supports courses on Manufacturing Practices and Processes and supports manufacturing activities in Integrated Design and Manufacturing courses. It also serves as a workshop for fabrication of undergraduate student projects as well as research-related equipment and accessories.

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

PHYSICS

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

LIBRARY

The library is an integral part of the Institute's academic and research work. It has continued to build and expand its collection both in print and digital form, and design and deliver innovative services in support of teaching, learning, research and other scholarly activities taking place on the campus. During the last year, the library initiated a number of important activities and services which are presented here briefly.

COLLECTION

Books, Technical Reports, Theses & Dissertations and Audio Visual Collection

The library collection consists of research monographs, text books, reference books, conference proceedings, CDs, VCDs and DVDs covering the areas of academic and research interest of the Institute. Subsequent to the decision taken in the 16th Senate meeting, the library has also started to develop a special collection of children books. The following table presents additions during the year 2014-15.

Table: 1 Collection Added

Type of Collection	Additions in 2014-15	Total collection as on
Books	3100	20746
Children Books	872	872
CDs	98	821
VCD/DVDs	110	451
Technical Reports	456	456
Theses	35	46
Total	**4671**	**23392**

Print Journals and Magazines

During the year the library discontinued subscription to 33 journals that were not utilized and are now Open Access. A set of 15 new journals were added, taking the total number of subscribed journals to 139. This is in addition to a large number (over 8000) of scholarly e-journals subscribed.

Digital Resources

In addition to the existing 36 resources, the library added two new resources viz. **Nature journals** and **SAE Digital Library** making a total of 38 e-resources. The library also subscribed to number of selected journals from major publishers.

CIRCULATION (LENDING) AND INFORMATION SERVICES

Circulation Service

The total number of documents issued and returned during the year was 22161 and 20553 respectively. This reflects a significant increase in comparison to previous years (issue 14742 and return 13917).

Library Extended Opening Hours (24/7)

The library opening hours were extended to 24/7 hours during the mid-semester and the end-semester examinations in both semesters in the academic year.

Information/Reference Services

The library has been actively promoting reference and information services (in person or over the campus network) to its user community. In 2014-15, the library continued and introduced new services such as new additions of books with links to publisher website, a weekly alert of publications originating from the Institute and an alert about the book of the week. It also created a catalogue of MTech dissertations, a virtual reference collection with links, citation styles, e-print archives and updated 31 bibliographies on different subjects.

RESOURCE SHARING

The library has always taken an active part in availing the benefits of sharing resources with other major libraries in the cities of Ahmedabad and Gandhinagar as well IITs, NITs, IIMs, IISERs, CSIR and DELNET member libraries in the country. This is done through inter-library loan and document delivery services.

Inter-Library Loan

The library borrowed 135 books as compared to 57 books in the previous year and loaned 7 books to other libraries through the **inter-library loan** service.

Document Delivery Service

The number of articles requested and received from other libraries has increased three-fold. A total of 9519 articles were procured (as compared to 3312 last year) from other libraries and delivered to our faculty members and students. Besides getting papers from other libraries to meet the Institute's requirements, the library also delivered 1062 papers to other libraries on their request.

MEMBERSHIPS

Organizational Membership

The membership of INDEST, INFLIBNET e-consortia, Developing Library Network (DELNET) along with nine other library and professional bodies was renewed in order to avail the benefits of various services. In addition, the library enrolled as an Institutional Member of American Concrete Institute(ACI).

Library Memberships

The library has introduced five new membership schemes that enables members to use library resources and services against prescribed fee or even free of cost. The membership categories are **a**)industries & corporate houses, **b**) alumni membership, **c**) academic institutions and government departments, **d**) individual (students, academicians, and researchers affiliated to academic institutions) and **e**) IITGN community family members.

LIBRARY ORIENTATION & TRAINING

Library Orientation for Freshers

The library organized four orientation sessions for BTech students from Jul 23-26, 2014 and two sessions for MTech and PhD students on Jul 25 and Dec 27, 2014 respectively to familiarise them with the resources and services offered by the library.

Training Sessions & Workshops

The library organized different sessions on **SciFinder** on Feb 4, 2015, **ChemSpider** on Jul 10, 2014 and Scopus Jul 14, 2014 & Mar 31, 2015 respectively. These sessions were useful in spreading awareness about how best to use these databases for literature survey. The library also organized a two-day workshop on **Modernization of Library Services in Engineering Colleges** from Oct 13-14, 2014 for librarians of the colleges covered under the **TEQIP** Program. The event was attended by 17 participants.

DIGITAL REPOSITORY

The library has created a 'Digital Repository' (http://repository.iitgn.ac.in/) using the widely used open source DSapce software to collect, organize, manage and provide access to scholarly publications.

LIBRARY STAFF ACTIVITIES

Library Staff Visits to Technology Libraries and Training

As part of staff development policy of the Institute in respective domains, three of the regular staff members namely **Panna Chaudhary, Tapas Kumar Das an**d **Viral Asjola** (all senior library and information assistants) visited the libraries of IIT Delhi, IIT Bombay, TIFR, JNU and BITS Pilani. These visits gave them valueable exposure to the practices adopted by well-established libraries and also helped them to build relations with staff members of these institutes. They have also attended various professional workshops and seminars held in Ahmedabad.

NEW INITIATIVES

The library has created **subject resource guides** in the disciplines of Archaeology, Biological Sciences, Civil Engineering, Cognitive Science, Intellectual Property Rights, Open Access Resources, Physics, Electronic Theses & Dissertation, Patent Resources, Standards and Specifications Resource using open source software called Subject Plus. This will help greatly to create awareness, promote use of library resources and efficiently manage references. In addition, **subject liaison** activities are being initiated to build discipline-wise resources. The necessary expertise in implementing **Zotero, Mendeley and other reference management software** is being developed to efficiently manage citations and references.

MEDICAL CENTRE

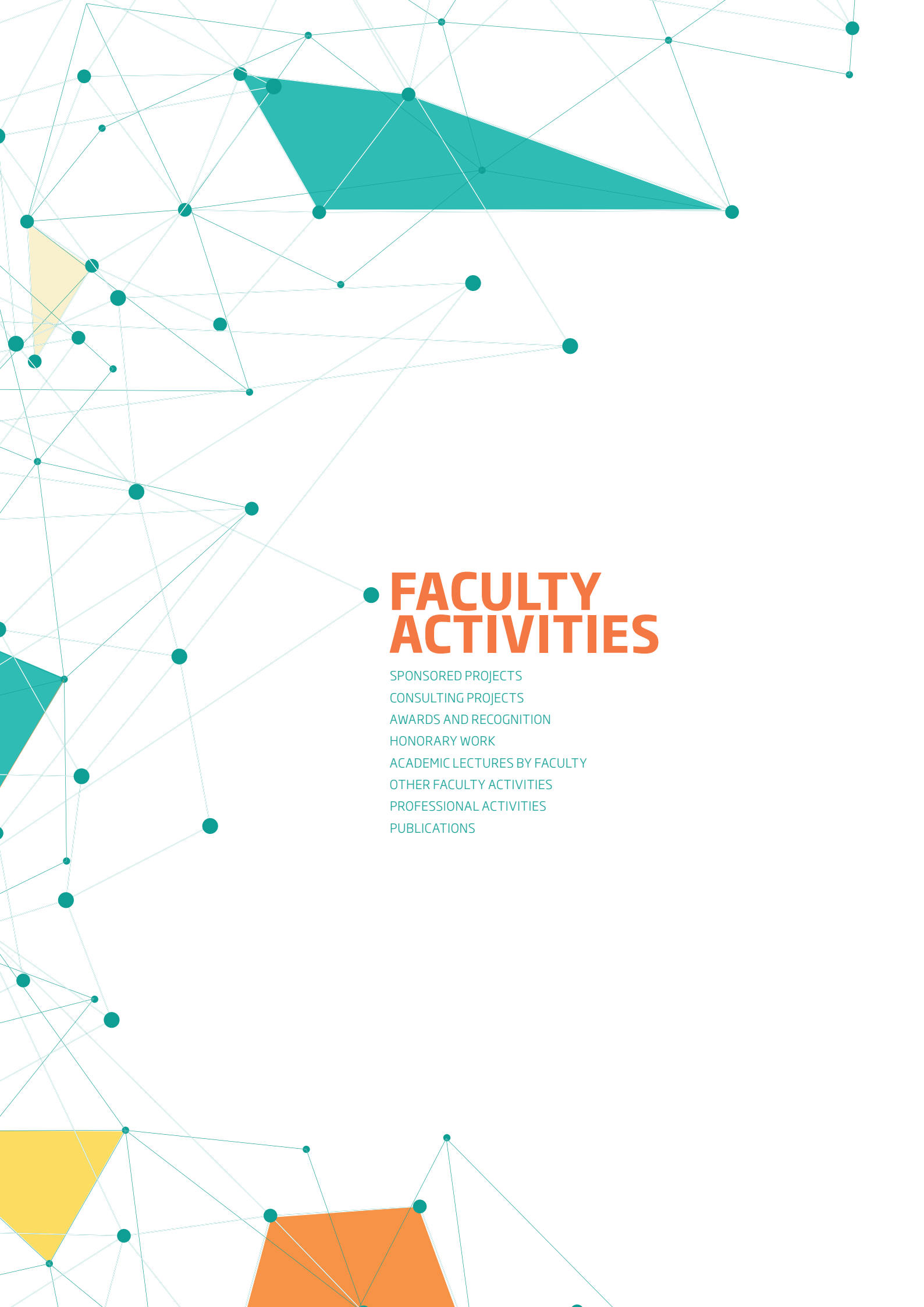
Three qualified medical practitioners are available at the Institute 9am to 9:30 pm on week days to provide medical care and advice to students, staff and faculty. Hospitalization expenses of all students are covered under a medical insurance policy. A trained male nurse and an assistant are available on a full-time basis to provide first-aid and for routine medical services such as checking temperature, blood pressure, blood sugar, oxygen levels and dressing wounds. They also assist in maintaining medical supplies and keeping medical records. The other facilities include an electrocardiogram (ECG) machine, oxygen, nebulizer therapy for asthma and chronic obstructive pulmonary disease (COPD), otoscope and a suction machine for ear examination, eye check-up facility, and a 24-hour vehicle facility for patients in case of emergency. The SAL Hospital Ahmedabad is on the Institute's panel of approved hospitals. The Institute has a modest in-house pharmacy that has all kind of commonly used medicines and a blood collection centre.

PHYSIOTHERAPY CENTRE

A physiotherapy centre has been started at the Institute with **Dr Arvind Chauhan** (BPhysio) available at the centre for two hours every day. The physiotherapy department is well equipped with electrotherapy machines (short wave diathermy (SWD), IFT, TENS, muscle stimulator, paraffin wax bath (PWB), cervical and lumbar traction, ultrasound machine, hot and cold packs, and exercise therapy equipment (shoulder wheel, physioball, therabands, rope and pulley for shoulder exercise, springs, weights cuffs (sand bags), wall ladder for shoulder). The centre also offers treatment of orthopaedic conditions such as arthritis, tennis elbow and for neurological conditions like sciatica, cervical spondylosis. Post-operative and post-fracture physiotherapy management, recovery from sports injuries, spinal rehabilitation in postural problems are also available. The patients are also advised about basic exercises and general guidelines for weight management and general well being.

DAY CARE CENTRE

The IITGN Day Care Centre is a community initiative to provide a safe, secure and nurturing environment to the children from IITGN families while their parents are at work. It caters to children between the ages of 6 months and 6 years, and operates from Monday to Friday from 9am to 6pm. The centre has a recreational section with a large collection of children's books and toys, two small play areas, a private nursing area for babies, a kitchenette and a separate partitioned sleep area. The Day Care has taken several measures to ensure safety and security, including an advanced fire-safety and alarm system, CCTV monitoring system, first-aid kit, doctor on call, high hygiene standards and adequate child proofing. The centre is actively engaged in fun and developmental activities such as drawing, clay modelling, dancing, singing and indoor games. The day care also intermittently organizes short-term structured programs such as music and movement sessions, story-telling sessions and summer camp through volunteer-driven initiatives. The day care has also facilitated interaction between parents and various coaches for activities such as football and chess for children 6 years and older.



FACULTY ACTIVITIES

SPONSORED PROJECTS
CONSULTING PROJECTS
AWARDS AND RECOGNITION
HONORARY WORK
ACADEMIC LECTURES BY FACULTY
OTHER FACULTY ACTIVITIES
PROFESSIONAL ACTIVITIES
PUBLICATIONS

Faculty members at IITGN are engaged in a wide range of academic activities that relate to research and development, consultancy, publications, and honorary work for other academic organizations. The activities described below cover these areas and also list recognition received by IITGN faculty in their various disciplines.

SPONSORED PROJECTS

PROJECTS SANCTIONED DURING 2014-15

- **Heat transfer and visco-plastic flow based model for friction stir welding of copper-YSRA: Young Scientist Research Award** sponsored by BRNS - Board of Research in Nuclear Sciences. Principal investigator: **Prof Amit Arora**, Materials Science and Engineering
- **Research collaboration agreement for natural evaporative effluent treatment,** sponsored by Sagar Drugs and Pharmaceuticals Pvt Ltd. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering
- **Process efficiency and stability of auto thermal reformers in diesel-based marine fuel cell systems,** sponsored by Naval Materials Research Laboratory, DRDO laboratory. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering
- **Computational aero-elastic assessment of transonic compressor rotor blades,** sponsored by Gas Turbine Enabling Technology Initiative, Ministry of Defence. Principal investigator: **Prof Murali Damodaran**, Mechanical Engineering
- **Sediment dynamics and sediment connectivity in the kosi basin: implications for river hazards,** sponsored by International Centre for Integrated Mountain Development (ICIMOD). Principal investigator: **Prof Vikrant Jain**, Earth Sciences
- **Modeling spread of vector borne diseases in urban areas from a spatially interacting network perspective,** sponsored by Science and Engineering Research Board. DST. Principal investigator: **Prof Shivkumar Jolad**, Physics
- **Meshfree implementation of cardiac electrophysiology,** sponsored by Science and Engineering Research Board, DST. Principal investigator: **Prof Shankarjee Krishnamoorthi**, Mechanical Engineering
- **Intelligent adaptive virtual reality based stroke rehabilitation platform for elderly, DST-SEED** sponsored by DST-Department of Science & Technology-SEED. Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- **Smart non-invasive health monitoring device for elderly** sponsored by IEEE Region10 Humanitarian Technology (HT). Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- **River basin scale hydrological investigation & characterization using variable infiltration capacity (VIC) model,** sponsored by the National Remote Sensing Centre (NRSC), Hyderabad. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- **Hydrologic modeling and climate change impact assessment in the Ganga river basin** sponsored by the Ministry of Environment and Forest (MoEF), Government of India. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- **Motor adaptation and skill learning in Parkinson's disease** sponsored by Science and Engineering Research Board, DST. Principal investigator: **Prof Pratik Mutha**, Biological Engineering
- **Microstructure studies of self-assembled $Cu(In_{1-x}Ga_x)Se2$(CIGS) nanodots on ZnO thin film** sponsored by Council of Scientific and Industrial Research CSIR. Principal investigator: **Prof Emila Panda**, Material Science and Engineering
- **Designing impact evaluations for gram varta under SWASTH, Bihar, India** sponsored by International Initiative for Impact Evaluation (3IE). Principal investigator: **Prof Malavika A Subramanyam**, Humanities & Social Science
- **Development of a self-contained PV-powered domestic toilet and wastewater treatment system,** sponsored by Bill and Melinda Gates Foundation with a sub-con-

tract from Caltech to IITGN. Principal investigator: **Prof Babji Srinivasan**, Chemical Engineering

ONGOING SPONSORED PROJECTS

- **Characterization of rotational seismic excitation**, sponsored by the Department of Science and Technology. Principal investigator: **Prof Dhiman Basu**, Civil Engineering
- **Ethanol auto thermal reforming: design optimization through experimental and modelling studies,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering
- **Quantitative near-and mid-infrared wave-length modulation** spectroscopy for gassensing applications, sponsored by Department of Science and Technology. Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering
- **A novel process for precipitation and stabilization of drug nanoparticles in aqueous suspensions using CO_2**, sponsored by Department of Biotechnology. Principal investigator: **Prof Sameer V Dalvi**, Chemical Engineering
- **Rapid precipitation and stabilization of drug nanoparticles using ultrasonically-driven mixing device,** sponsored by Department of Science and Technology. Principal investigator: **Prof Sameer V Dalvi**, Chemical Engineering
- **Engineering stable and bio-compatible microbubble formulation for biomedical applications,** sponsored by Department of Biotechnology. Principal investigator: **Prof Sameer V Dalvi**, Chemical Engineering
- **High-fidelity computational design of engineered systems on HPC platforms,** sponsored by the Department of Information Technology. Principal investigator: **Prof Murali Damodaran**, Mechanical Engineering
- **Value addition to the initial design of a low-cost windmill for pumping brine and electricity production in rural areas-a GRiDS@IITGN-NIF initiative,** sponsored by National Innovation Foundation, Department of Science and Technology. Principal investigator: **Prof Murali Damodaran**, Mechanical Engineering; co-PIs: **Prof Atul Bhargav, Mechanical Engineering** and **Prof Naran Pindoriya**, Electrical Engineering
- **Aptamer-magnetic nanoparticle constructs for multiplexed detection of foodborne pathogens,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Bhaskar Datta**, Chemistry
- **Dynamics of self-sustained chemo-mechanical oscillations of active polymer gels,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Pratyush Dayal**, Chemical Engineering
- **Development of low-cost intelligent head-phones for improving social interactions of children with autism spectrum disorders,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Nithin V George**, Electrical Engineering
- **Dry coating of nano-additives for energy efficient cement clinkerization,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- **Photochemical and photophysical studies of donor-acceptor substituted aryl and heteroaryl polyenes,** sponsored by Council of Scientific and Industrial Research. Principal investigator: **Prof Sriram Kanvah Gundimeda**, Chemistry
- **Photo-processes of donor-acceptor substituted polyenes in ionic liquid media,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Sriram Kanvah Gundimeda**, Chemistry
- **Carbaporphyrins with in built arene moiety: their synthesis, characterization and metal coordination study,** sponsored by the Council of Scientific and Industrial Research. Principal investigator: **Prof Iti Gupta**, Chemistry
- **Synthesizing single-atom thick inorganic nano sheets isomorphous to graphene by developing chemical exfoliation strategies for layered boron-based materials,** sponsored by Department of Science and Technology. Principal investigator: **Prof Kabeer Jasuja**, Chemical Engineering

- **How are context and health of older adults related incorporation of geospatial analysis into sociology of aging,** sponsored by ICSSR. Principal investigator: **Prof Tannistha Samanta**, Humanities & Social Sciences. Co-PI: **Prof Shivakumar Jolad**, Physics
- **An experimental investigation to locate and assess the severity of winding deformations in power transformers,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Ragavan K**, Electrical Engineering
- **Intelligent virtual reality based gaze-sensitive social communication system for children with autism spectrum disorder,** sponsored by the Department of Science and Technology, Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- **Post-stroke tele-neurore habilitation using an operant conditioning paradigm under volitionally driven transcutaneous neuro- muscular electrical stimulation** funded by the DST, and Institute National de Recherche en Informatiqueet en Automatique (IN-RIA) under the Indo-French Programme in Information and Communication Science & Technology (ICST). Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering and **Dr Anirban Dutta**, Université Montpellier, France
- **A cognitivist exploration of the concept of privacy behavior and experience** sponsored by Department of Science and Technology. Principal investigator: **Prof Jaison A Manjaly**, Humanities & Social Science
- **Exploring internationally collaborative projects where the arts meet technology,** sponsored by British Council's Knowledge Economy Partnerships (KEP) programme. Principal investigator: **Prof Achal Mehra**, Humanities & Social Science and **Victoria Dean**,The School of the Arts, The University of Northampton, UK
- **Experimental studies of metastability in different synchronizers,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Joycee Mekie**, Electrical Engineering
- **Molecular-scale membrane curvature generation in protein-lipid systems:electro- statics and hyperphobicity,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Abhijit Mishra**, Materials Science & Engineering
- **Measurement to management (m2m): improved water use efficiency and agricultural productivity through experimental sensor network** sponsored by Media Lab Asia, Ministry of Communications & Information Technology. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- **Statistical learning of category information: a neuro-imaging investigation,** sponsored by Cognitive Science Research Initiative of the Department of Science and Technology. Principal investigator: **Prof Krishna Prasad Miyapuram**, Computer Science and Engineering
- **Effects of device geometries and design rules on the performance and reliability of advanced MOS devices with high-Kgate dielectrics and metal gates** sponsored by the Department of Science and Technology. Principal investigator: **Prof Nihar Mohapatra**, Electrical Engineering
- **Global stability analysis of spatially developing axisymmetric boundary layers,** sponsored by Aeronautics Research and Development Board (ARDB). Principal investigator: **Prof Vinod Narayanan**, Mechanical Engineering
- **A novel system-identification-based approach for understanding the deformability of DNA,** sponsored by Department of Science and Technology. Principal investigator: **Prof Harish P M**, Mechanical Engineering
- **Delayed reconstruction of unknown inputs of dynamical systems,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Harish P M**, Mechanical Engineering
- **Fabrication and a detailed microstructural Fabrication and detailed microstructural films with ZnO buffer layer for the photovoltaic applications,** sponsored by the Department of Science and Technology, Principal investigator: **Prof Emila Panda**, Materials Science and Engineering

- **Oxidation behavior of rare magnetic thin films,** sponsored by DRDO, Principal investigator: **Prof Emila Panda**, Materials Science and Engineering
- **Short-term generation scheduling in power systems under uncertainty/intermittent characteristics of renewable energy sources (RES) and demands,** sponsored by Department of Science and Technology. Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering
- **Virtual geotechnical laboratory,** sponsored by Ministry of Human Resource Development. Principal investigator: **Prof Amit Prashant**, Civil Engineering
- **Investigation of object motion categories in dynamic natural scenes and their applications,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Shanmuganathan Raman**, Electrical Engineering
- **CO_2 reforming of methane to generate syngas using nanostructured doped oxides and nanoporous aluminosilicates,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Sudhanshu Sharma**, Chemistry
- **Experimental and theoretical investigations of polymerization-grade ethylene synthesis,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Sudhanshu Sharma**, Chemistry
- **Data-driven control loop performance assessment & diagnosis tool: implementation in waste water treatment system,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Babji Srinivasan**, Chemical Engineering
- **Colloidal particles self-assembly in liquid crystals,** sponsored by the Department of Science and Technology. Principal investigator: **Prof Prachi Thareja**, Chemical Engineering
- **An investigation on eigen value problems and qualitative theory of fully nonline arelliptic equations,** sponsored by National Board of Higher Mathematics. Principal investigator: **Prof Jagmohan Tyagi**, Mathematics.

CONSULTING PROJECTS

PROJECTS SANCTIONED DURING 2014-15

- **Understanding surface properties of fine powders for DPI Application for Wockhardt**. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- **Applicability of clause 7.9 of IS: 1893-2002** for Srinivas Resort Limited, Hyderabad. Principal investigator: **Prof Sudhir K Jain**, Civil Engineering
- **Intel (R) Galileo course work development** for Intel Ltd, Principal investigator: **Prof Joycee Mekie**, Electrical Engineering
- **Providing hydrologic model output** for Institute of Rural Management Anand. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- **Climate change impact assessment** for the state of Madhya Pradesh for State Knowledge Management Centre on Climate Change. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- **Development of downscaled and bias-corrected projection** for columns and Nicaragua and Colombia for DTU Management Engineering. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- **Vetting of design and drawings of 10 nos. drainage siphons** for KTECHNOCARE Principal investigator: **Prof Pranab Kumar Mohapatra**, Civil Engineering
- **MMS SWIR magnet holding cage** for IGTR-RP. Principal investigator: **Prof N Ramakrishnan**, Mechanical Engineering
- **Low-cost automation system** for Konark Group of Companies, Mumbai. Principal investigator: **Prof N Ramakrishnan**, Mechanical Engineering
- **District Human Development Report-Ahmedabad** for Gujarat Social Infrastructure Development Authority. Principal investigator: **Prof Tannistha Samanta**, Humanities and Social Sciences
- **Failure investigation analysis of steel chimney** at Sanghi Industries Ltd Vadodara, Gujarat. For Rakesh Narula & Co, Vadodara, Gujarat. Principal investigator: **Prof Gaurav**

Srivastava, Civil Engineering

ONGOING CONSULTING PROJECTS

- **Computational fluid dynamics** for hi-tech outsourcing services. Principal investigator: **Prof Murali Damodaran**, Mechanical Engineering
- **Industrial computational fluid dynamics activities** for Hi-Tech OS. Principal investigator: **Prof Murali Damodaran**, Mechanical Engineering
- **Identification of an optimal disinfectant** for the preservation of RO purified water for "*Sarvjal*" Piramal Waters Private Ltd. Principal investigator: **Prof Sharad Gupta**, Biological Engineering
- **Institute of Infrastructure, Technology, Research and Management (IITRAM): To provide assistance and guidance** for the newly established university Institute of Infrastructure, Technology, Research and Management (IITRAM) for Government of Gujarat. **Prof Sudhir K Jain** is the Principal investigator and **Prof S P Mehrotra** the Convener and Nodal Officer of IITGN for IITRAM Cell
- **National level expert instituteto advise and oversee the scheme on state level anchor institutes in the focus sectors** sponsored by the Government of Gujarat. Principal investigator: **Prof Sudhir K Jain**, Civil Engineering
- **Applicability of Intel atom processor for low-power computing systems and embedded applications** for Intel Higher education programme. Principal investigator: **Prof Joycee Mekie**, Electrical Engineering
- **Smart grid pilot project-UGVCL** for Uttar Gujarat Vij Company Ltd (UGVCL), Gujarat. Principal investigator: **Prof Naran M Pindoriya**, Electrical Engineering
- **Design of barricades with improved efficiency** for Raksha Shakti University. Principal investigator: **Prof Amit Prashant**, Civil Engineering, Co-principal investigator: **Prof Bhaskar Bhatt**, Design
- **Improving the present hydraulic system** for Peass Industrial Engineering Pvt Ltd. Principal investigator: **Prof N Ramakrishnan**, Mechanical Engineering
- **Productivity assessment & enhancement** for ACME Air Equipments Pvt Ltd, GIDC. Principal investigator: **Prof N Ramakrishnan**, Mechanical Engineering
- **Analysis of slopes at Ghatkopar** for Satra Property Developers Pvt Ltd, Mumbai. Principal investigator: **Prof Ajanta Sachan**, Civil Engineering
- **Cost-benefit analysis of integrated scheduling and production control** for ABB Global Industries and Services Ltd. Principal investigator: **Prof Rajagopalan Srinivasan**, Chemical Engineering

AWARDS AND RECOGNITION

The following faculty members have received special awards and recognition by external bodies during 2014-15.

Prof Amit Arora has received the **DAE Young Scientist Research Award** for a research project titled '**Heat flow and visco plastic flow based model for friction stir welding of copper'**.

Prof Bireswar Das's paper '**Zero Knowledge and Circuit Minimization'** with Prof Eric Allender has been selected for the **Best Paper Award** in the 39th International Symposium on Mathematical Foundations of Computer Science (MFCS 2014). The award is sponsored by The European Association for Theoretical Computer Science (EATCS).

Prof Anirban Dasgupta has been selected for **Google Research Award** for the proposal titled '**Algorithms for large network analytics'**. The Google Research Awards aims to identify and support world-class, full-time faculty pursuing cutting-edge research in computer science, engineering, and related fields. Out of a total of 808 proposals received across 55 countries, IITGN is the only Indian institute to receive this award among the 122 projects funded this year. Prof Dasgupta also has been awarded the Ramanujan Fellowship, sponsored by the Department of Science and Technology (DST), Government of India.

Prof Sameer V Dalvi (Chemical Engineering) received the IIT Gandhinagar **Excellence Award in Research** for the year 2012-2013.

Prof Chinmay Ghoroi (Chemical Engineering) received the IIT Gandhinagar **Excellence Award in Institution Building**, for the year 2013-2014.

The Gujarat Institute of Civil Engineers and Architects (GICEA) felicitated **Prof Sudhir K Jain** on May 17, 2014 and awarded him an **Honorary Membership**. The felicitation is in recognition of his significant contributions to the field of earthquake engineering practice and for his selfless service to a diverse and dynamic learning community of India. GICEA is a premier Institute of civil engineers and architects and is a non-government organization.

Prof Vikrant Jain was invited to be the **member of State Advisory Committee on Floods and Drought**, Bihar State Disaster Management Authority (BSDMA), Government of Bihar.

Prof Kabeer Jasuja and **Prof Babji Srinivasan** have been selected for the **Inspire Faculty Award** by the Department of Science and Technology. The award is given to young scientists under the age of 32.

Prof Shivakumar Jolad has been nominated as c**ore working committee** on District Human Development Report of Ahmedabad, Gujarat Social Infrastructure Development Society, Government of Gujarat.

Prof Ragavan K received the IIT Gandhinagar **Excellence Award in Teaching** for the year 2013-2014.

Prof Alok Kumar Kanungo has been awarded a publication grant towards a book titled '**Mapping Indo-Pacific Beads vis-a-vis Papanaidupet'** that is under preparation.

Prof Dinesh Korjan has been appointed as **Mentor with Dlabs**, the Design led Incubator at ISB (India Business School), Hyderabad. He was also appointed on the **Jury Panel** on Packaging Design for Core 77 Design Awards 2015. And filed **design registration for Street Bin Design** (Regn.no: 265733 dated 17 September 2014).

Prof Harish Palanthandalam Madapusi received the IIT Gandhinagar **Excellence in Institution Building** Award for the year 2012-2013.

Prof Sharmistha Majumdar has been awarded the **Ramalingaswami Re-entry Fellowship** by the Department of Biotechnology, Ministry of Science and Technology for a period of 5 years.

Prof Barun Majumder has received the **Fulbright Postdoctoral Fellowship** to carry out research at the Montana State University, USA.

Prof S P Mehrotra received the prestigious **National Metallurgist Award** (Research & Academia) for the year 2014. The Ministry of Steel, in association with the Indian Institute of Metals, recognizes outstanding contributions of metallurgists and bestows this distinction on two persons every year.

Prof Vimal Mishra has been selected for the **National Environmental Science Fellowship** by the Ministry of Environment and Forest for the proposal Implications of land cover/land use and climate changes on soil moisture variability in India.

Prof Pranab Mohapatra was invited to be the **member of State Advisory Committee** on Floods and Drought, Bihar State Disaster Management Authority (BSDMA), Government of Bihar.

Prof Jyoti Mukhopadhyay has been nominated as **Council Member** by the Indian Institute of Metals (IIM) for the year 2014–2015.

Prof Pratik Mutha has received the prestigious **DBT - Wellcome Trust Fellowship** an Early Career Award for mentoring **Dr Neeraj Kumar**, a Research Scholar in IIT Gandhinagar.

Prof Souradyuti Paul was invited to be the **member of Program Committee** of 17th International Conference on Information Security and Cryptology (ICISC) 2014. He was also invited to be the member of Program Committee of Student Research Forum for the 16th International Conference on Distributed Computing and Networking (SRF-ICDCN) 2015. Prof Paul was also part of the **Advisory Committee** of National Workshop on Network and Information Security (organized jointly by ISTAR and IEEE Gujarat Section).

Prof Naran M Pindoriya has been elevated to the level of Senior Member of the Institute of Electrical and Electronics Engineers (IEEE)**, IEEE USA**.

Prof Srinivas Reddy launched his book '**The Dancer and the King'**, a translation of Kalidasa's comedic play Malavikagnimitram, with a staged reading of Act II along with musical accompaniment on Aug 19, 2014. Prof Reddy was invited to be the **Contributory Editor** in Sanskrit for the literary e-journal **Muse India**.

Prof Tannistha Samanta received the IIT Gandhinagar **Excellence in Teaching Award**, 2014. She was also invited as **Visiting Assistant Professor** in School of Arts & Science, University of Saskatchewan, Saskatoon, Canada, May 2014.

Prof Sudipta Sarkar has been awarded a **visiting fellowship** under Indian Scientists Visitor Program for Spanish University of Santiago de-Compostela (PEIN Program).

Prof Indranath Sengupta was invited to be the **member of the Board of Studies**, Department of Mathematics, North-Eastern Hill University (NEHU), Shillong, Meghalaya. He was also invited to be the **member of GUJCOST** for evaluation of research project proposals.

Prof Babji Srinivasan received the **DST-INSA INSPIRE fellowship** for the project titled 'Advanced Optimization and Control of household energy management in Future Smart Grid Systems: Implementation in a Lab-scale setup'.

HONORARY WORK

Prof Sanjay Kumar Amrutiya, Mathematics
- Reviewer, Proceedings of the National Academy of Sciences, India Section A: Physical Sciences

Prof Amit Arora, Materials Science and Engineering
- Technical paper evaluation for IIW International Congress 2014
- Reviewer, International Journal of Advanced Manufacturing Technology
- Reviewer, Transactions of the Indian Institute of Metals
- Reviewer, Journal of Materials Processing Technology
- External Member, Doctoral Committee, Mr Gaurang Joshi, PDPU, Gandhinagar, Gujarat
- External Member, Doctoral Committee, Mr Rajesh S, PDPU, Gandhinagar, Gujarat
- External Member, Doctoral Committee, Mr Ankit Dilipkumar Oza, PDPU, Gandhinagar, Gujarat

Prof Arup Lal Chakraborty, Electrical Engineering
- Reviewer, Special Issue of Applied Physics B for papers presented at the Field Laser applications in Industry and Research (FLAIR 2014)
- Member, Technical Programme Committeee, National Conference on Communications (NCC 2015)
- Member, Technical Programme Committeee, 13th International Conference on Fiber Optics and Photonics (Photonics 2014), IIT Kharagpur, Dec 2014

Prof Vinod Chandra, Physics
- Reviewer, book manuscript on theoretical physics, Cambridge University Press
- Member expert/evaluation committee in physics, for Minor Research Projects in Physics, Gujarat Council on Science and Technology, Department of Science and Technology, Government of Gujarat, Mar 2015

Prof Murali Damodaran, Mechanical Engineering
- Member, editorial board of International Journal of Computational Fluid Dynamics
- Managing editor, International Journal of Information Technology
- Reviewer for journals: AIAA Journal, International Journal of Computational Fluid Dynamics, Engineering Optimization, Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, Sadhana–Indian Academy Proceedings in Engineering Science, PLOSOne
- Reviewed papers for the 53rd IEEE Conference on Decision and Control Dec 2014
- Member, Conference Editorial Board of the 4th International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering, (PARENG 2015), Dubrovnik, Croatia, Mar 24-27, 2015; Also judged and voted for best technical paper by a young scientists
- External examiner, 1MS thesis from IIT Madras, Chennai, Jul 2014
- External examiner and member of Viva-Voce Committee for 2 PhD thesis (aerospace and applied mechanics) from IIT Madras, Chennai, May and Sep 2014
- Member, Expert Committee for review of proposals for scientific validation and value addition in Grassroots Innovations at National Innovation Foundation
- Nominated member, Nirma University, Ahmedabad, Academic Body of the Faculty of Technology and Engineering from Mar 12, 2013-Mar 11, 2016
- Invited member, faculty interview and selection committee, Mechanical Engineering, Ahmedabad University, Oct 2014
- Member, Standing Committee for appointment of Head of Department in Mechanical Engineering, Nirma University, Jan 2015
- Appointed Registration Authority at IIT Gandhinagar for the Indian Grid (Garuda) Certification Authority (IGCA) by C-DAC Bangalore

Prof Michel Danino, Humanities and Social Sciences
- Appointed member, Indian Council of Historical Research, Feb 2015
- Appointed member, Executive Council, Banaras Hindu University, Mar 2015

Prof Anirban Dasgupta, Computer Science and Engineering

- Program committee: Conference of World Wide Web (WWW) 2015, ACM Conference of Data Science (CoDS) 2015, ASONAM 2015, Web search and data mining (WSDM) 2015, International Conference on Data Mining (ICDM) 2014, Foundations of software technology and theoretical computer science (FSTTCS) 2014
- Co-Chair, World Wide Web PhD Symposium 2015
- Chair, Best Paper Committee for CoDS 2015
- Senior Program Committee of CIKM 2015
- Area Chair of ICDM 2015

Prof Raghu Echempati, Mechanical Engineering

- Chaired a technical session on Micro-machining, at IIT Guwahati, All India Manufacturing Technology Design and Research (AIMTDR) conference, Dec 13, 2014.
- Chaired technical sessions, ICIER 2015, Jan 2-3, 2015

Prof Nithin V George, Electrical Engineering

- Reviewer for journals: Applied Acoustics (Elsevier); Automatica (Elsevier); IEEE Transactions on Very Large Scale Integration Systems; Circuits, Systems & Signal Processing (Springer); International Journal of Electrical Power and Energy Systems (Elsevier); Signal Processing (Elsevier); Digital Signal Processing (Elsevier); Mechanical Systems and Signal Processing (Elsevier); Expert Systems with Applications (Elsevier); Journal of the Franklin Institute (Elsevier); Journal of Mechanical Engineering Science (SAGE Publications); International Journal of Electronics and Communications (Elsevier); Proceedings of the National Academy of Sciences, Physical Sciences (Springer); Journal of Low Frequency Noise, Vibration and Active Control (Multiscience)
- Reviewer for conferences: National Conference on Communications 2015 (NCC 2015), IIT Bombay; IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES 2015), NIT Calicut; IEEE International Symposium on Circuits and Systems (ISCAS 2015), Lisbon, Portugal; 22nd European Signal Processing Conference (EUSIPCO 2014), Lisbon, Portugal.
- Selection Committee Member, PhD Interview (Electronics and Communication Engineering), Gujarat Technical University, Sep 24, 2014.
- Member, Doctoral Committee (Electrical and Electronics Engineering), Government Engineering College, Thrissur, Oct 1, 2014.
- External Reviewer, Progress of doctoral candidates and PG students, Gujarat Technical University, Mar 24, 2014.
- Member, Technical Programme Committee, National Conference on Communications 2015 (NCC 2015).

Prof Chinmay Ghoroi, Chemical Engineering

- Member, Board of Studies, Department of Chemical Engineering, Nirma University, Ahmedabad
- Member, Faculty of Technology and Engineering, Nirma University, Ahmedabad
- Reviewer, Powder Technology, Process Safety and Environmental Protection, Journal of Geophysics and engineering

Prof Iti Gupta, Chemistry

- Reviewed PhD thesis in Organic Chemistry, MNIT Jaipur, Oct 2014
- Reviewed research article for Sensors and Actuators B: Chemical (2014) an Elsevier Journal publication

Prof Hari B Hablani, Mechnical Engineering

- Reviewer, Journal of the Astronautical Sciences, Springer Journals Editorial Office
- Member, Editorial Board of Defence Science Journal, DRDO Publications
- Doctoral Committee, Indian Institute of Space Sciences and Technology, Thiruvanathapuram, Kerela

Prof Sudhir K Jain, Civil Engineering

- President, International Association for Earthquake Engineering (IAEE)
- Chairman, Search Committee for Executive Chairperson of the Gujarat Educational Innovation Commission (GIEC), Government of Gujarat

- Member, Board of Directors, Gujarat International Finance Tech City (GIFT)
- Member, Board of Directors, GIFT SEZ Limited
- Member, State Knowledge Advisory Board, Government of Andhra Pradesh
- Member, Board of Governors, Raksha Shakti University, Ahmedabad
- Member, Board of Governors, Pandit Dwarka Prasad Mishra-Indian Institute of Information Technology, Design and Manufacturing (PD-PM-IIITD&M), Jabalpur
- Member, Board of Governors, Institute of Infrastructure, Technology, Research And Management, Ahmedabad
- Member, Court, Central University of Gujarat, Gandhinagar
- Member, Executive Council, Central University of Gujarat, Gandhinagar
- Member, Gujarat Urban Development Mission
- Juror, for the finals of the TATA Innovista, the innovation program in Tata Group, Tata Group Innovation Forum (TGIF)
- Chief Guest, Open House of the Foundation For Excellence (FFE), organized at the IIM Ahmedabad
- President, IIT Roorkee Alumni Association, Ahmedabad Chapter
- Member, Site Selection Committee to assess suitability of land identified by the Government of Goa for setting up of an IIT in the state

Prof Vikrant Jain, Earth Sciences
- Reviewer for journals: Geomorphology, Earth Surface Processes and Landform, Journal of Earth System Science, Geografiska Annaler: Series A, Physical Geography, Physical Geography, Natural Hazards, Geological Magazine, Geomatics Natural Hazards and Risk, Current Science.
- Reviewer, project proposals submitted to National Fund for Scientific & Technological Development (FONDECYT), Chile, Sep, 2014; Ministry of Earth Sciences (MoES), Aug 2013
- Reviewer, project report submitted to Department of Science and Technology (DST), India, Dec, 2013
- Invited panelist in the Ganga Rejuvenation Environmental Flow Workshop, organized by World Bank in Delhi, Feb, 2015; National Workshop on Ecosystem Services of River Ganga at WWF, India organized by National Institute of Ecology, Delhi, Jul 2014

Prof Kabeer Jasuja, Chemical Engineering
- Reviewer for Journal of Chemical Sciences

Prof Shivakumar Jolad, Physics
- Core working committee member, District Human Development Report of Ahmedabad, Gujarat Social Infrastructure Development Society, Government of Gujarat
- Principal Investigator, Evaluation of Pratham Open School Education and Pratham supported Schools in Gujarat and Rajasthan blocks, funded by Pratham, India

Prof Mohan C Joshi, Mathematics
- Reviewer, various scientific publications
- Reviewer, scientific plan of the academic year 2014 as a member of scientific committee of the DST project entitled National Program on Differential Equations

Prof Ragavan K, Electrical Engineering
- External examiner for conducting Viva-Voce examination for ME, National Institute of Technical Teachers Training and Research, Bhopal, Madhya Pradesh, Sep 30, 2014

Prof Rita Kothari, Humanities and Social Sciences
- Member, Advisory Board, Centre for Social Study, Surat, 2014
- Panelist, Divided Tongues, Symposium on Languages of the Partition, Apeejay Book Festival, New Delhi, Apr25, 2014

Prof Sivapriya Kirubakaran, Biological Engineering
- Invited Advisory Committee Member (External) for PhD student's research progress committee, Nirma University, Ahmedabad

Prof Sharmita Lahari, Humanities and Social Sciences
- Evaluator, Fulbright Applications 2014-15 for United States Educational Foundation

Prof Uttama Lahiri, Electrical Engineering

- Reviewer, Journal of Medical Imaging and Health Informatics
- Reviewer, Journal of Autism and Development Disorder
- Reviewer, American Journal of Autism
- Reviewer, IEEE Pervasive Computing
- Reviewer, IEEE Transactions on Autonomous Mental Development
- Reviewer, Austin Journal of Autism & Related Disabilities

Prof Sairam Mallajosyala, Chemistry
- Reviewer, Journal of Physical Chemistry, ACS chemical biology, Biophysical Journal, PLOS Computational Biology

Prof Mona Mehta, Humanities and Social Sciences
- Reviewer, American Political Science Review, Cambridge Journals, Antipode: A Radical Journal for Geography (Wiley)
- Guest faculty at IIM Ahmedabad Summer School in Qualitative and Quantitative Research Methods, Jun 5, 2014

Prof Surya P Mehrotra, Materials Science and Engineering
- Chairman, Research Advisory Council of Jawaharlal Nehru Aluminium Research Design and Development Centre, Nagpur
- Member, Governing Council of Jawaharlal Nehru Aluminium Research Design and Development Centre
- Chairman, Research and Advisory Council of Nonferrous Materials Technology Development Centre, Hyderabad
- Member, Governing Council of Nonferrous Materials Technology Development Centre, Hyderabad
- One of the Directors of Board of Centre for Fly-Ash Research and Management
- Member, Board of Governors of IITGN
- Member, Academic Council of Institute of Infrastructure Technology research and Management
- Coordinator, IITRAM Cell at IITGN
- Member, Expert Committee for selection of Platinum Jubilee Young Scientist Awards, National Academy of Sciences of India, Allahabad
- Member, Selection committee for Minerals Awards, Ministry of Mines, Government of India
- One of the Referees for evaluation of nominations for Shanti Swarup Bhatnagar Awards
- One of the Evaluators of Nominations for IIM National Sustainability Awards
- Project Coordinator and Chief Editor of History Book Project of IIT Kanpur
- Member, Senate of Rajiv Gandhi Institute of Petroleum Technology, Rae Bareli
- Member, Department of Electronics and Information Technology, Government of India, constituted monitoring committee for the project environmentally sound methods of recovery of metals from printed circuit boards

Prof Joycee Mekie, Electrical Engineering
- Member of faculty selection committee held in Aug 2014 for Electrical Engineering, Ahmedabad University, Ahmedabad
- Committee member, Internal assessment committee for Employees on Contractual posts at GTU, Ahmedabad, Jan 15, 2015
- Reviewer, IEEE Design and Test journal, IEEE International conference ASYNC 2015
- IEEE International conference VDAT 2015
- Steering committee member, ASYNC 2015
- Education day chair, VDAT 2015
- Women in Engineering (WIE) Chair, VDAT 2015

Prof Krishna Prasad Miyapuram, Computer Science and Engineering
- Reviewer for journals: Frontiers in Movement Science & Sport Psychology; Frontiers in Decision Neuroscience
- Member, Board of Studies, Computer Science and Information Technology, Nirma University, Ahmedabad

Prof Jyoti Mukhopadhyay, Materials Science and Engineering
- Reviewer, Elsevier Journal and Springer on selected articles.
- Member, Examination & Education Committee as well as Member, SwarnaJaynti Endowment Fund committee of Indian Institute of Metals.
- Member, selection committee at Indian Insti-

tute of Engineering Science and Technology (IIEST), Shibpore, Howrah on Jun 14, 2014
- Assisted Union Public Service Commission New Delhi in the Interview Board for selecting Assistant Director Grade II (Metallurgy) New Delhi on Feb 26 -27, 2015
- External examiner, PhD Thesis at Jadavpur University, Kolkata
- Invited Editor for a book Refractories for Aluminium: Electrolysis and the cast house by Springer publishers.
- Invited reviewer, Waste management Journal by Elsevier publishers
- Elected as the mentor of Fabrication Sector as well as Mining and Mineral sector by Ministry of Labour and Employment

Prof K V V Murthy, Electrical Engineering
- Member, faculty selection committee (2014-2015) for IITRAM
- Member, selection committee at New Delhi, for the selection of candidates for the award of Commonwealth Scholarship 2015 offered by the Government of UK, Dec 04, 2014
- Member, Governing council committee &Academic council committee, NMAM Institute of Technology, Nitte, Udupi, Karnataka State, Aug 12, 2014
- Member, faculty selection committee, NIRMA University, Ahmedabad, Jun 25, 2014
- Member, Academic Advisory Board Meeting, Navarachana University, Baroda, May 8, 2014
- External member, BoG of NMAM Institute of Technology Nitte Education Society, Udupi, Karnataka State
- External examiner, PhD thesis at Amrita VisWaVidyapeetham, Bangalore

Prof Pratik Mutha, Biological and Electrical Engineering
- Reviewer for journals: Journal of Neurophysiology, Frontiers in aging neuroscience, motor control, Experimental brain research, Neuroscience letters, PLoS One

Prof D V Pai, Mathematics
- Chaired the 58th Meeting of Program Advisory Committee, Mathematical Sciences, PAC-MS of SERB, at University of Pune, Pune, Jun 9-10, 2014
- Chaired the 59th Meeting of PAC-MS of SERB held at IIT Gandhinagar, Nov 10-11, 2014
- Chaired the Planning Committee Meeting on Jan 23, 2015 for the forthcoming 12th SERB School on Matrix Methods & Fractional Calculus scheduled at Peechi, Kerala, Apr-May, 2015
- Associate Editor, Asian European Journal of Mathematics, World Scientific Publishers, London and Singapore
- Reviewer, MR, Mathematics Reviews (American Mathematical Society)

Prof Harish Palanthandalam-Madapusi, Mechanical Engineering
- Associate Editor, Conference Editorial Board, IEEE Control Systems Society
- International Program Committee, Indian Control Conference, 2015
- International Program Committee, Indian Control Conference, 2016

Prof Souradyuti Paul, Computer Science and Engineering
- Program committee member, 17th International Conference on Information Security and Cryptology (ICISC) 2014
- Program committee, Student Research Forum for 16th International Conference on Distributed Computing and Networking (SRF-ICDCN) 2015
- Advisory committee, National Workshop on Network and Information Security (organized jointly by ISTAR and IEEE Gujarat Section)

Prof Naran M Pindoriya, Electrical Engineering
- Member, Academic council of Institute of Infrastructure, Technology, Research and Management (IITRAM) since Jun 2013
- External examiner, PhD thesis Department of Electrical Engineering, Malaviya National Institute of Technology Jaipur (MNIT)

Prof Shanmuganathan Raman, Electrical Engineering
- Reviewer, IEEE Transactions on Cybernetics, Computer Vision and Image Understanding, The Visual Computer, EURASIP Journal on Im-

age and Video Processing, Sadhana - Academy Proceedings in Engineering Sciences
- Reviewer, 22nd International Conference on Pattern Recognition (ICPR), Sweden, 2014; 10th International Conference on Signal Processing and Communications (SPCOM), IISc Bangalore 2014; IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (IEEE SPICES), NIT Calicut, 2015
- Technical Program Committee Member: 9th Indian Conference on Computer Vision, Graphics, and Image Processing (ICVGIP), IISc Bangalore, 2014; 8th IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS), New Delhi, 2014; 21st National Conference on Communications (NCC), IIT Bombay, 2015

Prof Ajanta Sachan, Civil Engineering
- Reviewer, Soils and Foundations, Canadian Geotechnical Journal, Measurement, Elsevier
- Member, American Society of Civil Engineers (ASCE), USA
- Member, American Society of Testing Methods (ASTM), USA
- Member, Clays & Clay Minerals, USA
- Member, Earthquake Engineering Research Institute (EERI), USA
- Member, National Information Centre for Earthquake Engineering (NICEE), India

Prof Tannistha Samanta, Humanities and Social Sciences
- Member, International Editorial Board, Migration & Development, Routledge, London, 2015-2017
- Reviewer, The Journals of Gerontology: Series B (Social Sciences), 2014-2015
- External Thesis Examiner, Centre for Environmental Planning & Technology (CEPT), Ahmedabad, 2014-2015

Prof Babji Srinivasan, Chemical and Electrical Engineering
- Reviewer for journals: Computers and Chemical Engineering Journal–2014; IEEE Multi Conference on Systems and Control–2014; International Federation of Automatic Control Conference (IFAC)–2014; Journal of environmental engineering and clean energy–2014; Artificial Intelligence in Medicine–2014; IFAC conference 2014; IEEE Transactions on Control System Technology–2015; Industrial Engineering and Chemistry Research–2015
- Review panel member, IEEE International Conference on Energy, Power and Environment - 2015, NIT Meghalaya
- External Examiner for Masters & PhD dissertation of student, NIT Trichy

Prof Rajagopalan Srinivasan, Chemical Engineering
- Outstanding Reviewer, Computers and Chemical Engineering Journal 2015
- Dr G P Kane Visiting Professorship in Chemical Engineering, ICT Mumbai, 2015-2016
- Member, International Scientific Committee, International Conference on Chemical & Process Engineering ICheaP12, Milan, Italy, May 19-22, 2015
- Member, International Programming Committee, 12th International Symposium on Process Systems Engineering (PSE-2015) and 25th European Symposium on Computer-Aided Process Engineering (ESCAPE25), Copenhagen, Denmark, May 31 –Jun 4, 2015
- Technical Committee Member, 2015 Global Summit on Process Safety, Kuala Lumpur, Malaysia, Nov 3-5, 2015
- Member, International Program Committee, 5th World Conference on Safety in Oil and Gas industry, Okayama, Japan, Jun 8-10, 2014
- Member, International Program Committee, 2014 Foundations of Computer-Aided Process Design Conference (FOCAPD), Cle Elum, WA, USA, Jul 13 - 17 2014
- Conference Chair, 2nd International Conference on Safety 2014 and 3rd Symposium on Process Safety, Ahmedabad, Dec 2 –6, 2014

Prof Meera Mary Sunny, Humanities and Social Sciences
- External examiner for MPhil thesis at University of Hyderabad

Prof Prachi Thareja, Chemical Engineering
- Session chair, Self and directed assembly of

molecules and particles–delivery and release, 89th ACS Colloids Symposium 2015, Pittsburgh, USA

Prof Vijay Thiruvenkatam, Biological Engineering

- Invited external expert member for PhD student research committee of Charotar University of Science and Technology, Changa, Gujarat

Prof Jagmohan Tyagi, Mathematics

Reviewed articles for Mathematical Reviews

- Refereed articles for the Journals: Taiwanese Journal of Mathematics, Indian Journal of Pure and Applied Mathematics, Asian-European Journal of Mathematics, Proceedings of the National Academy of Sciences, Physical Sciences (NASA)

Prof Siddharth Y Wakankar, Humanities and Social Sciences

- Chaired an academic session as well as gave a key-note address in the Workshop on Traditional Games and Folk-Games in Maharashtra, organized by the Bharatiya Itihas Sankalan Samiti, Pune, Dec 27, 2014
- Inaugurated the two day National Seminar on Mrigapakshishastra organized by the Sanskrit Department of the University of Mumbai, chaired and also delivered the Key-note address, Sep 18, 2014
- External examiner for three viva voces in the Department of Sanskrit and Prakrit Languages, University of Pune, Dec 22-24, 2014

ACADEMIC LECTURES BY FACULTY

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 Sanjaykumar Amrutiya delivered series of lectures in Annual Foundation School-1 held at Centre of Excellence in Mathematical Sciences, Almora, Dec 1 –27, 2014.

Prof Amit Arora was keynote speaker on **Heat transfer and material flow modeling of welding and joining, plenary talk, welding, joining and additive manufacturing WJAM** - International Conference, Jan 19, 2015, Tel-Aviv, Israel. Prof Arora also delivered a talk **Adding a resistance heat source during Friction Stir Welding** at TMS 2015 144th Annual Meeting, Walt Disney World, Orlando, Florida, USA, Mar 15-19 2015; **Tool wear during Friction Stir Welding: State of the Art and the challenges** at International Conference for friction based process- 2014, Sep 3-4, 2014; **Numerical modelling of temperature distribution during Friction Stir Welding of Copper** in IIW-International Congress, New Delhi, Apr 9-11, 2014.

Prof Sudarshan Bahl delivered talk on **Cyber psychology and ancient wisdom** at the Cyber Psychology Seminar held at Gujarat Forensic Science University, Gandhinagar, Feb 20-21, 2015.

Prof Michel Danino delivered Second Distinguished Lecture **Harappan expertise in civil engineering**, National Centre for Safety of Heritage Structures (NCSHS), Department of Civil Engineering, IIT Madras, Apr 25, 2014; **Exploring Indian Civilization**, IIT Kanpur, Aug-Nov 2014; **The infinite in indian mathematics and astronomy**, C-DAC, Pune, Oct 7, 2014; **What can modern india learn from ancient india**, Spicmacay lecture at IISER, Pune, Oct 8, 2014; **Technology in the indus civilization**, Variable Energy Cyclotron Centre, Kolkata, Oct 16, 2014; **Sarasvati, the lost river**, lecture at a Sand HI symposium at IIT Kharagpur, Oct 17 2014; **What can today's india learn from ancient india?**, IIT-BHU, Nov 5, 2014; **Sanitation and water management in the Indus-Sarasvati Civilization**, IIT Kanpur, Nov 8, 2014; **Issues in indian metrology from harappa to Bhaskaracharya**, lecture at International Conference of the Indian society for history of mathematics, University of Pune and IISER Pune, Nov 28, 2014; **Overview of science in ancient india**, National Chemical Laboratory, Pune, Nov 28 2014; **Science in ancient india: Overview and reflections**, Jan 27, 2015; **Studying history of science in india**, Indian Institute of Science (Material Research Centre), Bengaluru, Feb 4, 2015; **How much science did ancient indians know?** Sastra University, Thanjavur, Feb 21, 2015.

Prof Anirban Dasgupta delivered invited lectures on **Faster projections and sketches** in DAIICT Apr 17, 2014; **Crowdsourcing** at ERTE 2014, IEEE Gujarat section, Jul 20, 2014; **Learning from the crowd** at the IUSSTF Symposium in IISc, Jan 7, 2015; **Learning from the crowd** at Flipkart Bangalore, Jan 9, 2015; **Learning from the crowd** at Comsnets, Workshop on social networks, Jan 8, 2015; **Learning properties of large networks** at the machine learning and complex networks workshop in IIT Kharagpur Mar 6, 2015; **Learning properties of large networks** at the Indo-German workshop on Algorithms in ISI Kolkata, Mar 9, 2015.

Prof Bhaskar Datta delivered an invited lecture at **International Conference on Water**, Mahatma Gandhi University, Kottayam, Kerala, Jan 2015; **Kaleidoscope**, a discussion meeting of Chemistry, at International Centre, Goa, Jul 2014.

Prof Pratyush Dayal gave an invited talks in the **Young Investigators Meet** (YIM) at MIT Boston, Nov 6, 2014; **Using stability analyses to predict dynamic behavior of self-oscillating polymer gels**, APS March meeting 2015, San Antonio, Texas, USA, Mar 2, 2015.

Prof Raghu Echempati delivered lectures on **Real and virtual design & manufacturing in education and in industry**, AIMTDR 2015, IIT Guwahati, Dec 13, 2014; **Sustainable assessment, RRRM and Material Management Ed-**

ucation, National Conference on Sustainable manufacturing for a brighter future, MNIT, Jaipur, Jan 2-3, 2015; **Innovative curriculum with entrepreneurial-mindset**, ICIER-IIM Bangalore; International Conference on **Entrepreneurship education and training**, Jan 20-31, 2015; **Applications of linear and nonlinear finite element analysis with applications**, MANIT, Bhopal, Feb 27, 2015; **Design and analysis of car truck stand**, AISECT University, Mendua, Feb 28, 2015; **Finite element methods**, Government College of Engineering, Bargur, Tamilnadu, Mar 2-5, 2015.

Prof Nithin V George delivered invited lecture at the TEQIP-II sponsored short course on **Recent advances in signal processing and communications**, Malaviya National Institute of Technology, Jaipur, May 21, 2014; TEQIP-II sponsored staff development programme on **Alpha to Delta of Digital signal processing**, TKM College of Engineering, Kerala, Jun 5-9, 2014; **Alpha to delta of Digital Signal Processing**, Government Engineering College, Thrissur, Kerala, Sep 29-30, 2014; **Soft computing**, Babaria Institute of Technology, Vadodara, Gujarat, Dec 19, 2014.

Prof Chinmay Ghoroi delivered invited lecture on **Reuse of sludge from chlor-alkali plant** in 3rd International Conference on Recycling and reuse of materials (ICRM –2014) at Kottayam, Kerala, Apr 11-13, 2014.

Prof Sriram Kanvah Gundimeda delivered invited talk at Golden Jubilee **In-House symposium**, Oct 16-17, 2014, IIT Bombay; **Recent advances in biochemical research**, Feb 14 2015, Department of Biochemistry, Saurashtra University, Rajkot.

Prof Sharad Gupta delivered lecture on **Advanced research methodology for neurodegenerative disorders**, Institute of Pharmacy, Nirma University, Ahmedabad, Jul 10, 2014.

Prof Iti Gupta delivered an invited lecture in ICPP8, 8th International Conference on **Porphyrins and phthalocyanines** on **carbazole-corrole conjugates**, Istanbul, Turkey, Jun 21-27 2014.

Prof Hari B Hablani has provided **GNSS-Aided Integrated navigation course material**, developed over six years, to Dr Raghunadh K Bhattar, Course director-SATCOM, Sci./Engr SF, Space Applications Centre, ISRO, Ahmedabad, for courses under Space Science and Technology Education in Asia and the Pacific, affiliated to the United Nations, Jan 30, 2014.

Prof Sudhir K Jain delivered lectures on **Earthquake Engineering in India** at the international workshop, IIT Delhi Dec 20-21, 2014; **Some thoughts on undergraduate education in a seminar onArchitectural Education: Turmoil - opportunities - Future course**, Indian Institute of Architects, New Delhi, Dec, 2014; **Role and road map for Indian Universities towards the agenda of skill development** in the National Level Consultation on Skill development, Employment and mobility in India, hosted by the National Institute of Advanced Studies (NIAS), Bangalore, Dec 22, 2014. Prof Jain delivered talk on **Opportunities and challenges of building a world-class IIT from the ground up: The IIT Gandhinagar story** to pan-IIT alumni in a meeting organized by the IIT Alumni Club Bangalore, Dec 22, 2015; **Strategy for education administrators in the Chintan shibir** organized by the State Education Department of the Government of Gujarat, Ahmedabad, Feb 12, 2015; the keynote speaker for a session during the **UN World Conference on Disaster risk education**, Council for Science, Technology and Innovation, Cabinet Office, Sendai, Japan, Mar 14–18, 2015; Keynote lecture at the opening of public forum event **Designing for a safe and secure home and community** organized by Architectural Institution of Japan (AIJ) in Sendai; inaugural lecture at IIT Kanpur in a new lecture series started by IITK **Making of the University** and shared the story of IIT Gandhinagar, Nov 27 2014.

Prof Vikrant Jain delivered lecture in MoES workshop on **Predictive near surface geosciences: Integration of theory, data and models** at NEERI, Nagpur, Nov 2014; UNDP workshop on **Floods and waterlogging in Bihar: tools for multi-hazard mapping and Mitigation**, organized by BSDMA and IITK at Patna, Oct 2014; **Land**

use land cover, erosion and sedimentation in the Koshi Basin, organized by International Centre for Integrated Mountain Development (ICIMOD) at ICIMOD Headquarters, Kathmandu, Nepal, Sep 2014; UNDP workshop on **Implications of climate change on water resources and agriculture** organized by IITGN, IITK and IITB in Bhubaneswar, Jul 2014.

Prof Kabeer Jasuja delivered invited lectures on **Synthesizing aqueous dispersions of few layer thick nanosheets analogous to graphene**, 2nd Soft Matter–Young Investigators Meet, IIT Madras, Pondicherry, Tamil Nadu, Dec 2014; International Conference on **Nano Biomaterials**, International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, Jul 2014; **Chemical Exfoliation of Layered Superconductor: An Avenue to Synthesize Boron-rich Quasi Two-Dimensional Nanostructures**, APS (American Physical Society) Conference, San Antonio, TX, Mar 2015; **Synthesis of Chemically Modified Metal Boride Nano platelets: A New Paradigm in Boron Based Nanostructures**, ICNT (International Conference on Nanotechnology), Haldia Institute of Technology, Haldia, India, Feb 2015; **Synthesizing Few Atom Thick Boron based nanostructures Isostructural to Chemically Modified Graphene Sheets**, AICHE (American Institute of Chemical Engineers) Conference, Atlanta, GA, Nov 2014; **Chemical Exfoliation Of Layered Borides: An Avenue To Synthesize Boron-Based Nanosheets Analogous To Chemically Modified Graphene Nanosheets**, NCMST (National Conference on Materials Science and Technology), Indian Institute of Space Science and Technology, Thiruvananthapuram, Jul 2014.

Prof Shivakumar Jolad delivered invited talk at mathematical biology research symposium on **Host-pathogeninteractions** supported by Indian Academy of Sciences, Coorg, Karnataka, Dec 2014.

Prof Mohan C Joshi delivered invited talk in 19th Annual GAMS Conference on **Advances in mathematical modelling of real world problems**, SVNIT, Surat, Oct 3-6, 2014; International Conference on **Recent trends in mathematical analysis and applications**, IIT Roorkee, Dec 21-23, 2014; **Solvability analysis and optimization**, IWSCM-2015, MS University, Baroda, Jan 5-10, 2015; **Solvability analysis, Minimization theory and controls**, at NPDE (DST) workshop on Variational Analysis and Optimization, IITGN, Mar 2-8, 2015; **Industrial mathematics and academia-industry partnership** under the auspices of Industry Open House, IITGN, Aug 23, 2014; Resource person for Study group meeting on **Industrial problems**, Sponsored by NPDE (DST), MS University, Baroda, Mar 23-27, 2015.

Prof Ragavan K delivered lectures on **electromagnetics and power electronics analysis**, ANSYS Convergence 2014, Pune, May 6, 2014; **Battle of currents**, Pondicherry Engineering College, Pondicherry, Aug 1, 2014; **Power electronics, Drives for electric vehicles**, Shankersinh Vaghela Bapu Institute of Technology, Gandhinagar, Sep 29, 2014; **Applications of power electronics in electric drives**, Shantilal Shah Engineering College, Bhavnagar, Gujarat, Mar 2-3, 2015; **Electrical machines - An introduction**, Gandhinagar Institute of Technology, Kalol, Mar 31, 2015.

Prof Alok Kumar Kanungo was invited for International Seminar on **Archaeology and languages and Joint annual conferences of Indian Archaeological Society (IAS), Indian Society for Prehistoric and Quaternary Studies (ISPQS) & Indian History and Culture Society (IHCS)**, Deccan College Post Graduate & Research Institute(Deemed University), Pune, Oct 6-9, 2014. Prof Kanungo also delivered talks in a workshop on **Maritime Gujarat and Western Indian Ocean**, IITGN, Jan 19, 2015; National Conference on **Quaternary climate change: New approaches and emerging challenges**, Dec 15-16, 2014.

Prof Sivapriya Kirubakaran delivered invited lecture at the prestigious Ramanbhai Foundation at Zydus-Cadilla Research Centre (ZRC), Ahmedabad, Nov 19, 2014.

Prof Dinesh Korjan delivered lectures in workshop on **Design thinking for engineering students** on behalf of Dlabs at Sasi Institute of Tech-

nology & Engineering, Tadepalligudem, Andhra Pradesh, May 23-25, 2014; Course in **design thinking for management** students at BKMIBA (BK Majumdar Institute of Business Administration), Ahmedabad University from Dec 2014 - Apr 2015.

Prof Rita Kothari delivered invited talk, **Questions in and of language India in transition series**, Nehru Memorial Museum, New Delhi, Apr 11, 2014; plenary talk, **language, anthropology and translation**, Critical theories and critical practices conference, Hyderabad Central University, Apr 22 -23, 2014; **Hinglish: the social life of english** New York University, Abu Dhabi, May 7, 2014. Prof Kothari was also invited speaker, **Post-chutnefying English: Is Hinglish a metaphor?** Hinglish workshop, Centre for developing societies (CSDS), Aug 18-19, 2014; **Unbordered memories: Partition in the western region**, Brown University, Oct 6, 2014 and **Is Hinglish a metaphor?** Boston University, Oct 8, 2014; Chandigarh Literature Festival, Nov 2014.

Prof Surjeet Kour delivered a talk on **Commutative Algebra and Algebraic Geometry (CAAG 2015)** in National Conference at IIT Guwahati, Feb 5-9, 2015.

Prof Joycee Mekie delivered lectures on **Interfacing solutions for globally asynchronous locally synchronous design** at Innovations for High performance (iHP), Germany, May 2015; **Embedded systems for low-cost automation** as part of the CEP course on Low-Cost Hi-Tech Automation (LCHA), Sept 2014; **Higher education in premier institutions and future prospects**, Techfest FELICIFIC 2015, DDU, Nadiad, Mar 11, 2015; **Overview of network-on-chip architectures** VLSI Circuit design and analysis (VCAD), Marwadi Institute, Rajkot, Mar 19, 2015; **Timing issues on synchronous circuits**, Marwadi Institute, Rajkot, Mar 19, 2015.

Prof S P Mehrotra delivered a keynote lecture in **B R Nijhawan Symposium**, held as a part of Annual Technical Meeting of Indian Institute of Metals, Pune, Nov 12-15, 2014; **Growth and sustainability of electrical and electronic equipment industry for Indian power sector** during Gujarat Manufacturing Show 2014, Ahmedabad, Sep 19-20, 2014.

Prof Mona G Mehta was guest speaker for IIM Ahmedabad Winter School in **Public Policy and Social Change,** Dec 14-18, 2014.

Prof Krishna Prasad Miyapuram delivered an expert lecture titled **Consumer neuroscience** as part of the international training program on Entrepreneurial management, Entrepreneurship Development Institute of India, Mar 2015; He also delivered a guest lecture in the **course Internet Marketing for PGD-BE**, Entrepreneurship Development Institute of India, Feb 2015.

Prof Jyoti Mukhopadhyay delivered 18th NASAS plenary lecture on **Current scenario on formability and superplasticity of advanced aluminum alloys for Aerospace Industry** at Nagpur on Dec 17, 2014; **Status, challenges and opportunities in Developing environmental friendly aluminum alloys for automotive application** NMD/ IIM Pune, Nov 15, 2014; he also presented a paper on **evaluation of forming limit diagram of aluminum alloy 6061-T6 at Ambient Temperature**, TMS meeting at Orlando, Florida, USA, Mar 18, 2015; **Formability characterization of aluminum lithium alloys used in Aerospace Industry**, ASME at Montreal, Canada, Nov 14-20, 2014; presented a generic report on **non-ferrous metal resources with special reference to aluminum** at Shastri Bhawan, Ministry of Mines, Government of India, Apr 16, 2014.

Prof K V V Murthy the delivered keynote address for the participants of a 5-day workshop on **Modelling Week** organized by the Department of Applied Mathematics, MSU Baroda on Mar 17, 2015; Invited Lectures for a TEQIP-sponsored short course on **Applied Digital Signal Processing** at IITGN on Dec 8-11, 2014; NMAM Institute of Technology, Nitte, Udupi District, Karnataka on Dec 17, 2014; IITRAM (Mentee Institute), Ahmedabad, Aug 8, 2014; FDP on **Audio and Speech Signal Processing**, organized by the EC department of SVNIT, Surat, Jul 7, 2014.

Prof Nitin Padhiyar delivered invited lecture on **Role of modeling, simulation, and optimization chemical engineering** in a technical festival Azeotrope, Government Engineering College, Bharuch, Mar 4, 2015; **Emerging trends in product development**, Parul Institute of Technology, Vadodara; **Tools & trends for research in electrical engineering**, Shankersinh VaghelaBapu Institute of Technology, Gandhinagar, Nov 25, 2014; **Process control: theory, application and advances**, Nirma University, Ahmedabad, Jul 7-8, 2014.

Prof D V Pai gave invited lectures on **Gamma convergence and viscosity approximation methods for minimization problems**, Advanced level workshop on **variational analysis & optimization** Sponsored by National Programme on Differential Equations (NPDE), DST and NBHM, at IITGN, Mar 2-7, 2015; **Optimal recovery of functions in Approximation theory**, Mar 16, 2015.

Prof Souradyuti Paul delivered a talk in the National Workshop on Network, **network simulation & Information security 2014**, Gujarat.

Prof Naran M Pindoriya delivered an invited lecture on **Integration of distributed solar PV generation into secondary distribution network** in a National Workshop on Smart micro-grids for autonomous zero-net energy buildings, IIT Mandi, Dec 14-15, 2014.

Prof V N Prabhakar delivered the Rao Bahadur K N Dikshit Memorial Lecture on **Expanding the horizons of Harappan studies in Chautang Valley: Excavations at Karanpura, district Hanumangarh, Rajasthan**, Department of Anthropology, University of Wisconsin-Madison, USA, Oct 15, 2014; **Harappan Civilization: The earliest civilization of South Asia**, Yale MacMillan Centreorganized by South Asia Studies Council, Feb 26, 2015; **Understanding the spread of Harappan Civilization during the third millennium BCE in Drishadvati River Valley: Recent excavations in Karanpura, Rajasthan**, Department of Anthropology, Yale University organized by the Yale Council of Archaeological Studies Feb 27, 2015; **Harappan Civilization: The earliest civilization of South Asia**, Ahmedabad University Science lecture series Mar 20, 2015; **Harappan Civilisation** as a part of Ahmedabad University Science lecture series, Mar 20, 2015 at IET College, CEPT Campus, Ahmedabad.

Prof Srinivas Reddy delivered the following invited lectures - **The future of liberal arts and science in India**, Ashoka University, New Delhi, Mar 2015; **Unlearning the learned; Care, compassion, and mindfulness Conference**, AHIMSA Centre, Pomona, CA, Nov 2014; **Developing compassion through art**; International Symposium for **contemplative studies, mind and life**, Boston, MA, Nov 2014; **Union through sound: Indian Classical Music as Contemplative practice; MAUSAM Indian Ocean Project**, Indira Gandhi National Centre for Arts, New Delhi, Sep 2014; **Stallions of the Indian Ocean: Horse trade in the sixteenth century Deccan**; **Viagens de Longo Curso**, Universidade Católica Portuguesa, Lisbon, Portugal, May 2014; **White foam on black water: Translating the first voyage of Vasco de Gama; Translating India**, Faculdade de Letras da Universidade de Lisboa, Lisbon, Portugal, Apr 2014; **Sanskrit as a source, never a target**.

Prof Ajanta Sachan delivered an invited lecture on **Liquefaction and related ground improvement techniques**, Short term training program on **Ground improvement techniques and Soil structure interaction**, BVM College, Vidyanagar, Gujarat, Nov 17-21, 2014.

Prof Tannistha Samanta gave an invited lecture on **Mixed methods research** for graduate students at the School of Planning, Centre for Environment & Planning Technology (CEPT), Ahmedabad, Mar 2015; **Household context, social capital and wellbeing of older adults in India**, College of Arts & Science, University of Saskatchewan, Canada, May 20, 2014; **Why population age structure matters: Insights from the Indian case**, Census data dissemination workshop, Ahmedabad, Gujarat, Dec 15, 2014.

Prof Sudipta Sarkar delivered a lecture on **Field theoretic aspects of gravity**, at IISER Mohali, Dec 2014.

Prof Indranath Sengupta delivered invited lectures in Instructional School For Lecturers (ISL) on **Galois Theory**, at the SGGS Institute of Engineering & Technology at Nanded, Maharashtra, Dec 1-13, 2014; He was the UGC SAP guest on an **advanced topic meant for faculties and research students** at North-Eastern Hill University (NEHU), Shillong, Dec 11-19, 2014 and at the UGC Sap Nehu Workshop & National Conference on **Contemporary Mathematics**, at North-Eastern Hill University (NEHU), Shillong.

Prof Sudhanshu Sharma delivered keynote lecture on **Understanding the electrochemical differences between Pt doped and Pt dispersed CeO_2** in a National Conference on Nanochemistry, Sam Higginbottom Institute, Allahabad, Nov 11, 2014; **Materials for energy, environment and electrochemical applications**, CSMCRI Bhavnagar, Nov 17, 2014; **Cyber Psychology and Ancient Wisdom** at the Cyber Psychology Seminar conducted by Gujarat Forensic Science University, Gandhinagar.

Prof Babji Srinivasan delivered invited Lecture on **Control and optimization research group multivariate control loop performance assessment**, at Praxair, SUNY Buffalo, New York, Jun 6, 2014. Prof Srinivasan was also keynote speaker on **DST-PURSE** sponsored by National Conference on Recent Trends in Instrumentation and Control (RTIC-2015), Mar 13-14, 2015.

Prof Rajagopalan Srinivasan gave a keynote lecture on **Safety of Oil and Gas Industry**, 5th World Conference, Okayama, Japan, Jun 8-11, 2014; Global Summit on **Process Safety**, Mumbai, Dec 15-16, 2014; **2nd International Conference on Safety**, Ahmedabad, Dec 2-4, 2014; **AIChE Annual Meeting**, Atlanta, GA, Nov 16-21, 2014; Workshop on **Safety and integrity management of operations in harsh environment**, Oct 22-23, 2014, St. John's, Canada; 8th CCPS Asia Pacific Regional Meeting on **Process Safety**, Chennai, Sep 22, 2014; **8th National Frontiers of Engineering**, IITGN, Ahmedabad, Sep 5-6, 2014; Trans-Atlantic research and development interchange on **sustainability**, Estes Park, CO, USA, Jun 3-6, 2014; **Cognitive Engineering: Quantifying the building blocks of human error**, IIT Delhi, May 26, 2015; **Quantifying the building blocks of human error during decision making**, ABB Corporate Research, Bangalore, Apr 29, 2015; **Quantifying the building blocks of human error during decision making**, Centre for Science, Technology and Policy, Bangalore, Apr 28, 2015; **Cognitive Engineering: Quantifying the building blocks of human error**, IIT Hyderabad, Apr 15, 2015; **The science behind dust explosions, One day seminar on Industrial & built environment fire safety**, Forensic Sciences, Mumbai, Nov 17, 2014; **Teasing out patterns in the industrial practice of sustainability through text mining**, Rajiv Gandhi Institute of Petroleum Technology, Rae Bareli, Nov 12, 2014; **Cognitive Engineering: Quantifying the building blocks of human error**, IIT Kanpur, Nov 11, 2014; **The Science Behind Dust Explosions**, Underwriters Laboratories Sixth Fire Safety Council Meet, Mumbai, Sep 30 –Oct 1, 2014; **Orientation to the Oil & Gas Industry: a Scientist- educator's perspective**, Pandit Deendayal Petroleum University, Gandhinagar, Jun 19, 2014; **Decoding the human's effect on complex systems through data analysis**, Kyoto University, Japan, Jun 12, 2014; **In the eyes of the beholder: Decoding the human's effect on complex systems**, ABB Corporate Research, Bangalore India, May 20, 2014.

Prof Meera Mary Sunny was invited speaker at the National Seminar sponsored by UGC on **Cognitive Science and its Implications for Education and Lifelong Learning**, Mar 26, 2015.

Prof Prachi Thareja delivered an invited lecture in a workshop on **Advanced analytical techniques for materials characterization**, at 89th ACS Colloids Symposium 2015, Pittsburgh, USA, Feb 23-24, 2015; **Advanced analytical techniques for materials characterization (AATMC 2015)** SVNIT Surat; **Particle self assembly in lyotropic hexagonal liquid crystals –effect of particle loading, Shape and phase transition kinetics**, 89th ACS Colloids Symposium 2015, Pittsburgh, USA; **Liquid crystal orientations on surfactant adsorbed solid glass surfaces: A wettability and solid surface energy study**,

89th ACS Colloids Symposium 2015, Pittsburgh, USA.

Prof Vijay Thiruvenkatam delivered an invited lecture at Nirma University, Ahmedabad in the Department of Pharmacology, Ahmedabad, Apr 16, 2014

Prof JagmohanTyagi delivered an invited talk at the Parul Institute of Engineering and Technology, Limda, Vadodara, Jun 28, 2014; **Industrial problems** at Department of Applied Mathematics, Faculty of Technology and Engineering, M S University of Baroda, Mar 18, 2015.

Prof Siddharth Y Wakankar delivered a lecture on **Manuscriptology** in the Bombay University, Sanskrit Department for the Manuscriptology Diploma Course, Sep 20, 2014; **Sanskrit and its impact on the Indian languages** in a workshop on Manuscriptology in the GogateJogalekar College at Ratnagiri, Maharashtra, Aug 5-7, 2014; chaired a academic session as well as gave a key-note address in the Workshop on **Traditional games and folk-games in Maharashtra**, organized by the Bharatiya Itihas Sankalan Samiti, Pune, Dec 27, 2014.

OTHER FACULTY ACTIVITIES

Prof Amit Arora was visiting scholar, University of North Texas, Denton, Mar–Sep, 2014.

Prof Bhaskar Datta was involved in coordination of TEQIP activities.

Prof Pratyush Dayal has served as **head of the Institute Management Systems (IMS)**. He was also the **convener** of the Information Systems and Technology Facility (ISTF).

Prof Nithin V George was the **local coordinator**, 59thMeeting of the Programme Advisory Committee –Mathematical Sciences (Department of Science and Technology, Government of India; Coordinator, Short Course on **Applied Signal Processing** Dec 8-12, 2014, Powered by TEQIP, IITGN. **Prof Sudhir K Jain** participated in **INDIASPORA Dialog** at New Delhi to explore bold ideas for a vibrant US-India partnership in New Delhi, Jan 25, 2015. The Dialog was held in conjunction with President Obama's visit to New Delhi for the Indian Republic Day parade in Jan 2015; He also participated in the **Retreat of IIT Directors and Chairpersons** with the Human Resource Minister at Goa, Jun 2014; **Road safety Forum and Consultation** Meeting organized by the Underwriters Laboratories Inc, in New Delhi, Nov 26, 2014. Prof Jain attended **National Advisory Committee meeting** of the National Information Centre of Earthquake Engineering, IIT Kanpur, Nov 27, 2014. Prof Jain also visited **Disaster Prevention Research Institute** (DPRI), Kyoto University, Institute of Industrial Science (IIS) of the University of Tokyo, Earthquake Research Institute (ERI) and Ricoh Co. in Tokyo.

Prof Shivakumar Jolad participated in European Conference on **Complex Systems (ECCS)- 2014**, Lucca, Italy, Sep 2014. Prof Jolad has conducted **survey on health, livelihood and education** at Palaj and Basan village as part of unapt Bharat Abhiyan; engaged IITGN students in ASER-2014 survey conducted by Pratham in Ahmedabad for assessing learning levels of elementary school children; organized a **Symposium on mathematical and computational biology**- under NNMCB (National network of mathematical and computational biology), Pune.

Prof Mohan C Joshi was the national coordinator of the Workshop on **Variational Analysis and Optimization**, Mar 2-8, 2015, IIT Gandhinagar organized under the auspices of the National Program on Differential Equations (NPDE, DST).

Prof Alok Kumar Kanungo, initiated the program for making an **online annotated bibliography of sciences in archaeology of South Asia** as part of Archaeological Science Centre (ASC), IITGN; Carried out a fieldwork in and around Kopia, Sant Kabirnagar District, Uttar Pradesh in December 2014 to collect modern botanical samples.

Prof Sharmistha Majumdar organized the

NNMCB Symposium on **Mathematical and Computational Biology** at IIT Gandhinagar, Mar 21-22 2015, under the premise of the National Network for Mathematical and Computational Biology, Pune of which IIT Gandhinagar is a member institution.

Prof Krishna Prasad Miyapuram co-organized a panel discussion and brain storming session named **Padayatricks!** at IIT Gandhinagar; Panelist, **Cognitive perspectives on Road Safety: A proposal**, National Traffic Technology Summit, Ahmedabad, Jan 2015; **Speaker and Member**, organising team for Sub-theme: **Cognition and Safety**, 8th National Frontiers of Engineering, IIT Gandhinagar, Sep 2014; Masters thesis examiner, Centre of Behavioral and Cognitive Science, University of Allahabad, May 2014.

Prof Jyoti Mukhopadhyay has prepared a chapter on **Aluminium for generic research of non-ferrous resources in India** for Indian Institute of Metals and presented before the Secretary, Ministry of Mines, Government of India on Apr 16, 2013 along with the team members of Indian Institute of Metals.

Prof K V V Murthy participated as an invited delegate, in a 2-day workshop on: TEQIP-II: **Good Governance, Leadership and Management** Workshop organized by the National Project Implementation Unit (NPIU), New Delhi, Oct 14-15, 2014.

Prof Shanmuganathan Raman co-ordinated the **Summer Research Internship Program** (SRIP), IITGN. He was also a Member of Information Systems and Technology Facility (ISTF), IITGN and the IITGN Library committee.

Prof R Sharan had offered a 1-unit course on **Engineering and Democracy: An Indian imperative** at IIT Hyderabad, Mar 9-19, 2015. The course was offered in collaboration with **Prof Bijoy Boruah**, Professor of Philosophy at IIT Delhi and also a guest professor at IIT Gandhinagar.

Prof Jagmohan Tyagi participated in the conference on the **Variational Methods** at TIFR-CAM, Bangalore Dec 17, 2014; **Harmonic analysis, PDEs and Geometric Measure Theory** at ICMAT, Madrid, Jan 12-16, 2015.

PROFESSIONAL ACTIVITIES

The **book launch** of **Prof Rajmohan Gandhi's** new book Prince of Gujarat: The Extraordinary Story of Prince Gopaldas Desai (1887-1951), published by Aleph Book Company was held on Jan 7, 2015. The book launch was accompanied by a conversation between Prof Gandhi, Scholar-in-Residence at IITGN and **Mr Aakar Patel**, writer and columnist.

PUBLICATIONS

BOOKS

Divekar Mukund H and Bhate Nitin V, *Heat Transfer Laboratory: Orientation, Protocol and Design Methodology*. Mumbai, IN: Penram International Publishing (India) Pvt Ltd, 2014, ISBN: 9788187972907

Gandhi Rajmohan, *Prince of Gujarat: the extraordinary story of Prince Gopaldas Desai*: 1887-1951. New Delhi, IN: Aleph Book Company, 2014, ISBN: 9789383064069

Rath Arnapurna and **Das Bhaskarjyoti***, *Devi: a journey through photo-poetry*. New Delhi, IN: Authors press, 2014, ISBN: 9788172738372

Reddy Srinivas (Tr), *Malavikagnimitram: the dancer and the king (Kalidasa)*. New Delhi, IN: Penguin Books Ltd, 2014 (Transl. from Sanskrit), ISBN: 9780670086870

BOOK CHAPTERS

Allender Eric and **Das Bireswar**, "Zero knowledge and circuit minimization", in *Lecture Notes in Computer Science*, DOI: 10.1007/9783662444658_3, vol 8635, Springer International Publishing, 2014, pp 25-32, ISBN: 9783662444641

Danino Michel, "Climate and environment in the Indus-Sarasvati civilization", in *Ratnaśrī: gleanings from Indian archaeology, art history and Indology: papers presented in memory of Dr N R Banerjee*, New Delhi: Kaveri Books, 2015, pp 39-47, ISBN: 9788174791641

Das Bireswar, **Enduri Murali Krishna*** and **Reddy Vinod Kumar***, "Logspace and FPT algorithms for graph isomorphism for subclasses of bounded tree-width graphs", in *WALCOM: Algorithms and Computation*, DOI: 10.1007/9783319156125_30, Cham: Springer International Publishing, 2015, pp 329-334, ISBN: 9783319156118

Deb Debabrata, **Dayal Pratyush**, Balazs Anna C and Kuksenok Olga, "Modeling stimuli-induced reconfiguration and directed motion of responsive gels", in *Engineering of Chemical Complexity II*, DOI: 10.1142/9789814616133 0009, World Scientific, 2014, pp 149-168, ISBN: 9789814616126

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STUDENT ACTIVITIES

CO-CURRICULAR ACTIVITIES
EXTRA-CURRICULAR ACTIVITIES
SPECIAL OCCASIONS
AWARD AND RECOGNITION
STUDENT ACHIEVEMENT
SPORTS NEWS
OTHER STUDENT ACTIVITIES

Students are actively encouraged to participate in extra-curricular and co-curricular activities to enrich their overall academic experience and develop their personalities. Students have excelled at such activities throughout the year and continue to initiate new ones.

CO-CURRICULAR ACTIVITES

CAMPUS PLACEMENTS

Of the 78 undergraduates who sought placements, 66 students were successful in securing placements of their choice. The organizations that offered campus placements for the outgoing UG batch in 2014 included Alkyl Amines Chemicals Limited; Altair Engineering India Pvt Ltd; AVTEC Ltd; Bombardier Transportation India Pvt Ltd; Cognizant Technology Solutions; Dover Corporation, DRDO; eClerx Services Ltd; GNFC Ltd; Goldman Sachs; GSFC Ltd; Hero MotoCorp Ltd; Hospira Healthcare; Ishi Systems; The Indian Steel & Wire Products Ltd (ISWPL) (Sub of Tata Steel); Larsen and Toubro Ltd; National Instruments Systems (India) Private Limited; Polyplex Corporation Limited; Reliance Industries Ltd; Ricoh Innovations Pvt Ltd; Timetooth Technologies Pvt Ltd; Tirth Agro Technology Pvt Ltd; XScire Technologies Pvt Ltd and ITM University among others.

SUMMER INTERNSHIPS 2014

Nearly 165 undergraduate IITGN students did their internships in universities; research institutes, PSUs and various industries during the summer of 2014.

Forty six of these students went to Indian academic and research institutions such as Space Application Centre (ISRO), Indian Institute of Science Bangalore, Indian Institute of Technology Madras, Indian Institute of Technology Kanpur, Indian Institute of Technology Bombay and IITGN. Fifty eight students did their internship at foreign universities such as California Institute of Technology (Caltech) USA; Clemson University USA; Columbia University USA; Case Western Reserve University USA; DAAD Wise Programme - Technische Universit ät München - Germany, Duke University USA; Ecole Nationale Superieure d'Arts et Netiers, Paris, France; EPIR Technologies - Bolingbrook, IL, USA; Institute of Chemical & Engineering Sciences, Juroug Island, Singapore, ISCTE-Lisbon University Lisbon; National University of Singapore, Singapore; Rajeev Circle Fellowship for Entrepreneurs, CA, USA; SUTD, Singapore; Singapore University of Technology & Design, Singapore; Technion, Israel Institute of Technology, HAIFA-Israel; Texas A&M University, TX, USA; University of California Merced, CA, USA; Underwriters Laboratories, Chicago, USA; Cisco Systems USA; Universiti Teknologi Petronas, Malaysia, University of Notre Dame, USA; University of Saskatchewan, Canada; University of Washington, USA; University of Southern California, USA; Washington University, USA.

Sixty one students spent their summers in industries such as A-Ray Systems Pvt Ltd; Asaan Jobs; Asea Brown Boveri Ltd; Automation Teknix; Bhilai Steel Plant; Bosch; Bharat Sanchar Nigam Ltd; CD-adapco; Ecolibrium Energy Pvt Ltd; Educational Initiatives; Fluidyn; General Electric Foundation; Hindustan Aeronautics Limited; Hero MotoCorp Ltd; Indian Oil Corporation Ltd; Ishi Information Systems India Pvt Ltd; Jyoti Ltd; Kota Super Thermal Power Plant Station; Maruti Suzuki India Pvt Ltd; PRAVAH (NGO); National Thermal Power Corporation Ltd; Oil & Natural Gas Corporation Ltd; Rakshak Foundation (NGO); Reliance Industries Ltd; Ricoh Innovations Pvt. Ltd.; Sai Impex; Sandvik Asia Pvt Ltd; Sarvajal; Schneider Electric India Pvt Ltd; Semi-Conductor Lab-Department of Space-Government of India; Satluj Jal Vidyut Nigam Ltd; SM Auto Stamping Pvt Ltd; Tata Motors Ltd; Tata Power Ltd; Texas Instruments; UV-Softs Technologies Pvt Ltd; Underwriters Laboratory India Pvt Ltd; Vehicle Factory Jabalpur; Wipro Ltd.

MECHANISM/GADGET OPEN HOUSE

The 2011 BTech mechanical engineering batch held a Gadget/Mechanism open house Apr 21, 2014 in which they displayed prototypes they had developed for the course Synthesis and Analysis of Mechanisms. Students worked in groups to identify problems that they would like to address

with a mechanism or mechanical gadget and eventually developed a preliminary prototype. The prototypes included sugarcane leaf remover, multiple-degree-of-freedom washing machine, panipuri machine, police barricade, battery swapping machine for electric vehicles, tree planter, embroidery thread cutting machine, foot-operated tap, dosa preparing machine, human exoskeleton for weight lifting and under-car mechanic trolley.

EXTRA CURRICULAR ACTIVITIES

AMALTHEA'14

The 5th edition of Amalthea, the annual technical summit was held from Oct 11-12, 2014. The theme of the summit was Ideate and Innovate. Eminent speakers at the conclave included Dr R Chidambaram, principal scientific advisor, Government of India; Dr Gurtej Sandhu, Director of Advanced Technology Developments, Micron Technology Inc.; Mr Sumit Chowdhury, president, Reliance Jio Infocom; Mr A S Kiran Kumar, director, Space Applications Centre, ISRO; Dr Aravind Chinchure, chair professor of Innovation and Entrepreneurship, Symbiosis International University, Dr Anil Bhardwaj, director, Space Physics Laboratory, ISRO; and Dr N Ravichandran, professor, IIM Ahmedabad. The Design and Innovation Expo had active participation from some of the tech giants like Microsoft which showcased its Garage Initiative Ripple. Trendy gadgets like Google Glass, Google Cardboard, and Leap Motion were also showcased. Other prominent exhibitors included ISRO, Bisko Labs, ITER, Light Logics and AHA 3D Printer.

BLITHCHRON'15

The 7th edition of Blithchron, the annual cultural festival of IIT Gandhinagar held on Jan 17-18, 2015 included a laser-themed EDM Nite featuring internationally acclaimed artist, DJ Nucleya and a foot-tapping Coke Studio Nite featuring leading Indo fusion-rock band Swarathma. Apart from a group of 50 students coming from Mumbai, the fest saw participation from IIMA, NID, NIFT, CEPT, PDPU and HL College. Technical events of Blithchron this year included Laser Assassins, Robo Sumo, Race and Kabbadi.

IGNITE 1.0

IIT Gandhinagar's first ever Intra-College Science and Technology Fair **Ignite 1.0** showcased a wide spectrum of applications of science and technology used in day-to-day life on Feb 7, 2015. Nearly 50 students showcased their products ranging from foldable bridge to illusion-based items to driver-less car robot prototype.

SUMMER CAMP 2014

Sixteen members participated in the six-week long summer camp that was held from Jun 9-24, 2014. The camp offered activities such as yoga, swimming, aerobics, and cycling. This summer students were drawn to cinematography, android application development, photography and various other extracurricular activities. IITGN has hosted a summer camp, which offered courses on Statistical Computing and Android Application Development and Cinema and Visual Representations. In addition to the faculty, working professionals and experts have taught the two courses. The course on cinema was taught by **Sameer**

UDAAN'14

UDAAN'14 - the formal dinner night for the graduating batches of BTech, MTech and PhD students was held on Apr 13, 2014. The event was attended by nearly 300 members, including faculty, staff and students. The event included musical performances and speeches by graduating students and faculty members on their IITGN experiences. The event was organized by a team led by **Eepsit Tiwari** and **Saurabh Singhal**.

Bakshi, a professional photographer, jointly with **Prof Satyaki Roy** and **Prof Shatarupa Thakurta Roy** who are faculty members at IIT Kanpur. The other course was taught by the faculty along with **Goutam Mallick**, a professional from Tata Consultancy Services (TCS). A workshop on Design Principles and a workshop on poetry were held as a part of the summer camp. Apart from these the summer camp also involved activities such as swimming, power yoga, aerobics, painting, sketching and various sports. The camp was organised by **Prof Shankarjee Krishnamoorthi**.

JASHN

The 4th edition of **Jashn**, the intra-college cultural festival, Jan 2-5, 2015 added three more flagship events **The Prom, Live Angry Birds** and **Mehfil-e-Jashn**. It also featured Art Expo that had 'Dreams' as the theme. The title for MuSTY (Musical Sensation of The Year) went to Khyati Relhan while the runner-up was **Ankita Joshi**. The various events were organized by **Mudit Rathor**, **Sanket Shah**, **Vishvendra Singh** in association with **Vivek Prakash** and the Arts Club.

WINTER CARNATIONS

The Cultural Council organized 'Winter Carnations'on Nov 9, 2014. The theme this year was Pirates vs Cruisers. The sheds on one side were decorated to give the feel of the deck of a cruise ship while the other side was made to look like a pirate ship. The event featured a live orchestra for music, a fire juggler, artists to perform the native dance of an Indo-African tribe and various competitions. The students, faculty and staff members managed food and game stalls. Winter Carnations was organized by a team led by **Mudit Rathor** and **Palak Sadani**.

SPECIAL OCCASIONS

INDEPENDENCE DAY CELEBRATIONS

The 68th Independence Day celebrations held on Aug 15, 2014 began with the flag hoisting ceremony by the Director **Prof Sudhir K Jain**. On this occasion 114 students who featured on the Dean's List 2013-14 (semester II) by securing an SPI of 8.5 or higher, were felicitated. This was followed by a cultural programme that included patriotic songs, poems, and a short skit about the trial of Bhagat Singh.

TEACHER'S DAY CELEBRATION

The students have invited faculty members for celebration of Teachers Day. The students and faculties together enjoyed many informal activities and every faculty received surprise messages from the student body.

REPUBLIC DAY CELEBRATIONS

The 66th Republic Day celebrations held on Jan 26, 2015 began with flag hoisting by **Prof Sudhir K Jain**, director, IITGN and **Dr R K Gajjar**, the principal of VGEC. On this occasion Excellence Awards for Non-Teaching Staff for the year 2014 were declared. The staff members and students who had secured medals during Inter-IIT Sports Meet were also felicitated.

STUDENTS ON DEAN'S LIST FELICITATED

Based on the performance during Semester I of Academic Year 2014-15, a total of 82 BTech students featuring in the **Dean's list** were felicitated with a letter of appreciation and a topical book (Serious Men by **Manu Joseph**). The programme concluded with a cultural programme organized by students.

IITGN UG STUDENT JOURNAL ARTICLE

The article titled on a **cuckoo search optimization approach towards feedback system identification** authored by **Prof Nithin V George** and two of his students **Apoorv Pathwardhan**, and **Rohan Patidar** is among the top three most downloaded articles from the Digital Signal Processing journal, published by Elsevier.

SPIC MACAY AT IITGN

The IITGN chapter of SPICMACAY (Society for the Promotion of Indian Classical Music and Culture Among Youth) presented their first concert of the year by sitar and tabla maestro **Pandit Nayan Ghosh** on Jul 31, 2014. The IITGN Spicmacay Heritage Club presented another concert with well-known North Indian classical vocalist **Pt Sarathi Chatterjee** on Sep 2, 2014.

MOVIE SCREENINGS

This year Cinematheque hosted screenings at regular intervals catering to the varying interests of student community. Some of the week-long sessions included: The Mentorship Week, French Week, Entrepreneurship Week, Chinese Week, South Asian Week and Horror Week. These screenings were held under the leadership of **Yash Pratap Singh**.

DANCE WORKSHOPS

- A week-long workshop on Garba was organized by the Dance Club ahead of Navratri on Sep 11-16, 2014, in which the club members mentored enthusiasts.
- The dance club organized a Contemporary Dance Workshop by a professional choreographer, **Mr Yash Pandya** on Oct 17-19, 2014 - These workshops were organized under the leadership of Abhigna Bhatt.

HASTA-LA-VISTA

A celebration with graduating students was organized on Aug 1, 2014, on the eve of the Convocation. Students enjoyed interacting with them and had fun dancing to the music played by a DJ.

AHMEDABAD MODEL UNITED NATIONS

Ahmedabad Model United Nations (AMUN) was organized on Aug 15-16, 2014 by the Literary Club in association with AIESEC. It involved public speaking, debating, and writing skills, in addition to critical thinking, teamwork, and raising leadership abilities.

FESTIVALS @ IIT GANDHINAGAR

The Cultural Council organized several festivals which showed huge enthusiasm from students, include Independence Day, Janmashtmi, Garba Night, Diwali, New Year, Uttarayan, Republic Day and Traditional Day.

SHED-6

Abhinaya, the drama club and TIMELINE, the videography club together produced Shed-6, the first ever sitcom of the Institute to depict the craziness that students witness during their amazing journey at IITGN. The first edition had 5 episodes and every episode was greatly appreciated by the community.

PHD FELLOWSHIPS

IIT Gandhinagar has been selected for the prestigious **Visvesvaraya PhD fellowships** in the areas of Electronic System Design and Manufacturing, Information technology and IT-enabled services.

AWARDS AND RECOGNITION

CASH AWARD FOR RESEARCH

At its 9th meeting held on Mar 28, 2013 the BoG approved a cash award scheme to incentivize undergraduate and postgraduate students for papers published in peer-reviewed journals. The following students were given cash awards during the year 2014-15.

Name of the Student	Programme	Discipline	Amount
Adit Bhardwaj	BTech (Alumnus)	Electrical	Rs 25,000
Akhilesh Gotmare	BTech	Electrical	Rs 12,500
Rohan Patidar	BTech	Electrical	Rs 12,500
Gaurav Mahamuni	BTech	Mechanical	Rs 12,500
Shreyans Nahar	BTech	Mechanical	Rs 5,000
Chitta Ranjan Behera	MTech (Alumnus)	Chemical	Rs 25,000
Jignesh Rajendrakumar Joshi	MTech (Alumnus)	Chemical	Rs 25,000
Manishkumar D Yadav	MTech (Alumnus)	Chemical	Rs 37,500
Nidal Raj Bhuria	MTech (Alumnus)	Civil	Rs 25,000
Shivani Rani	MTech (Alumnus)	Civil	Rs 25,000
Vinay Dwivedi	MTech (Alumnus)	Mechanical	Rs 25,000
Vikram Karde	PhD	Chemical	Rs 25,000
Alpana Ankush Thorat	PhD	Chemical	Rs 25,000
Harsha Agnihotri	PhD	Chemistry	Rs 12,500
Naresh Balsukuri	PhD	Chemistry	Rs 20,833
Sudipta Das	PhD	Chemistry	Rs 20,833
Praseetha K	PhD	Chemistry	Rs 33,334
Bhanu Pratap Singh Gangwar	PhD	Chemistry	Rs 12,500
Veerabhadraih P	PhD	Chemistry	Rs 25,000
Haider Ali	PhD	Civil	Rs 25,000
Reepal Dinesh Shah	PhD	Civil	Rs 25,000
Neeraj Kumar	PhD (Alumnus)	Cognitive Science	Rs 25,000
S Chandrasekaran	PhD	Electrical	Rs 25,000
Yogesh Fulpagare	PhD	Mechanical	Rs 12,500
Selvia Kuriakose	PhD	Electrical	Rs 25,000
Satya Sivanaresh M	PhD	Electrical	Rs 25,000
Vinal Patel	PhD	Electrical	Rs 25,000
Abhishek Upadhyay	PhD	Electrical	Rs 25,000

GANDHIAN YOUNG TECHNOLOGICAL INNOVATION AWARD

Dhyey Shah, Eepsit Tiwari and **Rajesh Patidar** received the Gandhian Young Technological Innovation Award from the Biotechnology Industry Research Assistance Council (BIRAC) SRISTI Award for the design of a spill proof spoon for patients of advanced Parkinson's disease.

STUDENT ACHIEVEMENTS

- **Anurag Pillutla** and **Om Margaj**, 2nd year mechanical engineering students have been selected for the **GE Foundation Scholar Leaders Program** under which they will receive a scholarship amount of $2250 each for the next two years. They participated in the "Energize to Innovate"workshop organized by the GE Foundation at the Jack F Welch Technology Centre, Bangalore from Jun 15-18, 2014.
- **Abhishek Navarkar** received the **Charpak Scholarship** to pursue his internship at the Institute of Mechanics and Engineering, Bordeaux.
- **Krishna Kumar Saxena**, a 2nd year MTech student of materials science and engineering, working under the supervision of **Prof Jyoti Mukhopadhyay** has received **German DAAD fellowship** to carry out master's thesis research work at Institut Fur Umformtechnik, Universitat Stuttgart, Stuttgart, Germany.
- The team comprising **Mihir M Bhalerao**, **Parag Chitnis** and **Om Margaj** under the guidance of **Prof Anulekha Dhara** was judged 'meritorious' in the **Mathematical Contest in Modeling (MCM)** 2014. The MCM is organized by the Consortium for Mathematics and its Applications (COMAP), a US-based non-profit organization.
- **Manish Chawla**, PhD student, has received **Fellowship from DST** for the workshop on Recent advances in Reinforcement Learning organized by National Mathematics Initiative and IIT Madras, Chennai, Mar 23 –28, 2015.
- **Manish Chawla**, PhD student, has received **Fellowship from DBT** for workshop on Computational Approaches to Memory and Plasticity organized by National Centre for Biological Sciences (NCBS), Bangalore, Jun 28 –Jul 12, 2014
- **Manish Chawla** received the **Santander In-**

ternational Summer School fellowship for doctoral students from Frontiers in Neuroeconomics organized by the University of Heidelberg & Santander, Germany, Apr 7 -17, 2014.

- **Ankita Arora** received the Springer Best Student Oral Presentation Award and cash prize of Rs 20,000 at the International Conference on Polymeric Biomaterials, Bioengineering and Biodiagnostics, New Delhi, Oct 27-30, 2014.
- **Veerabhadraiah Pakallolu** received the **Best Poster Award** for the poster at the 8th Asian Photochemistry Conference, Trivandrum, Nov 9-13, 2014.
- **S Chandrasekaran**, a PhD student of electrical engineering received **Posoco Power System Award** (PPSA-2015) for his doctoral research work. The award carries a citation and a cash prize of Rs 60,000.
- **Sneha N Ved** has been awarded the **Intel PhD fellowship** for the project proposed by **Dr Joycee Mekie** titled Asynchronous-synchronous on-chip communication (ASOCC) network design for low-power multi-core architectures.
- **German Water Partnership Award- India**, 2014 (2nd prize) was awarded to Reepal Shah (PhD student, Civil Engineering) at the 2nd India-German Water Partnership-day 2014, Kochi, Oct 6, 2014. He was awarded for outstanding results of applied research work or practical applications in the field of sustainable water resources management in India. He received a momento/certificate, cash prize of Rs 20,000 and all-expense paid trip to attend the meeting.
- **Manish Kumar** received the **Young Presenter Award** at Clostridium XIII (13th International Conference on the Genetics, Physiology and Synthetic Biology of Solvent and Acid-forming Clostridia), Sep 19-21, 2014, Shanghai, China.
- **Asha Liza James** (PhD student) won **Best Poster Award** at ICSM (International Conference on Soft Materials), Malaviya National Institute of Technology, Jaipur, Rajasthan, Oct 2014 for poster titled "Synthesis of nanosheets comprising boron honeycomb lattice: ultrasonication and chelation mediated strategies".

SPORTS NEWS

HALLA BOL 15

Halla-Bol, an all-night intra-college annual sports festival was organized from Mar 20-29, 2015. The games played with modified rules included Futsal, Tug of War, Frisbee, Touch Rugby, Foot Volley, Gully Cricket, 7 Stones, 3 a side Baddy, Basky, Dodge ball and Kho-Kho.

50TH INTER-IIT AQUATIC MEET

Animesh Kumawat won the silver medal in 200m back-stroke, bronze medals in 100m back-stroke, and 1500m freestyle at the **50th Inter-IIT Aquatic Meet** held during Oct 1-4, 2014 at IIT Bombay. Nisha Rawat won a silver medal in 50m breast-stroke and **Parth Sane** won bronze medals in 50m butterfly and 50m back-stroke.

50TH INTER-IIT SPORTS MEET

Taruna Yadav won a bronze medal in Shot Put (women) with a throw of 7.32m at the **50th Inter IIT Sports Meet** held from Dec 12-19, 2014 at IIT Bombay.

VIBES'14

The Basketball Men's team won the Championship Trophy at Nirma University Sports Festival by defeating Institute of Business Management (44-42), Apr 14, 2014. **Krishan Meena's** performance was outstanding in the finals. The performance of **Manoj Kumar**, **Sanjay Meena**, **Prince Singh** and **Ashish Anarse** was also commendable throughout the tournament.

INDIAN COLLEGE BASKETBALL LEAGUE

IIT Gandhinagar men's basketball team secured third position in the Challengers Indian College Basketball League (ICBL), Dec 8-10, 2014 in Ahmedabad. It was organized by the Basketball Federation of India (BFI) for college-teams across Gujarat.

KHELMAHAKUMBH

The boys' basketball team won the gold medal in Khel Mahakumbh tournament, Oct 13, 2014. The team members were each awarded a cash prize of Rs 4,000. Four players of the team: Krishan Meena, Manoj Kumar, Sanjay Meena and Prince Singh have been selected to represent the Gandhinagar district team in the state-level sports tournament of Gujarat. The girls' basketball team won a bronze medal in the tournament.

OTHER SPORTS EVENTS

The girls' volleyball team won a gold medal in Shaurya 14, the inter-college sports tournament conducted by IIM Ahmedabad on Oct 10-12, 2014.

The IITGN girls' badminton team comprising **Vaishanvi Patil** and **Swasti Medha** defeated PDPU to win the DAIICT Concurs-14 Singles & Doubles Championships.

PETROLEUM CUP 2015

Taruna Yadav won a gold medal in discus throw, silver medal in shot put and a bronze medal in javelin throw; **Aditya Shah** won a gold medal in triple jump; **Pradeep Diwakar** won a silver medal in discus throw and a bronze medal in shot put; and **Sampada Gharpure** won a silver medal in javelin throw at PDPU, Gandhinagar, Feb 5-6, 2015.

OTHER STUDENT ACTIVITIES

ONGC CAMBAY VISIT

Twenty five students from various disciplines visited the ONGC Cambay site along with Prof Rajagopalan Srinivasan and Prof Abhay Gautam, Mar 13, 2015. Students got an opportunity to witness activities conducted in ONGC and interact with senior ONGC officials. Additionally they also visited the Lunej Musuem, ONGC drill site and the ONGC Production Installation site and were exposed to direct use of technology and its implementation.

FIELD TRIP

A team consisting of **Prof Amit Prashant, Prof Ajanta Sachan, Mr Michel Danino, Mr R S Bisht, Prof V N Prabhakar, Prof Alok Kanungo, Silky Agrawal, Mantu Majumdar, Vinod V** and **Sandhya Mishra** visited Dholavira during Dec 5-6, 2014 to carry out a preliminary ground penetrating radar survey under the aegis of Archaeological Sciences Centre, IITGN in collaboration with Archaeological Survey of India.

ANNUAL SPORTS AWARDS FOR ACADEMIC SESSION 2013-2014

The following awards for the academic year 2013-14 were given in different categories on the basis of the performance of students.

Best Player of the Year (boys)
Animesh Kumawat

Best Upcoming Player of the Year (boys)
Aditya Shah

Best Player of the Year (girls)
Nisha Rawat

Best Upcoming Player of the Year (girls)
Srija Vaddineni

Best Player of the Year (faculty)
Naran Pindoriya

Best Player of the Year (staff)
Santosh Raut

Badminton Open (singles)
Ishan Upadhyay

Badminton Open (doubles)
Kanak Sharma and Pranshul Saini

Badminton Open Singles (girls)
Aishwarya Agarwal

Badminton Open Doubles (girls)
Aparna Arya and **Pratyusha Challa**

Table Tennis Open
Nikhil Sharma

STAFF ACTIVITIES

OTHER STAFF ACTIVITIES

22ND INTER-IIT SPORTS MEET

Ms Twinkle Patel received the Best Athlete Trophy (women) for winning three gold medals in 100m, 200m and long jump events at the 22nd Inter-IIT Staff Sports Meet, Dec 22-26, 2014. She set a new Inter-IIT record in long jump and 200m race. **Ms Laxmi Hirani** won silver medals in shot-put and 100m race. IITGN bagged the Athletics Championship Trophy (women) for outstanding overall performance.

OTHER STAFF ACTIVITIES

ORIENTATION PROGRAMME

A one-day orientation programme for the non-teaching staff of the Institute was organized on Sept 6, 2014. The objective of the programme was to apprise the staff with the IIT system and the new face of administration. The program was conducted by **Shri D K Ghosh**, former registrar of IIT Bombay. The emphasis was on understanding the IIT culture and delivery of timely and quality support service.

PEER REVIEW

IIT Gandhinagar attaches utmost importance to excellence in performance of all its employees. To ensure excellence, performances of employees need regular peer-review. Accordingly, a process has been initiated by the institute to peer-review the performances of its ministerial staff, especially the officers. The first peer-review was carried out on Sep 19-20, 2014 by an expert committee consisting of prominent administrators of academic institutes. After review, the employees were briefed about the improvements required in the specific areas.

SHORT TERM TRAINING PROGRAM (STTP)

A short-term training program on Implementation Power Electronic Systems, was conducted by SVNIT and hands-on practice sessions were conducted by experts of PSIM software and PG students at SVNIT, Surat for 5 days from Dec 29, 2014 - Jan 2, 2015. **Mr Ankur Navdiwala** and **Ms Palak Bagiya**, both junior laboratory assistants of the Electrical Engineering discipline, attended the 5-day program. The training helped participants to strengthen their basics and enhance their practical knowledge in power electronics.

FACULTY & STAFF PICNIC

A picnic was held on Nov 16, 2014 at the Gujarat Forest Research and Training Institute, Gandhinagar. Nearly 100 people, including faculty, staff and their family members turned out for the picnic. There were a wide variety of very enjoyable outdoor and indoor activities for both children and adults were organized by the co-ordinators **Prof Madhumita Sengupta, Prof Chandrakumar Appayee** and **Prof Harish P M.**

EXCELLENCE AWARDS TO STAFF

Excellence Award for non-teaching staff for the year 2014 were conferred on **Ms K Naga Mouli**, executive officer; **Mr Shreejit B Menon**, junior superintendent; **Mr Rohitkumar B Chaudhary**, junior technical superintendent; **Mr Sanjaykumar K Kachiya**, junior laboratory assistant; **Mr Dineshji S Thakor**, office attendant; and **Mr Upendrabhai J Chauhan**, guest house attendant. Through these awards the Institute formally recognizes the sustained devotion and exemplary service of its employees.


Ms Mouli


Mr Shreejit


Mr Rohitkumar


Mr Sanjaykumar


Mr Dineshji


Mr Upendrabhai

EXTERNAL RELATIONS

USAID SUPPORT

A Joint Declaration of Intent was signed on Jan 23, 2015, ahead of President Obama's India visit, between the Ministry of Human Resource Development (MHRD) and the United States Agency for International Development (USAID) for providing support to Indian Institutes of Technology. The declaration calls for intensifying collaborations in Research and Development (R&D) and entrepreneurship and identifies IIT Gandhinagar as the initial IIT for support. A team of three USAID representatives, comprising Mr Mitch Kirby, senior education advisor; Dr Sheila E Desai, India senior science and technology advisor; and Dr Eric M Johnson, senior research economist with RTI International, visited IITGN on Feb 10, 2015 to assess institutional needs and discuss strategies with senior IITGN administrators. Their discussions covered a wide range of possible areas of support including strengthening research capabilities, student and faculty exchanges, leadership development, networking, communication strategies, and entrepreneurship.

INDUSTRY OUTREACH

INDUSTRY PARTNERSHIP RETREAT

As a part of IIT Gandhinagar's plan to expand and scale-up its engagement and communication with industry a **Industry Partnership Retreat** held on May 9, 2014.30 leading industrialists **Shri Aamir Akhtar**, CEO - Lifestyle fabric - Denim, Arvind Ltd, Ahmedabad; **Shri Vimal Ambani**, managing director, Tower Overseas Ltd, Ahmedabad; **Shri Partho Ghose**, executive vice president, Business Development, KHS Machinary Pvt Ltd, Ahmedabad; **Shri D K Gupta**, executive vice president, Larsen & Toubro Limited, Mumbai; **Shri Kel Kearns**, director Manufacturing, Ford India, Sanand; **Shri Piyush Mathur**, president, Indian Operations, Nielsen India; **Shri K Sridhar**, managing director, Ricoh Innovations Pvt Ltd, Bangalore; and **Prof Mahesh Tandon**, managing director, Tandon Consultants Pvt Ltd, New Delhi; attended to discuss ways to strengthen industry-academia relationship.

INDUSTRY OPEN HOUSE

Delegates from more than 50 industries from all over India explored opportunities to partner with IIT Gandhinagar at the Institute's first **Industry Open House** on Aug 23, 2014. The event is a part of IITGN's plan to expand and scale-up its engagement and communication with industry. IITGN director Prof Sudhir K Jain said, "IITGN values its engagement with the industry. We have several strong, ongoing partnerships with several companies, such as Underwriters Laboratories (UL), Ricoh Japan and Nielsen. The Industry Open House aims to build on this engagement and open up new ideas and opportunities." The event showcased IITGN's expertise, infrastructure and capabilities through presentations, posters, laboratory and library visits, idea pitches, and instrumentation and product demonstrations. Leading Indian industries, such as Maruti Suzuki; Cadila Pharmaceuticals; TVS; Reliance Industries; Smart Grid Torrent; Adani; TCS; IBM and Hospira, as well as several academic and research Institutes, including the Institute for Plasma Research (IPR); Mudra Institute of Communications Ahmedabad (MICA); Centre for Environmental Planning and Technology University(CEPT); and Physical Research Laboratory (PRL), participated in the event.

IITGN TEAMS UP WITH SPACE APPLICATIONS CENTRE (SAC)

IITGN has teamed up with the Space Applications Centre (SAC) of Indian Space Research Organisation (ISRO) for research collaboration in the areas of electronics, signal and image processing, and electro-optical systems modeling. The director of IITGN **Prof Sudhir K Jain** and the director of SAC **Shri A S Kiran Kumar** signed a Memorandum of Understanding (MoU) on May 26, 2014 at SAC to promote active collaboration between the two Institutes. Under the MoU, IITGN students will undertake research internships at SAC on joint research projects of common interest to IITGN and SAC. In turn, IITGN will host scientists from SAC who wish to engage in teaching and research, and those interested in pursuing a higher degree.

PARTICIPATION IN VIBRANT GUJARAT

IIT Gandhinagar participated in the Vibrant Gujarat Summit in Gandhinagar between Jan 7-13, 2015 by setting up stalls in the educational pavilion and the MHRD pavilion. The stall in educational pavilion focused on the various academic programs at the IITGN and the primary themes governing them such as emphasis on student experience, innovation in curriculum, industry and community outreach and integration of research. The stall in the MHRD pavilion showcased the Institute's research programs and prototypes developed by students and faculty. It was also an opportunity for our entrepreneurs to showcase their products. The start-up TinkerTank showcased the agarbatti-making machine and 4Dea showcased the virtual tour of the IITGN campus. Participation in this exhibition gave IIT Gandhinagar an opportunity to increase its visibility among the thousands of local and international participants visiting the stalls.

INDIA-US TECHNOLOGY SUMMIT AND KNOWLEDGE EXPO

IIT Gandhinagar participated in the India-US Technology Summit and Knowledge Expo in Greater Noida as part of the IIT Pavilion from Nov 18-22, 2014.

REACHING OUT

- **Prof Achal Mehra** participated in the University Partners meeting of Underwriters Laboratories Inc in Chicago from May 5-8, 2014. Prof Mehra also delivered a presentation on **Internationalisation at IIT Gandhinagar** at the Pan-IIT Conference in Toronto, Canada, from Jun 6-8, 2014 and visited several Canadian universities, including University of Toronto, McMaster University and the University of Waterloo.

- **Dr Baldev Raj**, chairman of the Board of Governors and **Prof Sudhir K Jain**, director attended a day-long Conference of Chairmen of Boards of Governor and Directors of IITs at Rashtrapati Bhawan, New Delhi, Aug 22, 2014. President Pranab Mukherjee and Prime Minister Narendra Modi were lead speakers at the conference.

- **Prof Sudhir K Jain** attended the **10th US National Conference on Earthquake Engineering** from Jul 21-25, 2014, and chaired the **Executive Committee meeting of International Association for Earthquake Engineering,** in Anchorage, Alaska. He took this opportunity to visit well-wishers and friends of the Institute in Tampa (Florida), Los Angeles, Seattle and San Francisco. During Aug 11-14, 2014 he visited four universities in Singapore.

- **Prof Amit Prashant** visited institutes in Arizona and California, USA for research collaborations, Jul 5-19, 2014. Prof Prashant also visited West Coast USA, and the Canada with Government of Gujarat delegation and University of Tennessee, USA, Aug 20-Sep 7, 2014.

- **Prof Sudhir K Jain**, **Prof Achal Mehra** and **Prof Pratyush Dayal** visited IITGN well-wishers and friends in California, New York, Washington DC, and Boston, Oct 2-13, 2014. They attended a seminar on "Meeting the 21st Century Challenges in Technology Education" in Santa Clara, on Oct 4, 2014 organized by IIT Gandhinagar Foundation, in association with alumni of the IITs, IIMs, IISc and BITS. Prof Jain, Prof Satish Tripathi, president of SUNY Buffalo and Vivek Wadhwa, fellow, Duke University participated in the panel moderated by Dr Prabhu Goel, technologist & developer. Prof Jain and Prof Dayal attended the Young Investigator Meet 2014 in Boston, USA, Oct 11-13, 2014. Prof Mehra visited Tampa, Florida for development initiatives, Oct 1-2, 2014.

- Prof Jain gave an inaugural lecture on the "Making of a University" lecture series at IIT Kanpur, Nov 27, 2014. Prof Jain also gave a talk "Opportunities and challenges of building a world class IIT from the ground up: The IIT Gandhinagar Story" at IISc Bangalore, Dec 23, 2014.

- **Prof Sudhir K Jain, Prof Amit Prashant** and **Prof Kabeer Jasuja** visited the Japan Advanced Institute of Science and Technology (JAIST) in March 2015 to discuss collaboration possible between IITGN and JAIST.

IITGN has been continually building relationships with organizations and individuals both in India and abroad, to support its varied activities and help the Institute grow and it signed the following Memorandum of understanding in 2014-15.

INTERNATIONAL MoUs

Organization/Institution	Objective
A major gift to IIT Gandhinagar by Dr Kiran C Patel, USA	For supporting excellence, in the area of sustainability
Centre for Chemical Process Safety, AIChE New York, USA	Project for harmonization and cross referencing of safety and process safety standards
Confucius Institute Headquarters (HANBAN), China	To send Chinese language teachers to IITGN in its effort to support Chinese language education programs at IITGN
Consortium of Finnish Higher Education Institutions, Finland	To encourage direct contact and co-operation between faculty and staff, departments and research institutions
EUNICER - Eurasian University Network for the International Cooperation on Environmental Risks & Sapienza University of Rome, Italy & Hunan University, Changsha, P R China	Shared responsibilities in undertaking the action funded by the education, audio-visual and cultural executive agency
ISCTE-University Institute of Lisbon (ISCTE-IUL), Lisbon, Portugal	Association for improving scope for Masters degrees in cognitive sciences by IITGN and complexity sciences by ISCTE-IUL
Memorial University of Newfoundland Newfoundland and Labrador, Canada	Collaboration on academic and research activities
Srinakharinwirot University, Bangkok, Kingdom of Thailand	To develop relations between the two institutions in international education, research, service and other related activities
California Institute of Technology (Caltech) Pasadena, California, USA	Undergraduate student exchange programme

NATIONAL MoUs

Organization/Institution	Objective
Archaeological Survey of India (ASI), New Delhi	Documentation, sampling, testing, interpretation of archaeological samples from Dholavira
Delhi Mumbai Industrial Corridor Development Corporation (DMICDC), New Delhi	To ensure a mutually beneficial relationship between DMICDC and the IITs so as to bring in the academic expertise available with the IITs
Gujarat Institute of Development Research (GIDR), Ahmedabad	To administer and manage large scale household surveys
Institute of Infrastructure, Technology, Research and Management (IITRAM), Ahmedabad	To assist in curriculum and laboratory development, and in faculty recruitments
M/s EdGate Technologies Private Limited, University Program partner of Texas Instruments, Bangalore	For analog attach lab and analog lab setup at IIT Gandhinagar
National Remote Sensing Centre, ISRO, Hyderabad	To carry out river basin scale hydrological investigation and characterization using variable infiltration capacity model
Space Applications Centre, ISRO, Department of Space, Government of India, Ahmedabad	For IRNSS Navigation receiver field trial and data collection
Tata Consultancy Services Limited	For intensifying academic cooperation

SUMMER AND WINTER INTERNSHIPS IN 2014

FOREIGN INSTITUTIONS

Host Institution	Student Name	Discipline
California Institute of Technology (Caltech), Pasadena, CA, USA	Aalok Gangopadhyay, Nishant N Rao, Shivam Mani Tripathi	Electrical Engineering
	Prathamesh Ganesh Bhat, Rounak Mehta, Aashrith K S	Mechanical Engineering
Case Western Reserve University, OH, USA	Ajinkya Tupkar Jain	Electrical Engineering
Cisco Systems, USA	Ravi Kumar	Electrical Engineering
Clemson University, SC, USA	Rajesh Patidar	Mechanical Engineering
Columbia University, NY, USA	Sudiksha Sridhar	Chemical Engineering
	Apoorv Patwardhan	Electrical Engineering
DAAD Wise Programme, Technische Universität München, Germany	Raj Shah	Electrical Engineering
Duke University, NC, USA	Durvesh Shinde, Ishan Upadhyaya	Electrical Engineering
Ecole Nationale Superieure d'Arts et Netiers, Paris, France	Abhishek Navarkar	Mechanical Engineering
EPIR Technologies, Bolingbrook, IL, USA	Akshay Goyal	Electrical Engineering
	Abhay C A	Mechanical Engineering
Institute of Chemical & Engineering Sciences, Singapore	Rizu Khanwilkar	Electrical Engineering
	Ayush Choudhary	Mechanical Engineering
ISCTE, Lisbon University, Lisbon	Anshul Gupta	Mechanical Engineering
National University of Singapore, Singapore	Pamarthi Chandra Kanth, Thrinath Reddy	Electrical Engineering
	Soham Harshe, Vadera Meet Prakashbhai, Milan Singh, Sachit Vekaria	Mechanical Engineering

Host Institution	Student Name	Discipline
Rajeev Circle Fellowship for Entrepreneurs, CA, USA	Eepsit Tiwari	Mechanical Engineering
Singapore University of Technology & Design, Singapore	Prateek Baldwa, Ashish Kumar Gupta, Salecha Kushal	Electrical Engineering
Technion - Israel Institute of Technology, HAIFA, Israel	Dave Ujash Rameshwar	Electrical Engineering
	Karma Patel, Akash Keshav Singh, Dhyey Shah	Mechanical Engineering
Texas A & M University, TX, USA	Sukriti Gakhar, Aditya Samant, Tushti Shah	Chemical Engineering
	Madan Janardan Taldevkar	Mechanical Engineering
Underwriters Laboratories, Chicago, USA	Wagh Vidyanand Girish, Manjot Singh	Chemical Engineering
	CH Suryavinay Koundinya	Electrical Engineering
	Sanjit Jena, Shubham Pachori, Rakesh Ranjan, Vaichal Saurabh Sandeep	Mechanical Engineering
Universiti Teknologi Petronas, Malaysia	Akash	Mechanical Engineering
University of California Merced, CA, USA	B Manasa	Mechanical Engineering
University of Notre Dame, IN, USA	Mayank Shekhar	Mechanical Engineering
University of Saskatchewan, Saskatoon, Canada	Rahul Khandait, Shaurya Seth	Chemical Engineering
	Prashant Verma	Electrical Engineering
	Shreyans Nahar	Mechanical Engineering
University of Southern California, USA, Viterbi-India Programme	Vaibhav Gandhi	Electrical Engineering
University of Washington, WA, USA	Sahil Mehta, Joy Narang, Akshay Randad	Mechanical Engineering
Washington University, St Louis, Missouri, USA	Monish Bhangale	Chemical Engineering
	Gaurav Mahamuni	Mechanical Engineering

DOMESTIC INSTITUTIONS

Host Institution	Student Name	Discipline
A-Ray Systems Pvt Ltd	Devendra Meena	Mechanical Engineering
Aasaan Jobs	Ajay Devedwal, M Surya	Mechanical Engineering
Asea Brown Boveri Ltd	B Shanmukha Manoj	Chemical Engineering
Automation Teknix	Kimaya Uday Kale	Electrical Engineering
Bharat Sanchar Nigam Ltd	Himanshu Yadav	Electrical Engineering
Bhilai Steel Plant	Rocky Dongre	Mechanical Engineering
Bosch	Nandan Paresh Vora	Chemical Engineering
CD-adapco	Tsravan Kumar	Chemical Engineering
	Ronak Khandelwal, Sai Teja Pachipulusu	Mechanical Engineering
Ecolibrium Energy Pvt Ltd	Preet Shah	Electrical Engineering
Educational Initiatives	Shah Sanket Viren	Mechanical Engineering
Fluidyn	Dhruv Pancholi	Chemical Engineering
General Electric Foundation	P V S Anurag	Mechanical Engineering
Hero MotoCorp Ltd	Rahul Harnotia	Mechanical Engineering
Hindustan Aeronautics Ltd	Rajat Shiv Chand	Mechanical Engineering
Indian Institute of Science Bangalore	Reddy Dwarakanath, Ayushi Patel	Chemical Engineering
	Pranshul Saini	Mechanical Engineering
Indian Institute of Technology Bombay	Sanchayni Bagade	Chemical Engineering
	Tushar Anchan, Patil Radhika Pramod	Mechanical Engineering
Indian Institute of Technology Gandhinagar	Palkar Vaibhav Abhay, Mihika Shah, Nishit Shetty	Chemical Engineering
	Gullapally Sai Chowdary, Gaurav Gupta, Chitranshu Kumar, Somani Dipen Omprakash, Shrikant Patel, Rohan Patidar, Malireddi Sri Raghu, Mukesh Singh Rawat, Alok Singh, Abhishek Soni	Electrical Engineering
	Nirmal Jayaprasad, Mahesh Kumar, Ramesh Kumar, Karan Palaskar, Rahul Kumar Pandey, Lalit Prajapat, Gaurav Sharma, Yash Pratap Singh, Konduru Venkata Naga Sai Ravi Teja, Margaj Om Vijay, Vishal Yadav	Mechanical Engineering

Host Institution	Student Name	Discipline
Indian Institute of Technology Kanpur	Adappa Ashray Amarnath, Prashant Shekhar	Chemical Engineering
	Byrapuram Venkata Vijaya Bharath R	Electrical Engineering
	Koushik Mani, Shashank Nigam, Pardeep Phullay, Muzammil Rawoot, Ritwik Shukla	Mechanical Engineering
Indian Institute of Technology Madras	K Abhishek, Sunil Sahra	Chemical Engineering
Indian Oil Corporation Ltd	Sagar Chawla	Chemical Engineering
Ishi Information Systems India Pvt Ltd	Ashwin Dalvi	Electrical Engineering
Jyoti Ltd	Mihir Milind Bhalerao	Mechanical Engineering
Kota Thermal Power Plant Station	Vishvendra Singh	Mechanical Engineering
Maruti Suzuki India Pvt Ltd	Aryan, Utsav Mistry, Utkarsh Panchbhai	Mechanical Engineering
National Thermal Power Corporation Ltd	Sanjay Kumar Meena	Electrical Engineering
	Pradeep Kumar	Mechanical Engineering
Oil & Natural Gas Corporation Ltd	Hema Choudhary, Sweta Parmar, Vinod Rangi, Palak Sadani	Chemical Engineering
	Krishan Kumar Meena, Divyansh Tripathi	Mechanical Engineering
Olam International Ltd	G N Lakshminarasimhan	Mechanical Engineering
Pravah (NGO)	Lavdeep Kaur	Chemical Engineering
Rakshak Foundation (NGO)	Raj Shekhar	Electrical Engineering
Reliance Industries Ltd	Abhishek Sancheti	Chemical Engineering
Ricoh Innovations Pvt Ltd	Pankaj Gautam	Electrical Engineering
	Shisode Sushil Kumar	
Sai Impex	Hydarali M T	Mechanical Engineering
Sandvik Asia Pvt Ltd	Dilip Kumar Badgurjar	Chemical Engineering
	Chetan Kumar Choudhary, Manoj Kumar	Electrical Engineering
Sarvajal	Anoop Pinjala	Chemical Engineering

Host Institution	Student Name	Discipline
Satluj Jal Vidyut Nigam Ltd	Deep Rahul	Electrical Engineering
Schneider Electric India Pvt Ltd	Rajat Chaudhary	Electrical Engineering
Semi-Conductor Lab, Department of Space, Government of India	Ankita Sharma	Mechanical Engineering
SM Auto Stamping Pvt Ltd	Saurabh Singhal	Mechanical Engineering
Space Application Centre, ISRO	Naman Bansal, Prashant Kumar, Abhishek Ranjan, Mehta Yash Sanjay, Jatindeep Singh	Electrical Engineering
	Bhargav Chauhan	Mechanical Engineering
Tata Motors Ltd	Kamanuru Vamsidhar Reddy, Abhishek Singh	Electrical Engineering
	Hiralal	Mechanical Engineering
Tata Power Ltd	P Sandeep Reddy	Electrical Engineering
	Vivek Prakash	Mechanical Engineering
Texas Instruments	Parth Gudhka, Mishita Jaiswal, Heda Shashank Kamlesh	Electrical Engineering
Underwriters Laboratory India Pvt Ltd	Virendra Singh Panwar	Chemical Engineering
	Vaibhav Mathur	Electrical Engineering
	Sujit Dunga	Mechanical Engineering
UVSofts Technologies Pvt Ltd	Latika Meena	Electrical Engineering
Vehicle Factory Jabalpur	Nikita Patta	Mechanical Engineering
Wipro Ltd	Vinit Joshi	Electrical Engineering

CLASS OF 2014

GRADUATES PURSUING HIGHER STUDIES ABROAD-IN INDIA

Name	Institute	Programme	Discipline at IITGN
MTech			
Amita Bedar	IIT Bombay - Monash Academy	PhD	Chemical
Ritesh Jain	Bergische University, Wuppertal, Germany	MTech	Electrical
Laya	IIT Gandhinagar	PhD	Electrical
Satyajit Mohapatra	IIT Gandhinagar	PhD	Electrical
Sreejith R	IIT Delhi	PhD	Electrical
Roshan Anandrao Chavan	IIT Gandhinagar	PhD	Mechanical
Rachit Prasad	Virginia Tech	PhD	Mechanical
Rohit Mishra	IIT Gandhinagar	PhD	Materials Science & Engineering
P Raja Mohan Reddy	IIT Gandhinagar	PhD	Civil
BTech			
Pranav Bagaria	Texas A & M University	PhD	Chemical
Durgesh Bagri	Hindu College, University of Delhi	MA	Chemical
Bhaskarjyoti Das	NID Ahmedabad	MDes	Chemical
Akshay Jain	Texas A & M University	PhD	Chemical
Mayank Jhalaria	Cornell University	MS	Chemical
Rohan Kokane	IIM Lucknow	PGP	Chemical
Sanket Mahajan	IIM Calcutta	PGP	Chemical
Smit Shah	Texas A & M University	PhD	Chemical
Pamulapati Sushma Sri	Rice University	PhD	Chemical
Aishwarya Agrawal	Virginia Tech	PhD	Electrical

Name	Institute	Programme	Discipline at IITGN
Akash Bapat	The University of North Carolina, Chapel Hill	MS and PhD	Electrical
Yash Goyal	Virginia Tech	PhD	Electrical
Ameya Joshi	Stanford University	MS	Electrical
Snigdha Manogyna	IIM Ahmedabad	PGP	Electrical
Kartik Saxena	University of California, Irvine	MS	Electrical
Smit Soni	University of California, Irvine	MS	Electrical
Balaji Venkatesh	University of California, Irvine	MS	Electrical
Spandan J Das	Cornell University	MEngg	Mechanical
Ritu Gavasane	IIM Calcutta	PGP	Mechanical
Deep Karpe	University of Florida	MS	Mechanical
Saksham Kohli	IIM Lucknow	PGP	Mechanical
Nihar Kotak	Carnegie Mellon University	MS	Mechanical
Bhavya Madasu	IIT Madras	MTech	Mechanical
Nakul Nuwal	Purdue University	MS	Mechanical
Ankita Sharma	IIM Ahmedabad	PGP	Mechanical
Dhwanil Shukla	Georgia Institute of Technology	PhD	Mechanical

SUPPORT FOR THE INSTITUTE

INDUSTRY SUPPORT

MAJOR NEW DONORS

DONORS LIST

IITGN FOUNDATION APPOINTS EXECUTIVE DIRECTOR

IITGN has developed strategic partnerships with leading universities, industries and R&D organizations abroad for student and faculty exchanges and research collaborations. Several partnerships forged in the last year will benefit the students and the faculty.

INDUSTRY SUPPORT

MAJOR UL GRANT FOR SAFETY CENTRE

IIT Gandhinagar has received a five-year grant from the Underwriters Laboratories Inc (UL) to develop safety initiatives at the Institute. The grant supports undergraduate and post-graduate research projects for students of IIT Gandhinagar. IITGN will also use the grant to set up a fire engineering laboratory and other safety research and education initiatives. **Underwriters Laboratories Inc (UL)**, USA is a not-for-profit product safety testing and certification organization. Under the five-year grant, IITGN will collaborate with UL on major safety initiatives.

RICOH COMPANY, LTD

Ricoh Company Ltd, has given a major grant to IIT Gandhinagar for the establishment of a Centre for Design and Innovation at the Institute. The grant is used by the Institute for curriculum development, student projects, organisation of meetings and conferences and academic and industrial collaborations in the areas of design and innovation. Headquartered in Tokyo, Ricoh is a global technology company specializing in office imaging equipment, production print solutions, document management systems and IT services.

GMDC CHAIR

Gujarat Mineral Development Corporation Ltd (GMDC), a 50-year-old company with primary interests in minerals, lignite and energy has set up a GMDC Chair at IITGN in the areas of materials, minerals, metallurgical engineering and earth sciences. The GMDC Chair will enable the Institute to provide additional financial support to outstanding faculty and students.

NIELSEN GRANT FOR INTERNATIONALISATION

The Nielsen company has been providing significant to support for internationalisation programmes at IITGN. Nielsen Holdings NV (NYSE: NLSN) is a global information and measurement company with leading market positions in marketing and consumer information, television and other media measurement, online intelligence, mobile measurement, trade shows and related properties. Nielsen has a presence in approximately 100 countries, with headquarters.

MAJOR NEW DONORS

DR KIRAN PATEL

Dr Kiran C Patel, a cardiologist based in Tampa (Florida), has made significant financial contribution to IITGN to support research activities in the area of sustainable development. Dr Patel is the chairman of the Patel Foundation for Global Understanding, a non-profit organisation that develops and funds a wide variety of programs in health, education, arts and culture. He has provided generous help in developing and funding a variety of programs in these areas, both locally and around the world. His support enabled the creation of the Dr Kiran C Patel College of Global Sustainability, in University of South Florida. He has served as chairman of the American Association of Physicians of Indian Origin (AAPI), a professional organisation representing over 40,000 physicians. In 2003, Dr Patel was appointed to the University of South Florida Board Of Trustees by Florida's governor. In 2004, Dr Patel was awarded the Cultural Contributor of the Year Award by the Greater Tampa Chamber of Commerce. He earned his MBBS in Medicine from Smt N H L Municipal Medical College, Ahmedabad and completed his Cardiology Fellowship from a Columbia University affiliated program.

DR PRABHAKAR GOEL

Dr Prabhakar Goel has joined the growing list of significant benefactors of the Institute. His donation will enable the Institute to recruit outstanding faculty and international visitors. Dr Goel holds a BS degree from IIT Kanpur (1970) and a PhD in electrical engineering from Carnegie Mellon University (1974). Dr Goel held positions in engineering and technical management with IBM and Wang Laboratories. In 1990 Dr Goel was recognized as **Entrepreneur of the Year** for New England by Inc magazine and Ernst Young. Since 1992 Dr Goel has been a private venture capitalist involved with several companies. He currently serves on the boards of Inside Vault Inc and FusionOps Inc. Dr Goel is an active philanthropist and has supported many organizations with his contributions, most notably the **Foundation for Excellence** which he founded in 1994. FFE has funded over 13,000 students in India at the college level. Dr Goel is also a founding member of The Indus Entrepreneur (TiE), which provides a forum for networking and promotes entrepreneurship among members of the Indus region communities.

NARENDRA KUMAR JAIN CHAIR

Mr Atul Jain, chairman and CEO of TEOCO, has made a major contribution to support IITGN. His donation will be utilized to create the **Narendra Kumar Jain Chair** at the Institute in honour of his father. Mr Jain founded TEOCO in 1994 with the idea of principled entrepreneurship and employee ownership. TEOCO focuses on business ethics, with a particular emphasis on its core values of alignment with employees, clients and community. Today, TEOCO is a leading global organisation with operations in six continents providing cost, routing, revenue and network management solutions to top communications service providers worldwide.

DONORS LIST

Name	Category	City
MORE THAN RS 1 CRORE		
Dr Kiran C Patel	well-wisher	Tampa, USA
RS 5,00,000 - RS 24,99,999		
Anonymous	well-wisher	USA
Silicon Valley Community Foundation	well-wisher	Stanford, USA
Prabhakar Goel	well-wisher	Fremont, USA
Atul Jain	well-wisher	Vienna, USA
Arvind Jain	well-wisher	Pleasanton, USA
Anjali Joshi	well-wisher	Los Altos Hills
Avi Nash & Sandra Nash	well-wisher	Greenwich, USA
RS 1,00,000 - RS 4,99,999		
Sudhir K Jain	faculty	Ahmedabad
Amrutur Anilkumar	well-wisher	Tennessee, USA
Durga Bearings Mumbai Pvt Ltd	well-wisher	Mumbai
Ruyintan Mehta & Dr Monica Mehta	well-wisher	Watchung, USA
Vegesna S Raju	well-wisher	Hyderabad
RS 25,000 - RS 99,999		
S P Mehrotra	faculty	Ahmedabad
D V Pai	faculty	Ahmedabad
D P Roy	faculty	Ahmedabad
Deepak Bhagat	well-wisher	Fremont, USA
Neotia Foundation	well-wisher	Kolkata
Sant Das Gupta	well-wisher	Lorton, USA
Rajen Jaswa	well-wisher	Saratoga, USA
Achal Mehra	well-wisher	Torrington, USA
Gaurav Sant	well-wisher	Los Angeles, USA
Shyam Sunder & Manjula Shyam	well-wisher	New Haven, USA
Nitish Thakor	well-wisher	Clarksville, USA
RS 5,000 - RS 24,999		
Tanmay Balwa	alumnus	San Francisco, USA

Name	Category	City
Andrea Babbio	faculty	Ahmedabad
Atul Bhargav	faculty	Ahmedabad
Arup Lal Chakraborty	faculty	Ahmedabad
Michel Danino	faculty	Ahmedabad
Sriram K Gundimeda	faculty	Ahmedabad
Mohan C Joshi	faculty	Ahmedabad
Sharmistha Majumdar	faculty	Ahmedabad
Nihar Ranjan Mohapatra	faculty	Ahmedabad
S L Narayanamurthy	faculty	Bangalore
N Ramakrishnan	faculty	Ahmedabad
Arnapurna Rath	faculty	Ahmedabad
Srinivas G Reddy	faculty	Ahmedabad
R Sharan	faculty	Ahmedabad
Sudhanshu Sharma	faculty	Ahmedabad
Meera Mary Sunny	faculty	Ahmedabad
Siddharth V Wakankar	faculty	Ahmedabad
Prem Kumar Chopra	staff	Ahmedabad
Meena Joshi	staff	Ahmedabad
T S Kumbar	staff	Ahmedabad
Pijush Majumdar	staff	Ahmedabad
Sunita Menon	staff	Ahmedabad
R T Shah	staff	Gandhinagar
C S Sharma	staff	Ahmedabad
Sonam Srivastava	staff	Noida
Anonymous	well-wisher	
Abhay Bhushan	well-wisher	Palo Alto, USA
Dipan Kumar Ghosh	well-wisher	Mumbai
Timothy Huff	well-wisher	Nashville, USA
Penram International	well-wisher	USA
Paul Jennings	well-wisher	Pasadena, USA
Ashok Jhunjhunwala	well-wisher	Chennai
Rachelle Kucera Mehra	well-wisher	Torrington, USA
Kamal Nanavaty	well-wisher	Mumbai
K R Padiyar	well-wisher	Bangalore
Samir Raiyani	well-wisher	Fremont, USA
Partha Sarkar	well-wisher	Ames, USA

Name	Category	City
Institute of Industrial Sciences	well-wisher	Allahabad
P Chandra Shekhar	well-wisher	Mumbai
Abhishek Singhal	well-wisher	USA
Balkrishna Soneji	well-wisher	Ahmedabad
V P Technologies	well-wisher	Atlanta, USA

UPTO RS 4,999		
Patil Atharva Abhay	alumnus	Kolhapur
Shubham Agarwal	alumnus	Bangalore
Shashank Agarwal	alumnus	Agra
Aishwarya Agrawal	alumnus	Korba
Shah Smit Alkesh	alumnus	Vadodara
Pranav Bagaria	alumnus	Korba
Amita Bedar	alumnus	Sivpuri
Neelesh Bhandari	alumnus	Bhopal
Adit Bhardwaj	alumnus	Jaipur
Shubham Bhargav	alumnus	Jind
Hariomlaxminarayan Bhargava	alumnus	Dhar
Ashita Chandnani	alumnus	Bikaner
Vora Ajay Chandubhai	alumnus	Rajkot
Pavanagundla Raghavendra Chary	alumnus	Nalgonda
Suresh Kumar Choudhary	alumnus	Jalore
Spandan Jyoti Das	alumnus	Guwahati
Bhaskarjyoti Das	alumnus	Chirang
Soni Smit Dilipbhai	alumnus	Savli
Patel Prashant Dineshbhai	alumnus	Mumbai
Kohli Saksham Dineshkumar	alumnus	Pune
Vinay Dwivedi	alumnus	Durg
Mangesh Popatrao Gangarde	alumnus	Ahmednagar
Sanjay Kumar Gill	alumnus	Jhunjhunu
Karpe Deep Girish	alumnus	Mumbai
Yash Goyal	alumnus	Agra
Adit Gupta	alumnus	Mumbai
Nuthalapati Sri Harsha	alumnus	Guntur
Deshmukh Sumit Hemant	alumnus	Thane
Akanksha Jagwani	alumnus	Burhar

Name	Category	City
Akshay Jain	alumnus	Indore
Nishank Jain	alumnus	Mumbai
Ritesh Jain	alumnus	New Delhi
Sherry Jain	alumnus	Ahmedabad
Mayank K Jhalaria	alumnus	Mumbai
Gagan Kanojia	alumnus	Gwalior
Rohan Sambhaji Kokane	alumnus	Pune
Tejaswi Kota	alumnus	Guntur
Yash Prashant Kotak	alumnus	Vadodara
Manne Sri Sudhamsu Krishna	alumnus	New Delhi
Aryan Kumar	alumnus	Bihar Sharif
Dasari Yashwanth Kumar	alumnus	Visakhapatnam
Gourav Kumar	alumnus	Purnea
Bhavya Madasu	alumnus	Bellampalli
Akshay Mall	alumnus	Ghaziabad
Navneet Meena	alumnus	Karauli
Sushrut Pramod Meshram	alumnus	Nagpur
Gavasane Ritu Milind	alumnus	Pune
Utkal Ranjan Muduli	alumnus	Bhubaneswar
Sunil Nair	alumnus	Ajmer
Arun Gopalakrishnan Nair	alumnus	Kochi
Shah Nisarg Nikhil	alumnus	Mumbai
Nakul Nuwal	alumnus	Bhilwara
Prateek Nyati	alumnus	Chittorgarh
Chetan Chandrakant Patil	alumnus	Thane
Rachit Prasad	alumnus	Ahmedabad
Kotak Yash Prashant	alumnus	Vadodara
Sreejith R	alumnus	Palakkad
Shah Jinesh Rajesh	alumnus	Mumbai
Shaliwahan Singh Rathore	alumnus	Kota
Hoosein Safdari	alumnus	Indore
Amit Sahu	alumnus	Hoshangabad
Achari Sandesh Sanjay	alumnus	Pune
Sanjay Saroj	alumnus	Navi Mumbai
Kartik Saxena	alumnus	Mumbai

Name	Category	City
Bansude Shubhangi Shamsundar	alumnus	Osmanabad
Arjita Sharma	alumnus	Ahmedabad
Himanshu Sharma	alumnus	Indore
Pratyush Shastri	alumnus	Bhilai
Dhwanil Shukla	alumnus	Ahmedabad
Tarkeshwar Singh	alumnus	Kolkata
Patel Tanay Somnath	alumnus	Valsad
Ankit Suchanti	alumnus	Bangalore
Prerit Terway	alumnus	Ahmedabad
Avinash N Tumkur	alumnus	Mumbai
Shashank Tyagi	alumnus	Meerut
Naveen Deepak V	alumnus	Karimnagar
Rohith Varier	alumnus	Hyderabad
M J Balaji Venkatesh	alumnus	Chennai
Chopra Deepti Vijay	alumnus	Ahmedabad
Katre Vibhav Vikas	alumnus	Thane
Karanam Vinay	alumnus	Hyderabad
Anirudha Vishvakarma	alumnus	Ujjain
Joshi Ameya Yashwant	alumnus	Pune
Bala Saranya Yeleswarapu	alumnus	Vijaywada
Sanjaykumar Amrutiya	faculty	Ahmedabad
Vinod Chandra	faculty	Ahmedabad
Nithin V George	faculty	Ahmedabad
Harish P M	faculty	Ahmedabad
KVV Murthy	faculty	Gandhinagar
Ritu Agarwal	staff	Ahmedabad
Jay Mehta	staff	Ahmedabad
Santosh Raut	staff	Ahmedabad
Shashin A Raval	staff	Ahmedabad
Jagdish Rawat	staff	Ahmedabad
Komal Tarunkumar Sangtani	staff	Ahmedabad
Viral Shah	staff	Ahmedabad
Gaurav Kumar Singh	staff	Ahmedabad
Pallavi Chilka	student	Ahmedabad
Manish Kumar	student	Ahmedabad

Name	Category	City
Dibyendu Debnath	well-wisher	Guwahati
Kiran Magiawala	well-wisher	Hawthorne, USA
Anand Rajkamal	well-wisher	Kolkata
Gaurav Sharma	well-wisher	Bangalore
Hart Singh	well-wisher	Madison, USA

IITGN FOUNDATION APPOINTS EXECUTIVE DIRECTOR

IIT Gandhinagar Foundation, a US-based charitable trust, announced the appointment of **Mr Ravi Mistry** as its first executive director. Mr Mistry will be responsible for designing and managing the Foundation's worldwide capital campaign with primary focus on the US, as well as serving as a liaison between donors and IITGN on important initiatives supported by the donors. Previously, Mr Mistry was member of the founding team of Virident Systems, a technology startup based in the Silicon Valley.

ORGANIZATION

BOARD OF GOVERNORS

CHAIRMAN

Dr Baldev Raj
President, International Council of Academies of Engineering and Technological Sciences &
Director, National Institute of Advanced Studies,
Bangalore

MEMBERS

Shri J P Agrawal, DANICS
Director (Technical & Higher Education)
Administration of Daman & Diu (UT)
Secretariat, Moti Daman

Prof S P Mehrotra
Professor-in-charge, (External Relations,
and Research & Development)
Indian Institute of Technology Gandhinagar
Ahmedabad

Shri Kamal Nanavaty
President-Strategy Development
Reliance Industries Limited
Navi Mumbai

Shri D J Pandian, IAS
Chief Secretary
Government of Gujarat
Gandhinagar

Prof Deepak B Phatak
Subrao M Nilekani Chair Professor
Department of Computer Science and Engineering
IIT Bombay, Mumbai

Prof Surendra Prasad
former Director
Indian Institute of Technology Delhi
New Delhi

Prof Rajagopalan Srinivasan
Professor
Indian Institute of Technology Gandhinagar
Ahmedabad

Prof S P Sukhatme
former Director, IIT Bombay &
former Chairman, Atomic Energy Regulatory Board
Mumbai

Prof Sudhir K Jain
Director
Indian Institute of Technology Gandhinagar
Ahmedabad

SECRETARY

Shri P K Chopra
Registrar
Indian Institute of Technology Gandhinagar
Ahmedabad

All listing as on March 31, 2015

FINANCE COMMITTEE

CHAIRMAN

Dr Baldev Raj
President
International Council of Academies of Engineering and Technological Sciences & Director
National Institute of Advanced Studies
Bangalore

MEMBERS

Prof Sudhir K Jain
Director
Indian Institute of Technology Gandhinagar
Ahmedabad

Prof D P Roy
Professor-in-charge (General Administration)
Indian Institute of Technology Gandhinagar
Ahmedabad

Prof S C Sahasrabudhe
former Director
Dhirubhai Ambani Institute of Information and Communication Technology
Gandhinagar

Shri Amarjeet Sinha, IAS
Additional Secretary
Department of Higher Education
Ministry of Human Resource Development
New Delhi

Shri Yogendra Tripathi, IAS
Joint Secretary (Integrated Finance Bureau) & Financial Advisor
Ministry of Human Resource Development
New Delhi

SECRETARY

Shri P K Chopra
Registrar
Indian Institute of Technology Gandhinagar
Ahmedabad

BUILDING AND WORKS COMMITTEE

CHAIRMAN

Prof Sudhir K Jain
Director
Indian Institute of Technology Gandhinagar
Ahmedabad

MEMBERS

Prof N Chhaya
former Dean, Faculty of Architecture
CEPT University
Ahmedabad

Shri A K Jain
former Special Director General
Central Public Works Department
New Delhi

Dr Prabhat Kumar
Distinguished Scientist and
former Chairman and Managing Director
Bharatiya Nabhikiya Vidyut Nigam Ltd, Kalpakkam
Tamil Nadu

Prof Harish Palanthandalam-Madapusi
Associate Dean (Campus Development)
Indian Institute of Technology Gandhinagar
Ahmedabad

Shri L P Srivastava
former Additional Director General
Central Public Works Department &
Advisor (Works)
Indian Institute of Technology Gandhinagar
Ahmedabad

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

SECRETARY

Shri P K Chopra
Registrar
Indian Institute of Technology Gandhinagar
Ahmedabad

All listing as on March 31, 2015

SENATE

CHAIRMAN

Prof Sudhir K Jain
Director
Indian Institute of Technology Gandhinagar
Ahmedabad

MEMBERS

Prof Sudarshan Bahl
Prof Atul Bhargav
Prof Arup Lal Chakraborty
Prof Neelkanth Chhaya
Prof Sameer Dalvi
Prof Murali Damodaran
Prof Anirban Dasgupta
Prof Bhaskar Datta
Prof Pratyush Dayal
Prof H B Hablani
Prof Vikrant Jain
Prof Mohan Joshi
Prof Rita Kothari
Prof Ashwini Kumar
Dr T S Kumbar
Prof Harish P M
Prof Jaison Manjaly
Prof Achal Mehra
Prof S P Mehrotra
Prof Abhijit Mishra
Prof Pranab Kumar Mohapatra
Prof Jyoti Mukhopadhyay
Prof K V V Murthy
Prof Vinod Narayanan
Prof D V Pai
Prof Rosa Maria Perez
Prof Amit Prashant
Prof R R Puri
Prof N Ramakrishnan
Prof Raghavan Rangarajan
Prof Nagesh Rao
Prof Srinivas Reddy
Prof D P Roy
Prof Ajanta Sachan
Prof Arnab Sarkar
Prof Indranath Sengupta
Prof Anand Sengupta
Prof R Sharan
Prof G K Sharma
Prof Rajagopalan Srinivasan
Prof Jagmohan Tyagi

SECRETARY

Shri P K Chopra
Registrar

STUDENT INVITEES

Harsh Gupta
Aashrith Koundinya
Akash Keshav Singh
Naveen Deepak V

STANDING COMMITTEES OF THE SENATE

SENATE ACADEMIC PERFORMANCE EVALUATION COMMITTEE (SAPEC)

Prof D V Pai, convenor
Prof Amit Prashant, dean (Academic Affairs)
Prof Dhiman Basu
Prof Bhaskar Datta
Prof Nithin George
Prof Kabeer Jasuja
Prof Indranath Sengupta

SENATE ACADEMIC PROGRAMMES COMMITTEE (SAPC)

Prof Amit Prashant, chairman, dean (Academic Affairs)
Prof Atul Bhargav
Prof Arup Lal Chakraborty
Prof Sameer Dalvi
Prof Bhaskar Datta
Prof Jaison Manjaly
Prof Abhijit Mishra
Prof Srinivas Reddy
Prof Ajanta Sachan
Prof Anand Sengupta
Prof Jagmohan Tyagi
Ms Geethanjali Savithri
Ms Tushti Shah

SENATE SCHOLARSHIP AND PRIZES COMMITTEE (SSPC)

Prof Jaison A Manjaly, chairman, dean (Student Affairs)
Prof Anirban Dasgupta
Prof Kabeer Jasuja
Prof Surjeet Kaur
Prof Pratik Mutha

SENATE STUDENT AFFAIRS COMMITTEE (SSAC)

Prof Jaison A Manjaly, chairman, dean (Student Affairs)
Prof Atul Bhargav
Prof Bhaskar Datta
Prof Nithin George
Prof Sharmistha Majumdar
Prof Srinivas Reddy
Mr Aashrith Koundinya
Mr Akash Keshav Singh
Mr Akshay Randad
Mr Palak Sadani

SENATE LIBRARY COMMITTEE (SLC)

Prof R Sharan, chairman
Prof Pratyush Dayal
Dr T S Kumbar
Prof Mona Mehta
Prof Sanmuganathan R
Prof Sudipta Sarkar
Mr Jay Sudani
Ms Goldy Yadav

All listing as on March 31, 2015

ACADEMIC OFFICIALS

Prof Sudhir K Jain
Director

Prof Amit Prashant
Dean, Academic Affairs

Prof Bhaskar Datta
Associate Dean, Postgraduate Studies

Prof Abhijit Mishra
Associate Dean, Undergraduate Studies

Prof Jaison A Manjaly
Dean, Student Affairs

Prof Atul Bhargav
Associate Dean, Student Welfare
Advisor, Sports

Prof Anirban Dasgupta
Warden, New Boy's Hostel and also Coordinator, Career Counseling and Industry Visits

Prof Gaurav
Head, Career Development Services
Coordinator, Placement & Internship

Prof Nithin George
Coordinator, Doctoral Students

Prof Kabeer Jasuja
Head, Student Counseling Service

Prof Sivapriya Kirubakaran
Coordinator, Masters Students

Prof Shankarjee Krishnamoorthi
Coordinator, Higher Education

Prof Uttama Lahiri
Warden, Girl's Hostel

Prof Superb Misra
Advisor, Technical Activities

Prof Srinivas Reddy
Advisor, Cultural Events

Shri C S Sharma
Coordinator, Communication &
Life Skills Programme

Prof Sudhanshu Sharma
Warden, Ashok Vihar Hostel

Prof Achal Mehra
Dean, Strategic Planning and Special Initiatives

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

Prof Sameer Dalvi
Associate Dean, Faculty Relations

Prof Pratik Mutha
Chairman, Faculty Search Committee and
Associate Dean Faculty Recruitment

Prof S P Mehrotra
Professor-in-charge, External Relations and
Professor in-charge, Research and Development

Prof Ravikumar Bhaskaran
Honorary Advisor, External Affairs

Prof Vikrant Jain
Associate Dean, External Projects

Prof D P Roy
Professor-in-Charge, General Administration and
Professor-in-charge, Engineering Disciplines

Prof D V Pai
Professor-in-Charge, Humanities and Science
Disciplines

Prof Harish P M
Associate Dean, Campus Development

STUDENT LEADERSHIP

The following students were declared elected as office bearers for the academic year 2015-16:

General Secretary	: Vishvendra Singh
Technical Secretary	: Shubham Malav
Sports Secretary	: Aditya Shah
Academic Secretary	: Akhilesh Gotmare
Cultural Secretary	: Palak Sadani

All listing as on March 31, 2015

FACULTY

Discipline	Designation	PhD/ Last Degree	Specialization
BIOLOGICAL ENGINEERING			
Sharad Gupta	Assistant Professor	University of Pittsburgh, 2009	Protein misfolding in Alzheimer's and Huntington's diseases
Sharmistha Majumdar	Assistant Professor	Cornell University, 2006	Genomic and proteomic analysis of transposases and transposase homologs
Pratik Mutha	Assistant Professor (jointly with Electrical Engineering)	Pennsylvania State University, 2009	Sensorimotor control and learning
CHEMICAL ENGINEERING			
Sameer V Dalvi	Assistant Professor	IIT Bombay, 2007	Supercritical fluid processing
Pratyush Dayal	Assistant Professor	University of Akron, 2007	Self-oscillating polymer gels
Chinmay Ghorai	Assistant 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
Arnab Sarkar	Visiting Professor	Catholic University of America, 1973	Optical fiber fabrication processes
Rajagopalan Srinivasan	Professor	Purdue University, West Lafayette, 1998	Computational systems biology
Prachi Thareja	Assistant Professor	University of Pittsburgh, 2008	In-situ rheology of crystallizing fatty acid pastes
CHEMISTRY			
Chandrakumar Appayee	Assistant Professor	IISc, Bangalore 2008	Asymmetric catalysis
Bhaskar Datta	Assistant Professor	Carnegie Mellon University, 2004	Nucleic acid based chemical biology
Sriram V Gundimeda	Assistant Professor	IIT Bombay, 2001	Bio-organic chemistry
Iti Gupta	Assistant Professor	IIT Bombay, 2005	Macrocyclic receptors & expanded porphyrinoids

Discipline	Designation	PhD/ Last Degree	Specialization
Sivapriya Kirubakaran	Assistant Professor	IISc Bangalore, 2007	Medicinal chemistry and drug discovery
Sairam Swaroop Mallajosyula	Assistant Professor	JNCASR, Bangalore, 2009	Carbohydrate-Protein Interactions
Sudhansu Sharma	Assistant Professor	IISc Bangalore, 2009	Materials, electrochemistry
CIVIL ENGINEERING			
Dhiman Basu	Assistant Professor	SUNY, Buffalo, 2012	Rotational seismology, complex structures
Svetlana Brzev*	Visiting Professor	IIT Roorkee, 1994	Earthquake risk mitigation in developing countries
Gaurav	Assistant Professor	University of Minnesota, 2011	Uncertainty quantification
Indrajit Ghosh*	Adjunct Professor	University of Surrey, UK, 1967 (MSc)	Analytical solution of plate with various loading and boundary conditions
Sudhir K Jain	Director, Professor	Caltech, 1983	Earthquake engineering, structural dynamics
Ashwini Kumar	Visiting Professor	University of Waterloo, 1974	Stability and large deformation of structures
Vimal Mishra	Assistant Professor	Purdue University, 2010	Surface water hydrology
Pranab Kumar Mohapatra	Professor	IIT Kanpur, 1999	Hydraulics and Water resources engineering
Amit Prashant	Associate Professor	University of Tennessee, 2004	Constitutive modeling for granular materials
Satwant Rihal*	Visiting Professor	University of New Mexico, Albuquerque, 1969	Innovative, interdisciplinary & integrated structural engineering design
Ajanta Sachan	Assistant Professor	University of Tennessee, 2005	Material characterization
COMPUTER SCIENCE & ENGINEERING			
Andrea Bobbio*	Visiting Professor	Politecnico of Torino, 1969	Reliability engineering
Bireswar Das	Assistant Professor	Institute of Mathematical Sciences, Chennai, 2010	Computational complexity theory and algorithms
Anirban Dasgupta	Associate Professor	Cornell University, 2005	Algorithms for large scale data
Souradyuti Paul	Assistant Professor	Katholieke Universiteit Leuven, Belgium, 2006	Information security, cryptography, theoretical computer science

All listing as on March 31, 2015

*For part of the year

Discipline	Designation	PhD/ Last Degree	Specialization
Kishor S Trivedi*	Visiting Professor	University of Illinois, Urbana, 1974	Fault-tolerant and dependable computing
DESIGN			
Bhaskar Bhatt*	Assistant Professor	NID, Ahmedabad, 2003	Industrial design & new product engineering
Dinesh Korajn	Adjunct Faculty	NID, Ahmedabad, 1983	Systemic design intervention in complex, real world problems
Amit Sheth	Adjunct Faculty	IIT Bombay (ongoing)	Wayfinding design
EARTH SCIENCES			
Vikrant Jain	Associate Professor	IIT Kanpur, 2001	Earth surface processes
Pradeep Srivastava	Adjunct Professor	Peoples' Friendship University, Moscow, Russia, 1983	Theoretical mechanics & control systems
ELECTRICAL ENGINEERING			
Arup Lal Chakraborty	Assistant Professor	University of Strathclyde, 2010	Tunable diode laser spectroscopy for gas parameter measurement
Prakash Dandekar*	Visiting Professor	IIT Bombay, 1975	Design & development in Internet of Things(IoT)
Ramesh Gaonkar*	Visiting Professor	Syracuse University, 1975	Inter-disciplinary curriculum design and evaluation
Nithin V George	Assistant Professor	IIT Bhubaneswar, 2012	Active noise control, adaptive signal processing
Ragavan K	Assistant Professor	IISc Bangalore, 2006	Transformer diagnostics
Uttama Lahiri	Assistant Professor	Vanderbilt University, 2011	Virtual reality based human computer interaction used in affective computing
Joycee M Mekie	Assistant Professor	IIT Bombay, 2009	VLSI design
Nihar Ranjan Mohapatra	Assistant Professor	IIT Bombay, 2003	Semiconductor devices and technology
K V V Murthy	Visiting Professor	IIT Bombay, 1977	Electrical network theory
K R Padiyar*	Visiting Professor	University of Waterloo, Canada,1972	HVDC and FACTS, power system dynamics and control
Naran M Pindoriya	Assistant Professor	IIT Kanpur, 2009	Restructuring power systems- technical and economical issues

Discipline	Designation	PhD/ Last Degree	Specialization
S Rajendran	Associate Teaching Professor	IIT Madras (MTech), 1988	High speed packaging machines-VFFS and HFFS technologies
Shanmuganathan Raman	Assistant Professor	IIT Bombay, 2011	Computational photography
R Sharan	Visiting Professor	University of Waterloo, Canada, 1968	Technological progress and human values
Babji Srinivasan	Assistant Professor	Texas Tech University, 2011	Control loop performance monitoring
HUMANITIES			
Hami Banu Chopra*	Visiting Faculty	Jamia Aligarh University, 1971 (Adeeb Kamil)	Urdu poetry
Amy DeSantis*	Visiting Assistant Professor	Northwestern University, IL, 2009	Racial/ethnic and socioeconomic health disparities
Guo Fei	Visiting Faculty	Sichuan University, 2007	Chinese lauguage tutor
Laurent P G Fradet	French Lauguage Tutor	University of Toulouse, 2013	French language tutor
Bruno Gaminha*	Assistant Research Professor	Lisbon University Institute, 2012	Complex adaptive systems
Alok Kumar Kanungo	Assistant Research Professor	Deccan College, 2003	Archaeology
Rita Kothari	Associate Professor	Gujarat University, 2000	Hinglish, communities in Banni (Kutch), cultural history of Sindh & Gujarat
Sharmita Lahiri	Assistant Professor	University of Houston, 2008	Postcolonial literature and composition
Jaison A Manjaly	Assistant Professor	IIT Kharagpur, 2008	Experience, consciousness, rationality
Achal Mehra	Professor	Southern Illinois University, Carbondale, 1985	Online media, media management
Krishna Prasad Miyapuram	Assistant Professor	University of Cambridge, UK, 2008	Brain imaging (fMRI) & cognitive science
B N Patnaik*	Visiting Professor	CIEFL, 1977	Linguistics & Phonetics
V N Prabhakar	Visiting Faculty	Kurukshetra University, 2012	Harappan archaeology with emphasis on application of sciences in archaeology
Manuel Ramos*	Visiting Professor	ISCTE-IUL, 2000	Symbolic anthropology

All listing as on March 31, 2015

*For part of the year

Discipline	Designation	PhD/ Last Degree	Specialization
Arnapurna Rath	Assistant Professor	IIT Bombay, 2010	South-Asian literature, Critical theories, Bakhtin studies, Creative writing
Srinivas Reddy	Assistant Professor	University of California, Berkeley, 2011	Sanskrit, Tamil and Telugu literary traditions
Madhumita Sengutpa	Assistant Professor	University of Calcutta, 2009	Colonial India and the socio - political history of Assam from the eighteenth to the early twentieth centuries.
Gaurav Sukhija*	Research Associate	University of Illinois, 2011	Microeconomics
Siddharth Wakankar	Visiting Professor	M S University of Baroda, 1995	Games in Sanskrit literature and manuscriptology
MATERIAL SCIENCE & 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
Abhijit Mishra	Assistant Professor	University of Illinois, Urbana-Champaign, 2010	X-Ray diffraction, membrane properties
Superb Misra	Assistant Professor	Imperial College London, UK , 2007	Biomaterials and Tissue engineering
Jyoti Mukhopadhyay	Visiting Professor	IIT Bombay, 1982	Structure – property correlation
Emila Panda	Assistant Professor	Max Planck Institute, Germany, 2009	Investigations of thin films and nanostructured materials
MATHEMATICS			
SanjayKumar Amrutiya	Assistant Professor	Harish-Chandra Research Institute, Allahabad, 2012	Tannakian group schemes, Moduli spaces, Vector bundles
Anulekha Dhara*	Assistant Professor	IIT Delhi, 2010	Nonsmooth Optimization
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

Discipline	Designation	PhD/ Last Degree	Specialization
Chetan 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
Indranath Sengupta	Associate Professor	IISc Bangalore, 2001	Commutative algebra, Algebraic geometry
Jagmohan Tyagi	Assistant Professor	IIT Kanpur, 2008	Ordinary differential equations, elliptic partial differential equations
MECHANICAL ENGINEERING			
B D Agarwal*	Visiting Professor	Illinois Institute of Technology, 1972	Composite materials, stress analysis
Sudarshan Bahl	Visiting Professor	Meerut University, Meerut (MPhil)	Solid State Physics
Atul Bhargav	Assistant Professor	University of Maryland, College Park, 2010	Fuel cell systems. design and simulation
Murali Damodaran	Professor	Cornell University, 1987	Aerospace engineering: aerodynamics, flight mechanics and aeroelasticity
Emmanuel Deriat*	Visiting Professor	University Paris 6, 1999	Viscous flows
Raghu Echempati	Visiting Professor	IIT Kharagpur, 1976	Design of machine elements and mechanical assemblies
H B Hablani	Visiting Professor	IISc Bangalore, 1972	Navigation, Guidance, and Control of Flight Vehicles.
Shankarjee Krishnamoorthi	Assistant Professor	UCLA, 2013	Computational structural and solid mechanics
Vinod Narayanan	Assistant Professor	JNCASR, 2006	Fluid mechanics
Harish Palanthandalam-Madapusi	Assistant Professor	University of Michigan, Ann Arbor, 2007	Systems and control theory, system identification (data-based modeling)
N Ramakrishanan	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
PHYSICS			

All listing as on March 31, 2015

*For part of the year

Discipline	Designation	PhD/ Last Degree	Specialization
Vinod Chandra	Assistant Professor	IIT Kanpur, 2009	Quark-Gluon-Plasma and relativistic heavy ion collisions
Baradhwaj Coleppa	Assistant Professor	Michigan State University, 2009	Beyond the standard model – model builidng and LHC phenomenology of new states
Shivakumar Jolad	Assistant Professor	The Pennsylvania State University, 2010	Networks - complex systems., information theory
Barun Majumder	Assistant Professor	University of Calcuta, 2008 (ABD)	Quantum cosmology
R R Puri	Visiting Professor	Bombay University, 1981	Theoretical quantum optics, quantum mechanics, random matrix theory of quantum chaos, interaction of radiation with charged particles traversing a cavity
Sudipta Sarkar	Assistant Professor	University of Pune, IUCAA, 2009	General relativity and black hole thermodynamics
Anand Sengupta	Assistant Professor	IUCAA Pune, 2005	Detection of gravitational waves, aspects of CMB data analysis
Vijay Thiruvenkatam	Assistant Research Professor (jointly with Biological Engineering)	Jiwaji University, 2009	Small molecules X-ray crystallography
SOCIAL SCIENCES			
Mona Mehta	Assistant Professor	University of Chicago, 2010	Democracy, ethnic conflict, civil society, nationalism and identity politics in India
Rosa Maria Perez	Visiting Professor	ISCTE, Lisbon, 1992	Social structures, social segregation
Tannistha Samantha	Assistant Professor	University of Maryland, 2012	Social demography, aging in developing countries
Rachel Shalom*	Visiting Faculty	International school, Technion Institute of Technology, Israel (Pursuing)	International entrepreneurship program executive lead
Malavika Subramanyam	Assistant Professor	D Sc, Harvard University, 2009	Socioeconomic context and neighbourhoods on nutrition and diabetes
Meera Mary Sunny	Assistant Professor	University of Warwick, 2011	Visual attention, attention capture

DISTINGUISHED HONORARY PROFESSORS

Name	Affiliation
Prof J B Joshi	DAE Homi Bhabha Distinguished Chair Professor
Prof Harinarayana Kota	Dr D S Kothari DRDO Chair at ADA,Bangalore
Prof Surendra Prasad	former director, IIT Delhi
Prof V Rajaraman	former chairman, Supercomputer Education and Research Centre, Indian Institute of Science, Bangalore
Prof V S Raju	former director, IIT Delhi
Prof S P Sukhatme	Professor Emeritus, Mechanical Engineering, IIT Bombay
Prof Nitish Thakor	Professor, Biomedical Engineering, Johns Hopkins School of Medicine

GUEST PROFESSORS

Name	Affiliation
Prof A V V Anilkumar	Professor, Vanderbilt School of Engineering
Prof Nikhil Balram	President and CEO of Ricoh Innovations Inc, USA
Prof Achintya K Bhowmik	Chief Technology Officer & General Manager, Perceptual Computing Group, Intel Corporation, CA, USA
Prof R S Bisht	Joint Director General (retd), Archaeological Survey of India
Prof Rajendra Bordia	Professor and Chair, Department of Materials Science and Engineering Clemson University, USA
Prof Bijoy Boruah	Humanities & Social Sciences, IIT Delhi
Prof Svetlana Brzev	Professor, Civil Engineering, School of Construction and the Environment, British Columbia Institute of Technology, Canada
Prof R P Chhabra	Professor of Chemical Engineering, IIT Kanpur
Prof Michael Danino	Independent Scholar of Indian Civilization
Prof Pravinray Gandhi	Director, Corporate Research, Underwriters Laboratories Inc
Prof Dipan Ghosh	Provost (Vice-Chancellor), Navrachana University, Vadodara
Prof Bipin Indurkhya	Department of Computer Science, AGH University of Science and Technology, Poland
Shri Subodh Kumar Jain	Member Engineering (Retd), Railway Board, New Delhi
Prof Rajen Jaswa	CEO & Chairman, Dyyno
Prof K Chelva Kumar	President, EPIR Technologies, Inc., Bolingbrook, IL

All listing as on March 31, 2015

*For part of the year

Name	Affiliation
Prof Suchitra Mathur	Professor, Humanities and Social Sciences, IIT Kanpur
Prof Ashok Mittal	formerly with IIT Kanpur and Kellogg School of Management, Northwestern University, USA
Prof S L Narayanamurthy	former Dean, Academic Affairs, IIT Gandhinagar
Prof Sandeep Pandey	Social activist, Lucknow and Co-founder, Asha for Education
Prof D C Rai	Professor, Department of Civil Engineering, IIT Kanpur
Prof M B Rajani	Assistant Professor, School of Humanities, Indian Institute of Science campus, Bangalore
Prof T R Ramachandran	Visiting Professor, Nonferrous Materials Technology Development Centre, Hyderabad
Prof A Ramanathan	Professor, IIT Bombay
Prof Mythily Ramaswamy	Professor, TIFR Centre for Applicable Mathematics, Bangalore
Prof Dheeraj Sanghi	Dean, Academic Affairs, IIT Kanpur
Prof Shiladitya Sengupta	Assistant Professor, Harvard Medical School Brigham & Women's Hospital
Prof Koshy Tharakan	Associate Professor, Goa University

SCHOLARS-IN-RESIDENCE

Name	Affiliation
Ms Katrin Beyer	Assistant Professor, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
Prof Frederick Coolidge	Professor, University of Colorado, USA
Prof Chandrakant Desai	Regents Professor Emeritus, Engineering Mechanics, University of Arizona
Prof Rajmohan Gandhi	Research Professor, Centre for South Asian & Middle Eastern Studies, University of Illinois at Urbana-Champaign
Ms Marjorie Greene	Special Projects, Manager at Earthquake Engineering Research Institute
Prof Nuno Guimaraes	Professor, Department of Information Science and Technology, University Institute of Lisbon
Prof Stefan Haves	Director, Creator and Producer of Circus, Theater and Films, California, USA
Prof Jorge Louca	ISCTE-IUL Lisbon University Institute
Prof M Ramamoorty	Former Director General, Central Power Research Institute, Ministry of Power, Government of India
Prof Satyaki Roy	Associate Professor, Department of Humanities and Social Sciences IIT Kanpur
Prof Shatarupa Thakurta Roy	Assistant Professor, Department of Humanities and Social Sciences IIT Kanpur

NON-TEACHING STAFF
AGAINST REGULAR POSITIONS

Employee Name	Designation
M Armugam	Junior Laboratory Attendant
Suganya Arumugam	Junior Technical Superintendent
Viral J Asjola	Senior Library Information Assistant
Ramasimha B	Junior Laboratory Assistant
Babloo	Junior Laboratory Attendant
Palak R Bagiya	Junior Laboratory Assistant
Sudeep Narayan Banerjee	System Analyst/ Scientist B
Suvakanta Barik	Junior Technical Superintendent
Timirben Yakunj Berawala	Junior Assistant
Manu Pratap Singh Bhadauria	Physical Training Instructor
Ram Babu Bhagat	Assistant Registrar
Rahulendra Bhaskar	Junior Technical Superintendent
Tushar Harshadkumar Brahmbhatt	Junior Laboratory Attendant
K C Chandrajith	Junior Superintendent
Pannaben P Chaudhary	Senior Library Information Assistant
G C Chaudhary	Superintending Engineer
Mayur Natvarbhai Chauhan	Junior Laboratory Attendant
Krupeshkumar P Chauhan	Junior Accountant
Yashwant Kumar Chouhan	Assistant Engineer
Rohitkumar B Chaudhary	Junior Technical Superintendent
Prem Kumar Chopra	Registrar
Balkrishna J Darji	Senior System Analyst
Tapas Kumar Das	Senior Library Information Assistant
Sonali S Dawada	Junior Assistant
Dineshbhai B Desai	Junior Laboratory Attendant
Tej Bahadur Gurung	Junior Assistant
Supin Gopi	Junior Technical Superintendent
JagannadhamNaidu Gunoor*	Junior Technical Superintendent

All listing as on March 31, 2015

*For part of the year

Employee Name	Designation
Memo Gupta	Junior Account Officer
Laxmi P Hirani	Junior Lab Assistant
Yogesh Dattatraya Jade	Junior Superintendent
Meena Joshi	Assisant Registrar
Ashwin R K	Junior Technical Superintendent
Jithesh V K	Junior Superintendent
Sanjaykumar Karshanbhai Kachiya	Junior Laboratory Assistant
Navdiwala Ankur Kanchanlal	Junior Laboratory Assistant
Dharmeshkumar Vallabhabhai Kapadiya	Junior Laboratory Attendant
Hani M Khamar	Junior Assistant
Ram Nivas Kumavat	Executive Engineer
T S Kumbar	Librarian
Prajapati Ramanand Lalsaheb	Junior Laboratory Attendant
Pijush Majumdar	Assistant Registrar
Prashant G Makwana	Junior Assistant
Saumya Malaviya	Junior Assistant
Jay Mehta	Junior Accountant
Shreejit B Menon	Junior Superintendent
Tanha K Modi	Junior Assistant
Vaishali Padhiar*	Deputy Registrar
Dharmendrakumar S Panchal	Junior Engineer
Sanjeev Kumar Pandey	Junior Account Officer
Pragnesh D Parekh	Junior Technical Superintendent
Dinesh H Parmar	Physical Training Instructor
Darshan C Patel	Junior Assistant
Sanketkumar J Patel	Junior Technical Superintendent
Arika K Patel	Junior Accountant
Kamini J Patel	Junior Assistant
Sanjaykumar T Patel	Junior Laboratory Assistant
Bhikhabhai R Patel	Junior Laboratory Attendant
Jignesh S Patel	Junior Laboratory Assistant
Twinkle Patel	Junior Account Officer
Harshadkumar J Patel	Junior Account Officer

Employee Name	Designation
Akash Mahendra Kumar Patel	Junior Superintendent
Narendra J Rabadiya	Junior Assistant
Santosh Raut	Junior Superintendent
Shashin A Raval	Assistant Registrar
Pranav S Rohit	Assistant Registrar
Pavitra Kumar Rout	Junior Accountant
Komal Sangtani	Junior Assistant
Sujit Kumar Shah	Junior Assistant
Viral Y Shah	Junior Superintendent
Jigar Shah	Junior Account Officer
Mukesh Sharma	Staff Nurse
Gaurav Shukla	Junior Superintendent
Nitin Shukla	Junior Technical Superintendent
Gaurav Kumar Singh	Junior Assistant
Pankaj Kumar Sinha*	Assistant Registrar
Narendrakumar M Solanki	Junior Accountant
Tenils Solanki	Junior Superintendent
Mrugesh R Solanki	Junior Superintendent
Raghuveer G Solanki*	Junior Assistant
Nileshkumar B Soni	Junior Engineer
Una Sujit	Junior Superintendent
Sachin S Tawde	Junior Technical Superintendent
Prabhuji J Thakor	Junior Laboratory Attendant
Supresh S Thaleshri	Junior Laboratory Attendant
Sunny Thomas	Junior Laboratory Assistant
Hiren P Vadhavana	Junior Laboratory Assistant
Dipen Mahendrabhai Vaghani	Junior Assistant
Rajendra Vaishnav	Junior Account Officer
Piyushbhai P Vankar	Junior Assistant
Nand Lal Vishwakarma	Junior Superintendent
Rahul J Wadhwani	Junior Accountant

All listing as on March 31, 2015

*For part of the year

PHD SCHOLARS

Name of the Student	Discipline	Supervisor
Rashmi Bhakuni	Biological Engineering	Prof Sivapriya Kirubakaran
Siddhant Bhoir	Biological Engineering	Prof Sharad Gupta
Pallavi Chilka	Biological Engineering	Prof Bhaskar Datta
Geethanjali Savithri Dhakshinamurthy	Biological Engineering	Prof Superb Mishra and Prof Sharmistha Majumdar
Vivek Digamberrao Farkade	Biological Engineering	Prof Sharad Gupta
Sanjay Kumar	Biological Engineering	Prof Bhaskar Datta
Sanghavi Hiral Manojkumar	Biological Engineering	Prof Sharmistha Majumdar
Nalini Natarajan	Biological Engineering	Prof Vijay Thiruvenkatam
Abhijeet Ojha	Biological Engineering	Prof Prachi Thareja
Gayathri P	Biological Engineering	Prof Vijay Thiruvenkatam
Poonam Pandey	Biological Engineering	Prof Sairam Swaroop Mallajosyula
Krittika Ralhan	Biological Engineering	Prof Sharad Gupta
Indumathi S	Biological Engineering	Prof Sameer Dalvi and Prof Sivapriya Kirubakaran
Guru Krishnakumar Viswanathan	Biological Engineering	Prof Sharad Gupta
Shital Arunbhai Amin	Chemical Engineering	Prof Nitin Padhiyar and Prof Pratyush Dayal
Thorat Alpana Ankush	Chemical Engineering	Prof Sameer V Dalvi
Saroj Kumar Das	Chemical Engineering	Prof KabeerJasuja
Deepa Dixit	Chemical Engineering	Prof Chinmay Ghoroi
Asha Liza James	Chemical Engineering	Prof Kabeer Jasuja
Vikram Ashok Karde	Chemical Engineering	Prof Chinmay Ghoroi
Siddharth Vijay Kulkarni	Chemical Engineering	Prof Prachi Thareja
Manish Kumar	Chemical Engineering	Prof Supreet Saini and Prof Kalyan Gayen
Kalaga S Dinesh Kumar	Chemical Engineering	Prof J B Joshi and Prof Sameer V Dalvi
D Jaya Prasana Kumar	Chemical Engineering	Prof Pratyush Dayal
Saket Kumar	Chemical Engineering	Prof Prachi Thareja
Patel Narendra Madhavlal	Chemical Engineering	Prof Nitin Padhiyar

Name of the Student	Discipline	Supervisor
Sanat Chandra Maiti	Chemical Engineering	Prof Chinmay Ghoroi
Hariharan P	Chemical Engineering	Prof J B Joshi and Prof Sharad Gupta
Komal Upendra Pandey	Chemical Engineering	Prof Sameer V Dalvi
Rupanjali Gurprasad Prasad	Chemical Engineering	Prof Sameer V Dalvi
Awaneesh Kumar Upadhya	Chemical Engineering	Prof Sameer V Dalvi
Sophia Varghese	Chemical Engineering	Prof Chinmay Ghoroi
Harsha Agnihotri	Chemistry	Prof Sriram Kanvah Gundimeda
Deekshi Angira	Chemistry	Prof Vijay Thiruvenkatam and Prof Sivapriya Kirubakaran
Naresh Balsukuri	Chemistry	Prof Iti Gupta
Palakollu Veera Bhadraiah	Chemistry	Prof Sriram Kanvah Gundemeda
Anuj Bisht	Chemistry	Prof Sudhanshu Sharma
Sudipta Das	Chemistry	Prof Iti Gupta
Bhanu Pratap Singh Gangwar	Chemistry	Prof Sudhanshu Sharma
Javeena	Chemistry	Prof Sivapriya Kirubakaran
Praseetha E K	Chemistry	Prof Iti Gupta
Shikha Khandelwal	Chemistry	Prof Sriram Kanvah Gundimeda
Katla Jagadish Kumar	Chemistry	Prof Sriram Kanvah Gundemeda
Mahesh Kutwal	Chemistry	Prof Chandrakumar Appayee
Sarkale Abhijeet Madhukar	Chemistry	Prof Chandrakumar Appayee
Vijayalakshmi Pandey	Chemistry	Prof Iti Gupta
Prathap Reddy Patlolla	Chemistry	Prof Bhaskar Datta
Lata Rani	Chemistry	Prof Sairam Swaroop Mallajosyula
Hadianawala Murtuza Shabbirali	Chemistry	Prof Bhaskar Datta
Althaf Shaik	Chemistry	Prof Sivapriya Kirubakaran
Anju Tyagi	Chemistry	Prof Bhaskar Datta
Anuji K V	Chemistry	Prof Sriram Kanvah Gundimeda
Divya Vyas	Chemistry	Prof Sudhanshu Sharma
Haider Ali	Civil Engineering	Prof Vimal Mishra
Nakrani Dharmit Ashwin	Civil Engineering	Prof Dhiman Basu
Abhigna Sandipkumar Bhatt	Civil Engineering	Prof Gaurav
Debayan Bhattacharya	Civil Engineering	Prof Amit Prashant
Majid Hussain	Civil Engineering	Prof Amit Prashant and Prof Ajanta Sachan
Prajakta Ramesh Jadhav	Civil Engineering	Prof Amit Prashant

All listing as on March 31, 2015

Name of the Student	Discipline	Supervisor
Keerthi Priya Kasturi	Civil Engineering	Prof Vimal Mishra
Rajkumari Kaurav	Civil Engineering	Prof Pranab Kumar Mohapatra
Nasar Ahmad Khan	Civil Engineering	Prof Gaurav
Prabhat Kumar	Civil Engineering	Prof Pranab Kumar Mohapatra
Seethalakshmi P	Civil Engineering	Prof Ajanta Sachan
Saloni Prashant Pandya	Civil Engineering	Prof Ajanta Sachan
Patnayakuni Ravi Prakash	Civil Engineering	Prof Gaurav
Gopala Krishna Rodda	Civil Engineering	Prof Dhiman Basu
Reepal Dinesh Shah	Civil Engineering	Prof Vimal Mishra
Harsh Lovekumar Shah	Civil Engineering	Prof Vimal Mishra
Ankti Srivastava	Civil Engineering	Prof Ajanta Sachan
Sunanda k	Civil Engineering	Prof Amit Prashant
Pradeep Raj K B	Cognitive Science	Prof Uttama Lahiri
Nithin George	Cognitive Science	Prof Meera Mary Sunny
Shruti Goyal	Cognitive Science	Prof Krishna Prasad Miyapuram
Krishnesh Shantilal Mehta	Cognitive Science	Prof Jaison Manjaly
Veli Milind Mehta	Cognitive Science	Prof Jaison Manjaly and Prof Meera M Sunny
Dineshkumar S	Cognitive Science	Prof Pratik Mutha
Abhishek Sahai	Cognitive Science	Prof Jaison Manjaly
Tony Thomas	Cognitive Science	Prof Meera Mary Sunny
Murali Krishna Enduri	Computer Science & Engineering	Prof Bireswar Das and Prof Shivakumar Jolad
Sudhakar Kumawat	Computer Science & Engineering	Prof Souradyuti Paul
Priodyuti Pradhan	Computer Science & Engineering	Prof Anirban Dasgupta and Prof Shivakumar Jolad
I Vinod Kumar Reddy	Computer Science & Engineering	Prof Bireswar Das
Ananya Shrivastava	Computer Science & Engineering	Prof Souradyuti Paul
Devendra Mani Tripathi	Computer Science & Engineering	Prof Krishna Prasad Miyapuram
Choudhari Jayesh Tulsidas	Computer Science & Engineering	Prof Anirban Dasgupta
Akarsh A	Earth Sciences	Prof Vimal Mishra
Shantamoy Guha	Earth Sciences	Prof Vikrant Jain
Rahul Kumar Kaushal	Earth Sciences	Prof Vikrant Jain

Name of the Student	Discipline	Supervisor
Dushyant Kumar	Earth Sciences	Prof Vikrant Jain and Dr Vimal Mishra
Vaibhav Kumar	Earth Sciences	Prof Vikrant Jain
Ravi Kant Prasad	Earth Sciences	Prof Vikrant Jain
Ramendra Sahoo	Earth Sciences	Prof Vikrant Jain
Sonam	Earth Sciences	Prof Vikrant Jain
Punitkumar Kanubhai Bhavsar	Electrical Engineering	Prof Babji Srinivasan and Prof Rajagopalan Srinivasan
Rishabh Abhinav	Electrical Engineering	Prof Rajagopalan Srinivasan and Prof Babji Srinivasan
Balaganesh B	Electrical Engineering	Prof Naran Pindoriya
Patel Nikita Bharatbhai	Electrical Engineering	Prof Babji Srinivasan and Prof Rajgopalan Srinivasan
S Chandrasekaran	Electrical Engineering	Prof Ragavan K
Kadam Sujay Dilip	Electrical Engineering	Prof Harish P M
Naveen Kumar Endla	Electrical Engineering	Prof Ragavan K
Kalpeshkumar Arvindbhai Joshi	Electrical Engineering	Prof Naran Pindoriya
Madhu K	Electrical Engineering	Prof Rajagopalan Srinivasan and Prof Babji Srinivasan
Pardeep Kumar	Electrical Engineering	Prof Nihar Ranjan Mohapatra and Prof Babji Srinivasan
Deepesh Kumar	Electrical Engineering	Prof Uttama Lahiri
Sujeet Kumar	Electrical Engineering	Prof Harish PM
Selvia Kuriakose	Electrical Engineering	Prof Uttama Lahiri
Laya	Electrical Engineering	Prof Babji Srinivasan
Satya Sivanaresh M	Electrical Engineering	Prof Nihar Ranjan Mohapatra
Satyajit Mohapatra	Electrical Engineering	Prof Nihar Ranjan Mohapatra
Rajendra Nagar	Electrical Engineering	Prof Shanmuganathan Raman
Apoorva Ojha	Electrical Engineering	Prof Nihar Ranjan Mohapatra
Vinal Patel	Electrical Engineering	Prof Nithin V George
Diptiben Patel	Electrical Engineering	Prof Shanmuganathan Raman
J Ram Prabhakar	Electrical Engineering	Prof Ragavan K
P Praveenkumar	Electrical Engineering	Prof Shanmuganathan Raman and Prof Nithin V George
Manju Bhashini R	Electrical Engineering	Prof Ragavan K and Prof Naran M Pindoriya
Batchu Rajasekhar	Electrical Engineering	Prof Naran Pindoriya
Shah Krupa Rajendra	Electrical Engineering	Prof Ragavan K

All listing as on March 31, 2015

Name of the Student	Discipline	Supervisor
Gupta Vikas Rajkumar	Electrical Engineering	Prof Shanmuganathan Raman
Dwaipayan Ray	Electrical Engineering	Prof Nithin V George
Anirban Roy	Electrical Engineering	Prof Arup Lal Chakraborty
Zarin A S	Electrical Engineering	Prof Arup Lal Chakraborty
Deepak Kumar Sharma	Electrical Engineering	Prof Nihar Ranjan Mohapatra
Shiv Prakash Singh	Electrical Engineering	Prof Naran Pindoriya
Abhishek Upadhyay	Electrical Engineering	Prof Arup Lal Chakraborty
Naveen Deepak V	Electrical Engineering	Prof Ragavan K
Vishal Vashistha	Electrical Engineering	Prof Shanmuganathan Raman
Sneha Nitin Ved	Electrical Engineering	Prof Joycee Mekie
Vinay Verma	Electrical Engineering	Prof Nithin V George
Manisha Chawla	HSS (Cognitive Science & Philosophy)	Prof Krishna Prasad
Nagireddy Neelakanteswar Reddy	HSS (Cognitive Science & Philosophy)	Prof Jaison Manjaly
Vijay Ramkaran Tripathi	HSS (Economics)	Prof Ramanathan
Annie Rachel Sam George	HSS (English)	Prof Arnapurna Rath
Payel Chattopadhyay Mukherjee	HSS (English)	Prof Arnapurna Rath and Prof Koshy Tharakan
Pooja Susan Thomas	HSS (English)	Prof Rita Kothari
Chirag Harendrabhai Trivedi	HSS (English)	Prof Rita Kothari
Diti Vyas	HSS (English)	Prof Sharmita Lahiri and Prof Suchitra Mathur
Dyotana Banerjee	HSS (Political Science)	Prof Mona Mehta
Divita Singh	HSS (Psychology)	Prof Meera Mary Sunny
Mukta Gundi	HSS (Social Epidemiology)	Prof Malavika Subramanyam
Ankita Rameshkumar Shah	HSS (Social Epidemiology)	Prof Malavika Subramanyam
Jagriti Gangopadhyay	HSS (Sociology)	Prof Tannistha Samanta
Jahnu Bharadwaj	Humanities and Social Sciences	Prof Madhumita Sengupta
Anusmita Devi	Humanities and Social Sciences	Prof Tannistha Samanta
Prakash Gupta	Humanities and Social Sciences	Prof Malavika Subramanyam
Vasudeva Naidu K	Humanities and Social Sciences	Prof Srinivas Reddy
Ingole Prashant Ramprasad	Humanities and Social Sciences	Prof Mona Mehta and Prof Rita Kothari

Name of the Student	Discipline	Supervisor
Jineesh P S	Humanities and Social Sciences	Prof Madhumita Sengupta
Venkateswaran S	Humanities and Social Sciences	Prof Srinivas Reddy
Bikash Sarma	Humanities and Social Sciences	Prof Madhumita Sengupta
Krupa Shah	Humanities and Social Sciences	Prof Rita Kothari
Ankita Arora	Materials Science & Engineering	Prof Abhijit Mishra
Narendra Bandaru	Materials Science & Engineering	Prof Emila Panda
Singh Chetan Chandan	Materials Science & Engineering	Prof Emila Panda
Deepak Dwivedi	Materials Science & Engineering	Prof Emila Panda
Sasmita Majhi	Materials Science & Engineering	Prof Abhijit Mishra
Krishna Manwani	Materials Science & Engineering	Prof Emila Panda
Rohit Mishra	Materials Science & Engineering	Prof S P Mehrotra
Mahesh V P	Materials Science & Engineering	Prof Amit Arora
Sheetal Rameshchandra Pandya	Materials Science & Engineering	Prof Amit Arora
Pankaj	Materials Science & Engineering	Prof Amit Arora
Archini Paruthi	Materials Science & Engineering	Prof Superb Misra
Tvarit Ashokbhai Patel	Materials Science & Engineering	Prof Emila Panda
Poonam Ratrey	Materials Science & Engineering	Prof Superb Misra
Gaurav Dwivedi	Mathematics	Prof Jagmohan Tyagi
Dharmendra Kumar	Mathematics	Prof Jagmohan Tyagi
Ranjana Mehta	Mathematics	Prof Indranath Sengupta
Ram Baran Verma	Mathematics	Prof Jagmohan Tyagi
Althaf A	Mechanical Engineering	Prof H B Hablani
Zeeshan Ahmed	Mechanical Engineering	Prof Atul Bhargav
Sarode Ajinkya Ashok	Mechanical Engineering	Prof Atul Bhargav

All listing as on March 31, 2015

Name of the Student	Discipline	Supervisor
Renika Baruah	Mechanical Engineering	Prof Atul Bhargav
Rameshkumar M Bhoraniya	Mechanical Engineering	Prof Vinod Narayanan
Roshan Anandrao Chavan	Mechanical Engineering	Prof Harish P M
Divyaprakash	Mechanical Engineering	Prof Murali Damodaran
Yogesh Shantaram Fulpagare	Mechanical Engineering	Prof Atul Bhargav
Akshay Anil Kanoria	Mechanical Engineering	Prof Murali Damodaran
Ravi Kant	Mechanical Engineering	Prof Vinod Narayanan
Prashant Kumar	Mechanical Engineering	Prof Vinod Narayanan
Aditya Kumar Maharana	Mechanical Engineering	Prof Vinod Narayanan
Sandeep Kumar Mishra	Mechanical Engineering	Prof Harish PM
Ravi Prahladbhai Patel	Mechanical Engineering	Prof Vinod Narayanan
Vrutangkumar Vinodkumar Shah	Mechanical Engineering	Prof Harish P M
Vivek Kumar Singh	Mechanical Engineering	Prof Atul Bhargav
Ankita Sinha	Mechanical Engineering	Prof Atul Bhargav
Mohammad Yousuf Jamal	Physics	Prof Vinod Chandra
Amit Reza	Physics	Prof Anand Sengupta
Soumen Roy	Physics	Prof Anand Sengupta
Chakresh Singh	Physics	Prof Shivakumar Jolad

PHD SCHOLARS UNDER IITGN-PRL MoU

Name of the Student	Discipline
Aadhi A	Physics
Aman Abhishek	Physics
Rukmani Bai	Physics
Soumik Bandyopadhyay	Physics
Pankaj Bhalla	Physics
Bharti	Physics
Naveen Chandra	Physics
Tanmoy Chattopadhyay	Physics
Manu George	Physics
Chandan Hati	Physics
Chauhan Bhavesh Jaikumar	Physics
Nijil Lal C K	Physics
Deepak K Karan	Physics
Navpreet Kaur	Physics
Girish Kumar	Physics
Pradeep Kumar	Physics

Name of the Student	Discipline
Upendra Kumar Singh Kushwaha	Physics
Midhun M	Physics
Tanmoy Mondal	Physics
Apurv Chaitanya N	Physics
Vishnudath K N	Physics
Dillip Kumar Nandy	Physics
Newton Nath	Physics
Arun Kumar Pandey	Physics
Shashi Prabhakar	Physics
Pandey Kuldeep Rambabu	Physics
Anjali Rao	Physics
Arko Roy	Physics
Kuldeep Suthar	Physics
Alok Ranjan Tiwary	Physics
Gaurav Kumar Tomar	Physics
Kumar Venkataramani	Physics

MTECH STUDENTS
2104 BATCH

Name of the Student	Discipline	Supervisor
Chatte Amruta Bharat	Chemical	Prof Sameer V Dalvi
Shreya Bunk	Chemical	Prof Chinmay Ghoroi
Kritika Dixit	Chemical	Prof Chinmay Ghoroi
Zade Anita Dnyanba	Chemical	Prof Nitin Padhiyar
Mohd Umair Iqbal	Chemical	Prof Rajagopalan Srinivasan
Rahul Kumar Jha	Chemical	Prof Rajagopalan Srinivasan
Mankad Jaivik Kartik	Chemical	Prof Nitin Padhiyar
Akash Kumar	Chemical	Prof Babji Srinivasan
Arable Reshma Mallinath	Chemical	Prof Babji Srinivasan
Swasti Medha	Chemical	Prof Kabeer Jasuja
Rahul Patsariya	Chemical	Prof Sameer V Dalvi
Modak Shrikant Ramrao	Chemical	Prof Prachi Thareja
Mallavarapu Deepika Rani	Chemical	Prof Babji Srinivasan
Devina Ratnam	Chemical	Prof Kabeer Jasuja
Ekta Sharma	Chemical	Prof Chinmay Ghoroi
Nikhil Sharma	Chemical	Prof Pratyush Dayal
Kumari Sushmita	Chemical	Prof Arnab Sarkar & Prof Sameer V Dalvi
Dheeraj Tyagi	Chemical	Prof Rajagopalan Srinivasan
Rajput Vandana	Chemical	Prof Pratyush Dayal
Ankita Verma	Chemical	Prof Prachi Thareja
Syed Azhar Ali	Civil	Prof Vimal Mishra
Asim Bashir	Civil	Prof Dhiman Basu
Ahmad Zaki Ghafari	Civil	Prof Sudhir K Jain & Prof Dhiman Basu
Vikalp Kamal	Civil	Prof Amit Prashant
Ghumde Atik Kishorrao	Civil	Prof Gaurav S
Pavan Kushwah	Civil	Prof Gaurav
Rojan Mathew	Civil	Prof Dhiman Basu
Manas Chandan Mishra	Civil	Prof Ajanta Sachan
Prashant Kumar Mishra	Civil	Prof Amit Prashant

All listing as on March 31, 2015

Name of the Student	Discipline	Supervisor
Harshit Nema	Civil	Prof Dhiman Basu
Nikita Rankawat	Civil	Prof Sudhir K Jain
Nandhita J S	Civil	Prof Vimal Mishra
Bidhan Kumar Sahu	Civil	Prof Pranab Mohapatra
Mohmad Mohsin Thakur	Civil	Prof Amit Prashant
Pujari Omkar Abhay	Electrical	Prof Joycee Mekie
Umap Abhijit	Electrical	Prof Nihar Ranjan Mohapatra
Rachita Agrawal	Electrical	Prof Nihar Mohapatra
Rohit Kumar Dang	Electrical	Prof Nihar Ranjan Mohapatra
Kumar Gaurav	Electrical	Prof Babji Srinivasan
Ritika Jain	Electrical	Prof Uttama Lahiri
Rathod Milanbhai Jayantibhai	Electrical	Prof Nithin V George
Raminder Kaur	Electrical	Prof Joycee Mekie
Aipathi Sai Kiran	Electrical	Prof Ragavan K
Dharmendra Kumar	Electrical	Prof Jagmohan Tyagi
Nikhil Cherian Kurian	Electrical	Prof Nithin V George
Adarsh M	Electrical	Prof Joycee Mekie
Jyoti Maheshwari	Electrical	Prof Nithin V George
Prashant Mudgal	Electrical	Prof Babji Srinivasan
Akshay Gadi Patil	Electrical	Prof Shanmuganathan Raman
Gundabathini Rakesh	Electrical	Prof Naran M Pindoriya
Saripalli Venkat Ramakrishna	Electrical	Prof Nihar Ranjan Mohapatra
Bhajipale Jayshree Sadashiv	Electrical	Prof Nihar Ranjan Mohapatra
Rahul Sadhwani	Electrical	Prof Ragavan K
Puchalapalli Sambasivaiah	Electrical	Prof Naran Pindoriya
Nikhil Singh	Electrical	Prof S Rajendran
Bhoomika Sonane	Electrical	Prof Shanmuganathan Raman
Chakraborty Priti Sridhar	Electrical	Prof Arup Lal Chakraborty
Patel Megh Vasantkumar	Electrical	Prof Uttama Lahiri
Sunny Verma	Electrical	Prof Uttama Lahiri
Veeravarupu Vinay	Electrical	Prof Nihar Ranjan Mohapatra and Prof Babji Srinivasan
Manish Kumar Viswkarma	Electrical	Prof Nihar Ranjan Mohapatra
Parikh Darshak Anantkumar	Mechanical	Prof N Ramakrishnan
Mohit Garg	Mechanical	Prof Harish P M

Name of the Student	Discipline	Supervisor
Rajanikant Atul Ghate	Mechanical	Prof Harish PM
Abheeti Goyal	Mechanical	Prof Murali Damodaran
Vishnu Kumar Gupta	Mechanical	Prof Atul Bhargav
Ayush Jain	Mechanical	Prof Murali Damodaran
Jhaveri Anshal Jayeshbhai	Mechanical	Prof Atul Bhargav
Keshav Kumar Jha	Mechanical	Prof Shankarjee Krishnamoorthi
Abhishek Joshi	Mechanical	Prof Vinod Narayanan
Brijesh Kumar	Mechanical	Prof Atul Bhargav
Shah Utsav Mineshbhai	Mechanical	Prof Harish P M
Vachhani Milankumar Niteshbhai	Mechanical	Prof Vinod Narayanan
Behere Siddhartha Ravindra	Mechanical	Prof Murali Damodaran
Singh Sumit Subhash Rita	Mechanical	Prof Murali Damodaran
Vikas Sharma	Mechanical	Prof Atul Bhargav
Satya Shrivastav	Mechanical	Prof Shankarjee Krishnamoorthi
Nikhil Singh	Mechanical	Prof Shankarjee Krishnamoorthi
Swapnil	Mechanical	Prof Vinod Narayanan
Tibin M Thomas	Mechanical	Prof Vinod Narayanan and Prof G K Sharma
Gurnani Sagarkumar Vijaykumar	Mechanical	Prof Murali Damodaran
Sawadiawala Chirag Yogeshkumar	Mechanical	Prof Murali Damodaran
Sarkar Aditya Anjan	MSE	Prof Jyoti Mukhopadhyay
Ipsita Madhu Mita Das	MSE	Prof Jyoti Mukhopadhyay
Diljit V J	MSE	Prof Emila Panda
Amit Kumar	MSE	Prof Jyoti Mukhopadhyay
Niladri Naskar	MSE	Prof Jyoti Mukhopadhyay
Seema Negi	MSE	Prof Superb Mishra
Amit Kumar Singh	MSE	Prof Jyoti Mukhopadhyay

2013 BATCH

Name of the Student	Discipline	Supervisor
Gunda Harini	Chemical	Prof Kabeer Jasuja
Dalip Kumar	Chemical	Prof Chinmay Ghoroi
Preeti Rathi	Chemical	Prof Rajagopalan Srinivasan
Sarojini Tiwari	Chemical	Prof Babji Srinivasan
Prafull Mani Tripathi	Chemical	Prof Sameer V Dalvi
Silky Agrawal	Civil	Prof Amit Prashant and Prof Nithin George

All listing as on March 31, 2015

Name of the Student	Discipline	Supervisor
Rujuta Avinash Bhat	Civil	Prof Gaurav
Kunal Vinayak Ghaisas	Civil	Prof Dhiman Basu
Puneet Kumar	Civil	Prof Gaurav
Mantu Majumder	Civil	Prof Amit Prashant
Amar Mandhyan	Civil	Prof Gaurav
Kiran Prakash Rangwani	Civil	Prof Dhiman Basu
S Smitha	Civil	Prof Ajanta Sachan
Gundeep Kaur Sudan	Civil	Prof Ajanta Sachan
Ravi Verma	Civil	Prof Dhiman Basu
Mandar Suresh Bhoir	Electrical	Prof Nihar Ranjan Mohapatra
Mohit Chand	Electrical	Prof Ragavan K
Mohit Dineshkumar Ganeriwala	Electrical	Prof Nihar Ranjan Mohapatra
Fathima Sinin P	Electrical	Prof Joycee Mekie
Dhaval Shashikantbhai Solanki	Electrical	Prof Uttama Lahiri
Chandra Sekhar Tunga	Electrical	Prof Joycee Mekie
Taruna Yadav	Electrical	Prof Uttama Lahiri
Sudani Jay Arvindbhai	Mechanical	Prof Murali Damodaran
Pratik Suryakant Shirbhate	Mechanical	Prof Atul Bhargav
Darshan Ajmera	MSE	Prof Emila Panda
Abdur Rahman Al Azad	MSE	Prof Jyoti Mukhopadhyay
Umang Bhupatrai Desai	MSE	Prof Jyoti Mukhopadhyay
Deendayal Kumar	MSE	Prof Jyoti Mukhopadhyay
Vighnesh Prasad	MSE	Prof S P Mehrotra
Rajiv Ranjan	MSE	Prof Abhijit Mishra
Abhishek Sarmah	MSE	Prof Jyoti Mokhopadhyay
Krishna Kumar Saxena	MSE	Prof Jyoti Mukhopadhyay

2012 BATCH

Name of the Student	Discipline	Supervisor
Palugulla Raja Mohan Reddy	Civil	Prof Dhiman Basu
Anuradha	Electrical	Prof Joycee Mekie
Irfan Ahmed	Mechanical	Prof Harish P M & Prof Abhijeet Mukherjee
Pragya Nandan Banjare	MSE	Prof Amit Arora

MSc STUDENTS

2104 BATCH

Name of the Student	Discipline
Payal Arora	Chemistry
Nayan Jyoti Boruah	Chemistry
Kanchan	Chemistry
Amit Kumar	Chemistry
Pavneesh Kumar	Chemistry
Rohit	Chemistry
Deepika Sharma	Chemistry
Ravi Srivastava	Chemistry
Midhula Chandran	Cognitive Science
Abhishek Gahatraj	Cognitive Science
Kishore Kumar Jagini	Cognitive Science
Devu Mahesan	Cognitive Science
Haby Koshy Mathew	Cognitive Science
Vipul Nair	Cognitive Science
Karthikeyan Palanisamy	Cognitive Science
Rakhi	Cognitive Science
Pankhuri Saxena	Cognitive Science
Dhruval Thakker	Cognitive Science
Aarti Bansal	Mathematics
Sarita Bugalia	Mathematics
Aman Gupta	Mathematics
Kartik Kumar	Mathematics
Nitesh Kumar	Mathematics
Vipin Kumar	Mathematics
Bharat Lal Meena	Mathematics
Shyam Prakash	Mathematics
Akash Kumar	Physics
Harish Madhok	Physics
Manish	Physics
Akash Kumar Mishra	Physics
Pritam Nanda	Physics
Nisha Nisha	Physics
Salman Suhail	Physics

2013 BATCH

Name of the Student	Discipline
Amit	Chemistry
Nisha Hasija	Chemistry
Palash Jana	Chemistry
Ashok Kumar	Chemistry
Amarjyoti Das Mahapatra	Chemistry
Aman Panwar	Chemistry
Khyati Relhan	Chemistry
Sampada Chandrashekhar Gharpure	Cognitive Science
Kinley Kucera Mehra	Cognitive Science
Ashwani Kumar Mishra	Cognitive Science
Ujjval Ashokkumar Pamnani	Cognitive Science
Ratna	Cognitive Science
Simily Sabu	Cognitive Science
Samyak Shah	Cognitive Science
Aditya Singh	Cognitive Science
Goldy Yadav	Cognitive Science
Hamza Mohd Zubair	Cognitive Science
Shivam Dhama	Mathematics
Ekta	Mathematics
Shruti Gupta	Mathematics
Ashwani Kumar Malik	Mathematics
Mukund Kumar Mishra	Mathematics
Nitin	Mathematics
Prem Singh	Mathematics
Mukesh Kumar Verma	Mathematics
Vishakha	Mathematics

All listing as on March 31, 2015

MA STUDENTS

2014 BATCH

Name of the Student	Discipline
B Ratna Bharti	Society and Culture
Aakrati Vinod Gupta	Society and Culture
Oza Bhargav Hiren	Society and Culture
Arun Krishna	Society and Culture
Asaf Ali Lone	Society and Culture
Tushar Meshram	Society and Culture
Bhandari Saumya Nareshkumar	Society and Culture
Joshi Nupur Nitin	Society and Culture
Utsav Singh	Society and Culture
Mudavat Srinivas	Society and Culture
Saravanan V	Society and Culture
Rajan Varghese	Society and Culture
Sini Susan Varghese	Society and Culture

PGDIT STUDENTS

2014 BATCH

Name of the Student	Discipline
Jatin Arora	Electrical
Komal Abichandani	Electrical
Vora Aditya Narendrabhai	Electrical
Mohammed Gowhar I	Mechanical
Ashwin R Kabasadgoudar	Mechanical
Dhruvil Mukeshkumar Shah	Mechanical

2013 BATCH

Name of the Student	Discipline
Rituraj Chauhan	Mechanical

BTECH STUDENTS
2014 BATCH

Name of the Student	Discipline
Roy Nikhil Aditya	Chemical
Parash Aggarwal	Chemical
Potturu Apurva	Chemical
Gohil Vasudev Arvindkumar	Chemical
Pawar Bhushan	Chemical
Himanshu Jaswant Singh Chauhan	Chemical
Ashish Gehlot	Chemical
More Mayuresh Hiren	Chemical
Siddharth Sheshadri K	Chemical
Badri Vishal Meena	Chemical
Lakshmi Narayan Meena	Chemical
Shersingh Meena	Chemical
Arul Mozhi Devan P	Chemical
Mridul Pareek	Chemical
Navdeep Prakash	Chemical
Konde Mandar Purushottam	Chemical
Jani Purvil Rahulbhai	Chemical
Abhinay Rana	Chemical
Raveena	Chemical
Arvind Roshaan S	Chemical
Bhaskar Jyoti Saikia	Chemical
Aashay Sandansing	Chemical
Kapil Sharma	Chemical
Navpreet Singh	Chemical
Lakshmi Gayatri Sivalenka	Chemical
Aditya Sundaram	Chemical
Mukul Tyagi	Chemical
P R Vaidyanathan	Chemical
Varun Aggarwal	Civil
Borse Dinesh Anil	Civil
Aketi Sai Aparna	Civil
V Avinash	Civil
Kamlesh Choudhary	Civil

Name of the Student	Discipline
Devanand	Civil
Veeravalli Sai Ganesh	Civil
Anusha Gupta	Civil
Pranav Kumar Gupta	Civil
Kunal Jain	Civil
Prakrut Kansara	Civil
Sushant Kumar	Civil
Rohit Kumar	Civil
Pushpender Kumar Kuntal	Civil
Rathava Sanjeev Maheshbhai	Civil
Kartik Mandlekar	Civil
Satish Kumar Meena	Civil
Homit Singh Pal	Civil
Heet Vasudevbhai Patel	Civil
Satya Prakash	Civil
Anmol Kishore Raina	Civil
Solanki Vidhi Rasik	Civil
Sheru Aravind Reddy	Civil
Pranavkumar S	Civil
Ajay Singh Shekhawat	Civil
Khushdeep Singh	Civil
Vishal Kumar Sinha	Civil
Abhay Varshney	Civil
B Pranav Chakra Varthy	Civil
Bhoge Shashank Vilas	Civil
Vikas Yadav	Civil
Ajay	Electrical
Patel Parva Apurva	Electrical
Rahul Raj Bharati	Electrical
Varade Amit Bhaskar	Electrical
Amit Bhongade	Electrical
Jagdish Choudhary	Electrical
Anmol Gaur	Electrical

Name of the Student	Discipline
Aditya Goel	Electrical
Himanshu Goswami	Electrical
Rachit Goyal	Electrical
Bhavya Jain	Electrical
Ashim Raj Konwar	Electrical
Gottumukala Sai Rama Krishna	Electrical
Koda Dinesh Kumar	Electrical
Vikas Kumar Meena	Electrical
Himanshu Pal	Electrical
Vaishnavi Sunil Patil	Electrical
Duthade Sanket Rajesh	Electrical
Desai Ashutosh Rameshbhai	Electrical
Sarvepalli Nagasai Vardhan Rao	Electrical
Bagade Saurabh Sanjay	Electrical
Kshiteej Jitesh Sheth	Electrical
Ayush Shrote	Electrical
Nagare Ashwini Tukaram	Electrical
Mayur Madhav Vishe	Electrical
Rushil Shamkant Vispute	Electrical
Yashovardhan	Electrical
Joshi Ankita Abhay	MSE
Garima Chaudhary	MSE
Deepak Dhariwal	MSE
Sisara Pratikkumar Dhirubhai	MSE
Dudhat Kunal Hansraj	MSE
M Barath Kanna	MSE
Aditya Kumar	MSE
Bhupendra Kumar	MSE
Praneet Kumar	MSE
R Yashwanth Kumar	MSE
Sushil Kumar	MSE
Ayush Mathur	MSE
Antima Meena	MSE
Jugal Mehta	MSE
Tandale Mohit Mukundraj	MSE
Kaustubh Shirish Panse	MSE
Nithin Ramesh	MSE

Name of the Student	Discipline
Patel Zainab Shabbar	MSE
Dileep Singh	MSE
Kotamsetti Ravi Teja	MSE
Setti Satya Sai Venkata Ravi Teja	MSE
Ayushman Tripathi	MSE
Mitta Venkata Sai Viswanath	MSE
Akhilesh	Mechanical
Prathamesh Badve	Mechanical
Yash Bohre	Mechanical
Shirpurkar Chinmay Deepak	Mechanical
Vakharia Vismay Dilipkumar	Mechanical
Harshad Gawali	Mechanical
Solleti Goutham	Mechanical
Modi Harsh Jashvantbhai	Mechanical
Janga Sai Kiran	Mechanical
Patel Pinank Kishorbhai	Mechanical
Rahul Kumar	Mechanical
Subodh Kumar	Mechanical
Vivek Kumar	Mechanical
Dabhi Parth Lalitkumar	Mechanical
Sonar Chinmay Narendra	Mechanical
Tushar Nirmal	Mechanical
Gohil Karan Nitinbhai	Mechanical
Vaibhav S Pal	Mechanical
Nishant Patel	Mechanical
Prasanna	Mechanical
Pragadeesh R R	Mechanical
Vinod Ramakrishnan	Mechanical
Ninama Rishilkumar	Mechanical
Singampalli Sai Rohit	Mechanical
Panna Lal Saini	Mechanical
Trivedi Jaldhir Sanjay	Mechanical
Ahamed Naji Shaham	Mechanical
Krishna Kumar Soni	Mechanical
Dave Sowill	Mechanical
Relan Udit Surendra	Mechanical
Parab Amogh Vishram	Mechanical

All listing as on March 31, 2015

2013 BATCH

Name of the Student	Discipline
Gawas Ramchandra Babali	Chemical
Kushagra Bhargava	Chemical
Lakh Chand	Chemical
Maurya Jainidhi Chandraveer	Chemical
Rajat Kumar Gupta	Chemical
Devanshu Manoj Jain	Chemical
Sargam Jain	Chemical
Kanzariya Bhavya Jayantilal	Chemical
Kesani Kalyani	Chemical
Patel Kishankumar Kaushikbhai	Chemical
Harsh Khandelwal	Chemical
Purushottam Kumar	Chemical
Suman Kumari	Chemical
Joshi Vaibhav Mohan	Chemical
Desadla Rushabh Pravin	Chemical
Priyanka	Chemical
Ramniwas	Chemical
Dewansh Rastogi	Chemical
Nisha Rawat	Chemical
Anurag Singhania	Chemical
Sourabh Soni	Chemical
Sahilkumar Tabiyad	Chemical
Akshay Kumar Verma	Chemical
Prince Kumar Verma	Chemical
Srinivasan A	Civil
Roshan Agarwal	Civil
Abhishek Anand	Civil
Sai Kiran Bojja	Civil
Manu Chaudhary	Civil
Ram Pranav Agasthya Purhit Chavaly	Civil
Shaleen Chhajer	Civil
Bulabai Sreedhar Gopikrishna	Civil
Sakkari Akash Goud	Civil
Anurag Goyal	Civil
Mayank Jain	Civil
Rishabh Jain	Civil
Yogendra Jaiswal	Civil

Name of the Student	Discipline
Baviskar Pushpak Kailas	Civil
Mayank Khewaria	Civil
Aashish Kose	Civil
Dharmendra Kumar	Civil
Hemant Kumar	Civil
Punit Kumar	Civil
Rahul Kumar	Civil
Sachin Kumar	Civil
Shailendra Kumar	Civil
Osker	Civil
Praveen Pandey	Civil
Pomraj Prajapat	Civil
Narendra Sarswat	Civil
Mohammad Faisal Seh	Civil
Nikhil Sharma	Civil
Prerna Singh	Civil
Vaddineni Srija	Civil
Ajmeera Venkanna	Civil
Rishab Anand	Electrical
Damacharla Aravind	Electrical
Aparna Arya	Electrical
Ankit Pritam Bhange	Electrical
Vora Aatman Chandresh	Electrical
Aditya Ganesh	Electrical
Patil Shubham Hanumant	Electrical
Doshi Darshil Hiteshbhai	Electrical
Rushi Jariwala	Electrical
Pathak Kapil Jayesh	Electrical
Anikesh Satish Kamath	Electrical
Samarth Kashyap	Electrical
Jitendra Kuldeep	Electrical
Pabbathi Akhil Kumar	Electrical
Puja Kumari	Electrical
Shubham Malav	Electrical
Siyaram Meena	Electrical
Sumit Kumar Meena	Electrical
Shashank Mehra	Electrical
Niharika	Electrical

Name of the Student	Discipline
Kashyap Patel	Electrical
Vipin Prajapati	Electrical
Manav Raj	Electrical
Chenchala Sai Ramana Reddy	Electrical
Vootla Krishna Sai	Electrical
Ekta Umesh Samani	Electrical
Vyas Samir	Electrical
R Sanjana	Electrical
Goel Pratham Rajkumar Saroj	Electrical
Namana Naga Sindhu	Electrical
Kshitij Singh	Electrical
Lokesh Singh	Electrical
Rajendra Singh	Electrical
Shah Aditya Suresh	Electrical
Nikhil Tank	Electrical
Amit Tiwari	Electrical
Dinendra Pratap Singh Tomar	Electrical
Bhuwan Vyas	Electrical
Sakshi Yadav	Electrical
Bhumil Acharya	Mechanical
Ankit Agarwal	Mechanical
Venu Gopal Agarwal	Mechanical
Anurag Agrawal	Mechanical
Bhagat Rajan Balister	Mechanical
Thakor Nilaysinh Bharatsinh	Mechanical
Chauhan Bhargav Bipinbhai	Mechanical
Prathyusha Challa	Mechanical
Harsh Chandra	Mechanical
Manjeet Chaudhary	Mechanical
Bhosale Surajkumar Dhananjay	Mechanical
Rana Jainishkumar Dineshbhai	Mechanical
Jitendra Gehlot	Mechanical
Vaibhav Gupta	Mechanical
Chauhan Darshil Jitendrabhai	Mechanical
Tanay Kankane	Mechanical
Amber Kothari	Mechanical
Sumit Kumar	Mechanical
Mundru Hemanth Surya Madhav	Mechanical
Suryakumar Mane	Mechanical
Ramtekkar Shashank Manohar	Mechanical
Ankit Mittal	Mechanical
Rohit Nanavati	Mechanical
Nishanth	Mechanical
Biradala David Noel	Mechanical
Shubham Patle	Mechanical
Pawan	Mechanical
Valleti Sai Mani Prudhvi	Mechanical
Somireddy Uday Kumar Reddy	Mechanical
Bubna Rakesh Rishi	Mechanical
Raut Abhishek Satish	Mechanical
Shah Jugal Saurin	Mechanical
Kanak Sharma	Mechanical
Sarabjeet Singh	Mechanical
Guguloth Srinivas	Mechanical
Sharad Kumar Tiwari	Mechanical
Teki Vinay	Mechanical
Amit Yadav	Mechanical
Joshi Ojas Yashwant	Mechanical

2012 BATCH

Name of the Student	Discipline
Palkar Vaibhav Abhay	Chemical
K Abhishek	Chemical
Adappa Ashray Amarnath	Chemical
Sanchayni Bagade	Chemical
Surendra Beniwal	Chemical
Himanshu Bikonia	Chemical
Sagar Chawla	Chemical
Hema Choudhary	Chemical
Diwakar Pradeep Dayaram	Chemical
Wagh Vidyanand Girish	Chemical
Kishore Kumar J	Chemical
Dheeraj Kumar Kanoje	Chemical
Lavdeep Kaur	Chemical
Mukesh Kumar	Chemical
Sushil Kumar	Chemical
Mangi Lal	Chemical

All listing as on March 31, 2015

Name of the Student	Discipline
Vivek Maida	Chemical
Kanak Kumar Dasharathlal Nayak	Chemical
Virendra Singh Panwar	Chemical
Sweta Parmar	Chemical
Chaudhary Kunal Ramkishun	Chemical
Palak Sadani	Chemical
Sunil Sahra	Chemical
Prashant Shekhar	Chemical
Nishit Shetty	Chemical
Abhimanyu Singh	Chemical
Manjot Singh	Chemical
Suman Kumar Singh	Chemical
Abhishek Verma	Chemical
Vikram Alriya	Electrical
Deyyam Avinash	Electrical
Naman Bansal	Electrical
Rajat Chaudhary	Electrical
Gullapally Sai Chowdary	Electrical
Shashank Gautam	Electrical
Akhilesh Gotmare	Electrical
Ashish Kumar Gupta	Electrical
Gaurav Gupta	Electrical
Ajinkya Tupkar Jain	Electrical
Rajat Singh Jeriya	Electrical
Muhammed Yaseen K	Electrical
Narendra Kawaria	Electrical
Ajnadkar Chinmay Kishor	Electrical
Ch Suryavinay Koundinya	Electrical
Chitranshu Kumar	Electrical
Naveen Kumar	Electrical
Prashant Kumar	Electrical
Animesh Singh Kumawat	Electrical
Salecha Kushal	Electrical
Paturu Veerabadra Lokesh	Electrical
Latika Meena	Electrical
Rajesh Kumar Meena	Electrical
Sanjay Kumar Meena	Electrical
Somani Dipen Omprakash	Electrical

Name of the Student	Discipline
Shubham Pachori	Electrical
Shrikant Patel	Electrical
Malireddi Sri Raghu	Electrical
Abhishek Ranjan	Electrical
Mudit Rathor	Electrical
Medaramatla Sidhartha Reddy	Electrical
Kamanuru Vamsidhar Reddy	Electrical
Byrapuram Venkata Vijaya Bharath Reddy	Electrical
Nikhil Samariya	Electrical
Mehta Yash Sanjay	Electrical
Raj Shekhar	Electrical
Alok Singh	Electrical
Jatindeep Singh	Electrical
Naman Singh	Electrical
Prince Kumar Singh	Electrical
Manish Soni	Electrical
N S Subrahmanya Teja	Electrical
Gudaram Sai Vaibhav	Electrical
Tushar Anchan	Mechanical
P V S Anurag	Mechanical
Mihir Milind Bhalerao	Mechanical
Rajat Shiv Chand	Mechanical
Sultania Yash Deepak	Mechanical
Kunal Devedwal	Mechanical
Rocky Dongre	Mechanical
Rahul Garg	Mechanical
Shah Shrey Hitesh	Mechanical
Chitnis Parag Jayant	Mechanical
Nirmal Jayaprasad	Mechanical
Sanjit Jena	Mechanical
Naveen Kumar	Mechanical
Penumaka Aruna Kumarudu	Mechanical
Koushik Mani	Mechanical
Devendra Meena	Mechanical
Shashank Nigam	Mechanical
Karan Palaskar	Mechanical
Rahul Kumar Pandey	Mechanical
Shashank Kishore Pareta	Mechanical

Name of the Student	Discipline
Karma Patel	Mechanical
Nikita Patta	Mechanical
Pardeep Phullay	Mechanical
Jithin Prabha	Mechanical
Mane Prasannajeet Pradip	Mechanical
Vadera Meet Prakashbhai	Mechanical
Anarse Ashish Pralhad	Mechanical
Patil Radhika Pramod	Mechanical
Rakesh Ranjan	Mechanical
Muzammil Rawoot	Mechanical
Pranshul Saini	Mechanical
Vaichal Saurabh Sandeep	Mechanical
Vaijanapurkar Samarth Sanjiv	Mechanical
Ankita Sharma	Mechanical
Gaurav Sharma	Mechanical
Ritwik Shukla	Mechanical
Harshvardhan Singh	Mechanical
Abhinav Singh	Mechanical
Vishvendra Singh	Mechanical
Yash Pratap Singh	Mechanical
M Surya	Mechanical
Hydarali M T	Mechanical
Konduru Venkata Naga Sai Ravi Teja	Mechanical
Divyansh Tripathi	Mechanical
Margaj Om Vijay	Mechanical
Shah Sanket Viren	Mechanical

2011 BATCH

Name of the Student	Discipline
Pinjala Anoop	Chemical
Dilip Kumar Badgurjar	Chemical
Yashodeep Prabhu Chavhan	Chemical
Manasa Jangala	Chemical
Rahul Prabhakar Khandait	Chemical
Banoth Surya Kiran	Chemical
Gubbala Pawan Kumar	Chemical
Turibilli Sravan Kumar	Chemical
Bhumireddy Shanmukha Manoj	Chemical
Prem Prakash Meena	Chemical
Reddy Dwaraka Nath	Chemical
Shah Mihika Nitin	Chemical
Dhruv Pancholi	Chemical
Ankit Pandole	Chemical
Ayushi Patel	Chemical
Parag Pradeep Kumar Ramteke	Chemical
Vinod Kumar Rangi	Chemical
Aditya Amol Samant	Chemical
Abhishek Sancheti	Chemical
Chowhan Santhosh	Chemical
Shaurya Seth	Chemical
Tushti Shah	Chemical
Sudiksha Sridhar	Chemical
Sukriti	Chemical
Bhangale Monish Sunil	Chemical
Nandan Paresh Vora	Chemical
Akshay	Electrical
Gangopadhyay Aalok Ashok	Electrical
Thakkar Dhaval Ashwin	Electrical
Prateek Baldwa	Electrical
Chetan Kumar Choudhary	Electrical
Shah Preet Devang	Electrical
Dalvi Ashwin Dinesh	Electrical
Pankaj Gautam	Electrical
Parth Gudhka	Electrical
Mishita Jaiswal	Electrical
Mahajan Piyush Jeevan	Electrical
Heda Shashank Kamlesh	Electrical
Pamarthi Chandra Kanth	Electrical
Rizu Khanwilkar	Electrical
Manoj Kumar	Electrical
Ravi Kumar	Electrical
Shah Raj Manish	Electrical
Vaibhav Mathur	Electrical
Sanjay Kumar Meena	Electrical
K R B Lokeswar Naik	Electrical
Rao Nishant Nanubhai	Electrical

All listing as on March 31, 2015

Name of the Student	Discipline
Pathe Tilak Narendra	Electrical
Rohan Patidar	Electrical
Patwardhan Apoorv Prakash	Electrical
Shinde Durvesh Pravin	Electrical
Deep Rahul	Electrical
Kondagorri Pridhvi Raj	Electrical
Shisode Sushilkumar Rajendra	Electrical
Gandhi Vaibhav Rajesh	Electrical
Dave Ujash Rameshwar	Electrical
Mukesh Singh Rawat	Electrical
Panuganti Sandeep Reddy	Electrical
Lingala Thrinath Reddy	Electrical
Joshi Vinit Sanjay	Electrical
Abhishek Singh	Electrical
Abhishek Soni	Electrical
Shivam Mani Tripathi	Electrical
Kale Kimaya Uday	Electrical
Ishan Upadhyaya	Electrical
Prashant Verma	Electrical
Sane Parth Vishwas	Electrical
Himanshu Yadav	Electrical
Abhay C A	Mechanical
Akash	Mechanical
Aryan	Mechanical
Navarkar Abhishek Chandrakant	Mechanical
Ayush Choudhary	Mechanical
Ajay Devedwal	Mechanical
Bhat Prathamesh Ganesh	Mechanical
Anshul Gupta	Mechanical
Rahul Harnotia	Mechanical
Taldevkar Madan Janardan	Mechanical
Vekaria Sachchit Kalyan	Mechanical
Ronak Khandelwal	Mechanical
Saraswathibhatla Aashrith Koundinya	Mechanical
Bajrang Lal Kudi	Mechanical
Mahesh Kumar	Mechanical
Pradeep Kumar	Mechanical
Ramesh Kumar	Mechanical
Hira Lal	Mechanical
B Manasa	Mechanical
Shah Dhyey Mayankkumar	Mechanical
Krishan Kumar Meena	Mechanical
Rounak Mehta	Mechanical
Utsav Y Mistry	Mechanical
Shreyans Nahar	Mechanical
Joy Narang	Mechanical
G N Lakshmi Narasimhan	Mechanical
Prasit Pal	Mechanical
Utkarsh Prakash Panchbhai	Mechanical
Rajesh Patidar	Mechanical
Lalit Prajapat	Mechanical
Vivek Prakash	Mechanical
Randad Akshay Purushottamji	Mechanical
Mehta Sahil Ramesh	Mechanical
Harshe Soham Ravindra	Mechanical
Gupta Harsh Sanjay	Mechanical
Mayank Shekhar	Mechanical
Mahamuni Gaurav Shivhar	Mechanical
Akash Keshav Singh	Mechanical
Milan Singh	Mechanical
Saurabh Singhal	Mechanical
Dunga Sujit	Mechanical
Pachipulusu Sai Teja	Mechanical
Eepsit Tiwari	Mechanical
Vishal Yadav	Mechanical

2010 BATCH

Name of the Student	Discipline
Patil Chetan Chandrakant	Chemical
Akshya Kumar	Chemical
Punit Rawat	Chemical
Ashish Kumar Sehra	Electrical

2009 BATCH

Name of the Student	Discipline
Vaddheswaram Jashuva	Mechanical

VISION MISSION AND VALUES

CORE FEATURES
PRINCIPLES
VALUES
MISSION
VISION
GOALS

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.

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.

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.

INDIAN INSTITUTE OF
TECHNOLOGY GANDHINAGAR

PALAJ

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