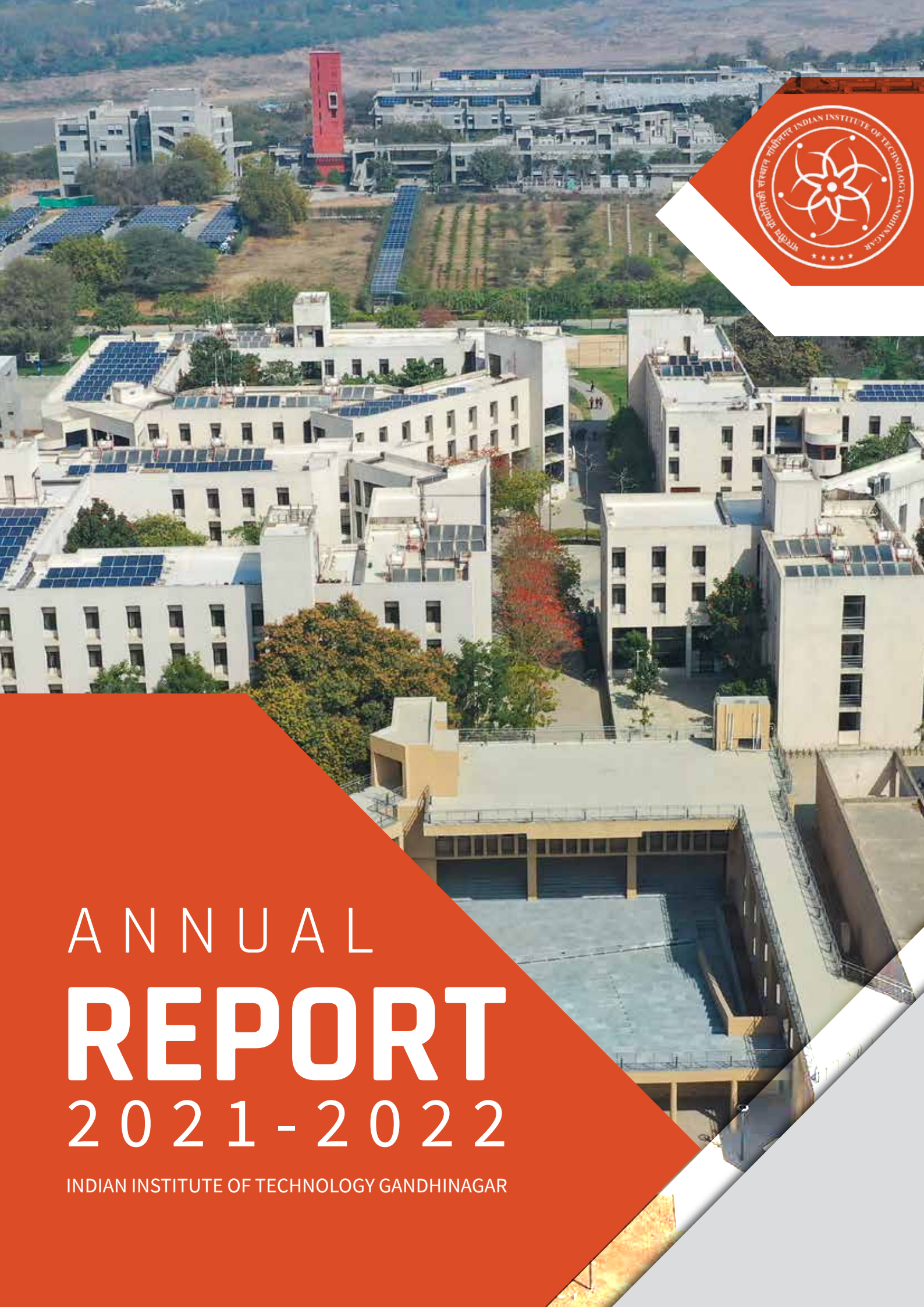


ANNUAL REPORT 2021-2022

INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

CONTENT

Vision mission and values

CORE FEATURES

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

PRINCIPLES

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

VALUES

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

MISSION

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

GOALS

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

VISION

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

From the Director's Desk

Prof Amit Prashant | Officiating Director

This year saw us transitioning out of "virtual mode". As the effects of COVID started to ease off, we have moved into a new and enhanced normal. Our state of affairs for the better half of the year have been a combination of fully in-person operations infused with increased efficiency with the use of tools and technology that have helped us tide over the pandemic years. Safety continues to be our top priority.

On the academic front, we launched the "Student Well-Being" initiative to provide them a nurturing environment to share their problems, be it academic or non-academic, and seek support from a team of committed faculty members. We are also opening up new opportunities for IIT education for bright students from India and abroad through special admission programmes. IITGN has created supernumerary seats to provide BTech admission to students selected for training camps for the oldest four International Olympiads: Mathematics, Physics, Chemistry, and Informatics. The Institute has set up a process for the selection and admission of students through this window. For the first time, IITGN also introduced winter admissions for international students to its postgraduate programmes.

We are very proud of the fact that our young alumni continue to stay highly engaged with the Institute: at least 50% of IITGN alumni contributed to the "Annual Alumni Giving" for the third consecutive year. These are among the highest alumni participation rates at higher education institutes in the world. Several new scholarships were instituted during the year, many by our young alumni. These include: Lakshmi Vadali Excellence Scholarship, Dr T G Visweswaraiah Scholarship, Shri Satyanarayan Kakrania Scholarship, Shri Anandilal Bubna Scholarship, Nisha and Vipin Jain Scholarship, Seva Scholarship, and Prof B L Jha Memorial Scholarship. TATA Motors Limited has also extended its grant support for the TATA Motors Limited - Financial Aid Program (TML-FAP) at IITGN for another year, which provides financial assistance to students from economically weaker background. The Institute also received CSR donations from the industry, including Ingersoll Rand (India) Limited and CSI Engineering Software Pvt Ltd.

The Institute has further cemented its relations with other academic institutions, government, and industry through several national and international collaborations. IITGN and the University of Durham, UK have entered into a Memorandum of Understanding (MoU) on Nov 17, 2021, for cultural, educational and scientific cooperation

through students, faculty, and knowledge exchange between both institutions. Earlier last year, IITGN signed two MoUs with NIT Sikkim (NITS) and NIT Hamirpur (NITH) to facilitate student exchange, academic cooperation, and research collaboration among faculty members of both the institutes.

IITGN has entered into a Memorandum of Understanding (MoU) with the Climate Change Department, Government of Gujarat, on Feb 21, 2022, to forge a strategic partnership for the development of climate change policy and a roadmap for net-zero by 2070 for Gujarat. Another agreement was signed with the Directorate of Technical Education, Gujarat and the Government of Gujarat, on Jan 05, 2022, to build a strategic partnership in the area of educational setup of external student exchange programmes at IITGN for students of Government Engineering Colleges in Gujarat. The Institute has also inked an MoU with the Gujarat Council of Science City on Feb 23, 2022, to promote STEM education and creativity, and conducted an Industry Connection meeting with the members of the Gujarat Chamber of Commerce and Industry (GCCI) on Mar 03, 2022. We continue to drive significant innovation on the research front. Two patents were granted during this period, and two faculty-led companies have started operations, with one more underway.

The Institute continues to recruit outstanding faculty. In the last one year, 11 new career faculty members have joined the Institute. The institute has initiated a Special Recruitment Drive as well in mission mode to select career faculty from underrepresented and reserved classes. Presently, the Institute has 120 career faculty members and about 30 non-career faculties including visiting faculty. Five faculty chair positions were awarded this year: the Smt Amba and Sri V S Sastry Chair, Dr Vilas Mujumdar Chair, Smt Meera and Prof Girish K Sharma Chair, Kankuben Bakshirambhai Gelot Chair, and the Dr Dinesh O Shah Chair. We also have over 80 post-doctoral fellows.

Our campus construction is progressing well. Except the academic buildings, all other important phase 1 projects have been completed and operationalised. The new IITGN Research Park and IIEC complex is now functional with several start-ups and companies operating from there. We are also creating co-working space for companies and start-ups. We have also commissioned our new Sports Complex with several world-class facilities for various indoor and outdoor sports/activities, including Badminton Courts, Squash Courts, Table Tennis, Volleyball Court, Basketball Court, Yoga Hall, Gym, Climbing Wall, Football Ground, Cricket Ground, Athletic Track, and so on. It is already attracting enthusiastic participation from students and the community. These facilities will eventually open up for general use the external community as well.

We remain committed to our outreach activities. Continuing its commitment to uplift the surrounding communities, especially youth and women, NEEV-IITGN conducted several skill development courses and trained over 200 rural women and youth from nearby villages in various skills. These programs have been supported by Desai Foundation Trust, Gujarat State Petronet Limited (GSPL), and Masibus Automation. Nyasa continued to touch lives of on-campus contractual workers and construction workers, with support from the entire IITGN community. In yet another initiative towards community outreach, IITGN also conducted weekly Medical Camps at the construction workers' colonies on rotational basis with diligent efforts by the medical staff of the Institute.

Ahead of the National Science Day on Feb 28, IITGN organised Science Awareness Week for school students of classes 11th and 12th. More than 800 school students and teachers from the Ahmedabad/Gandhinagar region participated in the programme. Our Center for Creative Learning conducted several educational series and activities to promote the joy of learning Science and Maths, including '30-30 Eklavya series' in collaboration with CBSE; 'Sparkle Series' for about 10,000 Vigyan Jyoti scholars of class 11 from 200 Jawahar Navodaya Vidyalayas (JNVs) across the country; and the 'Curiosity' programme with Sarva Shiksha Abhiyan, Uttar Pradesh, to improve science education for around 74,600 girl students in 746 Kasturba Gandhi Balika Vidyalayas of UP. The Curiosity Lab at IITGN, which is an interdisciplinary space that promotes research and outreach initiatives on Curiosity, conducted three different curiosity camps which also received an overwhelming response.

Finally, this was also the year that the Institute bid adieu to its founding director Prof Sudhir K Jain, who has been appointed as the Vice-Chancellor of the Banaras Hindu University (BHU), Varanasi. IIT Gandhinagar has had a strong cultural and philosophical foundation, in no small measure thanks to the leadership of Prof. Jain for over a decade. I am confident that the spirit of IITGN will remain strong in the years to come, and I look forward to welcoming a new and exciting phase of growth as we go from here.

Prof Amit Prashant
Officiating Director

Organisation

BOARD OF GOVERNORS

(As on Mar 31, 2022)

CHAIRMAN

DR SANJIV GOENKA
RP-Sanjiv Goenka Group
Kolkata

MEMBERS

DR B N GANGADHAR
Former Director
National Institute of Mental Health and Neurosciences
Bengaluru

SHRI B C TRIPATHI
Former Chairman & Managing Director GAIL (India) Limited
New Delhi

SHRI KAMAL BALI
President & Managing Director
Volvo Group India Private Limited
Bengaluru

SHRI RAKESH RANJAN, IAS
Additional Secretary (Technical Education)
Department of Higher Education
Ministry of Education Government of India, New Delhi

SHRI PANKAJ KUMAR, IAS
Chief Secretary
Government of Gujarat
Gandhinagar

SHRI PRAFULBHAI K PATEL
Administrator
UT Administration of Daman and Diu Daman (UT)

PROF SUDHIR K JAIN
Director (Apr 1, 2021 – Jan 3, 2022)
Indian Institute of Technology Gandhinagar

PROF AMIT PRASHANT
Officiating Director (Jan 4, 2022 onwards)
Professor
Indian Institute of Technology Gandhinagar

PROF PRANAB MOHAPATRA
Professor
Indian Institute of Technology Gandhinagar

SECRETARY

SHRI P K CHOPRA
Registrar
Indian Institute of Technology Gandhinagar

FINANCE COMMITTEE

(As on Mar 31, 2022)

CHAIRMAN

DR SANJIV GOENKA

Chairman
RP-Sanjiv Goenka Group
Kolkata

MEMBERS

PROF SUDHIR K JAIN

Director (Apr 1, 2021 – Jan 3, 2022)
Indian Institute of Technology Gandhinagar

PROF AMIT PRASHANT

Officiating Director (Jan 4, 2022 onwards) and Professor
Indian Institute of Technology Gandhinagar

SHRI RAKESH RANJAN, IAS

Additional Secretary (Technical Education)
Department of Higher Education
Ministry of Education Government of India, New Delhi

SMT DARSHANA M DABRAL

Joint Secretary (Integrated Finance Bureau) & Financial Advisor
Ministry of Education Government of India, New Delhi

SHRI BHADRESH MEHTA

Chartered Accountant
Ahmedabad

PROF PRATIK MUTHA

Associate Professor
Indian Institute of Technology Gandhinagar

SECRETARY

SHRI P K CHOPRA

Registrar
Indian Institute of Technology Gandhinagar

BUILDING AND WORKS COMMITTEE

(As on Mar 31, 2022)

CHAIRMAN

PROF SUDHIR K JAIN

Director (Apr 1, 2021 – Jan 3, 2022)
Indian Institute of Technology Gandhinagar

PROF AMIT PRASHANT

Officiating Director (Jan 4, 2022 onwards) and Professor
Indian Institute of Technology Gandhinagar

MEMBERS

PROF NEELKANTH CHHAYA

Former Dean
Faculty of Architecture
CEPT University
Ahmedabad

SHRI M B BHALALA

Former Chief Engineer
Roads & Buildings Department
Government of Gujarat
Gandhinagar

SHRI K S WAGH

Chief Advisor (Civil Infrastructure)
Indian Institute of Technology Bombay

SHRI A K JAIN

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

SHRI L P SRIVASTAVA

Advisor (Works)
Indian Institute of Technology Gandhinagar

PROF GAURAV SRIVASTAVA

Dean (Campus Development)
Indian Institute of Technology Gandhinagar

SECRETARY

SHRI P K CHOPRA

Registrar
Indian Institute of Technology Gandhinagar

SENATE

(As on Mar 31, 2022)

CHAIRMAN

PROF SUDHIR K JAIN

Director (Apr 1, 2021 – Jan 3, 2022)
Indian Institute of Technology Gandhinagar

PROF AMIT PRASHANT

Officiating Director (Jan 4, 2022 onwards) and Professor
Indian Institute of Technology Gandhinagar

MEMBERS

Prof D P Roy
Prof G K Sharma
Prof S P Mehrotra
Prof Pranab Kumar Mohapatra
Prof Vikrant Jain
Prof Jaison Manjaly
Prof Chinmay Ghoroi
Prof Sameer Dalvi
Prof Nihar Ranjan Mohapatra
Prof Anirban Dasgupta
Prof Indranath Sengupta
Prof Arup Lal Chakraborty
Prof Uttama Lahiri
Prof Atul Bhargav
Prof Vimal Mishra
Prof Deepak Kunzru
Prof Namit Mahajan
Prof Gayatri Menon
Mr Anand Parekh
Mr Sunil Parekh
Prof Kabeer Jasuja
Prof Gaurav S
Prof Sivapriya Kirubakaran
Prof Pratik Mutha
Prof Sharmistha Majumdar
Prof Bhaskar Datta
Prof Udit Bhatia
Prof Saumyakanti Khatua
Prof Sudipta Basu
Prof Pratyush Dayal
Prof Mithun Radhakrishna
Prof Vineet Vashista
Prof Neeldhara Misra
Prof Shanmuganathan R
Prof Naran Pindoriya
Prof Nithin V George
Prof Ambika Aiyadurai
Prof Sharmita Lahiri
Prof Jagmohan Tyagi
Prof Akshaa Vatwani
Prof Vinod Narayanan
Prof Dilip Srinivas Sundaram
Prof Amit Arora
Prof Abhijit Mishra
Prof Vinod Chandra
Prof Krishna Kanti Dey

SECRETARY

Shri P K Chopra
Registrar

PERMANENT INVITEE

Dr T S Kumbar
Librarian

STUDENT INVITEES

Rama Balhara
General Secretary, Student Council
Anas Ali
Convener, Student Senate
Dhanesh Bhutada (BTech 2018)
Varad P Kausadikar (MTech 2020)
Prashant Mishra (PhD 2018)

STANDING COMMITTEES OF THE SENATE

SENATE ACADEMIC PERFORMANCE EVALUATION COMMITTEE (SAPEC)

Prof Sameer Dalvi, Convener
Prof Kabeer Jasuja, (Dean AA)
Prof Dilip Srinivas Sundaram
Prof Saumyakanti Khatua
Prof Bhaskar Datta
Prof Indranath Sengupta
Prof Sharmita Lahiri
Prof Jhuma Saha
Prof S Rajendran
Prof Joycee Mekie

SENATE ACADEMIC PROGRAMMES COMMITTEE (SAPC)

Prof Kabeer Jasuja, Dean, Academic Affairs [Chairman, Ex-Officio]
Prof Dilip Srinivas Sundaram
Prof Saumyakanti Khatua
Prof Sameer Dalvi
Prof Vikrant Jain
Prof Jaison A Manjaly
Prof Sharmistha Majumdar
Prof Chinmay Ghoroi
Prof Sudipta Basu
Prof Vimal Mishra
Prof Pratik Mutha
Prof Anirban Dasgupta
Prof Naran Pindoriya
Prof Ambika Aiyadurai
Prof Amit Arora
Prof Jagmohan Tyagi
Prof Vinod Narayanan
Prof Vinod Chandra
Bhavya Gupta (Student Nominee)
Revant Shah (Student Nominee)

SENATE SCHOLARSHIPS AND PRIZES COMMITTEE (SSPC)

Prof Sivapriya Kirubakaran, Chairman (Dean, Student Affairs)
Prof Abhijit Mishra
Prof Naran Pindoriya
Prof Manish Kumar
Prof Chetan Pahlajani

SENATE STUDENT AFFAIRS COMMITTEE (SSAC)

Prof Sivapriya Kirubakaran, Chairman (Dean, Student Affairs)
Prof Angus McBlane
Prof Raghavan Ranganathan
Prof Meera M Sunny
Prof Sharmistha Majumdar
Prof Chandrakumar Appayee
Prof Arnab Saha
Rama Balhara (General Secretary, Student Council)
Anas Ali, Convener, (Student Senate)
Harshit Kumar, (Student Nominee)
Ashish Tiwari, (Student Nominee)

SENATE LIBRARY COMMITTEE

Prof Anirban Dasgupta, Chairman
Dr T S Kumbar
Shri Nirmal Jha
Prof Nishaant Choksi
Prof Indranath Sengupta
Prof Ravi Sastri Ayyagari
Abhijeet Singh (Student Nominee)
Bhanu Priya (Student Nominee)

ACADEMIC OFFICIALS

DIRECTOR

Prof Sudhir K Jain
Director (Apr 1, 2021 – Jan 3, 2022)

Prof Amit Prashant
Officiating Director (Jan 4, 2022 onwards)

ACADEMIC AFFAIRS

Prof Kabeer Jasuja
Dean, Academic Affairs

Prof Dilip Srinivas Sundaram
Associate Dean, Undergraduate Studies

Prof Saumyakanti Khatua
Associate Dean, Postgraduate Studies

Prof Bireswar Das
Coordinator, Postgraduate Admissions

Prof V N Prabhakar
Coordinator, Short Courses

Prof Shanmuga R
Coordinator, International Students and
Coordinator, Non – Degree Students

Prof Hari Sai Ganesh
Coordinator, Online Courses

Prof Arpan Bhattacharyya
Coordinator, PMRF

Prof Iti Gupta
Coordinator, Undergraduate Research Committee

Prof Vineet Vashista
Coordinator, Undergraduate Research Committee

Prof Manoj Gupta
Coordinator, Time Table Coordinator

Prof Vinod Chandra
Coordinator, PRL Programme

Prof Deepak Singhania
Coordinator, Management Minor

Prof Leslee Lazar
Coordinator, Design Minor

Prof Anirban Mondal
Coordinator, PG Assistantship

Prof Baradhwaj Coleppa
Chair, JEE

Prof Sriram Gundimeda
Chair, JAM

Prof Leslee Lazar
Coordinator, Writing Studio

Prof Jooyoung Kim
Co-Coordinator, Writing Studio

Prof Karla P Mercado-Shekhar
Coordinator, Scientific Writing Certificate

Prof Nipun Batra
Coordinator, Undergraduate Teaching
Assistantship

STUDENT AFFAIRS

Prof Sivapriya Kirubakaran
Dean, Student Affairs

Prof Abhijit Mishra
Associate Dean, Student Development

Prof Raghavan Ranganathan
Associate Dean, Student Welfare

Prof Mithun Radhakrishna
Head, Career Development Services (and also
Coordinator, Placement)

Prof Kaustubh Rane
Coordinator, Internship

Prof Himanshu Shekhar
Coordinator, Future Faculty Program and Higher
Education

Prof Arnab Saha
Warden, Mess and Eateries

Prof Satyajit Pramanik
Warden, Hostels

Prof Chandan Mishra
Warden, Hostels

Prof Sutapa Roy
Warden, Hostels

Prof Tarun Agarwal
Warden, Hostels

Prof Bhaskar Datta
Head, Counselling Services

Prof Akshaa Vatwani
Associate Head, Counselling Services

Prof Anirban Dasgupta
Head, Student Activities and Events, and
Advisor, Technical and Cultural Activities

Prof Jaichander Swaminathan
Advisor, Amalthea and Blithchron

Prof Leslee Lazar
Coordinator, Tinkerers' Lab

Prof Jaison Manjaly
Coordinator, Clay Studio

Prof Madhu Vadali
Head, Sports

Prof Gopinadhan Kalon
Advisor, Sports

Prof Baradhwaj Coleppa
Advisor, Sports

Prof Tanya Srivastava
Advisor, Sports

Prof Gopinadhan Kalon
Coordinator, oCEO

Prof Sharada C V
Coordinator, Nyasa

Prof Indranath Sengupta
Coordinator, Student Well-Being

FACULTY AFFAIRS

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

Prof Nithin George
Associate Dean, Faculty Relations

Prof Udit Bhatia
Associate Dean, Faculty Recruitment

EXTERNAL RELATIONS

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

Dr Ravikumar Bhaskaran
Honorary Advisor, External Relations

Prof Neeldhara Misra
Associate Dean, External Communication

Mr Nirmal Jha
Team Leader- External Relations

Prof Achal Mehra
Team Leader- Overseas Partnerships

GENERAL ADMINISTRATION

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

RESEARCH AND DEVELOPMENT

Prof Amit Prashant
Dean, Research and Development

Prof Sharad Gupta
Associate Dean, External Projects

Prof Sameer Dalvi
Chair, Central Instrumentation Facility and
Coordinator, Major Equipment Funding Proposals

Prof Pratyush Dayal
Coordinator, Continuing Education Program

Prof Dhiraj Bhatia
Coordinator, Grant Opportunity Information

Prof Chinmay Ghoroi
Coordinator, Industry Connection

Prof Sharada V C
Coordinator, R&D Communications

Prof Superb Mishra
Coordinator, Postdoctoral Staff and Project Staff Welfare

Prof Uttama Lahiri
Coordinator, External Fellowships and Entrepreneurship

ALUMNI AFFAIRS

Prof Jaison Manjaly
Professor-in-Charge, Alumni Relations

CAMPUS DEVELOPMENT

Prof Gaurav Srivastava
Dean, Campus Development

Prof Ravi Sastri Ayyagari
Coordinator, Campus Management

INFORMATION SYSTEMS AND TECHNOLOGY FACILITY

Prof Jaison A Manjaly
Coordinator, Information Systems and Technology Facility

Prof Mayank Singh
Co-coordinator, Information Systems and Technology Facility

Prof Dilip Sundaram
Co-coordinator, Information Systems and Technology Facility

INSTITUTIONAL ADVANCEMENT

Prof Pratik Mutha
Dean, Institutional Advancement

INSTITUTE MANAGEMENT SYSTEM

Prof Amit Prashant
Chairman, IMS

Prof Sameer Kulkarni
Coordinator, IMS

Prof Jaichander Swaminathan
IMS Liaison

HEADS

Prof Sameer Dalvi
Head, Engineering Disciplines

Prof Jaison A Manjaly
Head, Humanities and Social Sciences

Prof Vikrant Jain
Head, Natural Sciences

CHIEF VIGILANCE OFFICER

Prof Pranab Mohapatra
Chief Vigilance Officer

DISCIPLINE COORDINATORS

(As on Mar 31, 2022)

Prof Sharmistha Majumdar
Biological Engineering

Prof Chinmay Ghoroi
Chemical Engineering

Prof Sudipta Basu
Chemistry

Prof Vimal Mishra
Civil Engineering

Prof Pratik Mutha
Biological Engineering

Prof Anirban Dasgupta
Computer Science and Engineering

Prof Naran Pindoriya
Electrical Engineering

Prof Ambika Aiyadurai
Humanities and Social Sciences

Prof Amit Arora
Materials Engineering

Prof Jagmohan Tyagi
Mathematics

Prof Vinod Narayanan
Mechanical Engineering

Prof Vinod Chandra
Physics

Prof Vikrant Jain
Earth Sciences

CENTRES COORDINATORS

(**As on Mar 31, 2022**)

CENTRE FOR ARCHEOLOGICAL SCIENCES

Coordinator: Prof Michel Danino
Co-coordinator: Prof S P Mehrotra

CENTRE FOR BIOMEDICAL ENGINEERING

Coordinator: Prof Uttama Lahiri
Co-coordinator: Prof Karla P Mercado-Shekhar

CENTRE FOR CREATIVE LEARNING

Coordinator: Prof Manish Jain
Co-coordinator: Prof Himanshu Shekhar

CENTRE FOR COGNITIVE AND BRAIN SCIENCES

Coordinator: Prof Pratik Mutha
Co-coordinator: Prof Vineet Vashista

DESIGN AND INNOVATION CENTRE

Coordinator: Prof Leslee Lazar
Co-coordinator: Prof Amit Arora

DR KIRAN C PATEL CENTRE FOR SUSTAINABLE DEVELOPMENT

Coordinator: Prof Achal Mehra
Co-coordinator: Prof Vimal Mishra

CENTRE FOR SAFETY ENGINEERING

Coordinator: Prof Chinmay Ghoroi
Co-coordinator: Prof Gaurav Srivastava

STUDENT LEADERSHIP

The following students were declared elected as office bearers for the academic year 2021-22:
Convener, Student Senate: Anas Ali

General Secretary: Rama Balhara

Welfare Secretary: Shivanshu Sharma

Academic Secretary: Bhavya Gupta

Technical Secretary: Vrutik Shah

Cultural Secretary: Tanmay Sharma

Sports Secretary: Gaurav Sharma

Professional Development Council (PDC) Secretary: Maitreya Thakur

Industry Relations & Projects (IR&P) Secretary: Aditi Gera

Mess Secretary: Satyam Kumar

Pandemic Response

COVID CARE FACILITY ON THE CAMPUS

During the second wave, the Institute converted its newly constructed guest house into an isolation-cum-COVID care facility to treat COVID positive patients from the community with mild to moderate symptoms. Based on the defining institutional principles of inclusivity and empathy, the facility provided isolation and health support to the entire IITGN community, including students, project staff, faculty, admin staff, contractual workers such as drivers, mess staff, housekeeping staff, gardeners, security personnel, and their family members. More than 240 COVID patients, including 121 students, were treated at the facility, with a peak of 95 at a time in mid-April. The facility provided basic medical services, such as temperature and oxygen readings, advice from doctors and nurses, medicines, RT-PCR tests, nutritious meals, as well as hard-to-access health services such as oxygen concentrators and cylinders. Institute medical staff and ambulance services were available 24 x 7. The facility also helped patients find beds in local hospitals when needed. Moreover, counselling services offered psychological support to patients, medical staff, and their families. The facility was managed by the **COVID-19 Medical Response Team** of IITGN under the leadership of **Prof Gaurav Srivastava.**

WHITEPAPER ON THE COVID CARE FACILITY

The Institute released a whitepaper outlining its experience and lessons from the development and management of a community COVID care facility on the campus. It aims to encourage other institutions and communities to develop similar facilities to provide support and relief to their community members, which can ultimately reduce the strain on the medical infrastructure of the country. Besides highlighting the benefits and the journey of setting up a 190-bed community care facility on the campus, the document outlines the protocols, SOPs, guidelines, and medical support and essential supplies required for setting up such a facility. It points out how various organisations and even residential communities can utilise their available infrastructure and human resources to set up similar facilities. The Whitepaper can be downloaded from: https://iitgn. ac.in/pdf/ccf.pdf

ACADEMIC SUPPORT TO STUDENTS

The second wave of the pandemic posed a number of challenges for the students in Semester II 2020-21, as the pandemic affected them and their families in different ways. Considering the extraordinary and challenging circumstances and their possible impact on the academic

performance of students, the Senate approved several measures to provide relief to the students for Semester II 2020-21, including provision for multiple make-up examinations, opportunity for reassessment to students who receive E/F grade, option to drop project courses, among others.

SHRAMIK KALYAN SAMITI

In line with its policy of inclusiveness, IIT Gandhinagar has been supporting the construction and outsourced workers associated with the Institute. The Institute provides first-aid kits, free medical support (through OPD at the Institute's medical centre and regular medical camps at the construction worker colonies), ambulance services, distribution of relief materials, sanitary napkins, and cloth masks to them and their families. The Institute has also carried out sanitization and disinfection of construction workers' colonies from time to time.

BENEFICIARIES OF VARIOUS WELFARE ACTIVITIES BY SHRAMIK KALYAN SAMITI

Welfare Activity	Details of Distribution (Approx)
Distribution of masks	1076 masks
Distribution of mosquito repellent coils	300 packets
Distribution of sanitary pads	112 packets
Distribution of apples	600 persons
Distribution of fruits packets	600 packets
Distribution of hoodies (construction workers)	174 numbers
Distribution of sweets	800 packets
Distribution of T-shirts (outsourced workers)	463 numbers

Total - 8 distribution drives were conducted during 2021-22

REACHING OUT TO NEIGHBOURING VILLAGES

IITGN continued to extend a helping hand to its neighbouring villages during the second wave of COVID-19. In April 2021, the Institute took the initiative to form a team of volunteers comprising young villagers and IITGN community members to spread awareness about the pandemic and provide initial medical care. The volunteers went around the villages for door-to-door monitoring of oxygen levels of villagers and shared contact details of the IITGN Medical Centre for any emergency. Villagers requiring immediate medical care were brought to the IITGN dispensary in the Institute's ambulance for free basic treatment. Dr Riya Saini, Resident Medical Officer of IITGN also conducted weekly medical camps in Palaj and Basan villages. Through this, the Institute could reach out to more than 800 villagers directly during the pandemic.

The Institute's **Padosi Gram Sahyog Samiti** distributed grocery kits containing high nutrition essential food items such as oil, flour and pulses, and an informative pamphlet on precautions against COVID-19 to 84 needy families in Palaj village.

Academics

BTECH ● **MSc ✦** **MA ▣**
MTECH/PGDIIT ■ **PHD ⊙**

DISCIPLINES

Biological Engineering ■ ⊙
Chemical Engineering ● ■ ⊙
Chemistry ✦ ⊙
Civil Engineering ● ■ ⊙
Cognitive Science ✦ ⊙
Computer Science and Engineering ● ■ ⊙
Earth Sciences ⊙
Earth System Science ■
Electrical Engineering ● ■ ⊙
Humanities & Social Sciences ⊙
Materials Engineering ● ■ ⊙
Mathematics ✦ ⊙
Mechanical Engineering ● ■ ⊙
Physics ✦ ⊙
Society and Culture ▣

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

DUAL MAJOR BTECH PROGRAMME

- through which a student can graduate with degrees in two disciplines

BTECH- MTECH DUAL DEGREE

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

BTECH- MSC DUAL DEGREE

- which enables a student to graduate with a BTech degree and an MSc degree in five years

BSc (ENGINEERING)

- Three-year BSc degree is an "Exit" degree and no separate admissions are offered into this program. The has no sub-specialisation

VISITING STUDENT PROGRAMME

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

INNOVATIVE CURRICULUM AND ACTIVE LEARNING

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

- **Approximately 40 %** of UG and **90 %** of PhD students receive international exposure
- **36 %** of PhD graduates spent semester abroad
- Increasing emphasis on learning-by-doing and active learning
- Tinkerer's Lab for fearless experimentation
- Programmes such as Invent@IITGN to promote innovations and inventions
- Maker Bhavan to drive active learning and research innovation
- Freedom, flexibility, autonomy and support to try out new pedagogical approaches

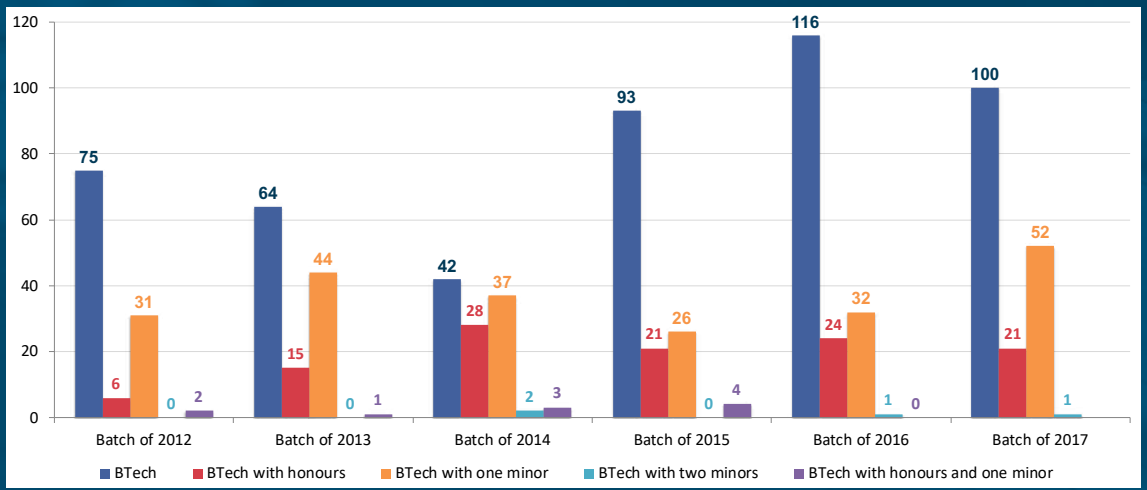
10TH CONVOCATION

IITGN hosted 10th Convocation on Aug 29, 2021, through a heartwarming virtual ceremony. The Institute conferred degrees to a total of 548 students, including 175 BTech students, 5 Dual Major BTech students, 1 BTech-MTech Dual Degree student, 155 MTech students, 95 MSc students, 30 MA students, 86 PhD students, and 1 PGDIIT student. A total 52 students received 58 medals, including 42 gold medals and 16 silver medals for excellence in various categories. This year IITGN graduated the first batch of its five-year Dual Major BTech programme. **Dr Pawan Munjal**, Chairman & CEO of Hero MotoCorp Ltd, was the Chief Guest on the occasion. In his motivating address, Dr Munjal encouraged the graduating students to dream big and lead the India of the future. **Dr Sanjiv Goenka**, Chairman of the RP- Sanjiv Goenka Group and Chairman of the Board of Governors of IITGN, congratulated all the degree recipients and medal winners. **Prof Sudhir K Jain**, Director, IITGN, gave a brief overview of the Institute activities and achievements during the year. He also lauded the student community's exceptional maturity, teamwork, and leadership skills in helping to manage the campus during the pandemic.

Vraj Patel was awarded the President's Gold Medal for BTech, **Ananya Sharma** was awarded the President's Gold Medal for MTech, and **Joita Das** and **Krishnan Shruti** received the President's Gold Medal for MSc and MA. **Utkarsh Gangwal** received the Director's Gold Medal for BTech, Director's Gold Medal for MTech went to **Jain Jainendra Brijkumar**, Director's Gold Medal for MSc and MA was awarded to **Ekata Lahiri**, and the Director's Gold Medal for PhD went to **Goldy Yadav**. The entire event was streamed online on IITGN's YouTube channel and Facebook page.

DISTRIBUTION OF BTECH DEGREES AMONG THE GRADUATING BATCHES OF 2012-2017

Year	BTech	BTech with Honours	BTech with one minor	BTech with two minors	BTech with Honours and one minor	Total strength
Batch of 2012	75	6	31	0	2	**114**
Batch of 2013	64	15	44	0	1	**124**
Batch of 2014	42	28	37	2	3	**112**
Batch of 2015	93	21	26	0	4	**144**
Batch of 2016	116	24	32	1	0	**173**
Batch of 2017	100	21	52	1	1	**175**



RECIPIENTS OF THE DEGREE OF BACHELOR OF TECHNOLOGY

Roll No	Name	Degree
15110034	Avinash Joy Bara	Bachelor of Technology in Chemical Engineering
16110127	Rahul Shakya	Bachelor of Technology in Chemical Engineering with Minor in Management
17110014	Anand Hiren Merchant	Bachelor of Technology in Chemical Engineering with Minor in Design
17110017	Ankur Vaibhav	Bachelor of Technology in Chemical Engineering
17110024	Anurag Singh	Bachelor of Technology in Chemical Engineering
17110025	Arun Shakya	Bachelor of Technology in Chemical Engineering with Minor in Computer Science and Engineering
17110032	Ayushman Bahuguna	Bachelor of Technology in Chemical Engineering
17110044	Deependra Kumar	Bachelor of Technology in Chemical Engineering
17110048	Dev Ajay Kakkad	Bachelor of Technology with Honours in Chemical Engineering with Minor in Management
17110058	Thool Harshal Rashtrapal	Bachelor of Technology in Chemical Engineering
17110098	Parichay Thakore	Bachelor of Technology in Chemical Engineering with Minor in Management
17110102	Parth Upadhyay	Bachelor of Technology in Chemical Engineering with Minor in Computer Science and Engineering
17110113	Priyansh Singh	Bachelor of Technology in Chemical Engineering
17110115	Rachit Ray	Bachelor of Technology in Chemical Engineering
17110116	Rahul Dhamania	Bachelor of Technology in Chemical Engineering with Minor in Management
17110118	Shah Rajas Prasad	Bachelor of Technology in Chemical Engineering with Minor in Management
17110119	Rajkumar Sain	Bachelor of Technology in Chemical Engineering
17110130	Samyak Jain	Bachelor of Technology in Chemical Engineering with Minor in Management
17110131	Sanjeet Kumar Yadav	Bachelor of Technology in Chemical Engineering with Minor in Management
17110134	Satti Kartik Naik	Bachelor of Technology in Chemical Engineering
17110143	Shantanu Jana	Bachelor of Technology in Chemical Engineering with Minor in Management
17110153	Shubhi Maheshwari	Bachelor of Technology in Chemical Engineering with Minor in Management
17110155	Solanki Soham Pratik	Bachelor of Technology in Chemical Engineering with Minor in Management
17110172	Vinod Kumar Prajapat	Bachelor of Technology in Chemical Engineering
17110175	Mudgal Vyom	Bachelor of Technology in Chemical Engineering with Minor in Management
17110181	Pradumn Pandey	Bachelor of Technology in Chemical Engineering
17110009	Akash Ajnare	Bachelor of Technology in Civil Engineering
17110013	Akshay P Nambiar	Bachelor of Technology in Civil Engineering
17110015	Anil Berwal	Bachelor of Technology in Civil Engineering
17110040	Chintakayala Venu Gopal	Bachelor of Technology in Civil Engineering
17110043	Deepak Meena	Bachelor of Technology in Civil Engineering
17110054	Gaurav Kumar	Bachelor of Technology in Civil Engineering
17110057	Shah Harsh Sarju	Bachelor of Technology in Civil Engineering with Minor in Computer Science and Engineering
17110063	Jeetendra Kumar	Bachelor of Technology in Civil Engineering
17110079	Madhav Tiwari	Bachelor of Technology in Civil Engineering with Minor in Computer Science and Engineering
17110093	Nishant	Bachelor of Technology with Honours in Civil Engineering
17110110	Pranjal Singh	Bachelor of Technology in Civil Engineering
17110111	Borse Pranjali Anil	Bachelor of Technology with Honours in Civil Engineering
17110123	Rensi Pipalia	Bachelor of Technology with Honours in Civil Engineering
17110133	Sarang Patil	Bachelor of Technology in Civil Engineering
17110142	Shahzaib Khan	Bachelor of Technology with Honours in Civil Engineering
17110152	Baheti Shubham Raviprakash	Bachelor of Technology with Honours in Civil Engineering
17110163	Gangwal Utkarsh Sandeep	Bachelor of Technology with Honours in Civil Engineering
17110164	Utsav Prashant Racca	Bachelor of Technology in Civil Engineering
17110168	Varanganti Hari Pratap Goutham	Bachelor of Technology in Civil Engineering
17110173	Vishesh Roy Anand	Bachelor of Technology in Civil Engineering
17110180	Yashaswi Soni	Bachelor of Technology in Civil Engineering
16110035	Bikramjot Singh Dhindsa	Bachelor of Technology in Computer Science and Engineering
16110055	Gajapure Kshitij Dewanand	Bachelor of Technology in Computer Science Engineering with Minors in Design and Cognitive Science
17110002	Abhisht Tiwari	Bachelor of Technology in Computer Science and Engineering
17110003	Aditya Garg	Bachelor of Technology in Computer Science and Engineering
17110018	Ankush Chauhan	Bachelor of Technology in Computer Science and Engineering
17110020	Anshuman Yadav	Bachelor of Technology in Computer Science and Engineering
17110021	Anubhav Jain	Bachelor of Technology in Computer Science and Engineering
17110023	Aglawe Anup Ravindra	Bachelor of Technology in Computer Science and Engineering
17110029	Atharva Pandurang Chewale	Bachelor of Technology in Computer Science and Engineering
17110030	Ayush Agarwal	Bachelor of Technology in Computer Science and Engineering
17110037	Chandan Maji	Bachelor of Technology in Computer Science and Engineering

Roll No	Name	Degree
17110039	Chenna Kesava Tirunagari	Bachelor of Technology in Computer Science and Engineering
17110041	Debarya Das	Bachelor of Technology in Computer Science and Engineering
17110050	Dharavath Anitha	Bachelor of Technology in Computer Science and Engineering
17110053	Dyavarashetty Peeyush	Bachelor of Technology in Computer Science and Engineering
17110060	Jain Harshil Rakesh	Bachelor of Technology with Honours in Computer Science and Engineering
17110066	Kakumani Prudhvi Raj	Bachelor of Technology in Computer Science and Engineering
17110067	Kanishk Kalra	Bachelor of Technology in Computer Science and Engineering with Minor in Cognitive Science
17110073	Kavita Vaishnaw	Bachelor of Technology in Computer Science and Engineering
17110074	Kishen N Gowda	Bachelor of Technology in Computer Science and Engineering
17110077	Lakshay	Bachelor of Technology in Computer Science and Engineering
17110078	M Mohit Mina	Bachelor of Technology in Computer Science and Engineering with Minor in Management
17110087	Mrinal Anand	Bachelor of Technology in Computer Science and Engineering
17110092	Nidhin Harilal	Bachelor of Technology with Honours in Computer Science and Engineering
17110099	Parimi Siva Krishna Sarma	Bachelor of Technology in Computer Science and Engineering
17110105	Patel Vandan Pravinbhai	Bachelor of Technology in Computer Science and Engineering
17110108	Pittala Nikhil	Bachelor of Technology in Computer Science and Engineering
17110120	Ram Bhagwan Prajapat	Bachelor of Technology in Computer Science and Engineering
17110125	Patil Rohan Prashant	Bachelor of Technology in Computer Science and Engineering
17110126	Patil Rohit Shantaram	Bachelor of Technology in Computer Science and Engineering
17110135	Saumitra Sharma	Bachelor of Technology in Computer Science and Engineering
17110140	Shah Rushil Rajiv	Bachelor of Technology with Honours in Computer Science and Engineering
17110145	Shaurya Agarawal	Bachelor of Technology in Computer Science and Engineering
17110174	Vraj Patel	Bachelor of Technology in Computer Science and Engineering
14110141	Varade Amit Bhaskar	Bachelor of Technology in Electrical Engineering
16110030	Banoth Dinesh	Bachelor of Technology in Electrical Engineering
16110130	Rajat Kumar Verma	Bachelor of Technology in Electrical Engineering
16110181	Himanshu Rai	Bachelor of Technology in Electrical Engineering
17110007	Ajay Meena	Bachelor of Technology in Electrical Engineering
17110011	Akshay Biju	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110027	Ashish Kumar Meena	Bachelor of Technology in Electrical Engineering
17110038	Chauhan Jainish Nileshkumar	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110045	Deepika Soni	Bachelor of Technology with Honours in Electrical Engineering
17110046	Dehade Sankesh Deepak	Bachelor of Technology in Electrical Engineering
17110059	Ishita Goyal	Bachelor of Technology in Electrical Engineering
17110061	Jaspreet Singh	Bachelor of Technology in Electrical Engineering
17110064	Jethva Utsav Gopalbhai	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110068	Kaoshik Ronak Nitin	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110080	Manoj Kumar Kumawat	Bachelor of Technology in Electrical Engineering
17110083	Mithbavkar Ojas Shashikant	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110085	Mohammed Aasim Shaikh	Bachelor of Technology with Honours in Electrical Engineering
17110089	Naman Kumar Singh	Bachelor of Technology in Electrical Engineering
17110090	Narni Vishnu Karthikeya	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110091	Nayan Chaudhary	Bachelor of Technology in Electrical Engineering
17110094	Onteddu Rama Krishna Reddy	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110096	Pandipati Vamshi Nikhil	Bachelor of Technology in Electrical Engineering
17110097	Pardeshi Shweta Rajesh	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110103	Patel Ajjkumar Dahyalal	Bachelor of Technology in Electrical Engineering
17110104	Patel Urvishkumar Jayrambhai	Bachelor of Technology in Electrical Engineering
17110109	R Prakash	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110112	Patel Preet Gokulesh	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110114	Pundru Chandrahas	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110121	Ram Udit Saadh	Bachelor of Technology in Electrical Engineering
17110122	Rathod Ravi Jasvantbhai	Bachelor of Technology in Electrical Engineering with Minor in Management
17110124	Ribhu Vajpeyi	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110150	Shreya Pamecha	Bachelor of Technology in Electrical Engineering
17110160	Tanmaey Gupta	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
17110165	Uttharapally Sai Chandra	Bachelor of Technology in Electrical Engineering
17110171	Vedanta Krishna Bhutani	Bachelor of Technology in Electrical Engineering with Minor in Computer Science and Engineering
15110011	Akshat Sandhaliya	Bachelor of Technology in Materials Science and Engineering
15110063	Kuldeep Singh	Bachelor of Technology in Materials Science and Engineering

Roll No	Name	Degree
16110052	Dinesh Raj D	Bachelor of Technology in Materials Science and Engineering
16110133	Rampratap Kumar	Bachelor of Technology in Materials Science and Engineering
17110022	Anuj Yadav	Bachelor of Technology in Materials Science and Engineering
17110028	Gholap Atharv Mahendra	Bachelor of Technology in Materials Science and Engineering
17110033	B Dhyanesh	Bachelor of Technology with Honours in Materials Science and Engineering
17110034	Banoth Vishnu Sai Naik	Bachelor of Technology in Materials Science and Engineering
17110049	Dhaiwat Kabaria	Bachelor of Technology in Materials Science and Engineering with Minor in Computer Science and Engineering
17110051	Shah Dhruval Suresh	Bachelor of Technology with Honours in Materials Science and Engineering
17110056	Harendra Singh Gurjar	Bachelor of Technology in Materials Science and Engineering
17110070	Karra Uma Naga Srikar	Bachelor of Technology in Materials Science and Engineering with Minor in Physics
17110072	Kaushik Kumar Bhaiya	Bachelor of Technology in Materials Science and Engineering with Minor in Management
17110075	Khot Krutarth Hemant	Bachelor of Technology with Honours in Materials Science and Engineering
17110082	Mewada Rohan Mukeshkumar	Bachelor of Technology with Honours in Materials Science and Engineering
17110088	Mulastham Amitha Rani	Bachelor of Technology with Honours in Materials Science and Engineering
17110107	Pinniboina Muneeswar	Bachelor of Technology in Materials Science and Engineering
17110149	Shivani Patley	Bachelor of Technology in Materials Science and Engineering
17110154	Shuchi Dhirendra Sanandiya	Bachelor of Technology with Honours in Materials Science and Engineering
17110159	Surabhi A Torne	Bachelor of Technology in Materials Science and Engineering
17110162	Ujjwal Gautam	Bachelor of Technology in Materials Science and Engineering with Minor in Management
17110169	Varun Biren Dolia	Bachelor of Technology with Honours in Materials Science and Engineering
17110179	Mundada Yasham Amar	Bachelor of Technology with Honours in Materials Science and Engineering
17110182	Neena Tatu	Bachelor of Technology in Materials Science and Engineering
15110026	Anupam Swarnkar	Bachelor of Technology in Mechanical Engineering
15110107	Rohit Kumar Singh	Bachelor of Technology in Mechanical Engineering
16110004	Adithya R	Bachelor of Technology in Mechanical Engineering
16110087	Manish Alriya	Bachelor of Technology in Mechanical Engineering
16110114	Polampalli Bala Srimannarayana	Bachelor of Technology in Mechanical Engineering with Minor in Management
17110001	Abhinav	Bachelor of Technology in Mechanical Engineering
17110005	Agrawal Parth Sunilkumar	Bachelor of Technology in Mechanical Engineering
17110012	Tandale Akshay Jay	Bachelor of Technology in Mechanical Engineering
17110016	Soni Anirudha Pradeepkumar	Bachelor of Technology in Mechanical Engineering with Minor in Computer Science and Engineering
17110019	Ankush Mishra	Bachelor of Technology with Honours in Mechanical Engineering
17110026	Ashish Kumar Jha	Bachelor of Technology in Mechanical Engineering
17110031	Ayush Kumar Gupta	Bachelor of Technology in Mechanical Engineering with Minor in Management
17110035	Bhukya Heram Naik	Bachelor of Technology in Mechanical Engineering with Minor in Management
17110042	Deepak Kumar Meena	Bachelor of Technology in Mechanical Engineering
17110052	Dip Nilim Das	Bachelor of Technology in Mechanical Engineering
17110065	Kakadiya Harsh Babulal	Bachelor of Technology in Mechanical Engineering with Minor in Management
17110069	Karanam Avinash	Bachelor of Technology in Mechanical Engineering with Minor in Computer Science and Engineering
17110100	Parmar Hitarth Jagdish	Bachelor of Technology with Honours in Mechanical Engineering
17110101	Parth Shinde	Bachelor of Technology in Mechanical Engineering with Minor in Management
17110128	Sabbi Pavan Kumar Chakri	Bachelor of Technology in Mechanical Engineering
17110136	Muneshwar Saurabh Kartik	Bachelor of Technology in Mechanical Engineering
17110137	Shah Dhruvin Manish	Bachelor of Technology in Mechanical Engineering
17110138	Shah Jainam Pinkesh	Bachelor of Technology in Mechanical Engineering with Minor in Management
17110139	Shah Meet Parag	Bachelor of Technology in Mechanical Engineering with Minor in Management
17110146	Shelke Shireesh Raghunath	Bachelor of Technology in Mechanical Engineering with Minor in Robotics
17110148	Shivang Pareek	Bachelor of Technology in Mechanical Engineering with Minor in Management
17110151	Shreyas Sonawane	Bachelor of Technology in Mechanical Engineering
17110157	Sukkala Balaji	Bachelor of Technology in Mechanical Engineering
17110161	Tushar Choudhary	Bachelor of Technology in Mechanical Engineering
17110166	Vala Vedangraj Rajendrasinh	Bachelor of Technology in Mechanical Engineering
17110167	Vandit Goyal	Bachelor of Technology in Mechanical Engineering with Minor in Robotics
17110170	Vatsal Ketankumar Joshi	Bachelor of Technology in Mechanical Engineering with Minor in Robotics
17110176	Yannawar Pranav Sameer	Bachelor of Technology in Mechanical Engineering with Minor in Management
17110177	Yash Gaur	Bachelor of Technology in Mechanical Engineering with Minor in Robotics
17110178	Dhake Yash Nilkanth	Bachelor of Technology in Mechanical Engineering with Minor in Computer Science and Engineering

RECIPIENTS OF THE BTECH DUAL MAJOR

Roll No	Name	Degree
16110001	Abhavya Chandra	Bachelor of Technology in Chemical Engineering and
		Bachelor of Technology in Computer Science and Engineering
16110007	Akhilesh Ravi	Bachelor of Technology in Electrical Engineering and
		Bachelor of Technology in Computer Science and Engineering
16110050	Deshpande	Bachelor of Technology in Mechanical Engineering and
	Shubham Gopal	Bachelor of Technology in Computer Science and Engineering with Minor in Management
16110075	Kaushal R Modi	Bachelor of Technology in Mechanical Engineering and
		Bachelor of Technology in Computer Science and Engineering
16110102	Nisarg Ujjainkar	Bachelor of Technology in Mechanical Engineering and
		Bachelor of Technology in Computer Science and Engineering

RECIPIENTS OF THE DEGREE OF MASTER OF ARTS

SOCIETY AND CULTURE

Roll No	Name
18520002	Akansha Yashasvi
18520003	Amritha Mather
18520027	Raqib Ahmad Dar
19520003	Abhishek Ramesh
19520005	Adyasha Behera
19520006	Ajay Devda
19520008	Bhargavi G
19520009	Chaitanya Anand Chalakh
19520011	Ekata Lahiri
19520012	Fasna K
19520013	Gehna Parcha
19520014	Gurpreet Kaur
19520015	Ishita Sharma
19520016	Joita Das
19520017	Acharya Kairavi Vatsalkumar Trupti
19520018	Khushboo Sahrawat
19520020	Mohd Javaid
19520021	Moin Qureshi
19520022	Neha Kumar
19520023	Prateeti Rajjak
19520024	Rajasee Mukherjee
19520025	Rashid K K
19520026	Renna Zehra
19520027	Saikat Panda
19520028	Sandhra S
19520029	Sanjukta Manna
19520030	Krishnan Shruti
19520031	Shruti Mehta
19520032	Sneha Sathyan V V
19520034	Vishal Verma

RECIPIENTS OF THE DEGREE OF MASTER OF SCIENCE

CHEMISTRY

Roll No	Name
18510040	Manab Diasi
19510001	Alok Kumar
19510002	Ananya Rana
19510003	Ankita Sharma
19510004	Banwari Kumar Mandal
19510005	Gagan Deep
19510006	Ganesh Jabotra
19510007	Dedaniya Hirenkumar Jitendrabhai
19510008	KM Jyoti Chauhan
19510009	Kunzang Dolkar
19510010	Manjeet
19510011	Mohit Kumar
19510012	Mrityunjay Kumar Jha
19510013	Pradeep Kumar Yadav
19510014	Ravi Kanwant
19510016	Sanju Kumari
19510017	Shivangi Sharma
19510018	Siddharth Kumar
19510019	Somya
19510020	Sudhir
19510021	Varsha Kumari

COGNITIVE SCIENCE

Roll No	Name
19510022	Anjana Chembil Palat
19510023	Adewumi Oluwadamilare Bukunmi
19510024	Caren Felicia J
19510025	Kratika Mujmer
19510026	Meenam Pious
19510027	Nashra Ahmad
19510028	Nikita Anil Kumar
19510029	Palak Sharma
19510032	Sanya Jain
19510033	Sriranjani Manivasagam
19510034	Tharan S
19510035	Uthara Brahadeesh
19510036	Vaishnavi Sivaprasad
19510037	Vikram Singh Negi

MATHEMATICS

Roll No	Name
18510004	Alka Baliyan
19510038	Abhijeet Dundappa Duggani
19510039	Kharade Akshay Chandrakant
19510040	Akshya Kumar
19510041	Anju Singh
19510042	Ankit Sharma
19510043	Avi Nava Mukhopadhyay
19510044	Bhaskar Verma
19510045	Bhunesh Nagar
19510046	Thakkar Chandni Rajeshkumar
19510047	G Gomathy
19510048	Goutam Barman
19510049	Hari Singh Dhayal
19510051	Khusboo Agarwal
19510053	Mayank Nagar
19510054	Milton Biswas
19510055	Mohammad Naved
19510056	Mukesh Kumar Verma
19510057	Nanthini A
19510058	Prajapati Rakesh Maganlal
19510059	Priya
19510060	Raman Sharma
19510061	Rasika R
19510062	Rudrendra Kashyap

19510063	Sanjay Kumar
19510064	Sarthak Sharma
19510065	Shiva
19510066	Tulsa Pujhari

PHYSICS

Roll No	Name
18510015	Ashish Ahlawat
19510067	Akshat Khanna
19510068	Tandulje Akshay Padmakar
19510069	Asha Chaudhary
19510070	Asha Kumari
19510071	Chotoo Singh Mirasee
19510072	Gagan Kumar Bhatt
19510073	Gajendra Kumar Saini
19510074	Jayesthi Mali
19510075	Kaushal Meena
19510076	Neelabha Chatterjee
19510077	Neha Choudhary
19510078	Londhe Nikhil Milind
19510079	Nikita Sharma
19510080	Pankaj
19510081	Pratibha
19510082	Priyanshu Sharma
19510083	Radhika Gandhi
19510084	Rashmi
19510085	Ravi Chopra
19510086	Sanjoy Saha
19510087	Sheela Meena
19510088	Shraddha Mohnani
19510089	Shubham Malik
19510090	Shubham Rastogi
19510091	Siddharth Gangwar
19510092	Siddharth S Kashyap
19510093	Sunita Kumari
19510094	Vijay Kumar Baliyan
19510095	Vinod
19510096	Vipin Yadav
19510097	Yogesh Kumar Yadav

RECIPIENT OF THE POST-GRADUATE DIPLOMA OF THE INSTITUTE (PGDIIT)

Roll No	Name	Degree
19210109	Suraj Kumar	Post Graduate Diploma of the Institute in Electrical Engineering

RECIPIENTS OF THE DEGREE OF MASTER OF TECHNOLOGY

BIOLOGICAL ENGINEERING

Roll No	Name
18210082	Shingane Somesh Nana
19210001	Aakriti Bansal
19210002	Adarsh Patel
19210003	Akshaya S
19210004	Ananya Sharma
19210005	Ashadul Haque
19210006	Axita Patel
19210007	Bodhidipra Mukherjee
19210008	Chandan Nandi
19210009	Chandrama Ghosh
19210010	Jayishnu Roy
19210011	Kahkashan Bansal
19210012	Pankaj Yadav
19210013	Pankhuri Sinha
19210015	Shiny Pandit
19210017	Tamalika Paul
19210018	Tanusree Halder

CHEMICAL ENGINEERING

Roll No	Name
19210019	Amit Kumar Mishra
19210020	Arvind Kr Gupta
19210021	Chaitra Borkar
19210023	Gourav Shukla
19210024	Sojitra Kandarp Ashokbhai
19210025	Mayank Srivastava
19210026	Meketaye Abera Endeshaw
19210027	Rachana Singhal
19210028	Saketharam Reddy N
19210030	Jani Vruddhi Babulal
19250001	Bhowmick Patidar
19250003	Niraliben Patel

CIVIL ENGINEERING

Roll No	Name
17250013	Himanshi Dewangan
18210002	Ajay Chandran P V
18210047	Lovkesh Shivani
18210052	Khan Mohammedsalim Drshahalam
18210066	Renjini R
18210099	Ankush Jain
18210108	Sahil Wani
18210110	Shivesh Shandilaya
18210114	Mahagaonkar Suvil Kashinath
18250016	Kartikeya Bharadwaj
18250022	Oza Parthesh Sunilbhai
18250033	Surender Raj V
18350001	Abhi Mittal
19210032	Kale Akash Ravindra
19210033	Deeptija Pandey
19210035	Mehta Dip Trilokkumar
19210039	Sudhanshu Dixit
19210040	Sujata S Kulkarni
19210041	Vegad Urmin Devenbhai
19210042	Ved Prakash
19250004	Aiswarya Menon
19250005	Ashray Saxena
19250006	Shah Drashti Chiragbhai
19250007	Shah Jahnvi Hiteshkumar
19250008	Jayalaxmi Ngasepam
19250009	Pavithra C T
19250010	Pranav Chandrakar
19250011	Somnath Paul
19250012	Spandhana M Haridas
19250013	Tarun Singh Rajput
19250014	Zarnain Fayaz

COMPUTER SCIENCE AND ENGINEERING

Roll No	Name
18210084	Sreejith Srikrishnan
19210044	Jaideep Singh Bankoti
19210045	Jatin Kumar
19210047	Jyoti Kumari
19210048	Prajwal Kumar Singh
19210050	Shaik Mahaboob Jani Basha
19210052	Utpal Podder
19210053	Vagadiya Jenilkumar Virendra

EARTH SYSTEM SCIENCE

Roll No	Name
19210054	Akshay Rajeev
19210055	Anant Misra
19210057	Arindom Gogoi
19210058	Debashis Nath
19210059	Himanshu
19210060	Kiran Barasu Dhangar
19210061	Jain Nitin Bhanwarlal
19210062	Samrat Patni
19210063	Subhasis Mishra

ELECTRICAL ENGINEERING

Roll No	Name
14110013	Amit Bhongade
18210009	Ankit Kumar Verma

18210106	Kumar Bhanu Khandelwal
18250014	J Sujatha
18250031	Sonu Kumar
19210064	Syed Nafiz Hasan
19210065	Aabila Tharzeen
19210066	Abhilash Dubey
19210067	Abhishek Kumar Singh
19210068	Ailneni Rakshitha
19210069	Anoop Kumar
19210070	Anushka Yadav
19210071	Aparna Singh
19210072	Ayush Agarwal
19210073	Bachu Varun Tej
19210074	Boyapati Suresh
19210076	Gajendra Singh Rajput
19210077	Harshul Tandan
19210078	Shah Henil Virangbhai
19210079	Jain Jainendra Brijkumar
19210080	Gudiboina Karthik Kumar
19210081	Kuldeep Jajoria
19210084	Shah Mansi Kuldip
19210085	Mayank Nautiyal
19210087	Naveen Puri
19210089	Prarabdh Raipurkar
19210091	Pratik Sharma
19210092	Pravesh Srivastava
19210093	Kukadiya Purnaben Bhikhubhai
19210094	Dhote Pushpak Eknath
19210096	Borkar Rajat Shyam
19210097	Rajesh Kumar
19210098	Rajlaxmi Pandey
19210099	Ravins Katiyar
19210101	Roshni Dhandamudi
19210103	Sajal Kumar Jain
19210104	Satish Kumar Singh
19210105	Shivani Singhal
19210106	Gunjal Shrihari Eknath
19210107	Siddhartha Verma
19210108	Smit Shah
19210111	Tushar Agarwal
19210112	Vasa Vamsi Krishna
19210113	Virender Dan
19210115	Vivek Singh
19250015	Devesh Kumar
19250016	Pandrangi Aditya
19250017	Sharma Priyanka Vinodkumar

MATERIALS SCIENCE AND ENGINEERING

Roll No	Name
18210117	Jogi Gaurav Kirtikumar
19210116	Akshay Kumar Soni
19210118	Ankita Shahi
19210119	Anurag Sharma
19210122	Bhumika Longakshi
19210124	Bhadane Prathmesh Kiran Manisha
19210125	Priya Suryakant Gadekar
19210126	Rohit Gahlot
19210127	Som Dixit
19210128	Shah Vats Nitinkumar
19250018	Sameekshya Das

MECHANICAL ENGINEERING

Roll No	Name
18210010	Varier Anuj Sivan
18210041	Karanbir Singh Sidhu
18210089	Swarup Jana
18210093	Mistry Utsavkumar Jitendrabhai
19210129	Aditya Vinayak Natu
19210135	Jategaonkar Chinmay Shirish
19210139	Jadhav Omkar Pratap
19210140	Paritosh Kavra
19210141	Pooja Gupta
19210142	Rahul Das
19210143	Dudyala Rahul Reddy
19210144	Mittakolu Roshith
19210145	Sagar Aryal
19210146	Shubham Gupta
19210147	Shubham
19210150	Tandel Vaibhavkumar Dhansukhbhai
19250019	Chirag Anilkumar
19250021	Paranjape Omkar Dilip
19250022	Sarth Dubey

RECIPIENT OF THE BTECH-MTECH DUAL DEGREE

Roll No	Name	Degree
16110042	Chennuri Prateek	Bachelor of Technology in Electrical Engineering and Master of Technology in Electrical Engineering

RECIPIENTS OF THE DEGREE OF DOCTOR OF PHILOSOPHY

Roll No	Name	Discipline
13310036	Bhoir Siddhant Pandurang	Biological Engineering
14310003	S Indumathi	Biological Engineering
14310033	Nalini Natarajan	Biological Engineering
14310051	Hiral Manojkumar Sanghavi	Biological Engineering
15310031	Patel Manthan Maheshbhai	Biological Engineering
15310047	Patel Divyeshkumar Amrutbhai	Biological Engineering
15310049	Nishaben Patel	Biological Engineering
15310050	Vasudha Sharma	Biological Engineering
16310002	Swaroop Chakraborty	Biological Engineering
11320001	Shital Arunkumar Amin	Chemical Engineering
12320039	Jaya Prasanna Kumar D	Chemical Engineering
13310038	Komal Pandey	Chemical Engineering
14310006	Rupanjali Gurprasad Prasad	Chemical Engineering
14310007	Saket Kumar	Chemical Engineering
13510007	Amarjyoti Das Mahapatra	Chemistry
13510008	Palash Jana	Chemistry
14310008	Lata Rani	Chemistry
14310035	Shikha Khandelwal	Chemistry
14310053	Javeena Hussain	Chemistry
14310054	Abhijeet Madhukar Sarkale	Chemistry
14310055	Vijayalakshmi Pandey	Chemistry
15310034	Neha Manav	Chemistry
15310037	Varsha Thambi	Chemistry
15310052	Afsar Ali	Chemistry
15310054	Vidyasagar Maurya	Chemistry
16310007	Ab Qayoom Mir	Chemistry
13310043	Rajkumari Kaurav	Civil Engineering
14310009	Prabhat Kumar	Civil Engineering
15310008	Saran Aadhar	Civil Engineering
15310038	Kaling Taki	Civil Engineering
16350003	Kantesaria Naman Pranlal	Civil Engineering
13510021	Goldy Yadav	Cognitive Science
14310036	Nithin George	Cognitive Science
14310041	Veli Milindbhai Mehta	Cognitive Science
15310057	Vishav Jyoti	Cognitive Science

14310059	Sudhakar Kumawat	Computer Science and Engineering
14350002	Ananya Shrivastava	Computer Science and Engineering
15310011	Indra Deep Mastan	Computer Science and Engineering
15310012	Supratim Shit	Computer Science and Engineering
15350007	Shiv Dutt Sharma	Computer Science and Engineering
14310039	Ravi Kant Prasad	Earth Sciences
14310061	Shantamoy Guha	Earth Sciences
15330001	Harsh Raj	Earth Sciences
15330002	Harsh Jagdip Oza	Earth Sciences
15330003	Naman Deep Singh	Earth Sciences
10002027	Gagan Kanojia	Electrical Engineering
13310021	Manju Bhashini V	Electrical Engineering
13310048	Rishabh Abhinav	Electrical Engineering
13310050	Zarin A S	Electrical Engineering
14310014	Kadam Sujay Dilip	Electrical Engineering
14310018	Satyajit Mohapatra	Electrical Engineering
14350007	Vinay Verma	Electrical Engineering
15310018	Neelam Surana	Electrical Engineering
15310059	Patnam Bala Sai Kiran	Electrical Engineering
15310060	Sharad Joshi	Electrical Engineering
15350004	Chandan Kumar Jha	Electrical Engineering
15350009	Chandan Kumar Jha	Electrical Engineering
15350010	Sankha Subhra Bhattacharjee	Electrical Engineering
16310043	Vyas Hardik Shyam	Electrical Engineering
14310038	Prashant Ramprasad Ingole	Humanities and Social Sciences
13310031	Krishna Manwani	Materials Science and Engineering
14350008	Poonam Ratrey	Materials Science and Engineering
14350013	Archini Paruthi	Materials Science and Engineering
15310066	Rahul Kumar	Mathematics
12310014	Renika Baruah	Mechanical Engineering
13310053	Ankita Sinha	Mechanical Engineering
14310024	Zeeshan Ahmed	Mechanical Engineering
15350011	Adarsh Kumar	Mechanical Engineering
14310027	Soumen Roy	Physics
14310028	Amit Reza	Physics
14310048	Chakresh Kumar Singh	Physics
15310029	Richa Tripathi	Physics
15330005	Aarthy E	Physics
15330006	Archita Rai	Physics
15330007	Shivangi Gupta	Physics
15330009	Nidhi Tripathi	Physics
15330010	Shefali Uttam	Physics
15330011	Richa Arya	Physics
15330012	Akanksha Bhardwaj	Physics
15330013	Subir Mandal	Physics
15330015	Balbeer Singh	Physics
15330016	Ashish	Physics
15330018	Ranadeep Sarkar	Physics
15330019	Kaustav Chakraborty	Physics
15330021	Prashant Kumar	Physics
16310021	Manu Kurian	Physics

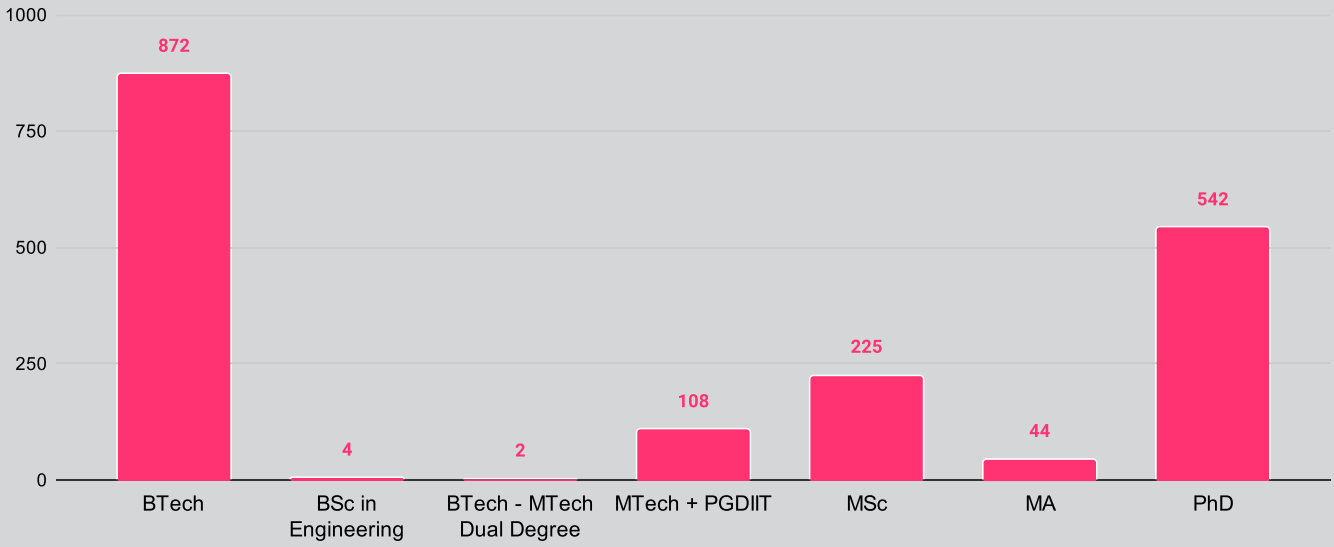
RECIPIENTS OF THE MEDALS

Medals Category	Student Name
President's Gold Medal, BTech	Vraj Patel
President's Gold Medal, MTech	Ananya Sharma
President's Gold Medal, MSc and MA	Joita Das
President's Gold Medal, MSc and MA	Krishnan Shruti
Institute Gold Medal – Civil Engineering, BTech	Gangwal Utkarsh Sandeep
Institute Gold Medal – Chemical Engineering, BTech	Shantanu Jana
Institute Gold Medal – Computer Science and Engineering, BTech	Vraj Patel
Institute Gold Medal – Electrical Engineering, BTech	Narni Vishnu Karthikeya
Institute Gold Medal – Electrical Engineering, BTech	R Prakash
Institute Gold Medal – Mechanical Engineering, BTech	Shah Dhruvin Manish
Institute Gold Medal – Materials Science and Engineering, BTech	Varun Biren Dolia
Institute Gold Medal – Society & Culture, MA	Joita Das
Institute Gold Medal – Society & Culture, MA	Krishnan Shruti
Institute Gold Medal – Cognitive Science, MSc	Kratika Mujmer
Institute Gold Medal – Chemistry, MSc	Ananya Rana
Institute Gold Medal – Mathematics, MSc	Thakkar Chandni Rajeshkumar
Institute Gold Medal – Physics, MSc	Nikita Sharma
Institute Gold Medal – Biological Engineering, MTech	Ananya Sharma
Institute Gold Medal – Civil Engineering, MTech	Ashray Saxena
Institute Gold Medal – Civil Engineering, MTech	Zarnain Fayaz
Institute Gold Medal – Chemical Engineering, MTech	Bhowmick Patidar
Institute Gold Medal – Chemical Engineering, MTech	Chaitra Borkar
Institute Gold Medal – Electrical Engineering, MTech	Shah Henil Virangbhai
Institute Gold Medal – Earth System Science, MTech	Kiran Barasu Dhangar
Institute Gold Medal – Mechanical Engineering, MTech	Aditya Vinayak Natu
Institute Gold Medal – Materials Science and Engineering, MTech	Priya Suryakant Gadekar
Institute Silver Medal – Civil Engineering, BTech	Shah Harsh Sarju
Institute Silver Medal – Chemical Engineering, BTech	Shubhi Maheshwari
Institute Silver Medal – Computer Science and Engineering, BTech	Patil Rohan Prashant
Institute Silver Medal – Mechanical Engineering, BTech	Ankush Mishra

Institute Silver Medal – Materials Science and Engineering, BTech	B Dhyanesh
Institute Silver Medal – Chemistry, MSc	Mohit Kumar
Institute Silver Medal – Mathematics, MSc	G Gomathy
Institute Silver Medal – Physics, MSc	Akshat Khanna
Institute Silver Medal – Electrical Engineering, MTech	Jain Jainendra Brijkumar
Institute Silver Medal – Mechanical Engineering, MTech	Jategaonkar Chinmay Shirish
Director's Gold Medal, BTech	Gangwal Utkarsh Sandeep
Director's Gold Medal, MSc and MA	Ekata Lahiri
Director's Gold Medal, MTech	Jain Jainendra Brijkumar
Director's Gold Medal, PhD	Goldy Yadav
Director's Silver Medal – Civil Engineering, BTech	Nishant
Director's Silver Medal – Chemical Engineering, BTech	Dev Ajay Kakkad
Director's Silver Medal – Computer Science and Engineering, BTech	Kanishk Kalra
Director's Silver Medal – Electrical Engineering, BTech	Deepika Soni
Director's Silver Medal – Mechanical Engineering, BTech	Vandit Goyal
Director's Silver Medal – Materials Science and Engineering, BTech	Mulastham Amitha Rani
Gold Medal for Outstanding Innovation	Chandan Kumar Jha
Gold Medal for Outstanding Social Service	Utsav Prashant Racca
Gold Medal for Integrity and Exemplary Human Qualities	Solanki Soham Pratik
Gold Medal for the Outstanding Research, BTech	Varun Biren Dolia
Gold Medal for the Outstanding Research, MTech	Mayank Nautiyal
Gold Medal for the Outstanding Research, PhD	Manu Kurian
Gold Medal for Overall Outstanding Performance in Sports	Shubhi Maheshwari
Gold Medal for Outstanding Performance in Athletics	Deependra Kumar
Gold Medal for Outstanding Performance in Aquatics	B Dhyanesh
Gold Medal for Outstanding Performance in Outdoor Sports	Vishesh Roy Anand
Gold Medal for Outstanding Performance in Arts and Culture	Pranjal Singh
Pioneer Batch Gold Medal for Outstanding Leadership	Shivang Pareek
Gold Medal for the best performance in the core courses of Engineering Graphics, and Manufacturing and Workshop Practice	Patel Urvishkumar Jayrambhai
Gold Medal for the best overall performance in the core courses of Humanities and Social Sciences	Jain Harshil Rakesh
Gold Medal for outstanding performance in the courses of Humanities and Social Sciences	Shantanu Jana
Gold Medal for the best performance in the core courses of Mathematics	Shah Dhruvin Manish
Gold Medal for the best performance in the core courses of Physics, Chemistry and Life Sciences	Kishen N Gowda

STUDENTS

PROGRAMME-WISE SUMMARY OF STUDENTS AT IITGN



SHORT COURSES

IITGN has started offering short courses since 2010. These are 1-credit courses with a typical 10 to 12 hours of engagement. The Institute offers 8-9 courses per semester on an average, totalling 192 courses to date. In particular, the Institute has offered 24 short courses in the academic year May 2021 - Mar 2022. These include diverse courses ranging from **Analysis of chemotaxis systems** by **Prof Michael Winkler**, Professor at Institut fur Mathematik, Universitat Paderborn, Germany to **Some Aspects of Topological and Cold Atom Systems** by **Prof Krishnendu Sengupta**, Professor of Theoretical Physics, IACS, Kolkata. More than 300 students across disciplines and levels have benefitted from these courses. Short courses are a testament to the Institute's all-inclusive philosophy.

There are several reasons why course offerings in this format are important. Short courses allow the following:

a. Promotes active engagement with professionals and researchers globally and diversifies the in-house portfolio of courses

b. Covers a wide range of topics that cannot be accommodated within the curriculum

c. Promotion of interdisciplinary thinking among students through open-to-all offerings

The list of short courses that were conducted during Apr 2021 - Mar 2022 are as follows:

- Some aspects of topological and cold-atom systems, **Prof Krishnendu Sengupta**, Professor of Theoretical Physics, IACS, Kolkata, every Tuesday and Friday from May 25 - Jul 02, 2021
- Scientific writing (Module 1-5), **Dr Monal K Desai**, Teaching Associate, Writing Studio, IITGN, every Thursday and Friday from Jul 15 - Aug 13, 2021
- Writing mathematics in the sciences (Module 1-4), **Dr Monal K Desai**, Teaching Associate, Writing Studio, IITGN, every Monday and Tuesday from Jul 19 - Aug 10, 2021
- Understanding of financial market, **Mr Vipin Chaudhary**, Head, Market Risk Data and Analytics, Deutsche Bank, Mumbai, every Saturday and Sunday from Aug 14 - Sep 19, 2021
- Digital Terrain Model (DTM): data sources and processing by **Prof Pradeep Srivastava**, Adjunct Professor, Earth Sciences, IITGN, Aug 16-30, 2021
- Research methods & skills for engineers, **Dr Raj Chhabra**, Professor & Mentor, IIT Ropar, every Tuesday and Thursday from Aug 17 - Sep 02, 2021
- Management of domestic wastewater - conveyance, treatment and reuse: paradigm shift in approach, **Prof Sudhir K Arora**, Professor of Practise, Civil Engineering, IITGN, on Thursdays, Fridays and Saturdays from Aug 20 - Sep 24, 2021
- Demand side management & energy Efficiency "Policies & Regulations", **Prof Anand Kumar**, Professor of Practise, Electrical Engineering, IITGN, on Sundays, Mondays and Wednesdays from Aug 29 - Sep 19, 2021
- Flash Fiction: storytelling on-the-go, **Nivid Desai**,

Teaching Associate, Writing Studio, IITGN, Sep 13, 15, 17, 20 & 22, 2021

- Electricity regulations in India, **Prof Anand Kumar**, Professor of Practice, Electrical Engineering, IITGN, every Tuesday and Friday from Oct 15 - Nov 16, 2021
- Homogeneous electrocatalysis for energy conversion and electro-organic synthesis, **Prof Biswajit Mondal**, Assistant Professor, Chemistry, IITGN, Nov 09, 17, 20, 22 & 23, 2021
- Organic electronics, **Prof Anirban Mondal**, Assistant Professor, Chemistry, IITGN, Nov 09, 17, 19, 22 & 23, 2021
- C*-algebra, **Prof S Sundar**, Associate Professor, Department of Mathematics, IMSc, Chennai, every Wednesday, Saturday, and Sunday from Dec 04-26, 2021
- Scientific writing, **Dr Monal K Desai**, Teaching Associate, Writing Studio, IITGN, every Tuesday and Wednesday from Dec 14, 2021 - Jan 12, 2022
- Writing mathematics in the sciences, **Dr Monal K Desai**, Teaching Associate, Writing Studio, IITGN, every Thursday and Friday from Dec 16, 2021- Jan 13, 2022
- Introduction to historical maps and their studies in archaeology and geomorphology, **Dr Ekta Gupta**, Early Career Fellow, ASC, IITGN, every Tuesday, Thursday, Saturday and Sunday from Jan 11-27, 2022
- Thermodynamics of near-subsurface earth, **Prof R N Singh**, Visiting Professor, Earth Sciences, IITGN; and **Dr Ravi K Prasad**, Postdoctoral Fellow, ASC, IITGN; 10 sessions were conducted between Jan - Apr 2022
- Space-based systems for positioning and navigation, **Prof Pradeep Srivastava**; 12 sessions were conducted between Jan 22 - Mar 07, 2022
- Regulatory economics & rate making, **Prof Anand Kumar**, Professor of Practice, Electrical Engineering, IITGN, every Tuesday and Friday from Jan 28 - Feb 28, 2022
- Analysis of chemotaxis systems, **Prof Michael Winkler**, Professor, Institut fur Mathematik, Universit¨at Paderborn, Germany, Jan 28-29, Feb 4-5, & 11-12, 2022
- Management of domestic wastewater - conveyance, treatment and reuse, **Prof Sudhir K Arora**, Professor of Practice, Civil Engineering, IITGN, Jan 31-Feb 04, 07-11, 2022
- 3D scanning and printing, **Mr Lakshmikantha Sharma**, Application consultant, Altem Technologies Pvt Ltd, Feb 21-25, 2022
- Renewable energy future beyond 2030, **Prof Anand Kumar**, Professor of Practice, Electrical Engineering, IITGN, every Tuesday & Friday from Mar 22 - Apr 22, 2022
- Writing for engineering, **Mr Nivid Desai**, Teaching Associate, Writing Studio, IITGN, Mar 28 & 30, and Apr 2, 4 & 6, 2022

Student Affairs

PLACEMENTS, INTERNSHIPS AND HIGHER STUDIES 2021

CAMPUS PLACEMENTS 2021

We have seen an improvement in the placement compared to last year despite the pandemic. Compared to last year, we have seen an increase of around 20 % in the number of organisations who have shown interest in recruiting our students. The average package has seen a rise of around 10% while the median package has seen a rise of around 18%. Moreover, we have seen offers coming in from a broad spectrum of sectors including Engineering & Technology, IT-Software, Finance, Consulting, R&D, Education, Services etc. The following organisations offered campus placements for the outgoing undergraduate batch in 2021:

Names of the organisations:

- Aarti Industries Limited
- Accenture
- Achnet Technologies Inc
- Adani Enterprises Limited
- Adani Institute of Infrastructure, Ahmedabad
- Adani Total Gas Limited
- Addverb Technologies Private Limited
- Amagi Media Labs Private Limited
- ArcelorMittal Nippon Steel India Limited
- Axis My India Limited
- Axxela Advisory Services
- Banco Products (India) Limited
- Bank of America
- Barclays
- Cadila Pharmaceuticals Limited
- Centre for Development of Advanced Computing
- Ceremorphic India Private Limited
- Clumio, Inc.
- D E Shaw India Private Limited
- Decimal Point Analytics Private Limited
- Enphase Solar Energy Private Limited
- GAIL
- GCMMF Ltd (AMUL)
- GEP Worldwide
- Goldman Sachs Services Private Limited
- Graviton Research Capital LLP
- Halliburton Development India Centre
- Hemani Industries Limited
- HLE Glascoat Limited
- Hourglass Research Private Limited
- iAND Insurance Broker Private Limited
- ICU Medical India LLP
- Impact Guru Technology Ventures Private Limited
- Infosys
- IQVIA
- Jaguar Land Rover India
- Jio Platform Limited
- JSW Steel Limited
- K12 Techno Services Private Limited
- L&T Technology Services
- Larsen & Toubro Limited
- Mahindra & Mahindra Financial Services Limited
- Marvell Technology, Inc.
- Merilytics
- Newzera Tech Labs Private Limited
- Nutanix Technologies India Private Limited
- Parul University
- Pirimid Fintech LLP
- Postdot Technologies Private Limited (Postman)
- Publicis Sapient
- Sedemac Mechatronics Private Limited
- SilverBullet
- SIM Advisory
- Spectrum Techno Consultants Private Limited
- Sterlite Technologies Limited
- Strand Life Sciences
- Suzlon Energy Limited
- Tata Consultancy Services R&D Division
- Tata Power
- Testbook Edu Solutions Private Limited
- Toppr
- Tredence Analytics
- Troikaa Pharmaceuticals Limited
- Wipro
- Xylem Water Solutions India Private Limited
- ZS Associates Private Limited

SUMMER INTERNSHIPS 2021

Due to the Covid pandemic, academic internships were carried out virtually. As many as 25 students pursued virtual internships in some of the best institutes including California Institute of Technology, USA; Clemson University, USA; Nanyang Technological University, Singapore; University of Washington, USA; KAUST, Saudi Arabia among others. The following 25 students did their internships virtually in the following international institutions:

FOREIGN INSTITUTIONS

STUDENT NAME	DISCIPLINE	HOST INSTITUTION
Chris Francis	Computer Science and Engineering	California Institute of Technology, USA
Palak Purohit	Electrical Engineering	California Institute of Technology, USA
Dhruv Menon	Materials Engineering	California Institute of Technology, USA
A K Gokul Raman	Chemical Engineering	Clemson University, USA
Bhatt Pratyush Hemant	Chemical Engineering	Clemson University, USA
Thakar Devanshu Nilesh	Chemical Engineering	Clemson University, USA
Gondalia Dhruvi Ramniklal	Civil Engineering	Grenoble Alpes University, France
Patel Neel Kirankumar	Mechanical Engineering	Johns Hopkins University, USA
Rwik Rana	Mechanical Engineering	Johns Hopkins University, USA
Vagisha	Electrical Engineering	KAUST, Saudi Arabia
Aarish Parag Shah	Mechanical Engineering	Nanyang Technological University, Singapore
Dhruvi Prakash Lodhavia	Electrical Engineering	Nanyang Technological University, Singapore
Harsh Mahendra Bhai Patel	Computer Science and Engineering	Nanyang Technological University, Singapore
Navneet Kaur	Mechanical Engineering	Nanyang Technological University, Singapore
Lodha Ayush Manojkumar	Civil Engineering	University of Miami, USA
Dave Hari Manish	Civil Engineering	University of Miami, USA
Shah Jay Ashish	Chemical Engineering	University of Miami, USA
Rahul Gupta	Mechanical Engineering	University of Miami, USA
Aditi Gera	Chemical Engineering	University of Washington, USA
S Ganesh	Mechanical Engineering	University of Washington, USA
Praveen Venkatesh	Electrical Engineering	Western University, USA
Ashwani Sunil Rai	Civil Engineering	Texas A&M University, USA
Eshika Pathak	Electrical Engineering	Texas A&M University, USA
Paarth Madan	Chemical Engineering	Texas A&M University, USA
Angel Maria Varghese	Humanities and Social Sciences	Clemson University, USA

INDIAN ORGANISATIONS

Another set of students (146 in the summer and 22 in the winter) did their internships in various leading industries and institutions within India:

DOMESTIC INTERNSHIPS (SUMMER)

STUDENT NAME	DISCIPLINE	HOST INSTITUTION
Roopak Sharma	Electrical Engineering	ABB Power Products and Systems India
Mody Shril Paresh	Electrical Engineering	Accenture
Viraj Kalpesh Shah	Electrical Engineering	Accenture
Divyanshu Meena	Computer Science and Engineering	Adaface
Kokadwar Vaishnavi Arun	Mechanical Engineering	Altair Engineering Inc.
Jani Dhyey Hareshbhai	Electrical Engineering	Ashoka University
Kumar Ayush Paramhans	Electrical Engineering	Ashoka University
Jay Rahulbhai Shah	Electrical Engineering	Ashoka University
Daga Parth Prakash	Chemical Engineering	Block Armour

STUDENT NAME	DISCIPLINE	HOST INSTITUTION
Rachit Shrimal	Mechanical Engineering	Capgemini
Dhruv Darda	Mechanical Engineering	Capgemini
Shreyshi Singh	Computer Science and Engineering	Capgemini
Sresth Tosniwal	Mechanical Engineering	Capgemini
Anushka Niti	Civil Engineering	Capgemini
Bhoomika Mandloi	Computer Science and Engineering	Capgemini
Bikkumalla Rishitha	Civil Engineering	Capgemini
Jitender Kumar	Materials Engineering	Capgemini
Pallav Jain	Materials Engineering	Capgemini
Prateek Kumar Jha	Materials Engineering	Capgemini
Vishwas Joshi	Materials Engineering	Capgemini
Deepak Patel	Chemical Engineering	Capgemini
Prasanna D	Chemical Engineering	Capgemini
Gudivada Venkata Prudvi Tej	Electrical Engineering	Ceremorphic Inc
Harish Meghwal	Electrical Engineering	Ceremorphic Inc
Prajapati Pradipbhai Dahyabhai	Electrical Engineering	Ceremorphic Inc
Kabra Arpita Sanjay	Electrical Engineering	Ceremorphic Inc
Dhruvin Pankajkumar Patel	Electrical Engineering	Ceremorphic Inc
Aniket Rajnish	Mechanical Engineering	Crazy Labs Limited
Nishikant Parmar	Computer Science and Engineering	D E Shaw India Private Limited
Varun Jain	Electrical Engineering	D E Shaw India Private Limited
Guntoorkar Chaitanya Shashikant	Materials Engineering	D P Pulverizer Industries
Ajinkya Shirish Pawar	Computer Science and Engineering	Decimal Point Analytics
Amey Amol Kulkarni	Computer Science and Engineering	Decimal Point Analytics
Janvi Vinodkumar Thakkar	Computer Science and Engineering	Decimal Point Analytics
Joshi Devvrat Shailesh	Computer Science and Engineering	Decimal Point Analytics
Sama Sai Shreya Mudiraj	Electrical Engineering	Diginique TechLabs
Kanish Bhagat	Mechanical Engineering	Doubtnut
Sai Yashverdhan	Chemical Engineering	DRDO, DLI
Jitender Kumar	Electrical Engineering	EarlySalary
Pranshu Kumar Gond	Computer Science and Engineering	EarlySalary
Anupam Kumar	Computer Science and Engineering	ElevenYellow Pte. Ltd
Ramolia Harshit Mansukhbhai	Electrical Engineering	FailTell
Bhasin Abhiraj	Mechanical Engineering	Ford Motor Company
Kalyan Reddy S	Computer Science and Engineering	GMAC intelligence
Vibhute Prathamesh Sanjivkumar	Mechanical Engineering	Goodyear South Asia Tyres Private Limited
Pahuni Jain	Chemical Engineering	Hindustan Zinc Ltd (HZL)
Trivedi Shubhang Krishnakant	Civil Engineering	IISc Bangalore
Vashishtha Gautam Prashant	Electrical Engineering	IISc Bangalore
Nipun Mahajan	Computer Science and Engineering	IISc Bangalore
Sanjay Venkitesh	Electrical Engineering	IIT Bombay
Desai Aadesh Ketan	Electrical Engineering	IIT Bombay
Maddela Siddarth	Mechanical Engineering	IIEC, IIT Gandhinagar
Anusheel Kaula	Mechanical Engineering	IIT Gandhinagar
Shastri Hetvi Hiren	Electrical Engineering	IIT Gandhinagar
Jaydeep Gulab Ramnani	Mechanical Engineering	IIT Gandhinagar
Kakadiya Jaydeep Sureshbhai	Mechanical Engineering	IIT Gandhinagar
Kamlesh Arun Sawadekar	Civil Engineering	IIT Gandhinagar
Kulkarni Shardul Sunil	Mechanical Engineering	IIT Gandhinagar

STUDENT NAME	DISCIPLINE	HOST INSTITUTION
Kuntal Sunilkumar Patel	Electrical Engineering	IIT Gandhinagar
R Mithun	Materials Engineering	IIT Gandhinagar
Prankush Agarwal	Electrical Engineering	IIT Gandhinagar
Athave Prasad Devidas	Computer Science and Engineering	IIT Gandhinagar
Pushan Pravin Patel	Mechanical Engineering	IIT Gandhinagar
Reddy Venkata Neeraj Kumar	Electrical Engineering	IIT Gandhinagar
Vadhvana Sanket Jagdish Kumar	Electrical Engineering	IIT Gandhinagar
Souritra Garai	Chemical Engineering	IIT Gandhinagar
Udit	Electrical Engineering	IIT Gandhinagar
Vaibhav Saini	Mechanical Engineering	IIT Gandhinagar
Vaibhav Sharma	Civil Engineering	IIT Gandhinagar
Yashi Gaur	Civil Engineering	IIT Gandhinagar
Arushi Arnav	Civil Engineering	IIT Gandhinagar
Raavi Vinodkumar Patel	Civil Engineering	IIT Gandhinagar
Reuben Shibu Devanesan	Chemical Engineering	IIT Gandhinagar
Ayush Anand	Computer Science and Engineering	IIT Gandhinagar
Akshata Naykoo Kokane	Mechanical Engineering	IIT Gandhinagar
Md Amir Shohail	Mechanical Engineering	IIT Gandhinagar
Savudam Sai Sathvik	Mechanical Engineering	IIT Gandhinagar
Abhigyan Martin Ninama	Computer Science and Engineering	IIT Gandhinagar
Shah Revant	Chemical Engineering	IIT Gandhinagar
Sakshi Jagtap	Electrical Engineering	IIT Gandhinagar
Muhammad Yusuf Hassan	Electrical Engineering	IIT Gandhinagar
Tarun Sharma	Electrical Engineering	IIT Gandhinagar
Arpit Kaushal	Electrical Engineering	IIT Gandhinagar
Choudhary Xhitij Manish	Chemical Engineering	IIT Guwahati
Saagar Parikh	Electrical Engineering	IIT Guwahati
Eshan Randhir Gujarathi	Computer Science and Engineering	IIT Hyderabad
Srujan Pandya	Mechanical Engineering	IIT Kanpur
Sayan Biswas	Mechanical Engineering	IIT Kanpur
Preet S Shah	Mechanical Engineering	IIT Kanpur
Siddhi Pravin Surawar	Materials Engineering	IIT Kanpur
Nimit Agarwal	Electrical Engineering	IIT Kharagpur
Sumit Kumar	Chemical Engineering	IIT Madras
Pradeep Saini	Mechanical Engineering	IIT Ropar TIF (AWaDH)
Shrreya Singh	Computer Science and Engineering	InCore Semiconductors
Bavaria Meetkumar	Chemical Engineering	Indian Academy of Sciences
Juhi Alpeshkumar Parikh	Materials Engineering	Indian Space Research Organisation
Desai Rushik Jatin	Materials Engineering	Indian Space Research Organisation
Harshit Kumar	Computer Science and Engineering	Inner Engineering
Gaurav Sharma	Mechanical Engineering	Innovators and You
Unnat Nikhil Dave	Electrical Engineering	Institute of Plasma Research
Anurag Kurle	Electrical Engineering	IntersectIQ
More Yash Hiren	Electrical Engineering	IntersectIQ
Kartik Hillal	Chemical Engineering	Ipca Laboratories Limited
Arpit Venilal Patel	Computer Science and Engineering	Ironlist
Tejendra Patel	Mechanical Engineering	ITC Limited
Maitreya Thakur	Chemical Engineering	ITC Limited
Tanishque Zaware	Materials Engineering	ITC Limited

STUDENT NAME	DISCIPLINE	HOST INSTITUTION
Vrutik Chandresh Shah	Electrical Engineering	ITC Limited
Rohit Verma	Civil Engineering	Jaipur Development Authority
Preeti Chiluveru	Computer Science and Engineering	JSW Group
Dhanesh Jagdish Bhutada	Chemical Engineering	JSW Group
Yash Gautam Kamble	Electrical Engineering	JSW Group
Shirodkar Rohan Ninad	Mechanical Engineering	JSW Group
Manidhar M	Chemical Engineering	KHS Machinery Private Limited
Earandi Saineeth	Electrical Engineering	LSF Youth Environmental Council
Aastha Jivrajani	Materials Engineering	Measureschool
Shivam Sahni	Computer Science and Engineering	Microsoft Corporation
Tella Selva Sowmya Rani	Chemical Engineering	National Institute of Science and Technology, Berhampur
Baheti Sakshi Prabhulal	Chemical Engineering	Nestle India
Pusalkar Aditya Dilip	Computer Science and Engineering	Newzera Tech Labs Private Limited
Aditya Tripathi	Computer Science and Engineering	Newzera Tech Labs Private Limited
Tanmay Sharma	Chemical Engineering	Njord Trading (OPC) Private Limited
Shruti Prakash Gupta	Electrical Engineering	Nvidia Corporation
Katpara Shruti Ashokkumar	Computer Science and Engineering	Optum UHG
Siddharth Soni	Computer Science and Engineering	Optum UHG
Taha Mohammad Syed	Chemical Engineering	Optum UHG
Viraj Mitul Shah	Mechanical Engineering	Pankaj Dharkar & Associates
C Faheem Shanavas	Chemical Engineering	ProGrad by FACE Prep
Raghav Goyal	Computer Science and Engineering	Publicis Sapient
Sakshi Yogesh Kabra	Chemical Engineering	Raam Group
Kushagra Sharma	Computer Science and Engineering	Research Design and Standards Organisation
Pushkar Mujumdar	Computer Science and Engineering	Samsung R&D Institute India
Sachin Yadav	Computer Science and Engineering	Samsung R&D Institute India
Dishank Goel	Computer Science and Engineering	Saptang Labs Private Limited
Dudhatra Harsh Pravinkumar	Civil Engineering	Shreeji Developers
Paarth Sachan	Civil Engineering	Systra
Dhvani Manish Shah	Mechanical Engineering	Tata Motors Limited
Adarsh Golait	Mechanical Engineering	Tata Steel Limited
Aishna Agrawal	Computer Science and Engineering	The Goldman Sachs Group, Inc.
Meshram Yash Arun	Mechanical Engineering	The Sparks Foundation
Dhanashree Sanjay Ingale	Chemical Engineering	The whole Truth
Dhruv Mahesh Bukinkere	Materials Engineering	Thermax Limited
Krish Gupta	Materials Engineering	tingting
Aman Sharma	Chemical Engineering	Toppr.com
Mekala Rishitha Ravi	Computer Science and Engineering	Tradia Corporation
Prayagi Ishan Sunil	Mechanical Engineering	Visvesvaraya National Institute of Technology

DOMESTIC INTERNSHIPS (WINTER)

STUDENT NAME	DISCIPLINE	HOST INSTITUTION
Aastha Jivrajani	Materials Engineering	Aad Express
Siddhi Pravin Surawar	Materials Engineering	Aditya Birla Science and Technology Company Private Limited
Harsh Patel	Computer Science and Engineering	AIVID Technologies
Mithun R	Materials Engineering	The Creator Industries
Anand Kumar Yadav	Mechanical Engineering	Edvizo

Abhinav Kumar	Computer Science and Engineering	Eftax Co. Limited
Saagar Parikh	Electrical Engineering	eInfochips Training and Research Academy
Aadesh Desai	Electrical Engineering	eInfochips Training and Research Academy
Dhruv Darda	Mechanical Engineering	Grip Foundation
Mrityunjay saraf	Chemical Engineering	IIT Gandhinagar
Sanjay Venkitesh	Electrical Engineering	Inthree Access Services Pvt Ltd (Boonbox)
Aniket Rajnish	Mechanical Engineering	Kwalee
Dhruvi Gondalia	Civil Engineering	Mattest Engineering Services
V P Shivasankaran	Computer Science and Engineering	MCG (Mysuru Consulting Group)
Vishal Kumar	Chemical Engineering	Nasha Mukt Bharat Abhiyaan
Aryamann Tomar	Electrical Engineering	NHPC Limited
Udit Vyas	Electrical Engineering	Newzera Tech Labs Private Limited
Kushagra Sharma	Computer Science and Engineering	Nokia Corporation
Harish Meghwal	Electrical Engineering	Nuclear Power Corporation of India Limited
Dhanesh Bhutada	Chemical Engineering	Raam Group
Gaurav Dalmia	Mechanical Engineering	Siemens Digital Industries Private Limited
Shubham Verma	Mechanical Engineering	Verzeo

CLASS OF 2021 GRADUATES PURSUING HIGHER STUDIES ABROAD

NAME	DISCIPLINE AT IITGN	PROGRAMME	INSTITUTE	COUNTRY
BTECH				
Prakash R	Electrical Engineering	MS	California Institute of Technology, USA	USA
Vatsal Ketankumar Joshi	Mechanical Engineering	MS	Carnegie Mellon University, USA	USA
Dev Kakkad	Chemical Engineering	MS	Carnegie Mellon University, USA	USA
Vraj Patel	Computer Science and Engineering	MSc	ETH Zürich, Switzerland	Switzerland
Mohammed Aasim Shaikh	Electrical Engineering	MS-PhD	King Abdullah University of Science and Technology, Saudi Arabia	Saudi Arabia
Dinesh Raj D	Materials Engineering	MS	Katholieke Universiteit Leuven, Belgium	Belgium
Rensi Pipalia	Civil Engineering	MS	Purdue University, USA	USA
Krutarth Hemant Khot	Materials Engineering	PhD	Purdue University, USA	USA
Varun Biren Dolia	Materials Engineering	PhD	Stanford University, USA	USA
Ronak Nitin Kaoshik	Electrical Engineering	MS	University of California Los Angeles, USA	USA
Rohan Prashant Patil	Computer Science and Engineering	MS	University of California San Diego, USA	USA
Chauhan Jainish Nileshkumar	Electrical Engineering	MS	University of California San Diego, USA	USA
Nidhin Harilal	Computer Science and Engineering	PhD	University of Colorado Boulder, USA	USA
Utkarsh Sandeep Gangwal	Civil Engineering	PhD	University of Delaware, USA	USA
B Dhyanesh	Materials Engineering	MS	University of Illinois Urbana-Champaign, USA	USA
Pranjali Anil Borse	Civil Engineering	MS	University of Illinois Urbana-Champaign, USA	USA
Shah Harsh Sarju	Civil Engineering	PhD	University of Illinois Urbana-Champaign, USA	USA
Kishen N Gowda	Computer Science and Engineering	PhD	University of Maryland, College Park, USA	USA
Shah Dhruval Suresh	Materials Engineering	MS	University of Pennsylvania, USA	USA
Parth Shinde	Mechanical Engineering	MS	University of Texas at Austin, USA	USA
Rohan Mewada	Materials Engineering	MS	University of Washington, USA	USA
Shahzaib Khan	Civil Engineering	MS	University of Washington, USA	USA
Mulastham Amitha Rani	Materials Engineering	PhD	University of Washington, USA	USA

MSC				
G Gomathy	Mathematics	PhD	Boston College, USA	USA
Nikita Anil Kumar	Cognitive Science	PhD	École Normale Supérieure, France	France
Caren Felicia J	Cognitive Science	PG Research Fellowship	Scuola Internazionale Superiore di Studi Avanzati, Italy	Italy
Shivangi Sharma	Chemistry	PhD	Texas A&M University, USA	USA
Tharan S	Cognitive Science	PhD	The University of Texas at Austin, USA	USA
Vaishnavi Sivaprasad	Cognitive Science	PhD	University of Connecticut, USA	USA
Avinava Mukhopadhyay	Mathematics	PhD	University of Florida, USA	USA
Rudrendra Kashyap	Mathematics	PhD	University of Pittsburgh, USA	USA
MTECH				
Adarsh Pael	Biological Engineering	PhD	Bar Ilan University, Israel	Israel
Som Dixit	Materials Engineering	PhD	Clemson University International Center for Automotive Research, USA	USA
Pankhuri Sinha	Biological Engineering	PhD	Institut Curie, France	France
Anurag Sharma	Materials Engineering	PhD	Nanyang Technological University, Singapore	Singapore
Sojitra Kandarp Ashokbhai	Chemical Engineering	PhD	Texas A&M University, USA	USA
Syes Nafiz Hasan	Electrical Engineering	MS	The FH Aachen – Aachen University of Applied Sciences, Germany	Germany
Chandrama Ghosh	Biological Engineering	PhD	The International Institute of Molecular Mechanisms and Machines Polish Academy of Sciences, Poland	Poland
Ashray Saxena	Civil Engineering	PhD	University of Texas at Austin, USA	USA
Chirag Anilkumar	Mechanical Engineering	PhD	University of Tokyo, Japan	Japan
Tamalika Paul	Biological Engineering	PhD	Virginia Polytechnic Institute and State University, USA	USA
MA				
Joita Das	HSS	PhD	National University of Singapore, Singapore	Singapore
Shruti Krishnan	HSS	PhD	School of Oriental and African Studies, UK	UK
Mohd Javaid	HSS	MA	The Graduate Institute, Geneva (IHEID), Switzerland	Switzerland

CLASS OF 2021 GRADUATES PURSUING HIGHER STUDIES IN INDIA

NAME	DISCIPLINE AT IITGN	PROGRAMME	INSTITUTE
BTECH			
Anand Merchant	Chemical Engineering	PGP	Indian Institute of Management Calcutta
Harshal Rashtrapal Thool	Chemical Engineering	PGP	Indian Institute of Management Indore
Deepika Soni	Electrical Engineering	PGP	Indian Institute of Management Indore,
Dip Nilim Das	Mechanical Engineering	PGP	Indian Institute of Management Kozhikode
Banoth Vishnu Sai Naik	Materials Engineering	MSc	Indian Institute of Technology Gandhinagar
MSC			
Uthara Brahadeesh	Cognitive Science	PhD	Indian Institute of Technology Gandhinagar
Mohit Kumar	Chemistry	PhD	Indian Institute of Technology Guwahati
MTECH			
Rajlaxmi Pandey	Electrical Engineering	PhD	Indian Institute of Sciences Bangalore
Ananya Sharma	Biological Engineering	PhD	Indian Institute of Sciences Bangalore
Somesh Nana Shingane	Biological Engineering	PhD	Indian Institute of Sciences Bangalore

Henil Shah	Electrical Engineering	PhD	Indian Institute of Technology Bombay
Amit Bhongade	Electrical Engineering	PhD	Indian Institute of Technology Delhi
Vegad Urmin Devenbhai	Civil Engineering	PhD	Indian Institute of Technology Gandhinagar
Pankaj Yadav	Biological Engineering	PhD	Indian Institute of Technology Gandhinagar
Axita Patel	Biological Engineering	PhD	Indian Institute of Technology Gandhinagar
Prathmesh Bhadane	Materials Engineering	PhD	Indian Institute of Technology Gandhinagar
Akshay Kumar Soni	Materials Engineering	PhD	Indian Institute of Technology Guwahati
Jyoti Kumari	Computer Science and Engineering	PhD	Indian Institute of Technology Kharagpur
Sahil Wani	Civil Engineering	PhD	Indian Institute of Technology Madras
Prajwal Kumar Singh	Computer Science and Engineering	PhD	Indian Institute of Technology Madras
Shiny Pandit	Biological Engineering	PhD	Indian Institute of Technology Roorkee
Ankita Shahi	Materials Engineering	PhD	Indian Institute of Technology Roorkee
MASC			
Rajasee Mukherjee	HSS	MPhil	Indian Institute of Technology Bombay

CASH AWARDS FOR RESEARCH PUBLICATIONS:

In its 9th meeting on Mar 28, 2013 the Board of Governors had approved a cash award scheme as an incentive for undergraduate and postgraduate students to publish in peer-reviewed journals. The following students were given cash awards during the year 2021-22:

NAME OF THE STUDENT	PROGRAMME
Lovepreet Singh	BTech
Chauhan Jainish Nileshkumar	BTech
Kavita Vaishnaw	BTech
R Prakash	BTech
Vraj Patel	BTech
Kanishk Kalra	BTech
Mohammed Aasim Shaikh	BTech
Nidhin Harilal	BTech
Varun Biren Dolia	BTech
Kaushal Modi	BTech
Somesh Pratap Singh	Dual Major in BTech
Akhil Anil Rajput	BTech (alumnus)
Sammed Shantinath Kagi	BTech (alumnus)
Gohil Varun Chandrashekhar	BTech (alumnus)
Sumit Walia	BTech (alumnus)
Venkata Sai Akhil Varri	BTech (alumnus)
Bedmutha Manas Satish	BTech (alumnus)
Kevin Patel	BTech (alumnus)
Naman Jain	BTech (alumnus)
B Pranav Chakra Varthy	BTech - MTech Dual Degree (alumnus)
Sudhir	MSc
Sanya Jain	MSc
Deeptija Pandey	MTech
Mehta Dip Trilokkumar	MTech
Anant Misra	MTech

NAME OF THE STUDENT	PROGRAMME
Kiran Barasu Dhangar	MTech
Rohit Gahlot	MTech
Akshay Rajeev	MTech
Litton Bhandari	MTech (alumnus)
Akash Kiran Varma	MTech (alumnus)
Aaqib Khan	MTech (alumnus)
Ishita Doshi	MTech (alumnus)
Kapilkumar Mehta	MTech (alumnus)
Kaushik Bhowmik	MTech (alumnus)
Prasanna P Kulkarni	MTech (alumnus)
Sourav Mukul Tewari	MTech (alumnus)
Deep Shah	MTech (alumnus)
Trisrota Deb	MTech (alumnus)
Ajay Kumar	MSc (alumnus)
Tanya Hans	MSc (alumnus)
Tarun Kumar	MSc (alumnus)
Alok Kumar Thakur	MTech (alumnus)
Krishna Kumar	MTech (alumnus)
Kunal Bhardwaj	MTech (alumnus)
Rishabh Patidar	MTech (alumnus)
Jadhav Sayali Nitin	MTech (alumnus)
Swarupkumar Surwase	MTech (alumnus)
Vishesh Sharma	MTech (alumnus)
Md Zafar Ahmed	MTech (alumnus)
Shalinee Bharat	MTech (alumnus)
Pratik Prajapati	PhD & MTech (alumnus)

SCHOLA

SCHOLARSHIPS & FINANCIAL SUPPORT TO STUDENTS

IITGN believes that financial constraints should not become obstacles in the academic pursuit of any student. The Institute's extremely liberal financial aid and scholarship programs ensure that no student feels disadvantaged due to his/her financial situation. The Institute has thus constituted numerous scholarships and financial assistance mechanisms such as the Donor scholarships, Excellence scholarships, TML-FAP (Tata Motors Ltd Financial Aid Programme), tuition fee waiver etc. In addition to the above, the institute also provides financial support in the form of financial grants, interest-free short/long term loans to deserving students for their needs towards expenditures such as tuition fees, hostel and mess fees, books, computer, pocket expenses, medical emergencies (beyond what is covered by insurance), social and cultural activities, internships and educational tours, etc.

The interest-free loans and grants are provided from the Student Benevolent Fund. The repayment dates for the long-term loans may extend up to a maximum of 36 months from the recipient student's date of graduation. Unlike the short-term and long-term loans, support received as financial grants are not deemed to be repaid by the beneficiary students.

Overall Scholarships and Financial Support to Students

Type of Scholarship and Financial Assistance	**2021-22**	
	Number of Beneficiaries	**Amount of Scholarship (in Rs)**
Free basic messing and pocket allowance of Rs. 250/- per month for ten months	84	32,89,350
Donor scholarships	58	69,35,000
Excellence scholarships	28	4,36.000
TML-FAP assistance	62	35,72,088
Tuition fee waiver (UG)	208	3,69,66,709
Tuition fee waiver (PG)	75	7,25,000
Interest free loan and grants (Financial assistance provided for IITGN from Student Benevolent Fund)	232	1,50,53,231
Laptop grant	42	16,80,000
Total (in Rs)	**789**	**6,86,57,378**

RSHIPS

FINANCIAL AID TO STUDENTS

FINANCIAL AID FOR UNDERGRADUATE STUDENTS

As per the norms of the Ministry, students with parental income less than Rs 1 lakh get full tuition fee waiver while students with parental income between Rs 1 lakh and Rs 5 lakh get a waiver of two thirds of the fee. IITGN provides an additional one third tuition fee reimbursement to students with parental income ranging between Rs 1 lakh to Rs 2.5 lakhs. Therefore, they effectively receive full tuition fee exemption for their education at IITGN. This assistance is provided from the Student Benevolent & Welfare Fund or from the Excellence Funds in the Endowment

A total of 51 BTech students received this additional one third tuition fee waiver during the academic year 2021-22

FINANCIAL AID FOR MASTERS STUDENTS

Students with parental income upto Rs 2.5 lakhs are provided with a full tuition fee reimbursement for their education at IITGN. This assistance is provided from the Student Benevolent & Welfare fund or the Excellence Funds in the endowment

A total of 75 Masters students (MTech, MSc and MA) received full tuition fee waiver during the academic year 2021-22

FREE BASIC MESSING AND POCKET ALLOWANCE ASSISTANCE

All students of the SC/ST category avail full tuition fee waiver. In addition, the Institute provides free basic messing and nominal pocket allowance of Rs 250 per month for ten months to SC/ST students whose annual parental income is upto Rs 4.5 Lakhs. This assistance is provided to BTech and MSc (Physics, Chemistry and Mathematics) SC/ST Students

A total of 63 undergraduate and 21 postgraduate SC/ST category students whose annual parental income were within the limit prescribed for this assistance were granted the facility for free basic messing and a pocket allowance of Rs 250 per month for ten months during the academic year 2021-22

SCHOLARSHIPS FOR EXCELLENCE

IITGN has instituted several excellence scholarships for outstanding performance in academics, sports, art and culture, and social work and leadership. These scholarships are awarded on the basis of outstanding achievements in respective fields. The scholarship carries a monetary benefit of Rs 2,000 per month for 10 months. However, if the awardee is also a recipient of any other scholarship of equal or higher value, then he/she is eligible only for a one-time receipt of Rs 5000. Excellence scholarships for the academic year 2021-22 have been awarded as follows:

SCHOLARSHIP FOR EXCELLENCE IN ACADEMICS

- **Dave Hari Manish, Baheti Sakshi Prabhulal, Kushagra Sharma, Praveen Venkatesh, Bhasin Abhiraj** and **Dhruv Menon** are the recipients of Scholarship for Excellence in Academics from BTech 2018 batch.
- **Ashwani Sunil Rai, Pahuni Jain, Shrreya Singh, Eshika Pathak, Sanskar Anil Nalkande** and **Juhi Alpeshkumar Parikh** are the recipients of Scholarship for Excellence in Academics from BTech 2019 batch.
- **Yuvraj Gupta, Anuj Ujjval Buch, Progyan Das, Jinay A Dagli, Pavidhar Jain** and **Shreya Shukla** are the recipients of Scholarship for Excellence in Academics from BTech 2020 batch.

SCHOLARSHIP FOR EXCELLENCE IN SPORTS & GAMES

Boddu Sai Gowri Jhansi, Sakshi Yogesh Kabra, Jitender Kumar, Sumit Kumar, Pedamajji Rakeshnaidu and **Gaurav Sharma** were awarded the scholarship for excellence in Sports & Games for the academic year 2021-22.

SCHOLARSHIP FOR EXCELLENCE IN ARTS & CULTURE

Janvi Vinodkumar Thakkar and **Palak Purohit** were awarded the scholarship for excellence in Arts & Culture for the academic year 2021-22.

SCHOLARSHIP FOR EXCELLENCE IN SOCIAL WORK & LEADERSHIP

Dhanesh Jagdish Bhutada and **Shivanshu Sharma** were awarded the scholarship for excellence in Social Work & Leadership for the academic year 2021-22.

SCHOLARSHIP RECIPIENTS

SCHOLARSHIPS FOR EXCELLENCE

SCHOLARSHIP	RECIPIENT'S NAME
Scholarship for Excellence in Academics from BTech 2018 Batch	Dave Hari Manish, Baheti Sakshi Prabhulal, Kushagra Sharma, Praveen Venkatesh, Bhasin Abhiraj and Dhruv Menon
Scholarship for Excellence in Academics from BTech 2019 Batch	Ashwani Sunil Rai, Pahuni Jain, Shrreya Singh, Eshika Pathak, Sanskar Anil Nalkande and Juhi Alpeshkumar Parikh
Scholarship for Excellence in Academics from BTech 2020 Batch	Yuvraj Gupta, Anuj Ujjval Buch, Progyan Das, Jinay A Dagli, Pavidhar Jain and Shreya Shukla
Scholarship for Excellence in Sports & Games	Boddu Sai Gowri Jhansi, Sakshi Yogesh Kabra, Jitender Kumar, Sumit Kumar, Pedamajji Rakeshnaidu and Gaurav Sharma
Scholarship for Excellence in Arts & Culture	Janvi Vinodkumar Thakkar and Palak Purohit
Scholarship for Excellence in Social Work & Leadership	Dhanesh Jagdish Bhutada and Shivanshu Sharma

SCHOLARSHIPS FOR STUDENTS

SCHOLARSHIPS	RECIPIENT'S NAME
Shri Shanti Saroop Agarwal Scholarship	Sanskar Anil Nalkande
Gauri Sugan Agarwal Scholarship	Shejina M
Chandrakant and Patricia Desai Scholarship	Ashwani Sunil Rai
Chetan Dhande Scholarship	Trivedi Shubhang Krishnakant
Prof M H Divekar Scholarship	Baheti Sakshi Prabhulal
Kankuben Bakshirambhai Gelot Scholarship	Akshata Naykoo Kokane
Neha & Vinay Gupta Scholarship	Eshan Randhir Gujarathi
Ashok Jain Scholarship	Sachin Yadav
N K Jain Scholarship	Baheti Sakshi Prabhulal
Seema Jain Scholarship	Yash Khandelwal
Mrs Sita Jha Memorial Scholarship	Dhvani Manish Shah
Smt Sumitrabai Manohar Kanade Scholarship	Sanskar Anil Nalkande
P K Kelkar Scholarship	Mohamed Shamir TM
Kutch Scholarship	Vyawahare Saurabh Nilesh
S C Mehrotra Scholarship	Lodha Ayush Manojkumar
Shri Arjun Raj Mehta Scholarship	Patwardhan Saniya Abhay
Erach and Mehroo Mehta Merit Scholarship	Hitarth Gandhi, Viramgami Gaurav, Lavti Shubh Sunil, Dhairya Shah, Saatvik Rao, Bhavesh Jain, Venkata Sriman Narayana Malli, Kanishk Singhal, Gaurav Joshi, Naman Dharmani, Aaryan Darad, Adit Kaushik and Sachin Jalan
Bhai Krishna Chandra Mohan Mittal Scholarship	Desai Rushik Jatin
Bhai Suresh Mohan Mittal Scholarship	Voorugonda Rajesh
Prof K V Venkatesha Murthy Scholarship	Desai Aadesh Ketan
Dr J L Nayyar Scholarship	Souritra Garai
Professor D V Pai Scholarship	Sri Vishnu Priya Balaji
Ramanujan Scholarship	Hemant Poonia
Ajodyabai Gulabchandji Randad Scholarship	Ayush Gupta
Satyaram Scholarship	Amlin Jose, Tella Selva Sowmya Rani and Yashi Gaur
Lalita J Shah & Jayantilal B Shah Scholarship	Janvi Vinodkumar Thakkar
Bipin and Rekha Shah Scholarships	R Yeeshu Dhurandhar
Daya Shanker & Shakuntala Scholarship	Shashi Sarraf
Vimala Srinivas Scholarship	Thakar Devanshu Nilesh
Prof S P Sukhatme Scholarship	Dhakad Bhagat Singh
Durga Devi Sultania Scholarship	Deep Samir Thakkar

Mahabir Prasad Sultania Scholarship	Aishwarya Omar
Santosh Rani Tandon Scholarship	Aman Chaudhary
Shri Onkarprasad Tandon Scholarship	Harsh Mahendrabhai Patel
Professor Nitish Thakor Scholarship	Soni Vishal Jayesh
Vegshakti Mahila Kalyan Sangathan Scholarship	Priya Gupta and Veena K
Lakshmi Vadali Excellence Scholarship	Ishva Patel
Dr T G Visweswaraiah Scholarship	Mandalia Harsh Devendrabhai

SCHOLARSHIP FOR STUDENTS

SHRI SHANTI SAROOP AGARWAL SCHOLARSHIP

Shri Shanti Saroop Agarwal Scholarship was instituted in the year 2020 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Bhatt Pratyush Hemant** is the recipient of the scholarship for the year 2021-22

GAURI SUGAN AGARWAL SCHOLARSHIP

Gauri Sugan Agarwal Scholarship was instituted in the year 2021 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Shejina M** is the recipient of the scholarship for the year 2021-22

CHANDRAKANT & PATRICIA DESAI SCHOLARSHIP

Chandrakant and Patricia Desai Scholarship was instituted in the year 2017 and is open to all BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Ashwani Sunil Rai** is the recipient of the scholarship for the year 2021-22

CHETAN DHANDE SCHOLARSHIP

Chetan Dhande Scholarship was instituted in the year 2020 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Trivedi Shubhang Krishnakant** is the recipient of the scholarship for the year 2021-22

PROF M H DIVEKAR SCHOLARSHIP

The Prof M H Divekar Scholarship was instituted in the year 2014 and is open for the third year BTech students of Chemical Engineering. The scholarship amount is Rs 40,000/- and is awarded every year to the student securing the highest grade in the Chemical Engineering course at the end of the third year. **Baheti Sakshi Prabhulal** is the recipient of the scholarship for the year 2021-22

KANKUBEN BAKSHIRAMBHAI GELOT SCHOLARSHIP

Kankuben Bakshirambhai Gelot Scholarship was instituted in the year 2020 and is open to all Female BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support financial needs, funding internships (international or domestic), special projects and opportunities, etc. **Akshata Naykoo Kokane** is the recipient of the scholarship for the year 2021-22

NEHA & VINAY GUPTA SCHOLARSHIP

Neha & Vinay Gupta Scholarship was instituted in the year 2019 and is open to all BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Eshan Randhir Gujarathi** is the recipient of the scholarship for the year 2021-22

ASHOK JAIN SCHOLARSHIP

Ashok Jain scholarship was instituted in the year 2019 and is open to all BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. BTech students with a minimum CPI of 6.5 are eligible. **Sachin Yadav** is the recipient of the scholarship for the year 2021-22

N K JAIN SCHOLARSHIP

N K Jain Scholarship was instituted in the year 2019 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Baheti Sakshi Prabhulal** is the recipient of the scholarship for the year 2021-22

SEEMA JAIN SCHOLARSHIP

Seema Jain Scholarship was instituted in the year 2019 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects

and opportunities, financial needs, etc. **Yash Khandelwal** is the recipient of the scholarship for the year 2021-22

MRS SITA JHA MEMORIAL SCHOLARSHIP

Mrs Sita Jha Memorial Scholarship was instituted in the year 2018 and is open to all BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. Female students are usually given priority. **Dhvani Manish Shah** is the recipient of the scholarship for the year 2021-22

SMT SUMITRABAI MANOHAR KANADE SCHOLARSHIP

Smt Sumitrabai Manohar Kanade Scholarship was instituted in the year 2021 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Sanskar Anil Nalkande** is the recipient of the scholarship for the year 2021-22

P K KELKAR SCHOLARSHIP

The P K Kelkar Scholarship was instituted in the year 2016 and is open to all BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Mohamed Shamir T M** is the recipient of the scholarship for the year 2021-22

KUTCH SCHOLARSHIP

Kutch Scholarship was instituted in the year 2021 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Vyawahare Saurabh Nilesh** is the recipient of the scholarship for the year 2021-22

S C MEHROTRA SCHOLARSHIP

The S C Mehrotra Scholarship was instituted in the year 2010 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Lodha Ayush Manojkumar** is the recipient of the scholarship for the year 2021-22

SHRI ARJUN RAJ MEHTA SCHOLARSHIP

Shri Arjun Raj Mehta Scholarship was instituted in the year 2019 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Patwardhan Saniya Abhay** is the recipient of the scholarship for the year 2021-22

ERACH AND MEHROO MEHTA MERIT SCHOLARSHIP

Erach and Mehroo Mehta Merit Scholarship was instituted in the year 2019 and is open to the BTech students admitted at IITGN in AY 2019-20, AY 2020-21 and AY 2021-22. The scholarship amount is Rs 2 lakh per student annually for a period of four years with the total scholarship amount of Rs 8 Lakhs per student. The scholarship is awarded to the top five students admitted to the BTech program at IITGN and holding a JEE Advanced rank of 1000 or better or having represented India in any recognized international Olympiad. The scholarship is renewed every year subject to satisfactory academic progress {SPI of 8.5 or minimum CPI of 8.00 (with at least normal academic load and no fail grades)} and is not under any disciplinary sanction. **Hitarth Gandhi, Viramgami Gaurav, Lavti Shubh Sunil, Dhairya Shah, Saatvik Rao, Bhavesh Jain, Venkata Sriman Narayana Malli, Kanishk Singhal, Gaurav Joshi, Naman Dharmani, Aaryan Darad, Adit Kaushik** and **Sachin Jalan** are the recipients of the scholarship for the year 2021-22

BHAI SURESH MOHAN MITTAL SCHOLARSHIP AND BHAI KRISHNA CHANDRA MITTAL SCHOLARSHIP

These scholarships have been instituted in the year 2018 and 2019 and are open to all BTech students at IITGN. The scholarship amount is Rs 1 lakh and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Voorugonda Rajesh** is the recipient of Bhai Suresh Mohan Mittal scholarship for the year 2021-22 and **Desai Rushik Jatin** is the recipient of Bhai Krishna Chandra Mittal scholarship for the year 2021-22

PROF K V VENKATESHA MURTHY SCHOLARSHIP

Prof K V Venkatesha Murthy Scholarship was instituted in the year 2017 and is open to all BTech students of Electrical Engineering. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Desai Aadesh Ketan** is the recipient of the scholarship for the year 2021-22

DR J L NAYYAR SCHOLARSHIP

Dr J L Nayyar scholarship was instituted in the year 2017 and is open to all BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects

and opportunities, financial needs, etc. **Souritra Garai** is the recipient of the scholarship for the year 2021-22

PROFESSOR D V PAI SCHOLARSHIP

Professor D V Pai Scholarship was instituted in the year 2018 and is open to all second-year students of the MSc Program in Mathematics at IITGN whose gross annual parental income does not exceed Rs 8 lakhs per annum and has a minimum CPI of 7.0. The scholarship amount is Rs 25,000 per academic year. In addition, a book grant of up to Rs 5,000 can be claimed by the recipient student against the actual expenditure incurred. **Sri Vishnu Priya Balaji** is the recipient of the scholarship for the year 2021-22

RAMANUJAN SCHOLARSHIP

Ramanujan Scholarship was instituted in the year 2021 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Hemant Poonia** is the recipient of the scholarship for the year 2021-22

AJODYABAI GULABCHANDJI RANDAD SCHOLARSHIP

Ajodyabai Gulabchandji Randad Scholarship was instituted in the year 2019 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Ayush Gupta** is the recipient of the scholarship for the year 2021-22

SATYARAM SCHOLARSHIP

The Satyaram Scholarships were instituted in the year 2016. Students with a minimum CPI of 6.5 and whose family annual income is not more than Rs 3 lakhs are eligible for this scholarship. The scholarship amount is Rs 1 lakh per year per student and a total of 03 students were awarded in the year 2021-22. The recipient student continues to get the scholarship support till the completion of his/her BTech Program at IITGN, subject to meeting the eligibility criteria. The awardee is expected to financially help at least one needy IITGN student in the future. **Amlin Jose, Tella Selva Sowmya Rani** and **Yashi Gaur** are the recipients of the scholarship for the year 2021-22

LALITA J SHAH & JAYANTILAL B SHAH SCHOLARSHIP

The Lalita J Shah & Jayantilal B Shah Scholarship was instituted in the year 2016 and is open to all BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Janvi Vinodkumar Thakkar** is the recipient of the scholarship for the year 2021-22

BIPIN AND REKHA SHAH SCHOLARSHIP

Bipin and Rekha Shah scholarships were instituted in the year 2018 and are open to all BTech students of Electrical Engineering. The scholarship amount is Rs 1 lakh and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **R Yeeshu Dhurandhar** is the recipient of the scholarship for the year 2021-22

DAYA SHANKER & SHAKUNTALA SCHOLARSHIP

Daya Shanker & Shakuntala Scholarship was instituted in the year 2020 and is open to all BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Shashi Sarraf** is the recipient of the scholarship for the year 2021-22.

VIMALA SRINIVAS SCHOLARSHIP

Vimala Srinivas Scholarship was instituted in the year 2019 and is open to all BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. BTech students with a minimum CPI of 6.5 are eligible. **Thakar Devanshu Nilesh** is the recipient of the scholarship for the year 2021-22

PROF S P SUKHATME SCHOLARSHIP

Prof S P Sukhatme Scholarship has been instituted in the year 2019 and is open to all the BTech Students at IITGN. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Dhakad Bhagat Singh** is the recipient of the scholarship for the year 2021-22

MAHABIR PRASAD SULTANIA SCHOLARSHIP AND DURGA DEVI SULTANIA SCHOLARSHIP

These scholarships were instituted in the year 2016 and are open to all BTech students. The scholarship amount is Rs 1 lakh and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Aishwarya Omar** is the recipient of Mahabir Prasad Sultania scholarship for the year 2021-22 and **Deep Samir Thakkar** is the recipient of Durga Devi Sultania scholarship for the year 2021-22

SANTOSH RANI TANDON SCHOLARSHIP

Santosh Rani Tandon Scholarship was instituted in

the year 2018 and is open to all BTech students of Civil Engineering. The scholarship amount is Rs 1 lakh per student per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. Preference is given to female students interested in Structural Engineering. **Aman Chaudhary** is the recipient of the scholarship for the year 2021-22

SHRI ONKARPRASAD TANDON SCHOLARSHIP

Shri Onkarprasad Tandon Scholarship was instituted in the year 2020 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Harsh Mahendrabhai Patel** is the recipient of the scholarship for the year 2021-22

PROFESSOR NITISH THAKOR SCHOLARSHIP

Professor Nitish Thakor Scholarship was instituted in the year 2019 and is open to all the BTech students. The scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Soni Vishal Jayesh** is the recipient of the scholarship for the year 2021-22

VEGSHAKTI MAHILA KALYAN SANGATHAN SCHOLARSHIP

The VMKS scholarship has been instituted in the year 2020 and is open to the first year female students. The scholarship amount is Rs 1 Lakh per student per year and is awarded to two first-year BTech female students of IITGN in order to support their educational expenses. The scholarship recipients shall continue to receive the benefit of this scholarship during their UG program every year, up to four years, provided they fulfill the academic criteria for annual renewal of the scholarship. **Priya Gupta** and **Veena K** are the recipients of the scholarship for the year 2021-22

LAKSHMI VADALI EXCELLENCE SCHOLARSHIP

Lakshmi Vadali Excellence Scholarship has been instituted in the year 2021 and the main objective is to award excellence scholarship to the top-ranking female student admitted to BTech program at IIT Gandhinagar and in need of financial support to pursue the program. The scholarship amount is Rs 1 Lakh per year and the recipient female student continues to get the scholarship support till completion of her BTech Program subject to obtaining a minimum CPI of 7.0 **Ishva Patel** is the recipient of the scholarship for the year 2021-22

DR T G VISWESWARAIAH SCHOLARSHIP

Dr T G Visweswaraiah Scholarship was instituted in the year 2021 and is open to all the BTech students. The scholarship amount is Rs. 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Mandalia Harsh Devendrabhai** is the recipient of the scholarship for the year 2021-22

CLASS OF 2013 SCHOLARSHIPS

Class of 2013 Scholarship was instituted in the year 2019 and is open to all the BTech students. The class of 2013 scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Shivanshu Sharma** is the recipient of the scholarship for the year 2021-22

CLASS OF 2014 SCHOLARSHIPS

Class of 2014 Scholarship was instituted in the year 2020 and is open to all the BTech students. The class of 2014 scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Suhani Mittal** is the recipient of the scholarship for the year 2021-22

CLASS OF 2015 SCHOLARSHIPS

Class of 2015 Scholarship was instituted in the year 2017 and is open to all the BTech students. The class of 2015 scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Gaurav Sharma** is the recipient of the scholarship for the year 2021-22

CLASS OF 2016 SCHOLARSHIPS

Class of 2016 Scholarship was instituted in the year 2016 and is open to all the BTech students. The class of 2016 scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Bommisetty Siva Sai** is the recipient of the scholarship for the year 2021-22

CLASS OF 2017 SCHOLARSHIPS

Class of 2017 Scholarship was instituted in the year 2020 and is open to all the BTech students. The class of 2017 scholarship amount is Rs 1 lakh per year and is awarded every year to support internships (international or domestic), special projects and opportunities, financial needs, etc. **Aditi Agarwal** is the recipient of the scholarship for the year 2021-22

RESEARCH AND DEVELOPMENT

PUBLICATIONS

Number of Research Publications from April 2021 - March 2022

DOCUMENT TYPE	NUMBER OF RESEARCH PUBLICATIONS
Book chapters	30
Books	4
Books edited	2
E-Print archives	142
Journal articles	517
Magazine/newspaper articles/short storles	17
Papers presented at conferences	207
Posters presented	28
Reviews	8
White paper	1
Working papers	1
Others	19
Total	**976**

SPONSORED RESEARCH PROJECTS

PROJECTS SANCTIONED DURING 2021-22

- In memory computing for next generation workloads using emerging memory technologies, **(SERB**). Principal investigator: **Prof Joycee Mekie**, Electrical Engineering
- Evaluating oral cancer lesions using quantitative ultrasound and elasticity imaging, (**GSBTM**). Principal investigator: **Prof Karla Patricia Mercado-Shekhar**, Biological Engineering
- DNA programmed, microfluidic devices as cost-effective, high-throughput point-of-care diagnostic platforms for Covid19 detection, **(GSBTM)**. Principal investigator: **Prof Dhiraj Bhatia**, Biological Engineering
- Mapping Kapadvanj Glass: The last surviving traditional tank furnace in India, **(CMOG).** Principal investigator: **Prof Alok Kanungo**, Archaeological Sciences
- Mobility and multilingualism in the Indian Ocean: impacts of global ecological change on local society, **(SSRC).** Principal investigator: **Prof Nishaant Choksi**, Humanities and Social Sciences
- A genetic morphological classification of the peninsular rivers through clustering of river long profiles: a tool for sustainable river management, **(CSIR).** Principal investigator: **Prof Vikrant Jain**, Earth Sciences
- Novel laser-based monitoring of key environmental parameters – addressing well-being, livelihood and a healthier environment in developing regions of India, **(RAEng).** Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering
- Ultrasound-enabled oncotripsy for breast cancer treatment, **(DBT).** Principal investigator: **Prof Himanshu Shekhar**, Electrical Engineering
- Developing novel oxygen carriers for chemical looping combustion using substitutional chemistry of mixed phases, **(DST).** Principal investigator: **Prof Sudhanshu Sharma**, Chemistry
- Mangroves stories in Gujarat, **(SSRC).** Principal investigator: **Prof Ambika Aiyadurai**, Humanities and Social Sciences
- Integrated real-time hydroclimatic framework and forecasting system for Gujarat, **(UNICEF).** Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Topological invariance of compact quantum groups and their homogeneous spaces, **(NBHM).** Principal investigator: **Prof Bipul Saurabh**, Mathematics
- Smart wear - monitoring and addressal of Parkinson gait disorders, **(DBT).** Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- Development of series elastic actuator and control unit, **(ISRO).** Principal investigator: **Prof Harish Palanthandalam Madapusi**, Mechanical Engineering
- Integrative and network modeling of mammalian circadian clock complexes, **(DBT).** Principal investigator: **Prof Ashutosh Srivastava**, Biological Engineering
- Decrypting quantum gravity using quantum information, **(BRNS).** Principal investigator: **Prof Arpan Bhattacharyya**, Physics
- History, science & technology of wildlife hunting and trapping in Arunachal Pradesh, **(INSA).** Principal investigator: **Prof Ambika Aiyadurai**, Humanities and Social Sciences
- Functional peptides and DNA based nano-assemblies for therapeutic intervention in Alzheimer's disease and related neurodegenerative disorders, **(HEFA).** Principal investigator: **Prof Sharad Gupta**, Biological Engineering
- Verified models and implementations of web security protocols, **(DST).** Principal investigator: **Prof Abhishek Bichhawat**, Computer Science and Engineering

- Study of earth surface processes at three different critical zones with different climatic and geologic settings in Western India, **(MoES).** Principal investigator: **Prof Vikrant Jain**, Earth Sciences
- Epigenomic basis of evolution of homeothermy: CGGBP1-CTCF axis in heat stress response, **(SERB).** Principal investigator: **Prof Umashankar Singh**, Biological Engineering
- Software tool development for assessing impact of process parameters on performance of thin-film coating in precision inertial sensing elements, **(ISRO).** Principal investigator: **Prof Raghavan Ranganathan**, Materials Engineering
- Wearable robots for human gait restoration: A cable-driven leg exoskeleton, **(IHFC).** Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering
- Investigating the kinetic stability of pinned colloidal supercooled liquids & glasses, **(SERB).** Principal investigator: **Prof Chandan Kumar Mishra**, Physics
- Technology development of RF power LDMOS devices, (ISRO). Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Mathematical modelling of flow and transport in porous media: A homogenization approach, **(SERB).** Principal investigator: **Prof Satyajit Pramanik**, Mathematics
- Smartwear: AI-enabled solution to Parkinson gait disorders, **(SERB).** Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- Searching for signature of black holes in gravitational waves, **(SERB).** Principal investigator: **Mostafizur Rahman** (Mentor: **Prof Arpan Bhattacharyya**), Physics
- Low temperature high magnetic field cryogenic system, **(DST).** Principal investigator: **Prof Gopinadhan Kalon**, Physics
- Investigating air quality and its dynamics in built environments in urban India, **(SERB).** Principal investigator: **Prof Sameer Patel**, Chemical Engineering
- Developing duplex shear wave elasticity imaging and ultrafast Doppler ultrasound for potential application in kidney implant monitoring, **(SERB).** Principal investigator: **Prof Karla Patricia Mercado Shekhar**, Biological Engineering
- Integrative modeling and dynamics of mammalian circadian clock complexes, **(SERB).** Principal investigator: **Prof Ashutosh Srivastava**, Biological Engineering
- Characterising QFT by analysing quantum circuit complexity, **(SERB).** Principal investigator: **Prof Arpan Bhattacharyya**, Physics
- Hazard-free circuits: algorithms and complexity, **(SERB).** Principal investigator: **Prof Balagopal Komarath**, Computer Science and Engineering
- Scalable and private machine learning via coresets, **(SERB).** Principal investigator: **Prof Anirban Dasgupta**, Computer Science and Engineering
- Detection of biomarkers through nanoscale metal-organic frameworks (MOFs), **(SERB).** Principal investigator: **Prof Sriram Kanvah** (Tapan Kumar Pal), Chemistry
- Practical approximation algorithms for numerical multilinear algebra, **(SERB).** Principal investigator: **Prof Anirban Dasgupta**, Computer Science and Engineering
- Cyber-attack analysis toolkit for cyber-physical distribution system security [CyberDiSS], **(CPRI).** Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering
- A Deep Neural Network (DNN) based framework for inverse design of high-power RF LDMOS Transistors, **(SERB).** Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Generalized Herglotz functions, zeta functions arising from modular relations, asymptotics of generalized Lambert series, and mock theta functions, **(SERB).** Principal investigator: **Prof Atul Dixit,** Mathematics
- System invertibility and relative degree for MIMO linear dynamical systems, **(SERB).** Principal investigator: **Prof Harish Palanthandalam Madapusi,** Mechanical Engineering
- CSE-FIST, **(FIST).** Principal investigator: **Prof Mayank Singh**, Computer Science and Engineering
- An integral equation approach to a class of water wave scattering problems, **(SERB).** Principal investigator: **Ayan Chanda** (Mentor: **Prof Satyajit Pramanik**), Mathematics
- Operationalising ethical frameworks in the critical technologies industries operating in India and Australia, **(LTU)**. Principal investigator: **Prof Sameer G Kulkarni**, Computer Science & Engineering
- GEMWEIM (Geodynamic model for western Indian margins), **(DST).** Principal investigator: **Prof Utsav Mannu**, Earth Sciences
- Interaction between modular forms and analytic number theory, **(SERB).** Principal investigator: **Dr Soumyarup Banerjee** (Mentor: **Prof Atul Dixit)**, Mathematics
- Development and validation of DNA functionalized nanoparticles for early screening of cancer in zebrafish Model, **(SERB).** Principal investigator: **Dr Krupa Kansara** (Mentor: **Prof Dhiraj Bhatia**), Biological Engineering
- Ultra-high sensitivity tunable laser-based spectroscopic gas detection system for the Human Spaceflight Programme, **(ISRO).** Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering
- CHE-FIST, **(DST).** Principal investigator: **Prof Prachi Thareja**, Chemical Engineering
- Role of multimodal cueing for improving postural balance and control, **(CSRI).** Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering

ONGOING SPONSORED PROJECTS

- Visvesvaraya PhD scheme for electronics and IT, (**DEIT**). Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- DSIR - common research and technology development hub - chemical processes, (**DSIR**)**.** Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Single crystal XRD instrument sanctioned under DST fund for the improvement of S&T infrastructure in Universities and Higher Educational Institutions (FIST) program – 2016, (**DST**). Principal investigator: **Prof Sivapriya Kirubakaran**, Chemistry
- Nonlinear acoustics of one- and two-dimensional granular media, (**DST**). Principal investigator: **Prof Jayaprakash K R**, Mechanical Engineering
- Detection of partial blockage in a pipe, (**SERB**). Principal investigator: **Prof Pranab Kumar Mohapatra**, Civil Engineering
- ECO-WET - efficient coupling of water and energy technologies for smart sustainable cities, Indo-German Science and Technology Centre**.** Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering
- Tectonic and climatic control on variability of sediment routing in the NW Himalaya since late quaternary, (**DST**). Principal investigator: **Prof Vikrant Jain** (Saptarshi Dey), Earth Sciences
- Reactive transport in porous media (Ramanujan), (**SERB**). Principal investigator: **Prof Uddipta Ghosh**, Mechanical Engineering
- Theoretical and experimental study of wave propagation in granular metamaterials, (**SERB**). Principal investigator: **Prof Jayaprakash K R**, Mechanical Engineering
- Development of a predictive geomorphic model as a tool for a sustainable river management, (**MoES**). Principal investigator: **Prof Vikrant Jain**, Earth Sciences
- Ramanujan fellowship - DNA nanodevices to program stem cells, (**SERB**). Principal investigator: **Prof Dhiraj Bhatia**, Biological Engineering
- Computational modelling of energetic materials subjected to thermal and mechanical insults using the material point method, (**DRDO**). Principal investigator: **Prof Gaurav Srivastava**, Civil Engineering
- INSPIRE faculty award, (**DST**). Principal investigator: **Prof Akshaa Vatwani**, Mathematics
- An experimental operational hydrologic modeling and forecasting system for river basin hydrology and extremes for India, Indian Institute of Tropical Meteorology. Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Technology-assisted pelvic motion characterization and gait rehabilitation for the elderly, (**DST**). Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- A device for bed load measurement, (**SERB**), (IMPRINT). Principal investigator: **Prof Pranab Mohapatra**, Civil Engineering
- Enzyme dynamics in cytosolic milieu: a new perspective on intracellular mechanics and transport, (**SERB**). Principal investigator: **Prof Krishna Kanti Dey**, Physics
- Scaling up a high-throughput gravitational-wave search pipeline using randomized numerical linear algebra, (**DST).** Principal investigator: **Prof Anand Sengupta**, Physics

- Ramanujan-type formulas for $\zeta^2(2m+1)$ and a Bessel series, (**SERB**). Principal investigator: **Prof Atul Abhay Dixit**, Mathematics
- Development of novel bicyclic secondary amine catalysts for the stereoselective vinylogous functionalization of unsaturated aldehydes, (**SERB**). Principal investigator: **Prof Chandrakumar Appayee**, Chemistry
- Design and synthesis of molecular probes for detection and imaging of protein aggregates, (**SERB**). Principal investigator: **Prof Sriram Kanvah**, Chemistry
- Brain functional connectivity in health and disease - under India-Trento Programme for Advanced Research, (**DST).** Principal investigator: **Prof Krishna Prasad Miyapuram**, Cognitive Science
- Questions in analytic number theory - classical and number field setting, (**SERB**). Principal investigator: **Prof Akshaa Vatwani**, Mathematics
- Establishing Gujarat State Climate Change Center, (**SERB**). Principal investigator: **Prof Vikrant Jain**, Earth Sciences
- Comparative study of soft error tolerant synchronous and asynchronous processors, (**SERB**). Principal investigator: **Prof Joycee Mekie**, Electrical Engineering
- Computational aspects of social choice: Theory and Practice, (**SERB**). Principal investigator: **Prof Neeldhara Misra**, Computer Science and Engineering
- Studying polymorphism in drug intermediates and their applications, **(DRDO)**. Principal investigator: **Prof Sivapriya Kirubakaran**, Chemistry; Co-PI: **Prof Vijay Thiruvenkatam**, Biological Engineering
- Hit to lead chemistry for novel treatments of leishmaniasis, **(DNDI)**. Principal investigator: **Prof Sivapriya Kirubakaran**, Chemistry
- Gandhipedia: A one-stop AI-enabled portal for browsing Gandhian literature, life-events and his social network, (NCSM). Principal investigator: **Prof Mayank Singh** (As Co-PI), Computer Science and Engineering
- Assessing the concentrations and sources of indoor VOC's and particulate matter (PM) in urban India and comparing to levels in China and the US, **(DUKE).** Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Low-cost and non-electric water filter for point-of-use (POU) water disinfection, **(WINF).** Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Water for change: Integrative and fit-for-purpose water sensitive design framework for fast-growing livable cities, **(DST)**. Principal investigator: **Prof Pranab Mohapatra**, Civil Engineering
- Brine splitting for energy-efficient textile dyeing effluent reuse, **(DST)**. Principal investigator: **Prof Jaichander Swaminathan**, Mechanical Engineering
- Design and testing of robust and flexible 3D printed electrodes with novel porous architecture guided by graph theory and molecular simulations for high energy density applications, **(DST)**. Principal investigator: **Prof Mithun Radhakrishna**, Chemical Engineering
- Micronization and encapsulation of explosive by expansion of CO2 - expanded solutions, **(DRDO)**. Principal investigator: **Prof Sameer Dalvi**, Chemical Engineering
- Developing boron-based nanosheets reinforced polymer matrix for designing lightweight blast-resistant armors, **(DRDO)**. Principal investigator: **Prof Kabeer Jasuja**, Chemical Engineering
- Development of low cost-efficient and scalable materials for CO2 capture using naturally available non-toxic stable materials and industrial solid wastes, **(DST)**. Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Design enablement of self-aligned double polysilicon emitter silicon bipolar transistor for RF applications, **(DST)**. Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Multicomponent seismic excitation: characterization of design spectra and developing combination rule, **(MoES).** Principal investigator: **Prof Dhiman Basu**, Civil Engineering
- Mixing in electricity driven flows: Effects of rheology, **(DST)**. Principal investigator: **Prof Uddipta Gosh**, Mechanical Engineering
- An engineering approach towards novel materials development for combinatorial therapy in biomedical application, **(SERB)**. Principal investigator: **Prof Superb K Misra**, Materials Engineering
- Mathematical modeling and simulation of flame propagation in metal-liquid oxidizer energetic materials, **(SERB)**. Principal investigator: **Prof Dilip Srinivas Sundaram**, Mechanical Engineering
- Estimating error probabilities due to multiple event transients in circuits designed for space applications based on electrical, temporal and logical masking, **(SERB)**. Principal investigator: **Prof Joycee Mekie**, Electrical Engineering
- Drives for electric vehicle applications, **(SERB)**. Principal investigator: **Prof Ragavan Kanagaraj** and **Prof Naran Pindoriya** (Co-PI), Electrical Engineering
- Graph neural networks and their applications, **(SERB)**. Principal investigator: **Prof Shanmuganathan Raman**, Electrical Engineering
- Network for scientific cooperation for food safety and applied nutrition, **(FSSAI)**. Principal investigator: **Prof Bhaskar Datta**, Biological Engineering
- Design enablement of self-aligned double polysilicon emitter silicon bipolar transistor for RF applications, **(DST)**. Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Materials for sustainable and energy efficient buildings, Ecole Normale Supérieure De Cachan, France, **(MHRD)**. Principal investigator: **Prof Atul Bhargav**, Mechanical Engineering
- Understanding the impact of air pollution on solar photovoltaics and developing surface engineered panel materials for improved performance of solar plants, Duke University, USA, **(MHRD).** Principal investigator: **Prof Chinmay Ghoroi,** Chemical Engineering
- Development and application of geomorphic tool for sustainable management of a Himalayan river system, India, The University of Auckland, New Zealand, **(MHRD)**. Principal investigator: **Prof Vikrant Jain**, Earth Sciences
- Analytical and computational study of nonlinear acoustic metamaterials, Technion - Israel Institute of Technology, Israel, **(MHRD).** Principal investigator: **Prof Jayaprakash K R**, Mechanical Engineering
- Problems in analytic and combinatorial number theory, Queen's University at Kingston, Canada, **(MHRD).** Principal investigator: **Prof Atul Dixit,** Mathematics
- Indigenous cultural heritage as a facilitator for the sustainable development (GSBTM) goals, Flinders University, Australia, **(FU)** Principal investigator: **Prof Alok Kumar Kanungo**, Humanities
- Study of locomotor adaptation using a single degree-of-freedom bilateral gait trainer, **(MHRD)**. Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering
- Assessing gait and balance during walking using body-worn sensors, **(MHRD)**. Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering
- NIR porphyrin-microbubbles as multi-colour molecular imaging probes, **(MHRD)**. Principal investigator: **Prof Sameer Dalvi**, Chemical Engineering
- Development of a novel vacuum-based process for producing porous metal structures, **(MHRD)**. Principal investigator: **Prof Abhay Raj Singh Gautam**, Materials Engineering
- VR-based exergaming platform in conjunction with neuroimaging guided non-invasive electrical stimulation, **(MHRD).** Principal investigator: **Prof Uttama Lahiri,** Electrical Engineering
- High-performance numerical simulations and experimental investigation of particle transport and turbulence in rotational flows: Applications to eccentric and conical taylor-couette configurations, **(MHRD)**. Principal investigator: **Prof Uddipta Ghosh**, Mechanical Engineering
- High entropy alloy nanoparticles CeO2 catalyst for dry reforming of CO2, **(STARS).** Principal investigator: **Prof Sudhanshu Sharma**, Chemistry
- Physics-guided data science approach for predictive understanding of hydrological processes, **(STARS)**. Principal investigator: **Prof Udit Bhatia**, Civil Engineering
- Understanding the critical orientation for seismic excitation and developing associated GMPEs for Indian subcontinent, **(STARS**). Principal investigator: **Prof Dhiman Basu**, Civil Engineering
- Flood risk assessment in tropical rivers in the anthropocene under climate change scenario using hydro geomorphic modeling, **(STARS).** Principal investigator: **Prof Vikrant Jain**, Earth Sciences

- Harnessing low-cost, high-efficiency stable photovoltaics based on layered hybrid perovskites, **(STARS)** Principal investigator: **Prof Rupak Banerjee**, Physics
- Electrochemical fabrication of sub-nm pores on mica and Si-nitride sheets for desalination applications, **(STARS).** Principal investigator: **Prof Gopinadhan Kalon**, Physics
- Antibacterial polymers to combat drug-resistant bacteria, **(STARS).** Principal investigator: **Prof Abhijit Mishra,** Materials Engineering
- Multi-omic analysis to identify biomarkers to demarcate oral cancer and healthy tissue for margin clearance, **(GSBTM).** Principal investigator: **Prof Anirban Dasgupta**, Computer Science and Engineering
- Randomized algorithms for scalable numerical multilinear algebra, **(Google).** Principal investigator: **Prof Anirban Dasgupta**, Computer Science and Engineering
- Emotional face recognition: understanding the underlying neural connectivity in high-functioning adolescents with autism, **(DST).** Principal investigator: **Prof Uttama Lahiri**, Electrical Engineering
- Fast, robust, energy-aware in-memory computing architectures, **(SRC).** Principal investigator: **Prof Joycee Mekie**, Electrical Engineering
- Developing new plasmonic antenna-reactor platform for efficient storage of solar energy as clean fuels, **(GUJCOST)**. Principal investigator: **Prof Saumyakanti Khatua**, Chemistry
- Gold nanoheater mediated targeting of powering in cancer for next generation chemo photothermal therapy, **(GUJCOST)**. Principal investigator: **Prof Sudipta Basu**, Chemistry
- Design, dynamic study and control of a cable driven flexible robotic manipulator, **(GUJCOST)**. Principal investigator: **Prof Madhu Vadali**, Mechanical Engineering
- High-sensitive detection of atmospheric pollutant gases to monitor the effects of industrial emissions on urban air quality, **(GUJCOST)**. Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering
- High-performance fiber reinforced concrete (HPFRC): Introducing a capacity-based mix design framework, **(GUJCOST)**. Principal investigator: **Prof Dhiman Basu,** Civil Engineering
- Impact of air pollution on COVID-related secondary exacerbations, **(Google).** Principal investigator: **Prof Nipun Batra**, Computer Science & Engineering
- Development of a reusable plasmonic platform for specific detection of Covid-'19 RNA at ultralow concentrations, **(BRNS).** Principal investigator: **Prof Saumyakanti Khatua**, Chemistry
- Self-aligned double polysilicon emitter bipolar technology for RF applications, **(DST).** Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Indigenous cultural heritage as a facilitator for the sustainable development goals, (Flinders University) Principal investigator: **Prof Alok Kanungo**, Humanities and Social Sciences
- Slippery properties of liquid impregnated micro-cavities, **(SERB)**. Principal investigator: **Prof Srihartha Rowthu**, Materials Engineering
- Sonodynamic therapy for localized bacterial infections, **(SERB)**. Principal investigator: **Prof Himanshu Shekhar**, Electrical Engineering
- Delta geometry, modular forms and p-adic hodge theory, **(SERB)**. Principal investigator: **Prof Arnab Saha**, Mathematics
- AI and sensor networks for air-quality monitoring, **(SERB**). Principal investigator: **Prof Nipun Batra**, Computer Science & Engineering
- Equivariant spectral triple for quotient spaces of quantized lie groups, **(SERB**). Principal investigator: **Prof Bipul Saurah**, Mathematics
- In search for a microstructure based universal strain hardening model in low stacking fault energy single phase face-centered-cubic alloys, **(SERB**). Principal investigator: **Prof Pradipta Ghosh**, Materials Engineering
- The effects of reverse migration on indigenous communities following India's Covid-19 induced lockdown, **(SSRC).** Principal investigator: **Prof Nishaant Choksi**, Humanities and Social Sciences
- Probing gravity using quantum information theoretic tools, **(SERB**). Principal investigator: **Prof Arpan Bhattacharyya,** Physics
- Development of high-frequency electronics laboratory, **(DST).** Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- Multi-scale modelling of viscoelastic damping in defect-engineered high entropy alloys, **(SERB**). Principal investigator: **Prof Raghavan Ranganathan**, Materials Engineering
- Biotherabubble bioactive ultrasound **(DST).** Principal investigator: **Prof Krishna Kanti Dey**, Physics
- Understanding the role of chemical nature of the adsorbent on the co-solute assisted adsorption or desorption of solute in a liquid phase by using thermodynamic models and Monte Carlo simulations to aid the rational design of "smart" adsorbents", **(SERB**). Principal investigator: **Prof Kaustubh Rane**, Chemical Engineering
- Small molecule-mediated targeting of powerhouse in cancer for next-generation chemo-photo-therapy, **(SERB**). Principal investigator: **Prof Sudipta Basu**, Chemistry
- High strength hydrogels - synthesis, rheology and applications, **(SERB**). Principal investigator: **Prof Prachi Thareja**, Chemical Engineering
- Investigations on heavy-quark dynamics in hot magnetised and viscous QCD medium, **(SERB**). Principal investigator: **Prof Vinod Chandra**, Physics
- AMR flows: Antimicrobials and resistance from manufacturing flows to people - Joined up experiments, mathematical modeling and risk analysis, **(DBT)**. Principal investigator: **Prof Pranab Kumar Mohapatra**, Civil Engineering
- Edge non-intrusive load monitoring, **(Cisco)**. Principal investigator: **Prof Nipun Batra**, Computer Science and Engineering
- Optimizing plasmonic catalyst design for driving specific photocatalytic redox reactions, **(SERB**). Principal investigator: **Prof Saumyakanti Khatua**, Chemistry
- Higgs physics beyond the standard model at the LHC, **(SERB**). Principal investigator: **Prof Baradhwaj Coleppa**, Physics
- Quantifying the violation of TTT identities to infer the dynamics of the molecular systems, **(SERB**). Principal investigator: **Prof Kaustubh Rane**, Chemical Engineering
- Theoretical and observational constraints on gravitational physics, **(SERB**). Principal investigator: **Prof Sudipta Sarkar**, Physics
- Number-theoretic analysis of certain transformations and an extension of the Ramanujan Master Theorem, **(SERB**). Principal investigator: **Prof Atul Dixit**, Mathematics
- Viruses in evolution and disease, **(Cisco).** Principal investigator: **Prof Sharmistha Majumdar**, Biological Engineering
- Multi-effect membrane distillation for modular desalination and brine concentration, **(SERB**). Principal investigator: **Prof Jaichander Swaminathan**, Mechanical Engineering
- Overdetermined problems for extremal pucci equations and related symmetry and Liouville type results, **(SERB**). Principal investigator: **Prof Jagmohan Tyagi,** Mathematics
- Developing directional combination rule for 6-component seismic excitations, **(SERB**). Principal investigator: **Prof Dhiman Basu**, Civil Engineering
- Studies on optical, electrical and microstructural properties of MoS2, SnS2 and MoS2-SnS2 hybrid nanostructured thin films for solar cell applications, **(SERB**). Principal investigator: **Prof Emila Panda,** Materials Engineering
- Geosynthetic reinforced soil walls and abutments for high-speed railway systems, **(HSRIC)** Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Harnessing solar energy to achieve near zero carbon emission for brine treatment, **(DST).** Principal investigator: **Prof Jaichander Swaminathan**, Mechanical Engineering
- A novel collaborative human–quadcopter interface for outdoor aerial transportation applications, **(SERB**). Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering
- Developing an efficient algorithm for the transition matrix Monte Carlo simulations of molecular systems in the generalized ensembles, **(DST)**. Principal investigator: **Prof Kaustubh Rane**, Chemical Engineering
- Synthesis of magnetic catalyst-coated microbubbles for removal of trace pollutants, **(DST).** Principal investigator: **Prof**

Sameer Dalvi, Chemical Engineering

- Utilizing molecular dynamics simulations to study graphene nanopores as functional materials for DNA sequencing, **(DST).** Principal investigator: **Prof Sairam S Mallajosyula**, Chemistry
- Cable-driven hybrid actuation for load carriage control, **(DRDO).** Principal investigator: **Prof Vineet Vashista**, Mechanical Engineering
- Screening of natural flavonoids as the potential autophagy modulators in the regulation of diabetes-associated AD, **(SERB**). Principal investigator: **Prof Sharad Gupta**, Biological Engineering
- From single molecules to live cells: In situ, multiplexed, high-throughput imaging with DNA-nanotechnology, **(GUJCOST).** Principal investigator: **Prof Dhiraj Bhatia,** Biological Engineering
- Development of a sliding bearing for earthquake protection of structures, **(DST).** Principal investigator: **Prof Manish Kumar**, Civil Engineering
- Bimodal Intra-operative probe for brain tumor delineation, **(DST).** Principal investigator: **Prof Karla Patricia Mercado-Shekhar**, Biological Engineering
- Development of multi-stage efficient OPC framework for nano-scale lithography simulation, **(DST).** Principal investigator: **Prof Nihar Ranjan Mohapatra**, Electrical Engineering
- UAV-based laser spectroscopic monitoring of greenhouse gas emissions in urban and rural India, **(RAEng).** Principal investigator: **Prof Arup Lal Chakraborty**, Electrical Engineering
- Predator prey interactions: Chemical defense in hemiptera: pentatomidae bug (the gondhi bug) and its glandular secretions, **(DBT)**. Principal investigator: **Prof Dhiraj Bhatia**, Biological Engineering
- SmartWear for monitoring and treatment of gait disorders in Parkinsonism, **(DST)**. Principal investigator: **Prof Uttma Lahiri,** Electrical Engineering
- Multi-phasic models of solid-electrolyte interphases in lithium batteries: towards exascale simulations, **(DST)**. Principal investigator: **Prof Raghavan Ranganathan**, Materials Engineering
- Development of industry friendly technology for fabricating highly reactive, non-toxic, and transparent antiviral surface coating, **(GUJCOST)**. Principal investigator: **Prof Emila Panda**, Materials Engineering
- Collective interaction effects in self-organization, **(DST)**. Principal investigator: **Prof Prasanna Venkatesh Balasubramanian**, Physics

CONSULTANCY PROJECTS

PROJECTS SANCTIONED DURING 2021-22

- implications of COVID-19 on Gujarat state from climate change perspective, **(Gujarat Energy Development Agency).** Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- DNA hydrogels for stimulus responsive drug delivery applications, (**Blasto Research P).** Principal investigator: **Prof Dhiraj Bhatia**, Biological Engineering
- Linear electric machine for elevator door, **(Kone Elevators).** Principal investigator: **Prof Ragavan K**, Electrical Engineering
- Corrosion allowance analysis for carbon steel as MOC for cycle gas purge line, **(LTCL)**. Principal investigator: **Prof Amit Arora**, Materials Engineering
- Generating useful products through human waste processing, **(RMAT)**. Principal investigator: **Prof Bhaskar Datta**, Biological Engineering
- Training of engineers for CU/CD triaxial testing, **(IGS).** Principal investigator: **Prof Ajanta Sachan**, Civil Engineering
- Area drainage study, road network design and logistic support for 5 GW wind-solar hybrid project at Rann of Kutch, Gujarat, **(NTPC).** Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Optimization crystallization trials for APIs and 3D-structure identification, **(PEL**). Principal investigator: **Prof Vijay Thiruvenkatam**, Biological Engineering
- Optimization and purification of protein (s), **(SMPL).** Principal investigator: **Prof Vijay Thiruvenkatam,** Biological Engineering
- Consultancy for healthcare devices and solutions, **(RIL).** Principal investigator: **Prof Dhiraj Bhatia**, Biological Engineering
- Technical audit of select structural members in the priority reach of Ahmedabad metro rail project, phase-1 from Vastral gam to Apparel park. Principal investigator: **Prof Manish Kumar**, Civil Engineering
- Biomass pyrolysis/gasification to generate methane rich gas, **(ATMOS).** Principal investigator: **Prof Sudhanshu Sharma**, Chemistry
- Checking verticality and twist of 183 m high guy mast at All India Radio, Rajkot, **(SAG).** Principal investigator: **Prof Manish Kumar**, Civil Engineering
- Pilot study for strengthening of bridge approaches using geo-cells, **(RVNL).** Principal investigator: **Prof Amit Prashant,** Civil Engineering
- Expert services for setting up the question paper and assessment thereof for the selection of officers at Gujarat Power Research and Development (GPRD) Cell, **(GUVNL).** Principal investigator: **Prof Naran Pindoriya**, Electrical Engineering
- Flood and climate change studies for Surat Metro Rail Project, **(GMRC).** Principal investigator: **Prof Pranab Kumar Mohapatra**, Civil Engineering
- Assessment of suitable foundation system and related confirmatory geotechnical investigation for six lane elevated corridor at Rajkot, Gujarat, **(NHAIR).** Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Synthesis of peptides, **(KGP)**. Principal investigator: **Prof Sharad Gupta**, Biological Engineering
- Ultrasonic and optical milk quality analyzer, **(EIPL).** Principal investigator: **Prof Arup Lal Chakraborty,** Electrical Engineering
- Investigation of concrete surface deterioration and salinity impacts on concrete surfaces in Dholera, **(DICDL).** Principal investigator: **Prof Udit Bhatia**, Civil Engineering
- Investigating water ingressing and resulting interactions in underground infrastructures in Dholera, **(DICDL).** Principal investigator: **Prof Udit Bhatia**, Civil Engineering
- Characterizing creep of geostrap samples, **(DSS).** Principal investigator: **Prof Amit Prashant,** Civil Engineering
- Plant based meat, **(BLASTO).** Principal investigator: **Prof Bhaskar Datta**, Chemistry
- Assessing suitability of a motor for electric two wheeler, **(IMPL).** Principal investigator: **Prof Ragavan K**, Electrical Engineering
- Expertise in preparing the chapters of SAPCC for Sikkim, **(DST)**. Principal investigator: **Prof Udit Bhatia**, Civil Engineering
- Confirmatory geotechnical investigation for Bhadbhut Barrage project, **(KALPSR).** Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Special study to determine the impact of different drivers for ground water depletion in OE/Critical talukas of Banaskantha district, **(GWRDC).** Principal investigator: **Prof Vikrant Jain**, Earth Science
- Remedial measures for floor settlement at tempered furnace area, **(AIGL).** Principal investigator: **Prof Amit Prashant**, Civil Engineering
- Enhancing fire safety in India through development of relevant code commentaries and simplified guidelines, **(TWB).** Principal investigator: **Prof Gaurav Srivastava**, Civil Engineering
- Technical advice of foundations of hospital building, **(HITES).** Principal investigator: **Prof Shailesh R Gandhi**, Civil Engineering
- Climate change impacts on hydropower in India, **(UNDP).** Principal investigator: **Prof Vimal Mishra**, Civil Engineering
- Remedial measure at critical patch on GRBC, **(VIDC).** Principal investigator: **Prof Amit Prashant,** Civil Engineering
- Advise during trouble shooting situation during foundation execution for High Speed Rail, **(L&T).** Principal investigator: **Prof Shailesh R Gandhi**, Civil Engineering
- Designing a VRU, **(IEPL).** Principal investigator: **Prof Chinmay Ghoroi**, Chemical Engineering
- Institutionalisation of capacities on climate change studies and actions, **(GDC).** Principal

investigator: **Prof Vimal Mishra**, Civil Engineering

- Recovery of precious metals from primary slag, **(HIL).** Principal investigator: **Prof Superb Kumar Misra**, Materials Engineering
- Geotechnical design methodology for different clusters of Bhadbhut Barrage, **(KALPSR).** Principal investigator: **Prof Amit Prashant,** Civil Engineering
- Surfaces for water collection from humid air, **(SYML).** Principal investigator: **Prof Soumyadip Sett**, Mechanical Engineering
- Enhanced air-water interaction through surface coatings of honeycomb cooling pads, **(SYML).** Principal investigator: **Prof Soumyadip Sett**, Mechanical Engineering
- Consultancy advise on request, **(L&T).** Principal investigator: **Prof Shailesh R Gandhi**, Civil Engineering
- Simulation of crushing/squeezing of cops/ bobbins, **(SIDDHI).** Principal investigator: **Prof Amit Arora**, Materials Engineering
- Sedimentologic and sequence stratigraphic analysis and interpretation for carbonates and deepwater systems, **(ACT).** Principal investigator: **Prof Pankaj K**

INTELLECTUAL PROPERTY

The patents granted during the year 2021-22 are as follows:

- Low-cost hand-driven bamboo-cored incense-stick making machine: Inventors are **Keshav Giriyapnavar** (a BTech alumnus of 2012). The patent number is 375325
- Polymer-reinforced metal matrix composites and a process for fabricating the same: Inventors are **Prof Amit Arora, Prof Chandra Sekhar Tiwary, Arpan Rout, Anurag Krishnakedar Gumaste,** and **Mahesh V P.** The patent number is 389338
- Method for the asymmetric synthesis of (S)-paraconic acid: Inventors are **Prof Chandrakumar Appayee and Dr Abhijeet Madhukar Sarkale.** The patent number is 391941

The patents filed during the year 2021-22 are as follows:

- Anode material for ultra high-rate Li-ion batteries: Inventors are **Varma Akash Kiran**, **Matsumi Noriyoshi**, **Badam Rajashekar**, **James Asha Liza**, and **Prof Jasuja Kabeer**
- An indole-based kinase inhibitor and a process for its preparation: Inventors are **Prof Sivapriya Kirubakaran**, **Prof Vijay Thiruvenkatam**, and **Delna Johnson**
- Benzimidazole-based compounds and a process of preparation thereof: Inventors are **Prof Sivapriya Kirubakaran**, **Prof Vijay Thiruvenkatam**, and **Haritha Dilip**
- Fluorophores and a process for their synthesis: Inventors are **Prof Sriram Kanvah Gundimeda**, **Deepmala Singh**, and **Dr Virupakshi Soppina**
- A computer-implemented end-to-end work optimization system to streamline meetings and a method thereof: Inventors are **Pranshu Kumar Gond**, **Dhruv Menon**, **Prankush Agarwal**, **Rwik Rana**, and **Prof Udit Bhatia**

RESEARCH ACTIVITIES: EVENTS AND OUTREACH

Research and collaborative events like conferences, workshops, symposia and seminars form a vital part of academic activities that help stimulate discussions on a wide range of important topics. Many of these activities invite participation from other organisations and enhance the Institute's visibility at various levels. The following activities were organised during 2021-22:

CONFERENCES

HOMI'S YOUNG SCHOLARS' CONFERENCE

As part of the **History of Mathematics in India (HoMI)** project, the Institute conducted a two-day online Young Scholars' Conference on History of Mathematics, with a special focus on India, on Apr 17-18, 2021. The virtual event provided a platform for young researchers from around the world to present various advances in the history of mathematics or related fields. Renowned subject experts shared their insights and thoughts during the conference. **Profs Michel Danino, Indranath Sengupta, Sudipta Sarkar**, and **Atul Dixit** were coordinators of the event.

4TH NATIONAL CONFERENCE IN CHEMISTRY

IITGN organised the **4th National Conference in Chemistry (N-ConC 2021)** during Aug 06-07, 2021. The two-day virtual conference hosted 14 invited lectures from distinguished faculty of several prestigious institutions in India and abroad, 17 flash presentations from PhD students, and three special talks from IITGN alumni pursuing their doctoral degrees abroad. More than 100 delegates from different parts of the globe participated in the event. **Prof Sivapriya Kirubakaran** and **Prof Sriram Kanvah** were the convenors of the conference.

CONFERENCE ON MATHEMATICS AND PHYSICS OF FLUIDS

The Physics and Mathematics disciplines at IITGN jointly organised a conference on **Mathematics and Physics of Fluids** from Nov 01-03, 2021. The conference featured invited talks, contributed talks and poster sessions, and was attended by nearly 100 researchers and students from India and abroad. **Prof Sutapa Roy** and **Prof Satyajit Pramanik** coordinated the conference.

INTERNATIONAL CONFERENCE ON COMPLEX FLUIDS

IITGN and the Indian Society of Rheology (ISR) together organised an **International Conference on Complex Fluids and Soft Matter** during Dec 13-15, 2021. A total of 350 people, including faculties, scientists, students, and industry partners, participated in the virtual conference, which featured online lectures, simulated poster sessions, and exhibitors' floor. **Prof Prachi Thareja** and **Prof Dhiraj Bhatia** were the convenor and the co-convenor of the conference respectively.

CONFERENCE ON MOBILITY AND MULTILINGUALISM

IITGN was one of the co-organisers for an online international conference on **Mobility and Multilingualism in South and Southeast Asia: Impacts of Global Ecological Change on Local Society**, which was organised at Cotton University, Assam, from Dec 27-29, 2021. The conference was attended by over 100 participants. **Prof Nishaant Choksi** (IITGN), **Prof Manjil Hazarika** (Cotton University), **Mr Phanindra Talukdar** (PCCR), **Prof J A H Khatri** (Navrachana University) were the conveners of the conference.

NMRS 2022

The discipline of Chemistry hosted the 27th meeting of the **National Magnetic Resonance Society** (NMRS 2022) along with an International Conference on Nuclear Magnetic Resonance (NMR): Chemistry, Biology and Drug Discovery from Mar 6 - 9, 2022. The annual symposium had nine plenary talks and 40 invited talks, 6 award lectures, in addition to a number of short talks and students' oral and poster presentations. **Prof Sriram Kanvah Gundimeda** and **Prof Sivapriya Kirubakaran** were conveners of the conference.

CONFERENCE ON GENERAL RELATIVITY

The discipline of Physics at IITGN, jointly with IIIT Allahabad and the University of Lethbridge, Canada, organised a virtual conference on **Testing Aspects of General Relativity** from Mar 11-14, 2022. The conference brought together some of the leading global experts to discuss recent developments and challenges that lie ahead in this context. The programme was attended by more than 100 participants. **Profs Arpan Bhattacharyya** (IITGN), **Srijit Bhattacharjee** (IIITA), and **Saurya Das** (ULeth) co-organised the conference.

WORKSHOPS

- Managing personal finance 101 by **Mr Gaurang Sanghvi**, Head of e-Business, DSP Mutual Fund, Apr 10, 2021
- Think. design. print - metal 3D printing workshop by **Mr Aditya Savardekar**, Senior Application Engineer, 3D Printing, Jun 17-18, 2021
- Waacking workshop by **Ms Riddhi Upadhyay**, professional dancer based in Mumbai, Jun 27, 2021
- Scientific illustration workshop by **Rafeeque Mavoor**, Science Illustrator, IISER Pune, Jul 09 -16, 2021
- Deform-3D software demonstration by **Bikash Musib**, Manager, Business Development, Advanced Forming, Jul 23, 2021
- 3D scanning workshop by **Avneet Kumar**, Application Engineer- 3D Scanning, Pelf Infotech Pvt Ltd, Pune, Jul 26-27, 2021
- Improving academic writing & research output with grammarly by **Ratish Iyer**, Expert Trainer, Bridge People Technology Solutions Pvt Ltd, Aug 31, 2021
- J-Gate as a search and discovery tool to access journal literature by **Ravi Shankar**, Trainer, Informatics Publishing Ltd, Sep 03, 2021
- What's your story?: a workshop series on life writing by **Nivid Desai**, Teaching Associate, Writing Studio, IITGN, Sep 04, 11 & 18, 2021
- Web of science: taking your research to a next level on Sep 06, 2021, and endNote-reference management made easy & publons on Sep 07, 2021, by **Dr Subhasree Nag**, Solution Consultant, Clarivate Analytics
- Power of your research with scopus & mendeley by **Dr Shubhra Dutta,** Customer Consultant (Core Content) - South Asia A&G Team, ELSEVIER, Sep 15, 2021
- Workshop on advanced excel by **Raj K Singh**, Microsoft Certified Trainer, Sep 18-19, 2021
- Micro milling workshop by **Tanvir Khorajiya**, Maker Bhavan, IITGN, Sep 20-21, 2021
- Workshop on natural dye by **Nirav Patel,** Designer, Design and Innovation Centre, IITGN, Oct 02, 2021
- Clay studio workshop for beginners and prakriti: terracotta mural workshop by artists **Nehal Rachh** and **Nilaoyy Nandi**, Oct 05-07, 2021, respectively
- Zentangle workshop by **Prof Aditya Mehta**, Assistant Professor, GLS Institute of Design, Ahmedabad, Oct 09, 2021
- SciFinder-n- database: your key to unlocking R&D productivity by **Mr Visit Kunte**, Customer Success Specialist, ACS International, Ltd – Representing CAS, Oct 13, 2021
- IEEE xplore (Digital Library) publications: How to shape your future in the fourth industrial revolution by **Mr Dhanukumar Pattanashetti**, Senior IEEE Client Services Manager, IEEE India, Oct 14, 2021
- Preparing effective graduate school applications by **Prof Himanshu Shekhar**, Assistant Professor, Electrical Engineering, IITGN, Oct 16-17, 2021
- Craft of interactive handmade pamphlets by **Ms Aditi Babel**, Founder and Head Designer, Aditi Babel Design Studio, Oct 30, 2021
- PCB prototyping by **Dr Sanket B Kasturiwala**, Research Project Scientist, Technoventor Innovations Pvt Ltd, Nov 01-02, 2021
- Scientific writing by **Dr Ajay Kumar Jha**, Development Editor, ACS Omega, ACS Publications, Nov 29, 2021
- Workshop on embedded AI by **Mr Rohit Prajapati**, Technical Manager, DigiToad Technologies, Dec 02, 2021
- Design thinking workshop by **IBM India Software Labs**, in collaboration with KPCSD and IIEC, Dec 08, 2021
- Computation of multiphase flows by **Prof Surya Pratap Vanka**, University of Illinois Urbana-Champaign and **Prof Vinod Narayanan**, IITGN, every saturday from Jan 29 - Mar 27, 2022
- Your key to unlocking R&D productivity using 'CAS SciFinder-n' by **Mr Vinit Kunte**, Expert Trainer, ACS India, Feb 02, 2022
- Improving academic writing & research using grammarly by **Mr Ratish Iyer**, Expert Trainer, Bridge People Technology Solutions Pvt Ltd, Feb 07, 2022
- Inspiring research and innovation using IEEE publications by **Mr Dhanukumar Pattanashetti**, Senior IEEE Client Services Manager, IEEE India, Feb 09, 2022
- Getting started with & using press reader: an E-newspaper and magazine collection by **Mr Joshua Doctolero**, Account Manager, Library Team (Philippines), PressReader, Feb 15, 2022
- 'Web of science' & endnote: Taking your research to a next level by **Dr Subhasree Nag**, Solution consultant, Scientific Research Division, Clarivate Analytics, Feb 18, 2022
- Visualizing through illustrations by **Mr Niravkumar Patel**, Designer, DIC, IITGN, Feb 19, 2022
- Power of your research with Scopus & Mendeley by **Dr Shubhra Dutta**, Customer consultant (core content), South Asia A&G Team, Elsevier publisher, Mar 15, 2022
- Revisiting the "Captive Mind": Intellectual imperialism in the contemporary Asian Academy (second edition) by **Cypri Jehan Paju Dale** and **Kisho Tsuchiya**, Kyoto University; **Prashant Ingole**, IITGN; and **Syed Farid Alatas**, National University Singapore, Mar 19, 2022
- The art of making things by **Dr Guruprasad Ra**o, Director & Mentor, Imaginarium India Pvt Ltd, Mar 21, 2022
- Managing your references using Zotero - a reference management software by the **IITGN Library team** & **Debasmita Ghosh** (Research Student), Mar 24, 2022
- Workshop on photography composition by **16 Pixels club**, Mar 27, 2022
- Creating and managing your scholarly identity by **Ms Panna Chaudhary**, Assistant Librarian, IITGN, Mar 30, 2022

COURSE ON TOPOLOGY AND DIFFERENTIAL GEOMETRY

The discipline of Physics organised an online course on Topology and Differential Geometry for Physicists' by **Prof Sunil Mukhi,** Professor, IISER Pune. Starting from July 12, 2021, the 10-lecture course was conducted every Monday, Wednesday and Friday for 250 UG, MSc and PhD scholars. The course was coordinated by **Prof Sudipta Sarkar.**

WORKSHOP ON ULTRASOUND CONTRAST AGENTS

IITGN, with support from GSBTM, organised a two-day workshop on 'Ultrasound Contrast Agents: Application of Gas-filled Microbubbles in Biomedical Engineering' during Jul 22-23, 2021. In addition to the lectures, about 80 participants were also exposed to virtual lab demo sessions focusing on microbubble synthesis and characterisation. Instructors from different parts of the world taught during the workshop. **Profs Sameer Dalvi, Karla Mercado-Shekhar**, and **Himanshu Shekhar** were the organisers of the event.

MEDICAL HUMANITIES COLLOQUY

The discipline of Humanities and Social Sciences initiated the Medical Humanities Colloquy. The first talk in the series was delivered by **Dr Vinia Dakari**, Adjunct Lecturer, National and Kapodistrian University of Athens, Greece, on Aug 13, 2021, and the second talk was delivered by **Dr Arthur Rose**, Postdoctoral Research Fellow, University of Exeter, UK, on Sep 14, 2021. **Prof Arka Chattopadhyay** and HSS doctoral candidate **Swati Joshi** were the coordinators of the colloquy.

WORKSHOP ON HUMAN-ANIMAL RELATIONS

IITGN organised an online workshop on 'Human-animal Relations at the Margin: A Quest for Social Justice' on Aug 17, 18 & 20, 2021. **Prof Suryakant Waghmore,** Professor of Sociology at IIT Bombay, delivered the keynote talk. The three-day workshop, sponsored by ICSSR, hosted scholars from several prestigious institutions. The workshop was coordinated by **Prof Ambika Aiyadurai** and **Prashant Ingole** (PhD Scholar)

INTERNATIONAL WORKSHOP ON QUANTUM INFORMATION

IITGN, along with IIT Hyderabad and IISc Bangalore, organised a virtual 'International Workshop on Quantum Information in QFT and AdS/CFTII' during Aug 18-20, 2021. The workshop brought together some of the leading global experts. It featured 14 talks by international speakers and 4 talks by students/postdocs from India. More than 100 participants attended the workshop from all over the world. The event was jointly organised by **Profs Arpan Bhattacharyya** (IITGN), **Aninda Sinha** (IISc Bangalore), and **Shubho Roy** (IITH).

COURSE ON HISTORY OF MATHEMATICS

As part of the 'History of Indian Mathematics' (HoMi) project, the Institute organised a 10-lecture course on the History of Mathematics by **Prof Amitabh Virmani** of Chennai Mathematical Institute. The course was conducted every Monday and Thursday, between Aug 09 and Sep 13, 2021. It presented a brief history of mathematical ideas related to Geometry from various civilisations. The course was coordinated by **Prof Sudipta Sarkar.**

WORKSHOP ON "CAPTIVE MIND"

The discipline of Humanities and Social Sciences, in collaboration with the Centre for Southeast Asian Studies, Kyoto University, Japan, organised an online workshop on 'Revisiting the "Captive Mind": Intellectual Imperialism in the Contemporary Asian Academy' on Sep 25, 2021. A total of 40 scholars, students and researchers from across the globe attended the event. The programme was coordinated by **Prof Nishaant Choksi** (IITGN) and **Takamichi Serizawa** (Kyoto University).

WORKSHOP ON INSTRUMENTATION AND SIGNAL PROCESSING

IITGN conducted a seven-day virtual workshop titled 'Instrumentation and signal processing in biomedical imaging and rehabilitation' from Oct 22-28, 2021. In addition to speakers from IITGN, the workshop featured presentations from 12 eminent speakers from the Indian Institute of Science, IIT Madras, IIT Delhi, IIT Kharagpur, IIT Hyderabad, and IIT Palakkad. **Profs Himanshu Shekhar, Uttama Lahiri,** and **Karla Mercado Shekha**r were the coordinators of the workshop.

INTERNATIONAL WORKSHOP ON QUANTUM INFORMATION

IITGN, along with the University of Lethbridge, Canada; University of Cape Town, South Africa; and Pacific Lutheran University, USA, organised a three-day international workshop on 'Applications of Quantum Information in QFT and Cosmology' from Nov 22-24, 2021. The online workshop was attended by about 100 people from across the world. **Profs Arpan Bhattacharyya** (IITGN), **Saurya Das** (University of Lethbridge), **Shajid Haque** (University of Cape Town), and **Bret Underwood** (Pacific Lutheran University) co-organised the event.

INDOML

IITGN and IIT Kharagpur jointly organised the second edition of the 'Indian Symposium on Machine Learning (IndoML)' during Dec 16-18, 2021, on the theme "AI for Data and Data for AI". It served as a forum to discuss state-of-the-art machine learning research through invited talks from leading experts from India and abroad. **Profs Anirban Dasgupta**, **Mayank Singh**, and **Udit Bhatia** from IITGN and **Profs Animesh Mukherjee** and **Niloy Ganguly** from IIT Kharagpur organised the event.

CAMP COGSCI

IITGN's **Curiosity Lab** and **Centre for Cognitive and Brain Sciences** hosted 'Camp CogSci' from Jan 7-9, 2022, to introduce Cognitive Science, Artificial Intelligence and Neuroscience to students of classes 8 to 12 as well as teachers, parents, and scholars of education, to generate excitement, curiosity, and have fun during learning. Top academics from India and abroad addressed the workshop coordinated by **Prof Jaison Manjaly**.

CONVERSATION WITH MR ANUP BAGCHI

IITGN hosted a conversation titled "The Life Race: Sprint, Marathon, or Both?" with **Mr Anup Bagchi**, Executive Director, ICICI Bank on Jan 21, 2022. During the online talk, Mr Bagchi shared his life journey and experiences from being a student at IIT Kanpur and IIM Bangalore to becoming an eminent leader at the ICICI Bank and engaged in an interactive talk with the audience to share his take on running the larger race called 'Life'.

SCIENCE AWARENESS WEEK

Ahead of the National Science Day on Feb 28, 2022 IITGN organised Science Awareness Week for school students of classes 11 and 12 (Science stream). More than 800 school students and teachers from the Ahmedabad/Gandhinagar region participated in the programme packed with several exciting and hands-on activities aimed at popularising STEM learning among school students. The event was coordinated by **Profs Emila Panda**, **Sriram Kanvah**, and **Superb Misra**

SYMPOSIUM ON APPLIED MECHANICS AND DYNAMICS

The discipline of Mechanical Engineering at IITGN, with support from SPARC, organised a two-day online symposium on Applied Mechanics and Dynamics during Mar 3-4, 2022. About 30 graduate and senior undergraduate students and faculty from academic and research institutions participated in the event that acted as a forum to interact with eminent speakers from different parts of the world. The symposium was coordinated by **Prof Jayaprakash K R**.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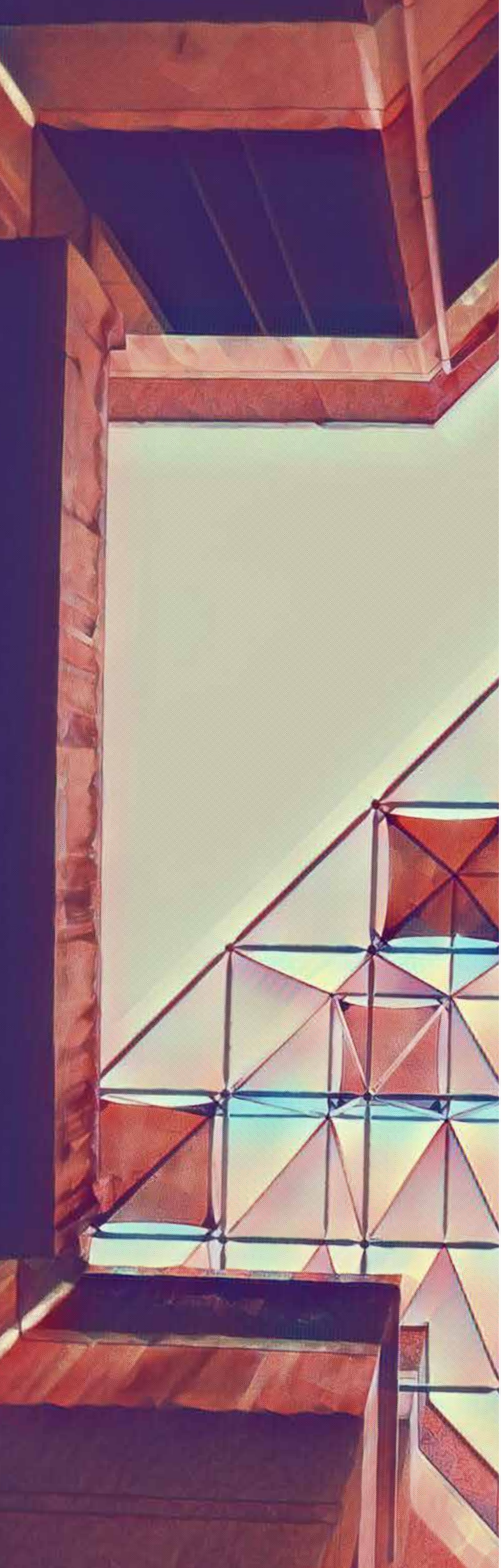


SYMPOSIA/SEMINARS/WEBINARS

SEMINAR SERIES ON INDIAN SCIENTISTS

IITGN hosted the third edition of 'Seminar Series on Indian Scientists' in online mode on Apr 17, 2021. The event had two online seminars on the lives and works of renowned Indian scientists - Acharya Prafulla Chandra Ray and Obaid Siddiqi. **Prof Amartya Kumar Dutta** from the Indian Statistical Institute, Kolkata, Acharya Ray delivered the first session on 'Acharya Prafulla Chandra Ray: Glimpses from his multifarious contributions'. The second session titled as 'Obaid Siddiqi' was delivered by **Prof Sharmistha Majumdar**. The seminar series is being curated by **Prof Sudipta Sarkar** and **Prof Michel Danino**.

14TH BIENNIAL NATIONAL SYMPOSIUM IN RADIATION AND PHOTOCHEMISTRY

The discipline of Chemistry, with support of the Indian Society of Radiation and Photochemical Sciences, hosted the 14th Biennial National Symposium in Radiation and Photochemistry on Jun 25 and 26, 2021. Besides 16 invited talks by distinguished faculty from across the world covering a wide spectrum of topics, the two-day symposium hosted 17 oral presentations and 55 flash talks from senior PhD and postdoctoral students. More than 100 delegates participated in the virtual meeting, and a total of 18 students were awarded citation certificates. **Prof Sriram Kanvah** from IITGN and **Dr Jyotirmayee Mohanty** from BARC were the conveners of the symposium.

SEMINAR SERIES ON INDIAN SCIENTISTS

The Institute hosted the fourth edition of the Seminar Series on Indian Scientists on Aug 21, 2021, with two online seminars on the life and works of Salim Moizuddin Abdul Ali and Amal Kumar Raychaudhuri. Tara Gandhi, a noted Ornithologist and Conservationist delivered the first seminar "Sálim Ali – Father of Indian Ornithology". The second seminar, "Raychaudhuri and His Equation", was delivered by **Prof Sudipta Sarkar**. Nearly 100 scholars, students and researchers from around the world participated in the seminar. The series is being curated by **Prof Sudipta Sarkar** and **Prof Michel Danino**.

WEBINAR ON CLIMATE ACTION

Dr Kiran C Patel Centre for Sustainable Development (KPCSD) at IITGN, in collaboration with PricewaterhouseCoopers (PwC) and with support from Deutsche Gesellschaft fur Internationale Zusammenarbeit (GIZ) GmbH, New Delhi, organised a webinar on 'Advancing Frontiers of Knowledge on Climate Action: Cross-sectional Approaches for Mitigation and Resilience' on Oct 20, 2021. The e-webinar was attended by nearly 100 scientific audience and practitioners from different parts of the globe. **Prof Vimal Mishra,** Co-coordinator of KPCSD, hosted the event.

INVITED LECTURES

- Many-body localization: when quantum systems refuse to thermalize by **Prof Rajdeep Sensarma**, Department of Theoretical Physics, TIFR, Mumbai, Apr 3, 2021
- Hydrodynamics of active particles in microchannels by **Dr Suresh Thampi**, Assistant Professor, Department of Chemical Engineering, IIT Madras, Apr 8, 2021
- Multifiltrations and toric vector bundles by **Prof Vivek Mohan Mallick**, IISER Pune, Apr 9, 2021
- Nanoscale optoelectronic properties of perovskite semiconductors by **Prof Angshuman Nag**, Associate Professor, Chemistry, IISER Pune, Apr 9, 2021
- Plebian philosopher Mahatma Phule by **Prof Umesh Bagade**, Professor of History, Dr Babasaheb Ambedkar Marathwada University, Aurangabad, Apr 12, 2021
- Invisibilisation of Ambedkarite discourse in Bengal: upper casteness of Bhadraloks by **Dr Subhajit Naskar**, Assistant Professor, Department of International Relations, Jadavpur University, Apr 13, 2021
- Civil and political liberty and the happiness of Indians: Calcutta, 1843 by **Rosinka Chaudhuri**, Director and Professor of Cultural Studies, Centre for Studies in Social Sciences, Calcutta, Apr 14, 2021
- Distribution of partition statistics in arithmetic progression by **Prof Ken Ono**, Thomas Jafferson Professor of Mathematics, University of Virginia, USA, Apr 16, 2021
- Looking at books as an art form & object by **Ms Aditi Babel**, Founder and Head Designer, Aditi Babel Design Studio, Apr 20, 2021
- Genetics in Aryan invasion debate by **Dr Gyaneshwer Chaubey**, Professor, Department of Zoology, Banaras Hindu University, Apr 21, 2021
- The Northeast Corridor: hominins dispersals in and out of the subcontinent by **Dr Yann-Pierre Montelle**, Speleoarchaeologist, Apr 23, 2021
- Abjection of youth/sexuality in contemporary Kerala by **Prof J Devika**, Feminist Researcher and Teacher, Centre for Development Studies, Kerala, Apr 23, 2021
- Equidistribution of ordinates of nontrivial zeros by **Dr Fatma Çiçek**, Assistant Research Professor, IIT Gandhinagar, Apr 23, 2021
- Harappan civilization in Gujarat: Current perspective by **Prof Ajithprasad**, Professor, Department of Archaeology and Ancient History, MS University, Baroda, Apr 24, 2021
- Rethinking Indian labour history: North Indian overseas labour migration in the colonial era by **Prof Crispin Bates**, Professor of Modern and Contemporary South Asian History, University of Edinburgh, UK, and Research Professor in South Asian and Indian Ocean Studies, Sunway University, Malaysia, Apr 28, 2021
- Fluid-fluid phase separation in a soft porous medium by **Prof Chris MacMinn**, Associate Professor, Department of Engineering Science, University of Oxford, Apr 30, 2021
- Dimensional crossover of quantum droplets by **Dr Chinmayee Mishra**, Early Career Fellow IIT Gandhinagar, May 07, 2021
- Understanding and gaining simple skills for career goals with balanced mind by **Dr Yogesh Fulpagare**, Postdoctoral Researcher, National Chiao Tung University Taiwan, May 8, 2021
- Scientific work of Isaac Newton by **Prof K P Yogendran**, Assistant Professor, IISER Mohali, May 13, 2021
- Ringdown properties of compact objects by **Dr Mostafizur Rahman**, Postdoctoral Fellow, IIT Gandhinagar, May 21, 2021
- Compete for 10 Years from now by **Mr Bhavin Pandya**, Managing Director, Atlas Copco s.r.o, Prague, Czech Republic, May 29, 2021
- Rock art in India: A stepping stone to language and scripts? by **Prof Ajay Pratap**, Professor, History, Banaras Hindu University, May 29, 2021
- Dynamic effects of harnessing cables on distributed parameter systems for space applications: Analytical modeling and experimental validation by **Dr Pranav Agrawal**, Sessional Lecturer University of Waterloo, Canada, Jun 17, 2021
- Seminar on medtech by scientists from CAMP Bangalore, Jun 18, 2021
- How international were the early International Congresses of Mathematicians? by **Prof Christopher Hollings**, Departmental Lecturer, Mathematics and its History at the Mathematical Institute, University of Oxford, and Clifford Norton Senior Research Fellow, History of Mathematics, The Queens College, Jun 18, 2021
- Publishing in nature: a climate science perspective by **Dr Michael White**, Senior Editor, Nature Journal, San Francisco, USA, Jun 18, 2021
- Recharge your energy for peak performance by **Ms Heidi Hanna**, speaker, published author, and globally recognized stress and resilience expert, Jun 19, 2021
- Towards quantum advantage and certification with noisy intermediate-scale quantum devices by **Mr Kishor Bharati**, Research Scholar, Centre for Quantum Technologies, National University of Singapore, Jun 24, 2021
- The Indus Civilization trade with the Umm-an-Nar communities of the Oman peninsula: Hints of a 'Golocal' Marketing Strategy? by **Prof Dennys Frenez,** Associate Professor, Department of History Cultures Civilization, University of Bologna, Italy, Jun 26, 2021
- Interactive Session with **Mr Rohan Ganapathy**, CEO & CTO, Bellatrix Aerospace Ltd, Jul 3, 2021
- String theory and the H0-Ly tension by **Dr Aritra Banerjee**, Postdoctoral Fellow, Okinawa Institute of Science and Technology (OIST), Japan, Jul 9, 2021
- Building resilience by **Prof Tatiana Kolovou**, Faculty, Kelley School of Business, Jul 10, 2021.
- Defining and achieving professional goals by **Prof Dorie Clark**, Faculty, Duke University's Fuqua School of Business, and Columbia Business School, Jul 10, 2021
- Micro/Nano-engineering of material surfaces for tissue engineering and regenerative medicine by **Prof Ketul Popat**, Professor, Biomaterials and Surface Micro/Nanoengineering Laboratory, Department of Mechanical Engineering, School of Biomedical Engineering, School of Advanced Materials Discovery, Colorado State University, Jul 13, 2021
- What can we learn by detecting massive BHs via gravitational waves (GWs)? by **Dr Ajit Mehta**, Postdoctoral Scholar, Max Planck Institute for Gravitational Physics (AEI), Germany, Jul 13, 2021
- Constraints on black-hole charges with the 2017 EHT observations of M87 by **Dr Prashant Kocherlakota**, Postdoctoral Scholar, Institute for Theoretical Physics (ITP), Germany, Jul 15, 2021
- Topological phases in electronic glasses and other stories by **Dr Adhip Agarwala**, Postdoctoral Fellow, Max-Planck Institute for Complex Systems, Dresden, Jul 21, 2021
- Leadership: Practical skills (Part 1) by **Mr Chris Croft**, Writer and Keynote Speaker, Jul 24, 2021
- Battle of bandits by **Dr Aadirupa Saha**, Postdoctoral Researcher, Microsoft Research New York City, Jul 28, 2021
- Simulations of dynamic stall in cross-flow turbines by **Mukul Dave**, PhD student, Mechanical Engineering, University of Wisconsin-Madison, Jul 30, 2021
- Bioinspired liquid-repellent surfaces by **Dr Srinadh Mattaparthi**, Postdoctoral Fellow, Materials Engineering, IIT Gandhinagar, Jul 30, 2021
- Maritime trades between the Harappan Civilization and Bahrain towards the end of the urban phase by **Dr Akinori Uesugi**, an independent scholar from Japan, Jul 31, 2021
- Leadership: practical skills (Part 2 of 2) by **Mr Chris Croft**, Writer and Keynote speaker, Jul 7, 2021
- Partial theta series with periodic coefficients and quantum modular forms by **Dr Ankush Goswami**, Postdoctoral fellow, Mathematics, IIT Gandhinagar, Aug 9, 2021
- Arithmetic circuits: Division elimination, and factorization by **Dr Amit Sinhababu**, Postdoctoral Fellow, Aalen University, Germany, Aug 11, 2021
- Urban foodscapes of Ahmedabad by **Jerene George**, PhD student, Humanities and Social Sciences, IIT Gandhinagar, Aug 11, 2021
- Electrospun polymeric matrices: Fundamental Insights and biomedical applications by **Dr Satyavrata Samavedi,** Assistant Professor, Chemical Engineering, IIT Hyderabad, Aug 12, 2021
- Importance of frugal healthcare biomedical devices for rural healthcare sector by **Dr Shirsendu Mitra**, Early Career Fellow, Physics, IITGN, Aug 13, 2021
- Illness and medicine in theater: aesthetic, disciplinary, and (Inter) personal crossings by **Dr Vinia Dakari**, Adjunct Lecturer, Department of English Language and Literature, National and Kapodistrian University of Athens, Aug 13, 2021
- Through a model, darkly: Insights into the dynamics of warm climates, past and future by **Prof Matthew Huber**, Head, Climate Dynamics Prediction Laboratory, and Associate Director, Purdue Climate Change Research Center, Purdue University, Aug 13, 2021
- G2 geometry and geometric flows by **Dr Shubham Dwivedi**, Postdoctoral Fellow, Institut für Mathematik, Humboldt Universität, Berlin, Aug 16, 2021
- Love beyond the holy cow Hindu cosmopolitanism and the search for a vegetarian dog by **Prof Suryakant Waghmore**, Professor of Sociology, Department of Humanities and Social Sciences, IIT Bombay, Aug 17, 2021
- Lower bounds for monotone arithmetic circuits via communication complexity by **Prof Partha Mukhopadhyay**, Associate Professor, Chennai Mathematical Institute,

Aug 18, 2021

- 2D nanomaterials and their applications by **Prof Sameer Sapra**, Professor, Chemistry, IIT Delhi, Aug 20, 2021
- On the refined koblitz conjecture by **Dr Sampa Dey**, Postdoctoral Fellow, Mathematics, IITGN, Aug 23, 2021
- Smartphone-based technological solutions for the global south by **Dr Mohit Jain**, Researcher, Technologies for Emerging Markets Group, Microsoft Research India, Aug 25, 2021
- Using high-school geometry to defeat adversarial attacks on learning algorithms by **Prof Purushottam Kar**, Consulting Researcher, Microsoft Research India, Bengaluru, and Assistant Professor, CSE, IIT Kanpur, Aug 25, 2021
- Using Siamese networks to search among 100 million products to find your favourite by **Prof Purushottam Kar**, Consulting Researcher, Microsoft Research India, Bengaluru, and Assistant Professor, CSE, IIT Kanpur, Aug 25, 2021
- Humanities in the age of artificial memory by **Prof G N Devy**, Former Professor of English, M S University, Vadodara, and Founder-Trustee, Bhasha Research and Publication Centre, Vadodara, Aug 25, 2021
- Heavy quark transport in a hot QCD medium by **Dr Manu Kurian**, Postdoctoral Fellow, Physics, IITGN, Aug 26, 2021
- Self-organisation-based fabrication of functional nano-patterned surfaces and durability studies by **Dr Nandini Bhandaru**, Assistant Professor, Department of Chemical Engineering, BITS Pilani, Hyderabad campus, Aug 26, 2021
- Journey of high-valent metal species by **Dr Munmun Ghosh**, Assistant Professor, Department of Chemistry, Ashoka University, Aug 26, 2021
- Hybrid materials and device architectures for future energy storage by **Dr Meenu Sharma**, Early Career Fellow, Mechanical Engineering, IITGN, Aug 27, 2021
- What IITs got to do with it: Product design by **Mr Eshaan Kaul**, ex-Product Designer, Flipkart, Aug 27, 2021
- Habits to win every day by **Dr Jason Richardson**, Executive coach, speaker and author, Aug 28, 2021
- Smart electric vehicles and its energy sources by **Kislay Pankaj**, Chief Technology Officer, Micelio-Electric Vehicles, Bangalore, Aug 28, 2021
- Design innovation for humanity and sustainability by **Mr Amit Inamdar**, Industrial Designer, Educator & Social Entrepreneur, Aug 28, 2021
- The Harappan city of Dholavira and its inscription in the World Heritage list by **Prof V N Prabhakar**, Associate Professor, HSS, IITGN, Aug 28, 2021
- Looking for logic in social practices by **Prof R Ramanujam**, retired professor, Institute of Mathematical Sciences, Chennai, Sep 01, 2021
- Multifunctional fluorescent dyes as molecular tools beyond imaging by **Dr Pratik Kumar**, HHMI Postdoctoral Fellow, Janelia Research Campus, USA, Sep 02, 2021
- Artificial active matter in complex surroundings by **Prof Rahul Mangal**, Assistant Professor, Chemical Engineering, IIT Kanpur, Sep 02, 2021
- Existence and uniqueness of mass conserving solutions to the coagulation and collision-induced breakage equation by **Dr Jitraj Saha**, Assistant Professor, Mathematics, NIT Tiruchirappalli, Sep 06, 2021
- Computational and causal approaches on social media and multimodal sensing data: examining wellbeing in situated contexts by **Dr Koustuv Saha**, PhD Scholar, Computer Science, Georgia Institute of Technology, USA, Sep 08, 2021
- Constraining ultralight scalar fields around the M87 black hole using the EHT shadow by **Dr Pedro Cunha**, Postdoctoral Researcher, Department of Mathematics, University of Aveiro, Portugal, Sep 09, 2021
- Overcoming sampling challenges for long Intrinsically Disordered Peptides (IDPs) using molecular simulations by **Prof Anand Srivastava**, Assistant Professor, Molecular Biophysics Unit, IISc Bangalore, Sep 09, 2021
- Cluster and cluster-assemblies: Transformation chemistry and opto-electrical properties by **Prof Sukhendu Mandal**, Associate Professor, Chemistry, IISER Thiruvananthapuram, Sep 10, 2021
- Development of efficient bi-metallic plasmonic photocatalysts by **Dr Abhijit Roy**, Early Career Fellow, Chemistry, IITGN, Sep 10, 2021
- Steven Weinberg and the creation of modern particle physics by **Prof Baradwaj Coleppa**, Assistant Professor, Physics, IITGN, Sep 11, 2021
- Fuchsian groups, parabolic bundles, parahoric torsors by **Prof Vikraman Balaji**, Professor, Mathematics, Chennai Mathematical Institute, Sep 13, 2021
- Covidiots! shame, stigma and bad words during Covid-19 by **Dr Arthur Rose**, Postdoctoral Research Fellow, Department of English and the Wellcome Centre for the Cultures and Environments of Health, University of Exeter, Sep 14, 2021
- Zeros in computational complexity by **Dr Anurag Pandey**, Postdoctoral Researcher, Max Planck Institute for Informatics and Saarland University, Germany, Sep 15, 2021
- Formulation and application of relativistic hydrodynamics with Spin by **Dr Avdhesh Kumar**, Postdoctoral Fellow, Physics, IITGN, Sep 16, 2021
- Two problems involving surface waves and instability by **Dr Ratul Dasgupta**, Associate Professor, Chemical Engineering, IIT Bombay, Sep 16, 2021
- Theory and methodologies to assess and enhance adaptive resilience in infrastructure systems by **Dr Prerna Singh**, Postdoctoral Researcher, School of Civil and Environmental Engineering, Georgia Institute of Technology, Sep 16, 2021
- Aluminium - from mine to metal by **Mr R N Chouhan**, Senior Principal Scientist, and **Mr Vishwanath Ammu**, Senior Scientist, Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC), Sep 17, 2021
- Network-on-Chip (NoC) performance analysis and optimisation for deep learning applications by **Sumit K Mandal**, PhD Scholar, Electrical and Computer Engineering, University of Wisconsin, Madison, Sep 17, 2021
- Apodictic discourse: a paradigm for rational scholarly communication? by **Prof Satyanad Kichenassamy**, University Professor, Reims Mathematics Laboratory, University of Reims Champagne-Ardenne, France, Sep 17, 2021
- Writers at work 1.0 by **Prof Chinmay Tumbe**, Assistant Professor in Economics, IIM Ahmedabad, Sep 17, 2021
- Goal setting - Objectives and Key Results (OKRs) by **Ms Jessie Withers**, Senior Manager, Corporate Strategy, Sep 18, 2021
- Demand side management for a sustainable energy future by **Mr Anand Kumar**, Professor of Practice, Electrical Engineering, IITGN, Sep 20, 2021
- PAC learning high dimensional distributions by **Dr Sutanu Gayen**, Postdoctoral Research Fellow, School of Computing, National University of Singapore, Sep 20, 2021
- IID and problem-specific samples of quantum states from Wishart Distributions by **Dr Shrobona Bagchi**, Postdoctoral Fellow, Tel Aviv University, Israel, Sep 23, 2021
- Covalent magnetic tweezers: a new window to see biology by **Dr Shubhasis Haldar**, Assistant Professor, Biological Sciences, Ashoka University, Sep 23, 2021
- Painless peer review: Navigating the process by **Prof Karla P Mercado-Shekhar**, Assistant Professor, Biological Engineering, IITGN, Sep 23, 2021
- Performing in everyday life by **Prof Stanley Gontarski**, Robert O Lawton Distinguished Professor of English, Florida State University, US, Sep 23, 2021
- Modelling isotopic evolution in earth's reservoirs: Implications for core formation, late accretion, and crust-mantle differentiation by **Prof Debajyoti Paul**, Professor and Head, Earth Sciences, IIT Kanpur, Sep 24, 2021
- Probing structure and dynamics at complex interfaces by **Prof Ravindra Pandey**, Assistant Professor, Chemistry, IIT Roorkee, Sep 24, 2021
- Work In progress: an architectural design perspective by **Mr Prashanth Nadiprasad**, Architect and Industrial Designer, Design and Innovation Centre, Sep 25, 2021
- Harappan town planning: Unravelling its use of ratios and linear measures by **Prof Michel Danino**, Visiting Professor, Humanities and Social Sciences and Coordinator, Archaeological Sciences Centre, IITGN, Sep 25, 2021
- Recent developments in Afghanistan: Implications for India's interests by **Mr Talmiz Ahmad**, former Indian Ambassador to Saudi Arabia, Oman and the UAE, Sep 29, 2021
- Spatio-temporal trends in public behaviour to COVID-19 protocols and vaccine hesitancy in India: Findings from a nation-wide web survey of Facebook users by **Dr Soumi Roy Chowdhury**, Consultant, NCAER, and **Santanu Pramanik**, Senior Fellow, NCAER and Deputy Director, National Data Innovation Centre, NCAER, New Delhi, Sep 29, 2021
- Cosmological tests of gravity by **Prof Kazuya Koyama**, Professor, Faculty of Technology, Institute of Cosmology and Gravitation, University of Portsmouth, Sep 30, 2021
- Opportunities towards sustainable food futures by **Prof Matti Kummu**, Associate Professor, Aalto University, Finland, Oct 6, 2021
- Conservation: The art of the possible by **Mr Vivek Menon**, Founder and Executive Director, Wildlife Trust of India, Oct 8, 2021
- A rendezvous with semigroups by **Dr Kriti**

Goel, Early Career Fellow, Mathematics, IIT Gandhinagar, Oct 8, 2021

- Communicating with confidence by **Mr Jeff Ansell**, Head, Jeff Ansell & Associates, Oct 9, 2021
- Inverse problems in elastic medium (An application of partial differential equations) by **Prof Sombuddha Bhattacharyya**, Assistant Professor, Department of Mathematics, IISER Bhopal, Oct 11, 2021
- Designing FPT algorithms for problems with conflict-free constraints by **Dr Roohani Sharma**, Lise-Meitner Post-doctoral Fellow, Max Planck Institute for Informatics, Germany, Oct 11, 2021.
- The strategic fallout of the US withdrawal from Afghanistan by **Ambassador Gautam Mukhopadhaya**, India's former Ambassador to Syria, Afghanistan and Myanmar, and currently Senior Visiting Fellow at the Centre for Policy Research, New Delhi, Oct 13, 2021
- Overcoming sampling challenges for long Intrinsically Disordered Peptides (IDPs) using molecular simulations by **Prof Anand Srivastava**, Assistant Professor, Molecular Biophysics Unit, IISc Bangalore, Oct 14, 2021
- Building cognitive maps of social networks by **Jae-Young Son** (Graduate Student) **and**
- **Apoorva Bhandari** (Post-doctoral Research Associate), Brown University, Rhode, Island, USA, Oct 14, 2021Script as a concept: Structure, technique and poetry of the Devanagari alphabet by **Dr Santosh Kshirsagar**, an illustrious calligrapher and a letterform expert, Oct 16, 2021
- Metagnosis by **Dr Danielle Spencer**, Academic Director of Columbia University and an author, Oct 19, 2021
- Groups with norms: A polymath adventure by **Prof Apoorva Khare**, Associate Professor, Mathematics, IISc Bangalore, Oct 20, 2021
- Mathematical models for chemical reactors - The importance of kinetics by **Prof Preeti Aghalayam**, Professor, Chemical Engineering, IIT Madras, Oct 21, 2021
- Nobel Prize in Chemistry 2021 – organocatalysis in building chiral molecules by **Prof Chandra Kumar Appayee**, Associate Professor, Chemistry, IIT Gandhinagar, Oct 21, 202
- Metal-free, binder-free 3D electrode architectures for lithium-based rechargeable batteries by **Prof Surendra Kumar Martha**, Associate Professor, Chemistry, IIT Hyderabad, Oct 22, 2021
- Repair and rehabilitation of heritage monuments in India by **Dr Swathy Manohar**, Early Career Fellow, Civil Engineering, IIT Gandhinagar, Oct 22, 2021
- Decoupling increase in precipitation extremes from the changes in urban flooding by **Prof Ashish Sharma**, Professor, Civil and Environmental Engineering, University of New South Wales, Sydney, Australia, Oct 25, 2021
- Semantic understanding of outdoor scenes with binaural sounds by **Dr Arun Balajee Vasudevan**, Postdoctoral Researcher, Computer Vision Lab, ETH Zurich, Oct 25, 2021
- Thinking probabilistically by **Prof Partha Sarathi Chakraborty**, Professor, Theoretical Statistics and Mathematics Unit, Indian Statistical Institute (ISI), Kolkata, Oct 25, 2021
- Advancing our scholarly publishing system that is open, sustainable and equitable by **Mr Colleen Campbell**, Partner Development in the Open Access 2020 Initiative, Max Planck Society, Max Planck Digital Library, Germany, Oct 25, 2021
- Neural mechanisms of feature and spatial attention control by **Dr Sreenivasan Meyyappan**, Postdoctoral Researcher, University of California, Davis, Oct 27, 2021
- The age of pandemic by **Prof Chinmay Tumbe**, Assistant Professor, Economics Area, IIM Ahmedabad, Oct 27, 2021.
- Lengths, free groups and computer proofs by **Prof Siddhartha Gadgil,** Full Professor, Mathematics, IISc Bangalore, Oct 27, 2021
- Bio-nanotechnology approaches towards design of next-generation sensors and materials by **Dr Karthik Pushpavanam**, Assistant Professor, Chemical Engineering, IIT Gandhinagar, Oct 28, 2021
- Helicopters: A complex dynamic system, development and challenging research problems by **Prof C Venkatesan**, Visiting Professor, Mechanical Engineering, IIT Jodhpur, Oct 28, 2021
- Advancing technology with IEEE open science solutions by **Mr Collin DMello**, International Area Manager, IEEE India Operations Center, Bengaluru, Oct 28, 2021
- Cognitive illusion and immediate experience: Perspectives from buddhist philosophy by **Prof Jay L Garfield**, Doris Silbert Professor in the Humanities and Professor of Philosophy, Smith College, Oct 28, 2021.
- Nanostructured thermoelectric energy conversion by **Prof Kanishka Biswas**, Associate Professor, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, Oct 29, 2021
- Hawking radiation on an analog white-black hole pair and its stimulated counterpart by **Prof Ivan Agullo**, Assistant Professor, Physics, Louisiana State University, USA, Oct 29, 2021.
- How to present your work for maximum impact by **Harsh Gupta** (BTech/ME/2015), Product Head, Wysa, Bangalore, Oct 30, 2021
- A peek into the ancient polity and economy through coins by **Prof Abhijit Dandekar**, Associate Professor, Epigraphy, Palaeography and Numismatics, Deccan College Post Graduate and Research Institute, Pune, Oct 30, 2021
- Gertrude Stein's extended meditation on non-place by **Prof Anupama A**, Assistant Professor, Centre for English Studies, Central University of Gujarat, Nov 01, 2021
- Touch, pain and temperature: The 2021 Nobel Prize by **Prof Leslee Lazar,** Assistant Teaching Professor, Humanities and Social Sciences, IIT Gandhinagar, Nov 01, 2021
- Zero-sum semi-Markov games with probability criterion by **Prof Subhamay Saha**, Assistant Professor, Mathematics, IIT Guwahati, Nov 01, 2021
- Coresets for compute-efficient and Robust Deep Learning by **Prof Rishabh Iyer**, Assistant Professor, Computer Science, the University of Texas at Dallas, Nov 02, 2021
- Uncivil city: Ecology, equity and the commons in Delhi (Sage 2020) by **Prof Amita Baviskar**, Professor, Environmental Studies and Sociology & Anthropology, Ashoka University, Nov 02, 2021
- Interaction session with **Prof Vaneet Aggarwal**, Assistant Professor, Industrial Engineering, Purdue University, Nov 06, 2021
- Efficient analysis of weak memory concurrency using partial orders by **Prof Subodh Sharma**, Assistant Professor, Computer Science and Engineering, IIT Delhi, Nov 08, 2021
- Momentum ray transforms by **Dr Suman Kumar Sahoo**, Postdoctoral Fellow, University of Jyväskylä, Finland, Nov 08, 2021
- Engaged scholarship in subsistence marketplaces by **Prof Srinivas Venugopal**, Assistant Professor, Marketing University of Vermont, Nov 10, 2021
- Life beyond earth by **Dr Goutam Chattopadhyay**, Senior Scientist, NASA's Jet Propulsion Laboratory, Nov 11, 2021
- Multi-objective optimization in thermal management of electronics by **Prof C Balaji**, Professor, Mechanical Engineering, IIT Madras, Nov 12, 2021
- New age branding strategies by **Mr Vijaybahu Joshi**, AVP - Head of Experience Design, Reliance Jio Infocomm Ltd, Nov 13, 2021
- Merging humans and machines with disruptive technologies by **Hritwick Banerjee,** PhD candidate, Institute of Materials, EPFL, Switzerland, Nov 14, 2021
- Ergodic risk-sensitive control of markov processes on countable state space revisited by **Dr Somnath Pradhan**, Postdoctoral Fellow, Department of Mathematics and Statistics, Queen's University, Canada, Nov 15, 2021
- Eviction as a weapon in Assam by **Dr Nazimuddin Siddique**, a researcher based in Assam, Nov 17, 2021
- Black-hole microstate spectroscopy by **Prof Paolo Pani**, Associate Professor, Sapienza University of Rome, Nov 18, 2021
- Accelerating materials modeling and discovery with artificial Intelligence and machine learning by **Prof Anoop Krishnan**, Assistant Professor, Civil Engineering, IIT Delhi, Nov 18, 2021
- Decoding the sound of boiling for advanced prediction of boiling crisis by **Prof Rishi Raj**, Associate Professor, Mechanical Engineering, IIT Patna, Nov 19, 2021
- Low-cost sensors and data analytics: the future of improving environmental and human health by **Prof Michael Bergin**, Sternberg Family Professor of Civil and Environmental Engineering, Duke University, Nov 19, 2021
- New Zealand seismic design of buildings and some research studies by **Prof Gregory MacRae**, Associate Professor, University of Canterbury, New Zealand, Nov 22, 2021
- Why cousins are more similar than mother-daughters: Inferring circadian control over the cell-cycle from cancer cell lineages by **Dr Shaon Chakrabarti**, Faculty of Cellular Organization and Signalling National Centre for Biological Sciences (NCBS), Nov 22, 2021
- Adaptive multilevel fast multipole method for a class of engineering computations by **Prof Soumyabrata Chakrabarty**, Visiting Professor, Electrical Engineering, IIT Gandhinagar, Nov 22, 2021
- On scale, political economy and the local by **Prof Upal Chakrabarti**, Assistant Professor, Sociology, Presidency University, Nov 24, 2021
- Additive manufacturing and 3D printing of materials for biomedical applications by **Prof Kaushik Chatterjee**, Associate Professor, Materials Engineering, IISc Bangalore, Nov 25, 2021

- Charge transfer dynamics on luminescent nano-materials by **Dr Soumyadip Bhunia**, Postdoctoral Fellow, Chemistry, IIT Gandhinagar, Nov 26, 2021
- Megalithic cultures of South India by **Prof V Selvakumar**, Associate Professor, Head of the Department of Maritime History and Marine Archaeology and Coordinator, Centre for Indian Ocean Studies, Tamil University, Thanjavur, Nov 27, 2021
- Many-body phases of a quantum non-Hermitian topological system by **Dr Adhip Agarwala**, Postdoctoral Fellow (former), International Centre for Theoretical Sciences, Bengaluru, Nov 30, 2021
- Ultrasound imaging in Philips by **Dr Deep Bera,** Senior Scientist, Philips Research, Bangalore, Dec 09, 2021
- Challenges and potential of early cartographic documents in archaeology and geomorphology by **Dr Ekta Gupta**, Early Career Fellow, Archaeology, IIT Gandhinagar, Dec 10, 2021
- How dispersal evolves and why we should care by **Prof Sutirth Dey**, Assistant Professor, Biology, IISER Pune, Dec 13, 2021
- NPS subscriber awareness programme by **Mr Vivek Shukla**, Assistant Manager, Protean, eGov Technologies Limited, Dec 16, 2021.
- Programmable nano pattern morphology by controlling viscoelasticity of the soft elastic films by **Prof Rabibrata Mukherjee**, Professor, Chemical Engineering, IIT Kharagpur, Dec 16, 2021
- Global methods in large-scale 3D reconstruction by **Prof Venu Madhav Govindu**, Associate Professor, Electrical Engineering, IISc Bangalore, Dec 17, 2021
- Design, modernity and India, an entangled history by **Prof Saurabh Tewari,** Assistant Professor, School of Planning and Architecture Bhopal, Dec 18, 2021
- Chemistry and ecology of plant interactions by **Prof Radhika Venkatesan**, Assistant Professor, Biological Sciences, IISER Kolkata, Dec 22, 2021
- Enhancing single-molecule fluorescence at the plasmonic nanogaps by **Dr Ashish Kar,** Early Career Fellow, Chemistry, IIT Gandhinagar, Dec 24, 2021.
- Early historic trade of South India by **Prof K Rajan**, Former Professor, Department of History, Pondicherry University, Dec 25, 2021
- Linear stability analysis of time-varying systems by **Prof Tapan Kumar Hota**, Assistant Professor, Mathematics, SRM University, Andhra Pradesh, Jan 05, 2022
- Critical success factors for early-stage startups by **Mr Kamalesh Dwivedi,** President and General Partner, 3Lines Venture Capital, Denver, USA, Jan 06, 2022
- Human-like learning control by **Dr Sujay Kadam**, Postdoctoral Fellow, Mechanical Engineering, IIT Gandhinagar, Jan 07, 2022
- Writers at work with **Prof Vikram Chandra**, an international bestselling award-winning novelist, short story writer, screenwriter, nonfiction author, and a Professor of Creative Writing at the University of California, Berkeley, Jan 10, 2022
- On not being able to read: doomscrolling and anxiety in pandemic times by **Prof Laura Salisbury**, Professor, Modern Literature and Medical Humanities, University of Exeter, UK, Jan 11, 2022
- Infinity harmonic functions and calculus of variations by **Manraj Ghumman,** former student, BS-MS, IISER Pune, Jan 12, 2022
- Ab initio modeling of 2-D materials and devices? by **Prof Mathieu Luisier**, Department of Information Technology, Electrical Engineering, ETH Zurich, Jan 12, 2022
- Design management by **Dr Ravindra Rajhans**, retired General Manager, Cab Design, Tata Motors (Engineering Research Center), Jan 15, 2022
- On identification of matrix diffusion coefficient in a parabolic PDE by **Dr Subhankar Mondal**, Postdoctoral Scholar, University of Gottingen, Germany, Jan 19, 2022
- Ceramic particles, processing, and prototype validation by **Prof Debasish Sarkar**, Professor, Ceramic Engineering, NIT Rourkela, Jan 20, 2022
- Materials development for efficient energy storage in batteries: from consumer electronics to renewable energy storage by **Dr A S Prakash**, Senior Principal Scientist, Central Electro Chemical Research Institute, Chennai Centre, Jan 21, 2022
- Quantum is coming by **Dr Anuj Agarwal,** Early Career Research Fellow, IIT Gandhinagar, Jan 21, 2022
- The life race: sprint, marathon, or both? by **Mr Anup Bagchi,** Executive Director, ICICI Bank, Jan 21, 2022
- Understanding IPR, and significance of design in IPR by **Yohan Engineer,** PhD student, IIT Hyderabad, Jan 24, 2022.
- Useless by **Prof Sumana Roy**, a renowned author, and Associate Professor, Creative Writing, Ashoka University, Jan 25, 2022.
- Communicating impacts of climate change on communities around India by **Ms Disha Shetty**, an award-winning independent science journalist, Jan 25, 2022.
- Thin-film on structured packing by **Dr Sanghasri Mukhopadhyay,** Researcher, IIT Madras, Jan 25, 2022.
- Prospects of electrocatalysis for sustainable manufacturing, greenhouse gas mitigation, and energy storage by **Dr Meenesh Singh**, Assistant Professor, Department of Chemical Engineering, University of Illinois Chicago, Jan 27, 2022.
- Cities and their financial innovations: an inquiry into early historic urban practices by **Prof Monica L Smith**, Professor, Cotsen Institute of Archaeology, Institute of the Environment and Sustainability, University of California, Los Angeles, Jan 29, 2022.
- RGL-NET: a recurrent graph learning framework for progressive part assembly by **Abhinav Narayan Harish**, MSc student, Georgia Institute of Technology, Jan 31, 2022.
- Bioengineered human tissues, organs: the way forward in healthcare by **Prof Biman B Mandal**, Professor, Department of Biosciences and Bioengineering, School of
- Health science and engineering and Centre for Nanotechnology, IIT Guwahati, Feb 02, 2022
- Mechanical properties of nano-bainitic steels by **Prof Aparna Singh**, Associate Professor, Metallurgical Engineering and Materials Science, IIT Bombay, Feb 03, 2022.
- Microfluidics and micropatterning by **Prof Subhra Datta**, Associate Professor, Department of Mechanical Engineering, IIT Delhi, Feb 04, 2022
- Craft and process: a dialogue with **Rijula Das**, an award-winning debut novelist, Feb 08, 2022.
- Building agile data and machine learning solutions for infectious disease surveillance by **Prof Tavpritesh Sethi**, Associate Professor in the Department of Computational Biology and the founding head of Center of Excellence in Healthcare, IIIT Delhi, Feb 09, 2022
- Recovery of coefficients for a weighted p-Laplacian perturbed by a linear second-order term by **Dr Manas Kar**, Assistant Professor, Mathematics, IISER Bhopal, Feb 09, 2022
- Polymer stretching and scission in turbulent flows by **Prof Jason R Picardo**, Assistant Professor, Department of Chemical Engineering, IIT Bombay, Feb 10, 2022
- Allowable complex metrics in quantum cosmology by **Prof Jean-Luc Lehners**, Leader of the ERC Research Group, Theoretical Cosmology, Max-Planck-Institute for Gravitational Physics (Albert-Einstein-Institute) Potsdam, Germany, Feb 10, 2022
- Intelligent design and discovery of materials with computational materials science by **Prof Abhishek Tewar**i, Assistant Professor, Metallurgical and Materials Engineering, IIT Roorkee, Feb 10, 2022.
- Importance of battery pack design and battery management system in electric vehicles by **Dr Hamavathi S**, Assistant Professor, Academy of Scientific & Innovative Research (AcSIR), Feb 11, 2022
- IITGN's own satellite? by **Prof Soumyabrata Chakrabarty**, Visiting Professor, Electrical Engineering, IIT Gandhinagar, Feb 12, 2022
- Researcher or entrepreneur? by **Dr Aniruddha Joshi**, Founder & CTO, Atreya Foundation, Feb 12, 2022
- Memory, nation-building and 1971 Bangladesh War Literature by **Madhurima Se**n, PhD candidate, Faculty of English, University of Oxford, Feb 14, 2022
- Data-driven decision frameworks for COVID-19 response: a personal journey by **Prof Rajesh Sundaresan,** Professor, Electrical Communication Engineering, IISc Bangalore, Feb 15, 2022
- Science improv by **Prof Mohit Kumar Jolly**, Assistant Professor, Centre for Biosystems Science and Engineering, IISc Bangalore, Feb 16, 2022
- Navier-Stokes equations - the million dollar problem by **Dr Manil T Mohan**, Assistant Professor, Department of Mathematics, IIT Roorkee, Feb 16, 2022
- The psychoanalysis of Sudhir Kakar by **Prof Sudhir Kakar**, a psychoanalyst, novelist and scholar in the fields of cultural psychology and psychology of religion, Feb 16, 2022
- Constrained state estimation using Kullback-Leibler divergence by **Prof M Nabil**, Assistant Professor, Chemical Engineering, IIT Tirupati, Feb 17, 2022
- 2-D layered nanostructures for sensing of oxidative stress markers by **Dr Mayank Garg**, Early Career Fellow, Chemical Engineering, IIT Gandhinagar, Feb 18, 2022
- The middle finger and the craft of writing by **Prof Saikat Majumdar**, a novelist and a Professor at Ashoka University, Feb 18, 2022
- Visualising medical knowledge – the gaze of the camera, the clinic, and the colony by **Ms Michaela Clark**, PhD candidate, Centre for the History of Science, Technology and Medicine (CHSTM), University of Manchester, Feb 22, 2022

- From histone modification to chromosome segregation: how MLL family regulates epigenetic specification of centromere by **Dr Shweta Tyagi,** Head, Laboratory of Cell Cycle Regulation, Centre for DNA Fingerprinting and Diagnostics (CDFD), Feb 23, 2022
- Approximation in the mean on rational curves by **Dr Shibananda Biswas**, Assistant Professor, Department of Mathematics and Statistics, IISER Kolkata, Feb 23, 2022
- Labhopping to document the changing fabric of the Indian science ecosystem by **Aashima Dogra, Nandita Jayaraj,** and **Sayantan Datta** from TheLifeofScience.com, Feb 23, 2022
- Enhancing healing power with green tea Bbomaterials by **Prof Kurisawa Motoichi,** Professor, Bioscience and Biotechnology, JAIST, Feb 24 2022
- Parameterized algorithms for kidney exchange by **Prof Palash Dey**, Assistant Professor, Department of Computer Science and Engineering, IIT Kharagpur, Feb 25, 2022
- Early historic exchange networks and ancient ports of India (300 BCE- 300 CE) by **Dr Sunil Gupta**, Former Director, Allahabad Museum, Feb 26, 2022
- Personalized approaches for improving outcomes of advance therapeutic methods by **Prof Santosh K Misra**, Assistant Professor, Biological Sciences & Bioengineering, IIT Kanpur, Mar 03, 2022
- Quantum simulations with long ion strings in a trapped-ion quantum simulator by **Dr Manoj Joshi,** Postdoctoral Fellow, Institute of Quantum Optics and Quantum information, Mar 04, 2022
- The politics of genre fantasy: roleplaying games as a case study by **Dr Prayag Ray**, Assistant Professor, and Head of the Department of English, St Xavier's University, Kolkata, Mar 04, 2022.
- Author in conversation: **Sam Thompson**, Author and Lecturer, School of Arts, English and Languages at Queen's University, Mar 08, 2022
- Succeeding in your PhD: bollywood meme rendition by **Prof Manu Awasthi**, Associate Professor, Computer Science, Ashoka University, Mar 09, 2022
- Engineered PEG-protein and PEG-peptide hydrogels for in vitro modelling of cancer by **Prof Shantanu Pradhan**, Assistant Professor, Department of Biotechnology, IIT Madras, Mar 10, 2022
- Giving a technical talk and answering questions: identifying the best practices by **Prof Himanshu Shekhar**, Assistant Professor, Electrical Engineering, IIT Gandhinagar, Mar 12, 2022
- Innovation for grassroots (making farming profitable through design and technology) by **Mr Vinay Reddy**, Co-founder & CTO, Sickle Innovations, Mar 12, 2022
- Loops on schemes and the algebraic fundamental group by **Prof Kay Rülling**, Faculty of Mathematics and Natural Sciences, University of Wuppertal, Mar 15, 2022
- What's next on India's plate?: opportunities and challenges for creating an equitable food system by 2050 by **Prof Anaka Aiyar**, Health Economist & Assistant Professor of Economics, University of Nevada, Reno, Mar 16, 2022
- Dreams and their interpretation by **Ms Lila P Kapur**, a psychoanalyst-psychotherapist, currently pursuing her training in psychoanalysis at University Paris 8, Mar 17, 2022
- Modeling of electron transport in advanced MOS transistors by **Prof Oves Badami**, Assistant Professor, Electrical Engineering, IIT Hyderabad, Mar 18, 2022
- The Eisenstein ideal of weight k and ranks of Hecke algebras by **Prof Shaunak Deo**, Assistant Professor, Department of Mathematics, IISc Bangalore, Mar 21, 2022
- Writers at work: Ft. **Mr Suhrid Chattopadhyay** by Senior Deputy Editor, Frontline Magazine, The Hindu Group, Mar 21, 2022
- Book launch: "Transdisciplinary ethnography in India: Women in the Field" by **Prof Rosa Maria Perez**; **Prof Lina M Fruzzet,** Editors of the book, Mar 22, 2022
- Creating poetry, recreating collective past: a way of poetizing perennially broken selves by **Prof Gautam Vegda**, poet, painter and research scholar, and Assistant Professor, English, Gujarat Vidyapith, Mar 23, 2022
- Stability estimates for some hyperbolic inverse problems by **Soumen Senapati,** final year PhD student, TIFR Centre for Applicable Mathematics, Bangalore, Mar 23, 2022
- Ultrasound technologies for therapeutic tissue regeneration by **Prof Diane Dalecki**, Kevin J Parker Distinguished Professor, Biomedical Engineering, the University of Rochester, NY, Mar 23, 2022
- Keyframes and trajectories of achieving skill at scale: journey of an animator to MOOC instructor by **Dr Sameer Sahasrabudhe**, Director, Educational Multimedia Research Center (EMMRC), Pune, Mar 24, 2022
- Diving into the interior of asymptotically flat hairy black holes and maximal warm joles by **Prof Oscar Campos Dias**, Professor, Applied Mathematics and Theoretical Physics, Director of Service Teaching, University of Southampton, Mar 24, 2022
- Communicating with confidence by **Ms Soumya Harish**, Coordinator, NEEV, IITGN, Mar 24, 2022
- Understanding collective phenomena from the underlying interaction networks by **Dr Danny Raj**, DST INSPIRE faculty, Chemical Engineering, IISc Bangalore, Mar 24, 2022
- Corticocentrism and the unconscious by **Dr Anup Dhar,** Senior Fellow, Practical Philosophy, Livonics Institute of Integrated Learning and Research, Mar 24, 2022
- Governance of biodiversity and other natural resources in India by **Dr Yogesh Gokhale**, Senior Fellow and Area Convenor, Centre for Forest Management and Governance, Land Resources Division, The Energy and Resources Institute (TERI), New Delhi, Mar 25, 2022
- Introduction to latest laser-based experimental diagnostic tools in fluid mechanics by **Dr Deepak Sharma**, Senior Regional Manager, TSI, Mar 25, 2022
- Design and development of materials as efficient catalyst for the conversion of CO2 to useful chemicals and fuels by **Prof Sebastian C Peter,** Associate Professor, New Chemistry Unit & School of Advanced Materials, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, Mar 25, 2022
- Fireside chat: just make it by **Mr Ajay Lavakare**, Director, TinkerTech Lab, a founding member & past Co-president of Stanford Angels & Entrepreneurs India, and Mr Nish Chasmamawala, Founder, Consure Medical, Mar 25, 2022
- Vadnagar: the early historic city of Anarta and its Buddhist remains by **Dr YS Rawat**, former Director of Gujarat State Archaeology, Mar 26, 2022
- Statistics of moduli space of vector bundles by **Dr Sampa Dey,** Post-Doctoral Fellow, Mathematics, IIT Gandhinagar, Mar 28, 2022
- Blood cell development: lessons learned from drosophila by **Prof Lolitika Mandal**, Associate Professor, Biological Sciences, IISER Mohali, Mar 30, 2022

LABORATORIES

ARCHAEOLOGY LAB

The Archaeological Sciences Centre (ASC) lab is equipped with following facilities to conduct various scientific investigations and archaeological research: field emission scanning electron microscope (FESEM), x-ray diffraction and fluorescence (XRF and XRD), mass spectrometry (ICP-MS and MALDI-TOF), ground-penetrating radar (GPR), 3D long-range and short-range laser scanners, and a binocular microscope with digital camera attachment for investigations of archaeomaterials. The ASC has set up a ceramic petrology lab to investigate ancient pottery; this consists of a polishing and grinding unit (for making thin sections) and a polarizing microscope. ASC is currently setting up a small bone/teeth sampling unit consisting of a clean box and micro-drilling.

BIOLOGICAL ENGINEERING

The Biological Engineering laboratory facilities include the Molecular and Cellular Biology Facility (MCBF), Cell Culture Laboratory (CCF), C Elegans facility, Crystallization Laboratory, Microbiology Laboratory, Proteomics and Peptide Synthesis (PPSF) facility, Medical Ultrasound Engineering (MUSE) Lab, Stem Cells and Tissue Engineering Lab and DNA sequencing and analysis facility.

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

CELL CULTURE LABORATORY (CCF) has three cell culture labs (One lab BSL2+) equipped with biosafety cabinets, CO_2 incubators, centrifuges, automated cell counter, UV crosslinker, sonicator, liquid nitrogen

AND FACILITIES

cryopreserver, inverted epifluorescence microscope and a multimode microplate reader with alpha-screen assay capabilities for high throughput assay applications.

C ELEGANS FACILITY is a BSL-1 facility which is equipped with bio-safety cabinet, laminar airflow, CO_2 incubator, freezers, thermo-mixer, autoclave, refrigerated shakers and centrifuges, liquid nitrogen tank, microinjection scope, fluorescent stereo-zoom microscope and basic stereo-microscopes.

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

CRYSTALLISATION LAB is equipped with a crystallisation incubator and stereo-microscope.

MICROBIOLOGY LAB is a BSL-2 facility that is equipped with laminar airflow and incubators

MEDICAL ULTRASOUND ENGINEERING (MUSE) LAB is equipped with instrumentation dedicated for innovating in tissue characterization and elasticity imaging, molecular and contrast enhanced imaging, ultrasound-mediated therapy, acoustic metrology and sensing, and tissue-mimicking phantoms for imaging and therapy. The facility has a programmable research ultrasound imaging system and equipment for generating and sensing ultrasound fields ranging from 1 to 35 MHz, which include an ultrasound beam mapping and calibration system, ultrasound transducers, hydrophones, pulser-receivers, arbitrary waveform generators, digital and mixed signal oscilloscopes, and power amplifiers. The lab also includes workstations with GPU and a tissue-mimicking gel phantom fabrication area with standard wet lab equipment, a vacuum oven, a fume hood, and a calibrated tissue-mimicking phantom.

The MUSE lab contains a programmable research ultrasound system that has hardware and software technologies that provide direct access to raw ultrasound data, while preserving the ability to perform high-quality real-time imaging with custom software, at clinically useful imaging frame rates. This system is designed to provide the researcher/developer with broad flexibility in defining each of the system's functional components, using familiar and powerful software interfaces based on common programming environments, such as MATLAB® and C++. Researchers can conceive, implement, and evaluate new approaches to ultrasound imaging and ultrasound therapy monitoring or delivery using such a system.

STEM CELLS AND TISSUE ENGINEERING LAB has BSL1+ facilities to handle mesenchymal stem cells and primary cell culture including tissues. The lab includes a cell room which has 2 biosafety cabinets, 1 CO_2 incubator and vacuum facilities. The sample preparation room within the stem cells room includes molecular biology facilities like weighing balance, pH meter, stirrer, PCR machine, a small microscope and gel apparatus.

DNA SEQUENCING AND ANALYSIS FACILITY: This facility is equipped with a MinION DNA sequencer from the Oxford Nanopore Technology. This platform is capable of generating long reads and is being used for genomic and epigenomic analyses that help us understand functions of genes such as CGGBP1, chromatin biology and genetic mutational events relevant in tumorigenesis.

The usage of this facility has generated many pipelines for determination of DNA-protein interactions using ChIP, regulation of the chromatin structure and function, somatic mosaicism and epigenetic marks such as cytosine methylation using MeDIP.

FLOW CYTOMETER HIGH-END CELL SORTER: The BD FACSAria Fusion flow cytometer high-end cell sorter provides a powerful, sensitive and unmatched technique for monitoring different populations of biomolecules and cells within immensely heterogeneous mixtures. The instrument uses three solid-state lasers for simultaneous measurement of 11 parameters (13 including forward and side scatter). Both components of the instrument namely the fluorescence/scattering analyzer and the cell sorter are housed within a single unit that does not require any custom alignment of optics. The instrument is capable of performing routine applications including cell cycle analysis, cell viability assay and immunophenotyping as well as high-end applications such as cell sorting and membrane potential measurements. The instrument will benefit a vast range of research projects at IITGN covering medicinal chemistry, drug delivery systems, nucleic acid biochemistry, membrane biology, protein-nucleic acid interactions, biomaterials development, nanomedicine and toxicology. The distinctive capabilities of the instrument cannot be matched by any other single instrument or even a combination of experimental approaches.

BIO-AFM: Bruker Nanowizard Sense AFM was procured and has been operating since March 2022. The key feature of this AFM is that the Bio-AFM is coupled to fluorescence microscopy and it has phase imaging, contact imaging, force mapping, and all the other related modules for complete single molecule imaging setup. Bio-AFM is coupled to a Leica epifluorescence microscope with all four color imaging. It is useful for solution-based imaging where membranes, cells etc can be imaged simultaneously in fluorescence and AFM mode. Live events like protein folding, aggregation and self-assembly can be viewed. Cell and tissue imaging is also possible. Both dry and liquid forms of samples like biomolecules, purified and free from salts can be imaged at good resolution. Both dilute and concentrated forms of the samples can be analyzed.

CHEMICAL ENGINEERING

The Chemical Engineering discipline has state-of-the-art laboratory facilities and setups related to different courses in BTech, MTech and PhD programmes. The facility also includes a special characterisation facility such as a UV-vis spectrophotometer, HPLC, GC, particle size analyser, and a computer facility for process simulation laboratory. Simulation tools such as ANSYS, STAR-CCM, AspenTech suite, MATLAB, and COMSOL are also available. Besides, the discipline is equipped with the following research

laboratories actively involved in different areas of research in undergraduate and graduate programmes:

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

SOFT MATTER SCIENCE AND ENGINEERING LABORATORY: The lab is actively doing experimental research in stress and strain-controlled rotational rheometer, optical microscope, instruments for colloidal characterisation. The equipment in the lab are; rheometer, optical microscope, tensiometer, refrigerated and heated circulatory bath (Model: IC301-K3), DLS and Zeta potential measurement instrument (Brookhaven), refrigerated tabletop centrifuge, a computer workstation with servo stabilizer.

DRY PROCESS TECHNOLOGY (DRYPROTECH) LABORATORY: The state-of-the-art DryProTech Lab has several sophisticated instruments such as surface energy analyser (inverted gas chromatography), simultaneous TG-DSC from Netzsch, FT4 powder rheometer (Freeman Technology), laser diffraction particle size analyser (CILAS) for characterisation in dry and wet mode. In addition, the lab is equipped with V-blender and cone-mill (Prism Pharma), humidity- controlled glove box and Faraday cup

with electrostatic charge measurement facility, planetary ball mills, furnace chamber, tube furnaces, catalytic reactor to study the performance of catalyst powders, etc.

FIRE RESEARCH LABORATORY: The Laboratory has a cone calorimeter (FFT, UK; Model: iCone mini), which is considered the most significant bench-scale instrument in fire testing. This apparatus has been adopted by the International Organisation for Standardisation (ISO 5660-1) for measuring heat release rate (HRR) of materials under incident heat flux. The specimen can be exposed to a maximum of 100 kW/ m^2 heat flux. This device analyses the combustion gases and measures the smoke produced from the test specimen along with its time to ignition and mass- loss rate. The data collected from this bench-scale test can be used for fire modeling, prediction of real-scale fire behavior, pass/fail tests etc.

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

POLYMER ENGINEERING RESEARCH LAB (PERL):
The laboratory is involved in both experimental and computational work in the areas of self-oscillating chemical reactions, shape memory polymers, smart soft materials, polymer processing, polymer gels and composites and pattern formation. The laboratory is equipped with computational facilities including state-of-the-art workstations and access to high-performance clusters. The experimental facilities include lyophilizer (Martin Christ, Alpha 2-4 LSC Basic) for freeze-drying, centrifuge, refrigerated and heated circulating cooling bath (IC 301-K3), bath sonicator, magnetic stirrer (with temperature sensor), vacuum pump, clean bench cabinet etc. We are in the process of procuring a polymer extruder/mixer for polymer blending polymers in pellets or powdered form, hot press machine and a gel permeation chromatography instrument.

COMPUTATIONAL RATIONAL DESIGN LABORATORY:
The laboratory is involved in developing computational methods to rationally design solid materials that show desired response to the process-conditions. The laboratory is equipped with four high performance computer workstations that are used to perform simulations at the molecular and nano scales. The workstations are equipped with the software to perform molecular dynamics and Monte Carlo simulations of biological and artificial systems, and equipped with graphics processing units (GPUs) for the visualization of simulation-results. The workstations are also used to develop and test the computer programs used to perform advanced Monte Carlo simulations.

CHEMISTRY

The Chemistry discipline's laboratory is equipped with state-of the-art facilities for a variety of teaching and research activities for undergraduate and postgraduate students. Fume hoods equipped with Schlenk lines cater to a large segment of wet chemical synthetic work. The discipline also has a glovebox for performing chemical reactions under an inert atmosphere. The sophisticated instruments in the institute include 500 MHz NMR, Synapt G2S ESI-Q-ToF mass spectrometer, scanning electron microscope (SEM), atomic force microscope (AFM), MALDI-ToF and a single-crystal x-ray diffractometer (SCXRD). The research instruments consisting of cyclic voltammeter, a circular dichroism spectrometer, BET surface area analyser, isothermal titration calorimeter, fast protein liquid chromatography, TGADSc, gas chromatography, FTIR spectrophotometer, UV-Vis instruments (with reflectance accessory and 8-cell Peltier unit), analytical HPLC, spectrofluorometer with Peltier cooling, polariser and solid-state accessories are used both for teaching and research. The discipline also has state-of-the-art optical microscopy setup capable of imaging single molecules and nanoparticles in confocal and wide field detection.

Instruments such as an EMCCD camera and advanced gas chromatography are being procured. Recently, preparatory high-performance liquid chromatography (Prep-HPLC) has been procured to purify peptides and charged small molecules with high purity and quantity for biological studies. Moreover, a flow cytometry instrument has also been acquired to detect and sort fluorescently-labelled single cells. This flow cytometer is also highly useful to detect cells in different apoptotic states. A multi-angle dynamic light scattering (MADLS) has also been procured that can measure the size and surface charge of the nano/micro particles with high precision from microliter volume. A Multi plate reader is also installed to screen the small molecules with high throughput inside the cells. A C3-high pressure homogeniser has also been installed. These instruments have significantly enhanced the discipline's capabilities in interdisciplinary areas covering chemistry, biology, material science and nanophotonics.

CIVIL ENGINEERING

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

STRUCTURAL ENGINEERING LABORATORY: The Structural Engineering laboratory has the following

material testing facilities for UG students: standard consistency, initial/final setting time of cement paste; soundness of cement; bulking of sand; slump test for workability of concrete; compaction factor test; vee bee consistometer test; specific gravity of cement; fineness of cement; fineness modulus, specific gravity, bulk density of fine/coarse aggregates; elongation and flakiness index of coarse aggregates; aggregate impact value; aggregate abrasion value (Los Angeles test); compressive strength 73 of cement cube and mortar cube; compressive strength of concrete cube (as per nominal mix); compressive strength of concrete cube (as per mix design); compressive strength of concrete by ultrasonic pulse velocity test; compressive strength of concrete by rebound hammer; finding of air content in concrete; concrete penetration resistance; penetration depth of bitumen; flash & fire point of bitumen; viscosity of tar; efflorescence of brick; water absorption of wood; viscosity of paint; fineness of paint. The laboratory also houses advanced conditioning and testing equipment such as a 300 ton compression testing machine, autoclave, medium-sized furnace, steam chamber, concrete screw pump and efficient concrete scanner device for structural analysis and to locate embedded objects in multiple layers with maximum detection depth for object localisation: 300 mm.

GEOTECHNICAL ENGINEERING LABORATORY: The Geotechnical Engineering laboratory is equipped with high-end research equipment along with basic soil testing. The soil dynamics laboratory is equipped with large (earthquake) and small strain (vibratory) testing. Large strain dynamic loading: cyclic triaxial test setup (0.01 - 2 Hz, strain controlled); electro-mechanical dynamic triaxial test setup (0.01 - 10 Hz, stress and strain controlled, K0, stress-path, user defined waveform, 10000 cycles running capability), cyclic simple shear setup (0.001 - 5 Hz, stress and strain controlled) to evaluate liquefaction, shear modulus & damping ratio of soils up to 10,000 loading cycles. Small strain dynamic loading: bender element system to determine shear modulus under K0, stress path, isotropic, UU, CU, CD compression and extension loading conditions. Shear strength facility consists of direct shear setup for cohesionless soils, unconfined compression (UC) test for cohesive soils, vane shear test for soft soils, and triaxial setup with DAQ and analysis software for all soil types. Pore pressure and volume change measurement facilities are available for compression/extension loading (UU, CU, CD tests), K0 consolidation and stress path testing. Large direct shear setup is also available to study the interface behavior of various types of geosynthetics-soil system. Dew point potentiometer is available to determine total suction (0 - 300 MPa) of fine-grained soils, conventional tensiometer for coarse-grained soils, and filter paper setup for matric suction of all soil types. The

facility includes falling and constant head devices for the permeability of fine and coarse-grained soils, four 3-gang oedometer (1D consolidation) setup, proctor setup, CBR for the strength of subgrade soil, sieve shaker, hydrometer, Atterberg limit (LL,PL,SL), swell pressure, specific gravity, relative density, core cutter, sand replacement, muffled furnace (900oC) for organic matter evaluation, optical and digital LCD microscopes. The field testing laboratory has plate load test of 300 kN capacity with motorized anchoring system, standard penetration test (SPT), dynamic cone penetration test (DCPT) with automatic free-fall hammering system, vibratory plate compactor for field compaction, field permeability setup, ground penetration radar (GPR) with mono and bistatic operations facilitated with antennae of frequencies 100 MHz, 400 MHz with the bistatic operation and 200 MHz and 900 MHz with the monostatic operation including 20-80 multi frequency antennae, multichannel analysis of surface waves (MASW) setup with the provision of Seismic Refraction/Reflection

Survey and Downhole/Crosshole tests. The following equipment were developed in the laboratory: multiaxial cubical device with flexible boundary system along with real-time feedback control system capable of conducting true-triaxial and plane strain testing of soils, constant rate of strain (CRS) consolidation setup, slurry consolidation setup for preparing the remolded specimens of fine-grained soils.

WATER RESOURCES ENGINEERING LABORATORY: The Water Resources Engineering laboratory has the following equipment for teaching purposes: a hydraulic bench, pitot tube, Reynold's apparatus, sharp-crested weir (notch), Bernoulli's apparatus, venturimeter and orificemeter, nozzle meter, hydraulic tilting flume, basic hydrology apparatus, free and forced vortex flow apparatus. In addition to the above, a river tray having levee breach facility, an automated hydraulic tilting flume and a piping system to study transients are being used for research purposes. A 3D velocity measurement device, Acoustic Doppler Velocimeter, is used in the flume experiments.

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

COGNITIVE SCIENCE

The Cognitive Science Laboratory at IIT Gandhinagar houses multiple state-of-the-art research facilities and equipment. Using these research facilities, it has been possible to address research questions that combine brain mechanisms with the study of human cognition. The details of the research facility are given below,

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

HIGH-DENSITY ELECTROENCEPHALOGRAPHY (EEG): A high-density EEG system is available with 128-channel Geodesic sensor nets that are saline-based for quick application to participants. The system is integrated with E-Prime and MATLAB for stimulus presentation. NetStation software is used for recording and processing the data. The data can also be exported to open-source and popular processing toolboxes such as EEGLab in MATLAB. The software capabilities include an AmpServer Pro license for the real-time sampling of raw data up to 8 kHz for Brain-Computer Interfacing Applications. The EEG system has now been set up for simultaneous eye tracking and EEG recordings.

BRAIN STIMULATION: The facilities include a Transcranial Magnetic Stimulation (TMS) system for non-invasive stimulation of the brain. The TMS system is coupled with a neuronavigation system which can use the MRI scan of a participant for precise targeting of single or repetitive magnetic pulses to localize brain regions of stimulation. Transcranial Direct Current Stimulation (tDCS) is used for non-invasive stimulation of the brain by using a small direct current across the scalp to modulate brain function. Even extremely low-level currents may simultaneously increase the brain's activity near the anode and decrease the activity near the cathode.

ROBOTIC SYSTEM: The bilateral Kinarm end-point robot is a stiff, graspable robot that ensures simultaneous control of both robots for comparison of inter-arm performance and the study of bimanual coordination.

DIGITISING TABLET: GTCO CalComp digitizing tablet records the endpoint arm movement. It has a functional area of 36X24 cm and records the movement of the stylus on the surface of the tablet. It can record the stylus movement at the rate of 60 Hz.

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

BEHAVIOURAL CUBICLES: Currently there are three behavioural cubicles that house computers that support behavioural data collection. The cubicles are sound-attenuated dark rooms. The computers run MATLAB with the Psychophysics toolbox and are used for research on decision making, attention, agency, etc. They also support

E-Prime and other software such as Blitz3D. These labs are also used as private spaces for paper-and-pencil tests and questionnaires that require an environment free from external interference. The lab features an additional survey room with multiple participant seating. Two additional cubicles are dedicated for psychophysiological experiments with a high refresh rate monitor and adjustable lighting.

PSYCHOPHYSIOLOGY LAB: The wireless physiology-based data acquisition system (Biopac Systems Inc) facilitates real-time data acquisition of physiological signals such as ECG, EMG, and EDA and provides excellent signal quality with the digital transmission with a high resolution of 16 bit and at high speed up to 400 kHz aggregate. The system is compatible with the virtual reality-based programming platform Vizard from WorldViz Inc.

MULTISENSORY LAB: The lab features research facilities for sound-attenuated testing of active noise cancellation equipment with surround-sound speakers. The lab features a driving simulator that was built completely in-house.

TACTILE PERCEPTION LAB: The lab features custom built Arduino-based devices supplemented by 3D printing for conducting psychophysics experiments for texture discrimination, wetness perception, and tactile stimulation with piezo electric vibrators.

EARTH SCIENCES

Earth Sciences at IITGN envisions holistic understanding of the Earth system through multidisciplinary studies of its major components like lithosphere, hydrosphere, atmosphere and biosphere, and their interactions at different spatiotemporal scales. The Earth Science lab 1 and 2 are home to various multi/interdisciplinary projects activities starting from contaminants fate and transport study combined with hydrogeochemical modelling, nanoparticle synthesis and their further environmental applications, “waste to wealth” technology, wastewater based epidemiology, sustainable utilisation of geotechnical materials, Earth surface processes and tectonic geomorphology. These labs are hubs of several international and national collaborative projects funded by noted funding agencies (such as MHRD, SERB, DST, DST-UKIERI, INSPIRE, MOES, MOEF&CC, KPCSD, GSBTM). The lab also promotes public/private partnership through several tailor-made consultancy projects/services.

EARTH SCIENCE LAB 1 is equipped with basic and sophisticated research facilities /equipment to conduct elementary and advanced level of water and soil chemistry. It aims to address the environmental maladies and provide a scientific sustainable solution to the society at the grassroots level. Earth Science laboratory has several experimental setups to assist research from macromolecular level to ultra-trace level with the help of different instruments such as Ion-Chromatography (IC), Hanna (HI7698194) multiparameter pH/EC/DO probe, High purity milli-Q grade water (18.2 MΩ cm–1, Milli-Q® Direct 8) purification system, laminar flow hood, desiccators, biological safety cabinet, incubator, refrigerator, ultracentrifuge, electric muffle furnace, hot air oven, mechanical mixture, sonicator, hot plate, temperature-controlled magnetic stirrer, autoclave,

portable pH and conductivity meter and Thermoscientific ion selective electrodes. The lab is a true example for multidisciplinary studies, as the Masters and PhD research work is extended to different areas like nanomaterials, sustainable construction materials.

EARTH SCIENCE LAB 2 includes a sample preparation facility to be analysed in major instruments. Earth Science lab aims to prepare dry as well as wet samples. The lab is equipped with rock crushing and grinding facility, sieving, hand-held strong magnetic separation. ultrasonic cleaning and leaching of sand grains and chemical analysis through fully functional fumehoods for normal and HF analysis

ELECTRICAL ENGINEERING

The Electrical Engineering discipline currently offers five undergraduate laboratory courses and a basic laboratory course to students of other engineering disciplines. The Electrical Engineering laboratory is equipped with standard test and measurement equipment such as digital storage oscilloscopes, dual-channel arbitrary function generators, digital multimeters, LCR meters, multi output DC regulated power supplies, four channel digital power scope, eight-channel ScopeCoder, source and measurement units, precision magnetic analyzer, RF spectrum analyzer, AC and DC digital power meters. The research facilities of the discipline are housed in specialised laboratories as described below.

WAFER CHARACTERISATION LABORATORY: The Wafer Characterisation Laboratory currently houses a 6” wafer probe station, a semiconductor parametric analyser (with 6 SMUs, 1 LCR meter, 1 pulse unit), a power device analyzer, a 20 GHz vector network analyzer, a dynamic signal analyzer, a low-noise current preamplifier, ICCAP modeling software and set-up to measure packaged devices. This lab will have another probe station (8” with temperature range from -60 to 300 degC) and 43.5GHz vector network analyzer by the end of this year.

NANODC LABORATORY: The Nano Devices and Circuits (NanoDC) Laboratory is primarily used for analog/digital VLSI design and semiconductor device-related research. The laboratory is equipped with multi-user licenses for Cadence, Mentor Graphics, Synopsys, Xilinx ISE tools and

GTS TCAD tools. The laboratory is also equipped with a high-end FPGA board: Xilinx Virtex Ultrascale + FPGA VCU118 Evaluation Kit. Apart from this, the lab has other computational resources including an 80-core server, multiple workstations and machines that host the CAD tools.

POWER SYSTEMS AND SMART GRID LABORATORY: The lab is equipped with a fully digital real-time power engineering simulation platform consists of Opal-RT (OP4508 F11-3+1) real-time digital simulator - OP5600 and customized modular hardware and firmware for hardware-in-the-loop (HIL) and rapid control prototype (RCP) studies in power systems and smart grid related research activities. The lab is also equipped with power systems simulation tools – DIgSILENT PowerFactory, CYMDIST and GAMS software.

INTELLIGENT REHABILITATION AND AFFECTIVE COMPUTING SYSTEMS LABORATORY: The Intelligent Rehabilitation and Affective Computing Systems Laboratory owns five systems for which patent has been applied (i) SmartEye for diagnosis of cognitive impairment, (ii) Instrole for characterization of one's gait, (iii) SwasTi which is AI enabled walking stick to prevent freezing of gait (FOG) in people with Parkinson's disease, and (iv) OnCallDoctor system for noninvasive measurement of various physiological parameters of the human body and (v) PTreadX which is a physiology-sensitive treadmill-assisted VR-based Gait Exercise Platform. In addition, this research lab is equipped with a split-belt treadmill platform, remote and wearable eye-trackers, Biopac for physiological data acquisition, haptic devices, EEG data acquisition, Transcranial Electrical Stimulator, Functional Electrical Stimulator, Cybergloves and VR headset.

COMPUTER VISION, IMAGING and GRAPHICS (CVIG) LABORATORY: The lab houses Faro Focus 3DX330 and Einscan Pro+ laser scanners which are used to scan large structures and artifacts, respectively with 3D printers. The potential applications include digital heritage, shape analysis, and geometric processing. The lab also has coded aperture cameras fabricated with the help of ISRO-SAC for refocusing and extended depth of field recovery from a single image. The coded aperture cameras can be used with any DSLR to achieve these tasks. Several GPU enabled workstations are used to solve computationally intensive problems involving deep learning for computer vision applications. The lab also will host a human motion capture system for research on human dynamics.

PHOTONIC SENSORS LABORATORY: The Photonic Sensors Laboratory works on applications of near-IR and mid-IR tunable diode laser absorption spectroscopy, photoacoustic absorption spectroscopy, plasmonic nano-biosensing, microbial growth studies and fiber-optic biomedical engineering. The lab is equipped with a large number of mid-infrared quantum cascade lasers (Alpes Lasers), a 1392 nm edge-emitting laser diode (Eblana), 1533 nm edge-emitting laser diode (Toptica), a 100 mW, 4.3-4.7 um) quantum cascade laser (Daylight Solutions), a 1650 nm edge-emitting laser diode (Toptica Photonics), VCSELs (1278 nm, 2004 nm, Vertilas), cooled and uncooled photodiodes. It also has a 50 MHz dual-channel, lock-in

amplifier (Zurich Instruments), several laser diode current and temperature controllers (Thorlabs, SRS), an arbitrary waveform generator (Agilent), a 500 MHz, 1 GS/s digital phosphor oscilloscope (Tektronix), a digital delay and pulse generator, (SRS), and a 3 GHz spectrum analyzer (Agilent)

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

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

MEDICAL ULTRASOUND ENGINEERING (MUSE) LABORATORY: The MUSE Laboratory is equipped to conduct research in biomedical ultrasound imaging, therapy, and metrology. The current laboratory inventory includes single-element transducers (1 - 20 MHz center frequency), High intensity focused ultrasound transducers (2 MHz), An impedance based particle size analyzer, four ultrasound diathermy systems, pulser receivers (1 - 30 MHz) frequency, arbitrary waveform generators (1 - 50 MHz), a RF power amplifier, a programmable ultrasonic data acquisition system, a broadband hydrophone, digital storage and mixed signal Oscilloscopes (200 and 100 MHz bandwidths), a motorized 3-axis positioning system, a preamplifier (30 MHz bandwidth), high power stepped attenuator, a programmable power supply, a vacuum degasser, a calibrated tissue-mimicking ultrasound phantom, a dissolved oxygen probe, wet lab equipment (pipettes, a microbalance, hot/ stir plates, an overhead stirrer, and temperature-controlled circulation baths), a custom acoustic attenuation spectroscopy system, and a high-end workstation equipped with GPU capability. The laboratory is equipped for experiments with biological materials and ex vivo tissue.

AUDIO SIGNAL PROCESSING LABORATORY: The primary focus of this laboratory is on the development and implementation of signal processing algorithms for audio devices including active noise control headphones, hearing aids and hearables. The lab houses equipment including Speedgoat Audio Performance Real-time Target Machine, Neumann KU100 Dummy Head Microphone, GRAS 45CA Ear Protector Test Module in addition to audio interfaces, measurement microphones and studio monitor speakers.

MATERIALS ENGINEERING

Materials Science and Engineering (MSE) discipline, renamed as Materials Engineering in 2020 comprises 4 active laboratories namely Metallography lab, Materials Characterization lab, Wafer characterization lab and Bionanomaterials lab. In the Metallography lab, there are a wide variety of manual and automatic polishing machines, abrasive cutting machines, vickers hardness indenters, optical microscopes, low energy roller, furnace, fume hood and chemical storage for mainly aiding at processing of the materials and specimen preparation. The materials characterisation lab has equipment that can perform surface characterisation (contact angle goniometer, SEM, AFM, profilometer, FTIR), structural characterisation, thermal characterization (TGA, DSC, STA), and elemental composition characterization (AAS, ICP-OES, ICP-MS, and XRF). Wafer characterization lab is focussed on preparation of thin films for optoelectronic applications mainly by sputtering techniques. Bionanomaterials lab is a positive-pressure lab (Class 10,000) equipped with instruments to synthesise and characterise (DLS, CPS, Xigo, Hyperthermia) nanoparticles. The lab also has a cell culture facility to perform preliminary toxicological assays on developed nanomaterials. We recently concluded the installation of our FIST-funded analytical SEM with capabilities of EDS, WDS, and EBSD. The instrument capabilities of Materials Engineering labs are being upgraded continuously by adding new equipment such as Jominy End Quench test,

tube furnace, and UV-Vis NIR spectroscopy that have been added this year. A new lab-Materials Processing Laboratory is currently being set up and is expected to have a rolling machine, hot press, tribometer and many fume hoods for processing the materials in their dry and wet states.

There are hands-on training and practise sessions for the undergraduate students with the instruments during their lab and project courses. Postgraduate students routinely use these instruments for their research activities. Moreover, an online instrument access system has been devised to enable easy booking of time slots for usage to ensure smooth access to all instruments. The users can find available slots and the respective TA allocated for a particular instrument.

MECHANICAL ENGINEERING

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

SOLID AND FLUID MECHANICS: The Solid Mechanics laboratory has this year successfully revived its 100 kN universal testing machine. The load cell, grippers and the controller of the machine have been replaced. Promoting the philosophy of DIY the lab will actively encourage students to test using the recently procured suite of structural lab equipment with the intent to improve overall learning among students in courses like Mechanics of Solids and Mechanics of Deformable Bodies that are currently offered at the undergraduate level. The procured suite includes: 1) bending moments in a beam, 2) shear force in a beam, 3) deflection of beams & cantilevers, 4) bending stress in a beam, 5) unsymmetrical bending & shear center, 6) buckling of struts and 7) continuous & indeterminate beam. These rigs can be utilized both for in-class demonstrations as well as for student projects with simple objectives that improve students' understanding. Other facilities include: 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. Strain gages and associated data acquisition systems are also available for a hands-on learning experience by conducting experiments.

The Fluid Mechanics laboratory has setups for conducting experiments on fluid statics and fluid dynamics. Several common turbomachines such as gear pump, centrifugal pump, pelton wheel along with various flow measuring devices and accessories have also been installed. This year, we have procured additional equipment such as series and parallel centrifugal pumps, hot wire anemometers, surface pressure sensors and digital micromanometers and equipment for visualization of flow-field to aid in the experiments.

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

CONTROL SYSTEMS: The Control Systems Laboratory is

shared between several disciplines and covers a range of experiments that help the students understand both the theory and design aspects of the control system and the implementation aspects. Taking advantage of resources in Tinkerer's lab and within the discipline, most experiments in control systems have transitioned to DIY approaches wherein the students are able to build experiments of varying complexities and implement various control strategies on them. In addition, few 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. The mechanical, electrical, and instrumentation components available for such activities were increased this year to support this approach.

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

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

- Dynamics and control - a mandatory undergraduate level course
- Artificial Intelligence - a graduate-level course
- Machine Learning Course - a graduate-level course

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

DYNAMICS, VIBRATIONS AND WAVES: The facility currently has state of the art piezoelectric sensors like accelerometers, dynamic force sensors of varying sensitivities and form factors catering to different applications. We have necessary data acquisition hardware and software for post-processing. We have acquired impact hammers that can provide controlled impulses for modal and structural testing. For vibration testing, we have 1.6kN vibration shaker and 200N modal exciter with dedicated controller hardware and software. We have procured a high fidelity stroboscope for conducting experiments related to structural dynamics. In addition, we do have high precision surface plates for mounting experimental setups. We have been using a 2m air-track for conducting experiments and dedicated inertial measurement units (accelerometers, gyros etc.) are available with us. Undergraduate students (ES321: Dynamics and Vibrations, Fall 2019) have completed their term projects. Graduate students (ES648: Nonlinear Dynamics and Vibrations, Spring 2020) have fabricated experiments as part of their course term-project.

PHYSICS

The Physics laboratory is equipped with state-of-the-art equipment for conducting experiments at the undergraduate and postgraduate levels. The MSc laboratory consists of several experiments covering topics in optics, solid-state physics, spectroscopy, modern physics, and electronics. Experiments with logic gates enable students to understand the functions of logic circuits as mathematical operators and amplifiers. The lab also offers experiments on amplitude and frequency modulation and demodulation. The undergraduate physics laboratory has experiments covering topics from modern physics, optics, and acoustics. Apart from performing regular experiments in the syllabus, students are advised to pursue short-term projects in groups. This tinkering lab exercise ends with an open-to-all poster session at the end of the semester, during which the students showcase their projects to the IITGN community, and demonstrate their findings.

The research labs in Physics Discipline are involved in state-of-the-art research in the fields of Experimental condensed matter physics and Nanomaterials. Dedicated research facilities have been established to pursue research activities in the areas of Nanomaterials for energy research, Physics of surfaces and interfaces, Growth and characterization of nanomaterials and thin films, Graphene-based nanofluidics/ desalination

techniques, Ion/Proton transport, 2D heterostructures, Active matter, Self-assembly and dynamics of colloids at a single-particle resolution, Colloidal Supercooled liquids and Glasses. The experimental facilities both for research as well as for teaching purposes include Physical Vapor Deposition system, chemical vapor deposition (CVD) system, Quantum Efficiency measurement system, Optical lithography system, Soft-lithography, Langmuir-Blodgett trough, Brewster Angle Microscope, Spin coater, high precision weighing balances, Single quadrupole high precision mass spectrometer, Optical and high-speed confocal microscopes, Rheometer, Source-Measure Units, Milli-Q system, sophisticated sample storage and centrifugation facilities. The research and teaching facilities are being constantly upgraded to facilitate and encourage research aptitude in students under the overarching vision of creating a center in the Physics Discipline for interdisciplinary research.

CENTRAL INSTRUMENTATION FACILITY (CIF)

The Central Instrumentation Facility (CIF) has been established with an objective of providing sophisticated characterization services to the researchers within IITGN as well as different academic research institutes, universities, and industries. The CIF houses several high-end analytical instruments such as SEM, XRD, AFM, NMR, LC-MS, MALDI-TOF, ICP- MS & ICP-OES, Confocal Microscope, Single Crystal XRD, TEM, Advanced Analytical SEM, Flow Cytometer Cell Sorter and Multipurpose XRD. We have recently added a new instrument, Bruker Nano wizard Sense AFM (Bio-AFM) capable of solution based imaging for Biological research. Users around the country can avail CIF services through the National I-STEM Portal.

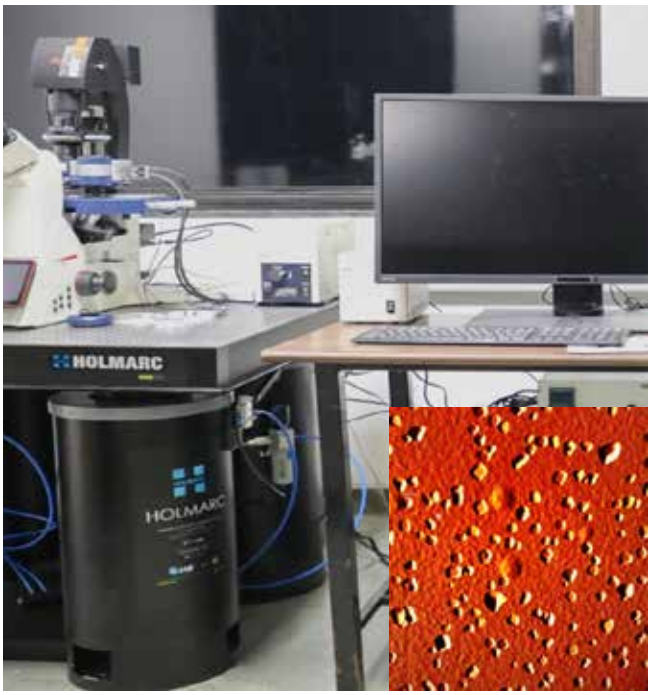
IITGN regularly conducts the Technical Education Quality Improvement Programme (TEQIP) training programme and STUTI-DST Workshops where CIF facility staff and students are involved in giving short lectures towards the technical and application aspects of CIF Instrumentation.

IITGN CIF CONNECTION WITH INDUSTRY

CIF has been catering the needs of industries at various levels. Many pharmaceutical industries like Sun Pharma, Piramal Pharma, Zydus Research centre, Cadila Healthcare, Torrent Pharma and Sud-Chemie are the regular users of our facility. Nearly 30 major industries are the users of the CIF IITGN. Some of the small and medium scale industries use our facility for material characterization, hardness testing and elemental analysis etc. With the addition of new instruments such as Analytical FESEM, Transmission Electron Microscopy (TEM), Multi-purpose X-Ray Diffractometer, and, Inductively Coupled Plasma (ICP-MS/ OES) and Bio-AFM, we are observing growth in the number of users from the industry for their R&D work.

IITGN CIF CONNECTION WITH ACADEMIC INSTITUTES

CIF has been constantly providing services to the universities, institutes and R&D departments. The major goal has been to build an environment which enables high quality research among institutions, universities in and around Gujarat and lead to major collaborations between academic institutes. Some of the institutes who are the regular users of CIF are NIPER, IIIT-RAM, Nirma University, Indrashil University, NIT Surat, Gujarat University, IIAR, CUG, PRL, IPR, CSMCRI, MSU, SP University, PDEU etc. We have been able to connect with a majority of the universities and institutes in the Ahmedabad-Gandhinagar region. Several students from Dental Colleges have carried out sample analysis using Scanning Electron Microscope (SEM). The CIF at IITGN remains open to all the science enthusiasts and encourages them to never stop exploring science.



RECENTLY ADDED CIF INSTRUMENTS:

The Bruker Nano wizard Sense AFM (Bio-AFM) is a recently added CIF instrument which can be used in the solution based imaging where membranes, cells etc. can be imaged simultaneously in fluorescence and AFM mode. Events such as protein folding, aggregation, self-assembly, as well as cells and tissue can be viewed/imaged live.

LIBRARY

The library, a learning resource centre and an integral part of the academic and research environment, continues to expand its collection both in print and digital form. It also designs and delivers innovative services to support teaching, learning, research and other scholarly activities. During the reporting year 2021-22, the library has initiated a number of important activities and services.

LIBRARY COLLECTION

Print & Audio-Visual Collection: The library's rapidly growing collection of research monographs, textbooks, reference books, conference proceedings, CDs, VCDs, DVDs, etc, cover the areas of academic and research interests of the Institute. The following table presents additions to the collection during the year 2021-22.

TOTAL COLLECTION AS ON MAR 31, 2022:

Type of Collection	Additions in 2021-22	Total collection
Books	1111	31327
Bound volumes	0	725
Children books	74	1478
Hindi books	12	467
CDs	15	986
DVDs	13	621
Technical reports	0	456
Thesis and Dissertations	241	931
Total	1466	36991

CIRCULATION AND INFORMATION SERVICES

- **Circulation of Books:** The total number of documents issued to our users during this year is 15,873 as compared to 7,146 last year. There is a significant increase in the borrowing of books as most students returned to campus in January 2022.
- **Print Journals:** Library circulates loose issues of print journals/magazines among users. During the year, in total over 98 issues of print journals/magazines were circulated.
- **Information/Reference Services:** Library has been actively promoting reference & information services (in-person & virtually), to its user community. The library delivered the following services during the last year.

  Weekly Alerts
  - New Additions of Books & other reading materials
  - Institute Research Publications Weekly Alert
  - Book of the Week
  - Author of the Week
  - Library Team wants you to know
  - Others: (i) Discipline-wise listing of major e-resources, (ii) Promoting the use of reference management software and others, (iii) Created Resource Guide for Standards, (iv) Created and updated over 50+ bibliographies on different subjects.
- **Grammarly (Premium Accounts):** Currently, 1,848 users have registered and have been extensively using this writing tool.
- **Plagiarism Checking:** The library continued to offer this service in virtual mode and checked over 5,521 documents including theses, assignments, research paper manuscripts, etc. using Turnitin & Ouriginal software.
- **Inter-library Loan:** Having established an excellent arrangement with major libraries and library networks, the library continued its resource-sharing services. During the year, the library borrowed 60 books compared to 56 books in the previous year. It also loaned 13 books to other libraries compared to 10 books in the previous year.
- **Document Delivery Service:** To support the research activities, the library received 1,537 articles from other libraries compared to 1,955 in the previous year and delivered 207 papers to other libraries compared to 257 in the previous year.
- **Read, Review & Roll!:** To encourage reading habits among the community, especially students, the initiative

'Read, Review & Roll' was launched last year. During this financial year, four submissions were received, making the total number of videos for this initiative to nine. These videos have more than 3,500 views combined.

- **Exhibitions:** Library has celebrated several important days every year with great enthusiasm and exhibitions of books from its collection to raise awareness among IITGN people. During the past year as well, Library celebrated days such as "Hindi Diwas", "National Constitution Day, National Mathematics Day, International Women's Day.
- **Resource Sharing among IIT, IISc & IISER Libraries:** We have a total of 31 institutions that have similar academic disciplines. These groups of libraries, being cohesive in terms of the nature of collection and services, have displayed very positive response towards optimising the resources by actively participating in resource-sharing activities. A Union Catalogue of e-resources (http://library.iitgn.ac.in/unicat/) subscribed by these 31 institutions serves as a platform to facilitate and promote document delivery services.
- **Publication List and Citations Analysis:** The library continued to track scholarly publications of the IITGN community using different sources and shared weekly alerts to the community. The data analysis of these publications along with number of citations, impact factor, h-Index, etc. in an organised manner is provided to the Institute's functionaries from time to time for different purposes including ranking.

MEMBERSHIPS

While the library continues to make an effort in making best use of the benefits and increased resources offered by more than 14 professional bodies, library networks, consortia, a concerted effort was made to reach out to the industries, institutions and individuals to increase the external membership.

Library external memberships: During the year, the library **added 48 new members**, taking the total membership to 79.

LIBRARY ORIENTATION, TRAININGS AND WORKSHOPS

To connect with and introduce library resources and services to freshers, the library organised five "Know Your Library Resources & Services" sessions, one each for PhD, MTech, MSc, MA, and BTech students. In addition, the library also organised 15 workshops on various topics of interest to senior students. Most of the sessions were held in virtual mode.

DIGITAL REPOSITORY OF SCHOLARLY PUBLICATIONS

A 'Digital Repository' (http://repository.iitgn.ac.in/) created using an open-source DSpace software has been kept up-to-date by adding the metadata with abstracts of most of the scholarly publications generated by the Institute community. During the year, a total of 976 metadata have been added to the repository. Additionally, a total of 920 research publications have been added to the Digital Repository. This includes 574 journal articles as compared to 444 reported in the previous year.

OTHER SERVICES

Library continued to work on and update the IRINS instance with the profiles of all faculty members, which highlights publication details and other scholarly activities of the faculty members. Efforts were made to identify the gaps in the indexing of IITGN publications by Web of Science & Scopus and ensure that the missing publications were included in these two databases. The library team also made an effort to identify duplicate author IDs created by Scopus & Web of Science and got them merged into one. To increase the visibility of IITGN research publications, the library is continuously working with faculty members and research scholars to create their profiles on ORCID, Google Scholar, Publons and other such platforms.

LIBRARY PROFESSIONAL TRAINEESHIP/ INTERNSHIP

Library Professional Trainee's Alumni Group: Library has so far trained over 45+ library professionals. A platform was formed for the ex-trainees to come together and continue their interaction. A website with the details of each Alumni has also been created. As part of the group's activities, regular meetings and talks by Alumni were arranged in virtual mode.

LIBRARY STAFF ACTIVITIES

New Staff & Trainees: Three new staff members namely **Sabarmati Bhattacharya**, **Mantasha Siddiqui**, and **Rajan Kumar** joined the library as Library Information Assistants, seven Library Professional Trainees joined during Dec 2021 on a contractual basis for a year, while **Panna Chaudhary,** who was already working in the IITGN library, joined as an Assistant Librarian.

Staff Training: As the library staff were not able to visit other libraries and travel to attend conferences, a total of 15 weekly brainstorming sessions on different topics of interest were organised on topics such as academic integrity and prevention of plagiarism, human library, branding in libraries, Covid archives, creative commons, various ebook databases, patent information, and National Education Policy, among others.

Panna Chaudhary and **Tapas Kumar Das** successfully completed a six-week Scopus Certification Programme (Global 2021.4) on Nov 20, 2021. In addition, **Panna Chaudhary** also completed a one-week online certificate course on Scientific Research Writing by IQAC (Internal Quality Assurance Cell), Gujarat University, from Jan-Feb 2022.

STAFF PUBLICATIONS

Das, Tapas Kumar; **Jain, Sanjeev Kumar;** and **Makwana, JC** (2022). Scientometric Analysis and Visualization of Research Trends of National Institute of Science Education and Research (NISER), Bhubaneswar, Odisha, 67th Indian Library Association (ILA) International Conference on "Open Access Sources and Information Services during Post-Covid Times: Challenges and Opportunities", Vol. II, 511-526(ISBN:9788185216546).

LIBRARY COLLABORATIVE ACTIVITIES

SICI Project: Library is in the last phase of a collaborative project 'Globalization of information literacy: Exploring the need for information literacy programs in Canada and India' undertaken with the University of Victoria Library, Canada. This two-year project is funded by the Shastri Indo-Canadian Institute for 2018-2020.

Contribution to HoMI Project: Library is participating and continuing to contribute to the IITGN HoMI (History of Mathematics in India) project, especially to create a digital repository and develop rare & important collections in the areas of interest to the project.

OUTREACH ACTIVITIES

- Library celebrated Children's Day on Nov 14, 2021, for the children on campus by organising various events such as quizzes, designing a bookmark/book cover, voting for your favourite books, etc. The day ended with exciting prizes and delicious treats. The library also distributed drawing books and crayon sets among the kids attending school at Nyasa.
- In addition, 61 books from our community donations were selected and donated to the Basan Village Public Library.

NEW INITIATIVES

Despite challenges posed by the pandemic, the library put together efforts and added the following new services:

- **New website for the library:** Library, in collaboration with the Institute's Communication team, worked on a new website that was launched in the beginning of 2022.
- **Institute archive:** Upon the approval of a concept note on the Institute Archive, the library has started the preliminary work for creating an archive. A prototype using Omeka with sample collection has been created on a local machine.
- **Lib-InfoCast: The library newsletter:** The library started publishing and circulating internally its quarterly newsletter covering the library activities, resources, services, and other engagements. All four issues of 2021 have already been published and circulated.
- **Book review writing competition:** The library team organised the first "Book Review Writing Competition" for the student community during Mar 10 - Apr 20, 2022. A total of 47 people participated in the competition, reviewing works in the genres of biographies, autobiographies, and memoirs. After reviewing the submissions, a panel of judges selected three winners and awarded them participation certificates, cash vouchers and a book.
- **Library team wants you to know:** It's one of the library's email alert services being sent out to the community every week to apprise them of various resources available at the library. The mailer consisted of a quick history and interesting features of a resource in a crisp, concise manner. So far, 37 such alerts have been sent to the community.

CENTRES

CENTRES

ARCHAEOLOGICAL SCIENCES CENTRE

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

CENTRE'S PROJECTS

- Geoarchaeology of Gujarat: An integrated study based on historical maps, remote sensing data and GIS — **Prof V N Prabhakar** and **Dr Ekta Gupta**, ECF
- Ceramic petrology and provenance studies of Harappan ceramics from the Drishadvati and Sutlej plains during the third millennium BCE — **Prof V N Prabhakar** and **Dr Ravi Kant Prasad**, PDF. Samples from the Harappan sites of Karanpura and Rupnagar were collected for analysis at the Centre's revived Ceramic Petrology lab and for dating at PRL, Ahmedabad
- Exploration of District Kachchh, Gujarat — **Prof V N Prabhakar**, Explorations carried out in the Khadir island, District Kachchh, Gujarat, brought to light two new shell midden sites in the vicinity of Dholavira, confirming a 2019 discovery by an IITGN team, which was dated to 6-8 millennium BP
- Consultancy Work in setting up the Smritivan Museum, Bhuj — **Prof V N Prabhakar**
- Palaeoproteomic approach to identifying animal species use for the worked bone industry at the Bronze Age settlement of Dholavira — **Prof Sharada C V** 2021-2022. External support: Association of Environmental Archaeology
- Multi-element isotopic investigations to reconstruct human-animal interactions at the Indus Civilization site of Dholavira, Gujarat, India — **Prof Sharada C V** 2022-2025. DST-SERB POWER grant
- Dholavira worked bone assemblage: a study of its typology, technology, experimental reproduction and digitization — **Prof Sharada C V** 2021-2023. External support: Indian Council of Historical Research
- Indigenous Cultural Heritage as a facilitator for the Sustainable Development Goals — **Profs Alok Kumar Kanungo** and **Nishaant Choksi** in collaboration with **Profs Claire Smith and Chris Wilson** (Flinders University)
- Western Indian Glass: Mapping Kapadvanj — **Prof Alok Kumar Kanungo**

COLLABORATIVE RESEARCH PROJECTS

- **MoU with Durham**: IIT Gandhinagar and the University of Durham (UK) entered into a Memorandum of Understanding (MoU) for cultural, educational and scientific cooperation. The new agreement encourages mutual cooperation between the University of Durham and IITGN, and allows for robust student and faculty exchange programmes.
- **Collaboration with Flinders University, Nagaland University and Rajasthan Vidyapeeth** for student exchange program and joint fieldwork and experimental archaeology.

EMINENT VISITORS

- **Prof Claire Smith**, Flinders University, Adelaide, South Australia
- **Prof Robin Cunningham**, Durham University, UK to discuss future collaborations with Archaeological Sciences Centre

CENTRE FOR BIOMEDICAL ENGINEERING

The Centre for Biomedical Engineering at IITGN focuses on carrying out cutting-edge research in various areas of biomedical engineering. The Centre has a vibrant interdisciplinary environment for performing state of the art research targeted towards addressing healthcare needs. Despite the challenges due to the pandemic, the Centre's affiliated laboratories continued to advance biomedical engineering research across diverse areas focused on

- Diagnostic/Therapeutic Tools and Techniques
- Automated Rehabilitation and Prosthetic Techniques
- Public Health Techniques

The Centre has been also providing education and training, to develop competence in biomedical engineering, an area with the promise of significant growth.

COLLABORATIONS

The Centre is engaged in collaborative projects with prominent national and international institutes and universities, including Johns Hopkins University, USA; National University of Singapore; Columbia University, New York; University of Chicago, USA; Royal Melbourne Institute of Technology (RMIT), Australia; Indian Institute of Science, Bangalore, India; National Institute of Mental Health and Neurosciences, Bangalore, India; Civil Medical Hospital, Ahmedabad, India; S B B Hospital, Ahmedabad, India; among others.

EVENTS

- **Prof Vineet Vashista** organised a webinar series on "Robotics for Rehabilitation and Elderly Care" from Feb – Apr 2021 at IIT Gandhinagar
- **Prof Himanshu Shekhar** and **Prof Karla P Mercado-Shekhar** chaired the Lightning Round Sessions entitled "Therapeutic Ultrasound" and "Advances in Ultrasound Imaging" at the 180th Meeting of the Acoustical Society of America - Acoustics in Focus, held on Jun 8-10, 2021
- **Prof Himanshu Shekhar** co-organised the "Virtual Workshop on Ultrasound Contrast Agents: Application of Gas-filled Microbubbles in Biomedical Engineering" with **Profs Sameer Dalvi** and **Karla Mercado-Shekhar**, which was sponsored by the Gujarat State Biotechnology Mission, held on Jul 22-23, 2021

PUBLICATIONS AND PATENTS

- During the year 2021-22, the members of the Centre produced 55 journal publications and 8 conference publications, and an approved US patent.
- **Uttama Lahiri, Anirban Dutta**, **Abhijit Das**, "Smart eye system for visuomotor dysfunction diagnosis and its operant conditioning", United States, Patent No.: US10973408B2, Apr 13, 2021

PRODUCTS/TECHNIQUES DEVELOPED

The research groups involved with the Centre have already translated a few technologies in the area of Diagnostic Tools and Techniques. One of these is preclinical drug candidates for H pylori infection and prostate cancer.

CENTRE FACULTY

The Centre for Biomedical Engineering is highly interdisciplinary and has members from various disciplines including Electrical Engineering, Biological Engineering, Mechanical Engineering, Chemistry, Computer Science and Engineering, and Chemical Engineering. Faculty members include:

Prof Uttama Lahiri, Professor and Coordinator of the Centre; **Prof Karla P Mercado-Shekhar**, Assistant Professor and Co-coordinator of the Centre; **Prof Abhijit Mishra**, Associate Professor; **Prof Arup Lal Chakraborty**, Professor; **Prof Ashutosh Srivastava,** Assistant Professor; **Prof Bhaskar Datta**, Associate Professor; **Prof Dhiraj Bhatia**, Assistant Professor; **Prof Himanshu Shekhar**, Assistant Professor; **Prof Iti Gupta**, Associate Professor; **Prof Krishna Miyapuram**, Associate Professor; **Prof Malavika Subramanyam**, Associate Professor; **Prof Mithun Radhakrishna**, Assistant Professor; **Prof Nithin V George**, TEOCO Chair Associate Professor; **Prof Sivapriya Kirubakaran**, Associate Professor; **Prof Ravi Sastri Ayyagari**, Assistant Professor; **Prof Sameer V Dalvi**, Professor; **Prof Sharad Gupta**, Associate Professor; **Prof Sharmistha Majumdar**, Associate Professor; **Prof Sriram Kanvah**, Associate Professor; **Prof Sudipta Basu**, Associate Professor; **Prof Umashankar Singh**, Associate Professor; **Prof Vijay Thiruvenkatam**, Assistant Research Professor; and **Prof Vineet Vashista**, Assistant Professor.

CENTRE FOR CREATIVE LEARNING

The Centre for Creative Learning (CCL) is a space that nurtures scientific temper and the inherent creativity in students and teachers alike. CCL has developed 1000+ unique STEM models and activities and interacted with 10,000+ teachers and 50,000 students across the country. The idea is to immerse oneself in a subject in order to learn it and to do rather than merely read. The Centre aims to overhaul pedagogy by making the lectures engaging, provide experiential learning, foster creativity and innovation with the sole focus on concepts.

EVENTS

3030 EKLAVYA: CCL, in collaboration with CBSE launched 3030 Eklavya Series aimed at implementing the vision set by National Education Policy 2020. The objective was to connect academic curricula to real-life experiences via numerous hands-on activities, projects and models.

Curiosity Program: CCL launched Curiosity program with Uttar Pradesh Govt. (Sarva Shiksha Abhiyan (SSA) UP) working with all the 746 KGBV schools of UP (with around 100 girls from each school) to improve science education. The program aims to widen the horizons of students as well as teachers well beyond the textbooks. As a part of this program CCL will

- develop 100 modules on teaching science in an experiential manner (50 already delivered)
- provide Curiosity Box to all the schools
- online 2 hour sessions twice a week

In collaboration with Science City, CCL will conduct

- STEM demonstration sessions and workshops for visitors at Science City
- DIY STEM kits and videos, books

- Develop Interactive STEAM exhibits and videos
- Tinkering Lab for students
- Capacity building workshops for STEM Teachers
- Research-Development and Companion/Advisory role

Stem boxes in all schools of Gujarat (Sarva Shiksha Abhiyan (SSA)): SSA Gujarat has given funds to CCL IIT Gandhinagar to supply STEM Boxes to 3500 schools in Gujarat along with training the teachers to use them effectively in classrooms.

NEP Focus Group Meeting: Prof Manish Jain has been selected as a member of the National Curriculum Frameworks' National Focus Group on Mathematics Education. He will be playing an important role in the development of a Position Paper on Mathematics Education and Computational thinking

OTHER PROGRAMS AND PARTICIPATIONS

CCL conducted trainings for TGT teachers of JNV at Navodaya Leadership Institute, Foundation programs , Science Awareness Program, Azadi ka Amrit Mahotsav, residential workshop for D.El.Ed (Diploma in Elementary Education), Sparkle Series partnered with the American India Foundation (AIF) for 10,000 Vigyan Jyoti scholars of Class XI from 200 JNVs in India. The CCL also participated in The Great Indian Learning Festival and India International Science Festival. Prof Manish Jain gave a talk at The Great Indian Learning Festival. Along with raising a 10-foot Geodesic ball, the center made a portrait of late General Bipin Rawat using 42,000 dice. The CCL also launched 2020 Cubical Diwali "Cube ke 20 Avatar - Cubical Diwali DIY Paper Lamps" from Dussehra to Diwali.

INVITED TALKS

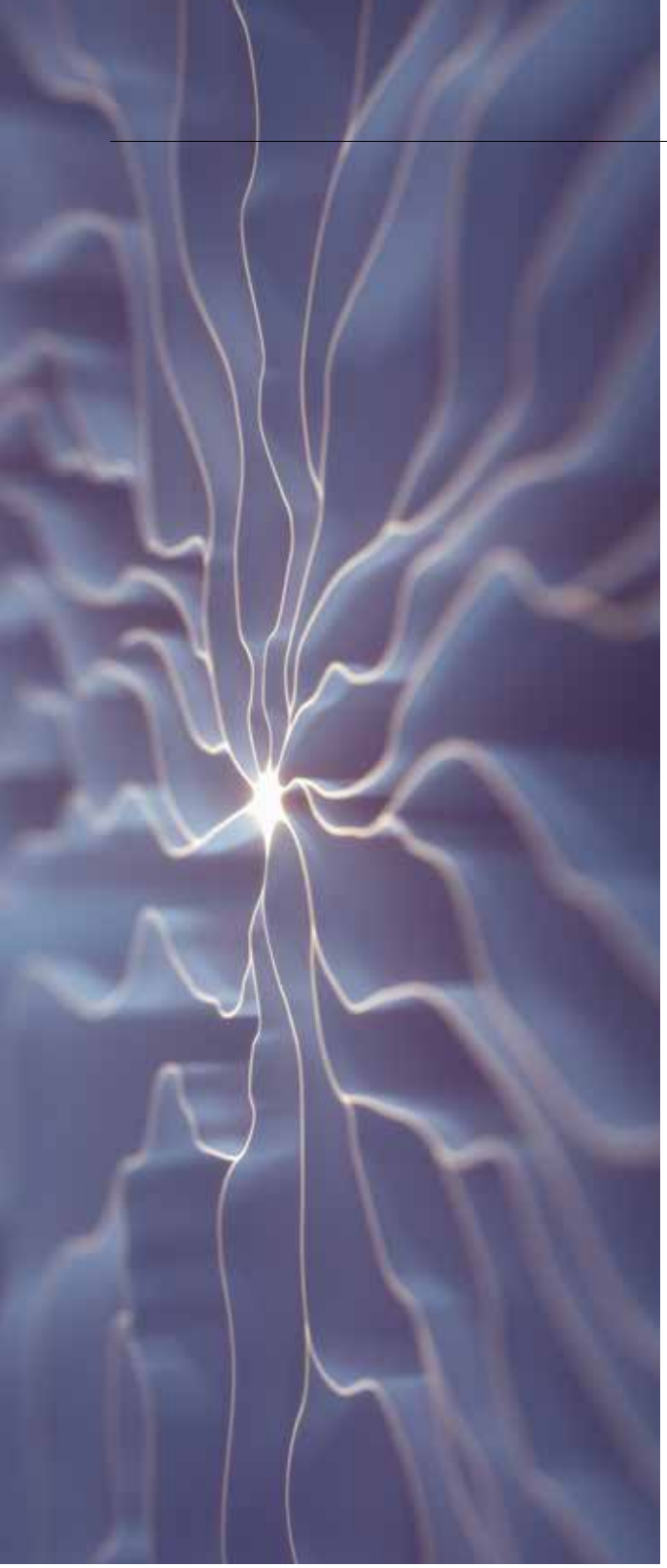
The CCL has conducted numerous talks with students, teachers and professionals to ensure that the message of STEAM, STEM, Experiential Education and Creativity can reach all.

EMINENT VISITORS

- Shri Ramesh Pokriyal, Former Education Minister, GoI
- Shri Dipak Singh, Additional Chief Secretary, Education, Bihar
- Shri Asangba Chuba, SPD, SSA, Bihar
- Shri D B Phatak, Padma Shri Awardee, former Professor, IIT Bombay
- Ms Aatishi Marlena, MLA, AAP
- Shri Chintan Vaishnav, Mission Director for Atal Innovation Mission
- Shri Vijay Nehra, S&T Commissioner, Gujarat
- Dr Vinod Rao, Secretary, Education, Gujarat
- Smt Ratankanvar Gadhvicharan, SPD SSA, Gujarat
- Dr Kuldeep Arya, Collector, Gandhinagar
- Shri Savji Dholakia, Founder and chairman of Hari Krishna Exports

THE CCL TEAM

Prof Manish Jain is the coordinator and **Prof Neeldhara Misra** is the co-coordinator of the Centre. Other team members include **Gaurav Kumar Yadav**, **Jay Thakkar**, **Tapas Hira**, **Dr Sarita Yadav**, **Jyoti Gupta, Ashutosh Bhakuni, Adithi Iyer, Pankaj Godara, Akash Umaraliya**, **Nihar Pandya, Vipul Domadiya, Sajid Rathod, Rakesh Pachaya, Satish Kumar, Dinesh Rathod, Shilpa Bansal, Abhijit Das, Sandip Baraiya, Shanu Dalwadi, Vinod Guttukade**, and **Akhand Jyoti.**



CENTRE FOR COGNITIVE AND BRAIN SCIENCES

The Centre for Cognitive and Brain Sciences at IITGN is well recognized within the country for being the pioneer among the IITs through research activities and academic programs at the Masters's and PhD levels. The Centre also aims to take a leadership role in cognitive science within the country with its interdisciplinary character and excellent student achievements. The Centre's research areas include philosophy of mind, perception, curiosity, attention, learning and decision making, motor control and rehabilitation, and neuro-developmental & neuro-degenerative disorders such as autism and Alzheimer's disease.

The Centre continues to attract top talent, supported by 9 full-time faculty, 38 MSc, and 10 PhD students. The innovative MSc and PhD programs that started in 2013 and 2010 respectively, prepare students for a career in cognitive science research or industry. The Centre's alumni have had successful transitions to academic and industry careers after their training, such as faculty positions at IIT Delhi, IIT Hyderabad, IIT Roorkee, Ahmedabad University, FLAME University, Wellcome Trust Early Career Award, CSRI Postdoctoral Fellowship, Fulbright Fellowship, IIT-DAAD Masters Fellowship, placements at TCS R&D, Shastri Indo-Canadian fellowship, Swiss Government Excellence Fellowship, Marie-Sklodowska Curie Fellowship, etc.

EVENTS

- The Centre organised a seminar on **Precisely timed theta oscillations for memory encoding** by **Dr Ipshita Zutshi**, New York University (NYU) on Jan 25, 2022
- The Centre organised a seminar on **The computational and neural basis of visual metacognition** by **Dr Dobromir Rahnev**, Associate Professor of Psychology, Georgia Institute of Technology on Aug 26, 2021,
- The Centre organised a seminar series on **Behavioral Experimentation in an online world** conducted on Aug 10-13, 2021. **Prof Carolyn McGettigan** from UCL and **Mr Aditya Singh** from IIT Gandhinagar talk about their experiences in conducting behavioural research online. **Prof McGettigan** talked about recruitment platforms and shared tips for conducting studies online, while Mr Singh focused on introducing attendees to open-source software for conducting experiments and collecting data.
- The Centre invited **Rafeeque Mavoor** from the Science and Media Centre of Indian Institutes of Science Education and Research, Pune to conduct a workshop on Scientific Illustration. The 7-day workshop was conducted online from Jul 9-16, 2021. Fifty students from various backgrounds, such as biosciences, psychology, computer science, and archaeology were selected for the workshop.

CENTRE FACULTY

The Centre's faculty consists of **Prof Pratik Mutha**, Jibaben Patel Chair Associate Professor and coordinator for the Centre; **Prof Vineet Vashista**, Assistant Professor and co-coordinator of the Centre, **Prof Jaison Manjaly**, Jasubhai Memorial Chair Professor; **Prof Krishna Prasad Miyapuram**, Associate Professor; **Prof Uttama Lahiri**, Professor; **Prof Meera Mary Sunny**, Associate Professor; **Prof Leslee Lazar**, Assistant Teaching Professor; **Prof Angus McBlane**, Visiting Assistant Professor; and **Prof Jooyoung Kim**, Assistant Teaching Professor.

DESIGN AND INNOVATION CENTRE

The Design and Innovation Centre (DIC) promotes collaborative projects, research and educational initiatives on design and innovation. DIC also nurtures student and faculty initiatives to develop innovative products and solutions through curricular and extracurricular projects, such as talks, seminars, symposia, and workshops.

PROJECTS AND COLLABORATIONS

The DIC provides design consultancy to other disciplines at the institute by assisting in product development and manufacturing. The DIC specialises in humanising technology through usability and aesthetics.

- Wearable glove - a tactile stimulation (For **Prof Leslee Lazar /** Designer **Nirav Patel**) Status: Ongoing. The objective was to design a stimulating glove for two fingers. The design would require the wearer to perform approximately 3 hours of continuous stimulation on the fingertip. While applying this stimulation, the user should be able to perform routine activities. A working prototype is developed for one fingertip.
- Sewage disposal and management at high altitude (for **Prof Pratyush Dayal** / Designer **Nirav Patel**)- Status: Ongoing. The objective of this project is to design a manually operated sewage system for the soldier in the Indian Army who is serving under -20*C to -50*C temperature. In order to create the technology concept, a test setup was developed at the initial stage.
- Hem-Oxy Oxygen concentrator (for **Prof Chinmay Ghoroi** / Designer **Nirav Patel**) Status: Ongoing. A concept of oxygen concentrator was developed with **Prof Chinmay Ghoroi** and the industry team. The aesthetics and functionality of the concentrator were proposed. Detailed drawings and final rendered images of the concept were handed over to the manufacturing industry for fabrication.
- Gait-assisted system, Exosuit (for **Prof Vineet Vashista** / Designer **Nirav Patel**) Status: Ongoing. The design was started when the technology of a wearable gait assisting system was tested. The design mostly focuses on the thigh and calf muscles which are controlled by a motorized backpack. The proof-of-concept has proved to be successful. The product system is under development for optimization and finer details. A medium fidelity prototype will soon be underway.
- One touch doctor, a noninvasive scanner for body vitals (for **Prof Uttama Lahiri** / Designer **Manasi Kanetkar, Nirav Patel**) Status: ongoing. The scanner fits on a fingertip and senses the vitals by passing light through the finger. The enclosure for the electronic components needs to be snuggly fitted on fingers of all sizes and shapes. The proof-of-concept is ready and a few iterations have already been tested in the clinics.
- Design of a new IITGN library and mini library logo (for **Dr T S Kumbar** / Designer **Manasi Kanetkar**) Status: Completed and published. The logo had to represent IIT Gandhinagar and demonstrate freshness and the new thoughts promoted by IITGN.
- Design of Gandhipedia logo (for **Prof Mayank Singh** / Designer **Manasi Kanetkar**) Status: Completed, yet to be published. The logo had to demonstrate the following. 1) Highlight the AI aspect, 2) The name Gandhipedia, 3) One-stop repository for the works of Gandhiji, 4) Image of Gandhiji.
- Set of writing pen and table for autistic children (for **Prof Uttama Lahiri** / Designer **Nirav Patel**) Status: Ongoing. The DIC designed a writing table for autistic children to help a PhD student in collecting the data at an MRI facility. The prototype was used successfully for data collection and has now reached the next stage of translation of this platform innovation into various products.
- A chair setup for eye tracker (for **Prof Uttama Lahiri** / Designer **Nirav Patel**) Status: Ongoing. A VR (Virtual Reality) based tool has been developed to document the response time using an eye tracking set-up. The initial prototype has been tested, validated and modified. More such prototypes are being manufactured to be installed at institutes for data collection.

EVENTS

DESIGN DIALOGUE:

The DIC team started “Design Dialogue”, a series of talks on design and technology. As a part of this series, the Centre invited successful designers to share their experiences with the IITGN community to spark interest among students to explore this interdisciplinary field. Following talks were organised under this series between Apr 2021 - Mar 2022

- Looking at books as an art form & objects, **Aditi Babel**, founder of Aditi Babel Design Studio - Apr 2021
- Design innovation for humanity and sustainability by **Amit Inamdar**, founder director of Zealous Design Solutions, PlusONE Initiative and TheDesignYogi - Aug 2021

- Work in progress by **Prashant Nandiprasad** of Etagi collaborative - Sep 2021
- Script as concept: structure, technique and poetry of the Devanagari alphabet by **Dr Santosh Kshirsagar** - Oct 2021
- New age branding strategies by **Vijaybahu Joshi**, AVP - Head of Experience Design at Reliance Jio – Nov 2021
- Design, modernity and India by **Saurabh Tewari**, Faculty of Design, School of Planning and Architecture, Bhopal - Dec 2021
- Design management by **Dr Ravindra Rajhans**, retired General Manager (Cab Design at Tata Motors - ERC) - Jan 2022
- Research or entrepreneur?? **Aniruddha Joshi**, founder of Atreya Innovations, recipient of the National Startup Award, 2021 in the AYUSH category - Feb 2022
- Innovations for grassroots by **Mr Vinay Reddy**, Sickle Innovations, The National Entrepreneurship Award, 2019 - Mar 2022

TEACHING SEMINAR:

Understanding IPR, and significance of design in IPR by **Yohan Engineer** on Jan 24, 2022

WORKSHOPS:

DIC conducted following workshops for students to make them aware of various aspects of design and nurture the skills that they can employ to visualise and convert their concepts into reality. Each workshop had participation from the community varying from 15-25

- Visualizing through illustrations by **Mr Nirav Patel**, Designer, DIC, Feb 19 2022
- Zentangle art workshop by **Aditya Mehta**, Design Educator and Trend Forecaster, Oct 9, 2021
- The craft of interactive handmade pamphlet by **Aditi Babel**, Founder and head designer at Aditi Babel Design Studio on Oct 30, 2021
- Wrapping- rag (upcycling waste) by **Mr Nirav Patel,** Designer, DIC, Nov 20, 2021
- A natural dye workshop by **Mr Nirav Patel**, Designer, DIC, Sep 2, 2021

DESIGN ORIENTATION SESSIONS:

- Stitch your own cloth: Foundation Program, BTech (batch - 2020) by **Mr Nirav Patel** (4 offline sessions - 240 students)
- Introduction to visual design: Foundation Program, BTech (batch-2021) by **Prof Manasi Kanetkar** (Online session – 250+ students)
- Sketching as a thinking tool; session during Aarohan for postgraduate students by **Prof Manasi Kanetkar** (offline session 100 students)

DIC TEAM

The Centre's faculty includes **Prof Leslee Lazar**, Assistant Teaching Professor and coordinator for the Centre, **Prof Amit Arora**, Assistant Professor and co-coordinator of the Centre, and **Prof Manasi Kanetkar**, Assistant Teaching Professor. **Mr Niravkumar Patel** is the design associate with the Centre

DR KIRAN C PATEL CENTRE FOR SUSTAINABLE DEVELOPMENT

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

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

FOCUS AREAS

- **Water:** Water and wastewater treatment, desalination, safe drinking water production, hydraulics and water resources engineering, water resource research, water-energy systems, river science
- **Pollution & Waste Management**: Air, water and soil pollution, air quality, laser spectroscopy, particle engineering, built environment, low-cost air quality sensors, environmental policy, surface engineering, waste to resource techniques
- **Climate Change**: Climate risks, extreme climatic events, climate variability, food-energy-water security, climate change impacts, critical infrastructures resilience, internal variability, hydrometeorological extremes, physics guided machine learning for hydrological processes, hydrologic modelling
- **Energy**: Fuel cell systems, energy systems, energy conversion and storage, optimization, energy management, organic electronics and LEDs, solar cells, renewable energy, electricity market, smart distribution grid/ microgrids, thermodynamic optimization, smart manufacturing

- **Natural Resources, Wildlife & Ecosystems**: Wildlife conservation, indigenous peoples, social and environmental justice, Himalayan borderlands, Northeast India, natural resources management, environmental archaeology, sustainability modelling, earth surface processes, sustainable stream management

PROGRAMMES

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

ACTIVITIES

Visit of Leh-Ladakh officials*:* A 13-member delegation from Leh and Kargil districts of Union Territory Ladakh visited IITGN on October 13, 2021, to understand low-cost, eco-friendly domestic wastewater management at IITGN and to explore various options of sustainable systems for the treatment of sewage for the extreme cold climate of Ladakh. The delegation included administrative officers and councillors of the Ladakh Autonomous Hill Development Council (LAHDC), elected representatives of Leh and Kargil towns, chairperson of the Block Development Council, executive officers and ward members of Leh and Kargil Municipal Committees, engineers of their Public Health Engineering Department, and urban planner of Ladakh Ecological Development Group (LEDeG). LEDeG, Urban Management Centre (UMC), Ahmedabad and KPCSD facilitated this exposure visit. **Prof Sudhir Kumar Arora**, Professor of Practice in Civil Engineering, hosted the delegates. The delegation was briefed about low-cost sanitation technology, the Root Zone Method (RZM) used at IITGN and also taken for site visits to the Water Treatment Plant and Sewage Treatment Plant. IITGN offered to help the delegation develop appropriate methodology and treatment schemes after field trials, pilot projects and lab studies.

Pilot project on wastewater management: KPCSD supported a pilot project for management of sewage and greywater in rural and peri-urban areas, led by **Prof Sudhir Kumar Arora**, Professor of Practice, Civil Engineering at IIT Gandhinagar. The project proposes a new concept of spiral sewer to overcome high water requirements and steep slopes in gravity sewers. A normal gravity sewer transports sewage from residential areas to STP and requires about 1500 litres of water/ 100 m to run smoothly. The idea is to lay another sewer in reverse direction from STP to residential areas to partly carry treated wastewater back into a normal sewer for flushing, to save fresh water. This is feasible and viable for small pockets or villages. The project follows a holistic approach including innovations such as use of modified traditional and locally available water-wheel for aeration to create aerobic conditions, ensure minimum human intervention or mechanical means for manhole cleaning, and plastic waste use as fillers in HDPE balls to mitigate nuisance of plastic bottles and polythene bags. Thus, the project aims to provide sustainable and green solutions for rural sanitation issues.

Sustainability projects in coursework: 'CE 202: Sustainability and Environment' is a compulsory subject in the curriculum of the undergraduate students of IIT Gandhinagar's Civil Engineering discipline. Some of the KPCSD faculty provided mentoring support to the students who worked on various sustainability related projects including those on wastewater management, electric vehicle charging stations, food waste management and waste segregation among others. This course introduces the concept of sustainability covering several areas such as humanity and environment, the evolution of environmental policy, climate and global change, climate processes, biodiversity and ecosystem functions, physical resources, environmental and resource economics, modern environmental management, systems of waste management, sustainable energy systems, sustainable infrastructure, embodied energy, life cycle, sustainable materials and construction, problem solving and tools of sustainability.

Minor in Sustainable Development: KPCSD announced an interdisciplinary 'Minor in Sustainable Development' for IITGN students from the academic year 2022-23. Students interested in the Minor will be required to take six courses from the list of selected courses. The courses encompass the domains of water, energy, environment/ biodiversity/ earth systems, climate change and pollution and waste management, given the interdisciplinary character of sustainability.

EVENTS

E-Seminar on **Advancing frontiers of knowledge on Climate Action: Cross sectional approaches for mitigation and resilience**: The seminar featured various sessions and highlights of studies on the impact

of climate change on critical infrastructure and energy-environment-economy implications of transportation, which were jointly undertaken by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), IIT Gandhinagar (IITGN) and PricewaterhouseCoopers (PwC). The studies were undertaken as a part of the project "Supporting the Institutionalisation of Capacities on Climate Change Studies and Actions" (ICCC), implemented by the Ministry of Environment, Forest and Climate Change (MoEFCC) and GIZ. The project aims to develop capacities in climate protection, resilience, Nationally Determined Contributions (NDC) implementation, and transdisciplinary issues. Nearly 100 scientists, scholars and practitioners attended the seminar held on Oct 20, 2021, which was hosted by **Prof Vimal Mishra**, Associate Professor, Civil Engineering and Earth Sciences and Co-Coordinator of Dr Kiran C Patel Centre for Sustainable Development (KPCSD).

IBM Design Thinking Workshop*:* KPCSD, in collaboration with IIT Gandhinagar Innovation and Entrepreneurship Centre (IIEC), organised a Design Thinking Workshop by IBM India Software Labs on December 8, 2021. The event explored potential areas of partnerships. Six teams, each of five students, faculty and IBM representatives, participated in brainstorming sessions to identify potential environmental or climate change-related challenges.

Sustainability Seminar Series (SSS): The Centre organised eight e-seminars between June 2021 through March 2022 as part of the Sustainability Seminar Series. The webinars covered topics related to climate change, energy, food security, natural resources conservation, environmental and human health by speakers from renowned organisations. Nearly 800 people attended the webinar series from India and several locations across the globe, such as Antigua and Barbuda, Australia, Bangladesh, Canada, Chile, China, Germany, Indonesia, Japan, Korea, Libya, Nepal, Pakistan, Singapore, Switzerland, Taiwan, UAE, UK, and the USA. Details of the e-seminars organised are as follows:

- **Dr Michael White**; Senior Editor for Nature; Publishing in Nature: A climate science perspective
- **Prof Matthew Huber**; Professor, Earth and Atmospheric Sciences, Purdue University; Through a model Darkly: Insights into the dynamics of warm climates, past and future
- **Mr Anand Kumar**; Professor of Practice, Electrical Engineering, IIT Gandhinagar; Demand-side management for a sustainable energy future
- **Prof Matti Kummu**; Associate Professor, Department of Built Environment, Aalto University; Opportunities towards sustainable food futures
- **Mr Vivek Menon**; Founder and Executive Director, Wildlife Trust of India; Conservation: The art of possible
- **Prof Michael Bergin**; Sternberg Family Professor of Civil and Environmental Engineering, Duke University; Low-cost sensors and data analytics: The future of improving environmental and human health
- **Ms Disha Shetty;** Reporter, Fuller Project; Communicating impacts of Climate Change on communities around India
- **Dr Yogesh Gokhale;** Senior Fellow and Area Convenor, Centre for Forest Management and Governance, Land Resources Division at The Energy and Resources Institute (TERI), New Delhi; Governance of Biodiversity and other Natural Resources in India

ANNOUNCEMENT

IIT Gandhinagar was featured in the report **Universities facing Climate Change and Sustainability** commissioned by **Körber-Stiftung** in preparation for the Global University Leaders Council Hamburg 2021

Universities play a crucial role in climate action and sustainable development through their practices and teaching, research, and innovation initiatives. The study analyses and compares engagement of higher educational institutions across the world in these domains, presents cross-national lessons learned and recommendations for future action. Country cases in the report covered seven countries, including Brazil, Germany, India, Japan, South Africa, the United Kingdom and the United States of America. A case study from the Indian Institute of Technology, Gandhinagar was included in the study. For more details on the study, please click here: https://csd.iitgn.ac.in/announcements/

CENTRE FACULTY

The Centre's faculty consists of **Prof Achal Mehra**, Visiting Professor and Coordinator of the Centre; **Prof Vimal Mishra**, Professor and Co-coordinator of the Centre; **Prof Ambika Aiyadurai**, Assistant Professor; **Prof Sudhir Kumar Arora,** Professor of Practice; **Prof Nipun Batra,** Assistant Professor; **Prof Atul Bhargav**, Associate Professor; **Prof Udit Bhatia**, Assistant Professor; **Prof Rajendra Bordia,** Guest Professor; **Prof Arup Lal Chakraborty**, Professor; **Prof Sharada Visweswara Channarayapatna,** Assistant Professor; **Prof Hari Ganesh,** Assistant Professor; **Prof Auroop R Ganguly,** Guest Professor; **Prof Chinmay Ghoroi**, B S Gelot Chair Professor; **Prof Vikrant Jain**, Professor; **Prof Anirban Mondal,** Assistant Professor; **Prof CN Pandey**, Visiting Professor; **Prof Sameer Patel,** Assistant Professor; **Prof Naran Pindoriya**, Associate Professor; **Prof Sudhanshu Sharma**, Assistant Professor; **Prof Rishi Narain Singh,** Guest Professor; **Prof Jaichander Swaminathan**, Kanchan and Harilal Doshi Chair Assistant Professor; and **Prof Jimmy Thomas,** Guest Professor.

CENTRE FOR SAFETY ENGINEERING

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

- Undertake research and consultancy projects to ensure safe and accident-free society
- Teach courses on safety
- Address safety issues in the country through science based research
- Disseminate knowledge related to safety through conferences, workshops/symposia, competition to enable safety professionals to keep abreast of current trends
- Training staff and students on safe working practices in all aspects of IITGN's operations such as labs and event organization
- Establish Academia Industry relations to conduct joint research and funding for the projects

Faculty members have undertaken several research projects along with their undergraduate and postgraduate students. Three Master's students under **Prof Gaurav S** completed their MTech thesis on topics like (a) Quantitative analysis and understanding of building fires in India, (b) Characterization of fire behavior inside non-AC rail coach, and (c) Characterization of fire behavior in public transport buses. **Prof Gaurav Srivastava** and **Dr Pravinray Gandhi,** Guest Professor, IITGN published a book titled **Performance of combustible facade systems used in Green Building Technologies under Fire** which covers some fundamental aspects of the phenomena of fire in facade systems as well as detailed case studies of full-scale fire experiments performed at IITGN.

The Centre arranged a two-day workshop from Dec 29-30, 2021 on **Process Hazard Analysis for Chemical Industries** (PHA) for plant practitioners, engineers, regulators and policy makers of Chemical industries. Industry people from various chemical industries joined the workshop. Workshop was conducted by **Mr G Vishwanathan**, former DGM, IPCL, Vadodara and **Prof Chinmay Ghoroi**.

Industry leader in Passive fire protection HILTI is partnering with IITGN for conducting **research-based Firestops to create local codes and standards**

CENTRE FACULTY

The Centre's faculty include **Prof Chinmay Ghoroi**, B S Gehlot Chair Professor and the coordinator for the Centre; **Prof Gaurav S**, Dr Vilas Mujumdar Chair Associate Professor and the co-coordinator of the Centre; **Mr R A Venkitachalam**, Centre Advisors; and **Dr Pravinray Gandhi**, Guest Professor.

EXTERNAL AFFAIRS

MoUs

IITGN has been constantly building strong and mutually beneficial relationships with internationally renowned academic institutions and non-academic organisations. Several partnerships forged in the year 2021-22 that will benefit the students and the faculty.

PARTNERSHIP WITH NIT SIKKIM AND NIT HAMIRPUR

IITGN has signed Memoranda of Understanding with NIT Sikkim (NITS) and NIT Hamirpur (NITH) to facilitate student exchange, academic cooperation, and research collaboration among faculty members of both the institutes. Selected meritorious students of both the NITs can now be a part of the IITGN-SRIP, study a semester at IITGN, and apply for the Start Early PhD Programme at IITGN. Academic and research collaboration between faculty members will also be facilitated.

PARTNERSHIP WITH DURHAM UNIVERSITY

IITGN and the University of Durham, UK have entered into a Memorandum of Understanding (MoU) on Nov 17, 2021, for cultural, educational and scientific cooperation. The MoU was signed by Prof Claire O'Malley, Pro-Vice-Chancellor (Global), the University of Durham and Prof S P Mehrotra, Professor-in-Charge (External Relations), IITGN, during a virtual ceremony. This new agreement will facilitate students, faculty, and knowledge exchange between both institutions. Immediately after the signing of the MoU, the two institutions hosted a joint seminar on "Understanding the challenges of world heritage sites and the role of Archaeology in the global context".

COLLABORATIONS

IITGN has entered into a Memorandum of Understanding (MoU) with the **Climate Change Department, Government of Gujarat**, on Feb 21, 2022, to forge a strategic partnership for the development of climate change policy and a roadmap for net-zero by 2070 for Gujarat. Another agreement was signed with the **Directorate of Technical Education, Gujarat and the Government of Gujarat**, on Jan 05, 2022, to build a strategic partnership in the area of educational setup of external student exchange programmes at IITGN for students of Government Engineering Colleges in Gujarat. The Institute has also inked an MoU with the **Gujarat Council of Science City** on Feb 23, 2022, to promote STEM education and creativity.

INTERNATIONAL

ORGANISATION / INSTITUTION	OBJECTIVE
Prof A V Anilkumar, Nashville, Tennessee, USA	To institute Smt Amba and Sri V S Sastry Chair
University of Durham, UK	To promote cultural, educational and scientific cooperation
Maker Bhavan Foundation, California, USA	To implement several courses related to soft skills developed by world-renowned experts as part of the Donor's Center for Essential Skills

NATIONAL

ORGANISATION / INSTITUTION	OBJECTIVE
North South University (NSU) Bangladesh	To promote interaction and collaboration between the faculty, staff and students of the two institutions. South Asian Graduate Scholar Fellowships for students from NSU
National NIT Sikkim	Exchange of students and academic and research collaborations
NIT Hamirpur	Exchange of students and academic and research collaborations
Ingersoll Rand (India) Limited	To provide a one-time funding under CSR for supporting IITGN in providing laptop devices to needy students
I-Hub Foundation for Cobotics (IHFC)	To collaborate for investment in research and development for the innovation projects
Directorate of Technical Education (DTE), Government of Gujarat	To forge strategic partnership in the area of educational setup by external student exchange programme at IIT Gandhinagar for the students of the Government Engineering Colleges in Gujarat
Climate Change Department, Government of Gujarat	To forge strategic partnership for development of climate change policy and roadmap for Net Zero by 2070 for Gujarat
Gujarat Council of Science City, Ahmedabad	To enter into collaborative relationship for furthering the common interests of promoting creativity and STEM learning among students and youth

IIT GANDHINAGAR RESEARCH PARK

The IIT Gandhinagar Research Park seeks to push the boundaries of innovation and research by fostering a strong connection between industry and academia. Industries can set up their offices at the IITGN Research Park to carry out R&D activities. This allows them to be part of a vibrant community and gain access to R&D professionals, students and state-of-the-art R&D infrastructure at IITGN.

CONSTRUCTION OF THE RESEARCH PARK

The construction of the Research Park is completed. Initially the startups incubated at IIEC started occupying the space. Subsequently the existing companies working at existing spaces of IITGN will move to the permanent buildings of the Research Park.

COMPANIES AT IITGN RESEARCH PARK

A total of 11 companies are operating from the IITGN Research Park as on Mar 31, 2022:

Name of Company	Area currently occupied (sq ft)	Area of Interest
Gujarat Urja Vikas Nigam Limited (GUVNL)	1500	Electric Power
Win Foundations	504	Water and Sanitation
DP Pulveriser Industries	130	Manufacturing
NASSCOM	2000	IoT and IT
PanIIT Alumni Reach For India Foundation (PARFI)	160	Skill Development
Havi Elements	180	Robotics
InfyU Labs	160	Agritech
KriGen Pharmaceuticals	260	Pharmaceuticals
Everest Instruments	130	Engineering/ Instrumentation
Redpine Signals (Ceremorphic)	355	Chipset and system level products in AI space
Habitel Technologies	130	Health-tech

A total of 6 companies are exited as on Mar 31, 2022

Name of Company	Area occupied (sq ft)	Area of Interest
Jay Chemicals	260	Speciality Chemicals
Tawata Technologies	130	Specialty Chemicals
Optimized Solutions Limited	180	Electronics and Embedded System
Central Public Works Department (CPWD)	355	Construction technologies and housing
Pal Rematerials	130	Materials Properties
BBC	260	Data and Media

STATUTORY BOARD OF RESEARCH PARK

Prof Sudhir K Jain, relinquished his office as Director of IIT Gandhinagar on Jan 3, 2022. Consequently, he resigned as a Director of IIT Gandhinagar Research Park. In the meeting of the Board of Director of IIT Gandhinagar Research Park, held on Feb 23, 2022, **Prof Amit Prashant**, the Officiating Director of IIT Gandhinagar was appointed as Chairman of the Board of IIEC.

ADVISORY COUNCIL

Shri Ashank Desai, Chairman, Mastek took over as the Chairman of the Advisory Council of IIEC and IIT Gandhinagar Research Park. The company expressed gratitude for the support offered by the outgoing Chairman **Shri Kris Gopalakrishnan**, co-founder of Infosys Technologies.

IITGN INNOVATION AND ENTREPRENEURSHIP CENTER (IIEC)

During the initial phase of the nationwide lockdown, a few of the startup companies used their skills and resources to try to develop products such as ventilators and sanitization systems. A total of 15 startups were supported by IIEC under incubation and pre-incubation programmes during the year FY 2020-21. 20 additional startups were supported through programs like High Growth Ventures (HGV) in turbulent times and Launchpad 2020. Besides this, the IIEC helped three of the incubated startups to receive seed funding of around Rs 36 lakhs during FY 2020-21 and Rs 23 Lakh in 2021-22. The IIEC also provided seed funding of Rs 25 Lakh to one startup in 2021-22

ACHIEVEMENTS OF THE START-UPS

- **MiCoB**, a young startup owned by IITGN alumni and incubated at IIT Gandhinagar Innovation and Entrepreneurship Center (IIEC), has raised USD 0.5 million in a seed round from 3Lines Venture Capital, a venture capital firm from Denver, Colorado, USA. The startup provides speedy, higher quality, and relocatable 3D concrete printing solutions for various construction segments, including military, residential, commercial, infrastructure, and architecture.
- **Dr Chandan Kumar Jha**, co-founder at Galanto Innovations and our PhD student, received the INAE Young Innovator & Entrepreneur Award 2021. **Dr Jha** also won at National Bio Entrepreneurship Competition (NBEC-2020) under the Student Team Innovation Category and received a grant of Rs 3 Lakhs.
- **Necesario Innovations (Snapper)** and **MiCob** received seed grants of Rs 23 lakhs and Rs 20 lakhs respectively for their startup idea. **Imtiyaz Ansari**, founder of Necesario Innovations (Snapper) received the 'Young Achievers Award 2020' by Indian Achievers Forum.
- **InfyU Labs**, an agritech startup pre-incubated at the IIEC and supported under the Nidhi Prayas programme, has raised Rs 1.8 crores in a seed round from Indian Angel Network (IAN). The company, currently part of IITGN Research Park, specialises in creating portable devices that determine the internal quality of fresh fruits without cutting them open. InfyULabs was runner up under the 'Emerging Agri Innovator Category' at the 3rd FICCI Awards for Agri startups.
- **KrsikX India LLP**, part of pre-incubation program was recognized for their solution of increasing the shelf life of farm produce under SOLVED challenge organized by the Ministry of Youth Affairs and sports in association with United Nations Volunteers and UNDP - United Nations Development Program.

Some of the key programmes conducted under the aegis of the IIEC during the period:

NIDHI PRAYAS PROGRAMME

The IIEC received funds of Rs 156 lakhs for implementing the Nidhi Prayas programme for the year 2020-21 and 2021-22. Under this programme, an innovator/team/ startup is provided with the funding support of up to Rs 10 lakhs for converting the idea into a prototype. Out of the total budget, Rs 50 lakhs are available for prototyping grant and Rs 10 lakhs for operational expenditure.

Ten teams were recommended for support under the programme. The details are mentioned below:

Number of teams recommended for support	Number of teams Joined	Total prototyping grant recommended (in Rs)	Amount released in first installment (in Rs)
10	8	48 lakhs	31.4 lakhs

The selection process of the teams under the second call is currently underway.

NIDHI SEED SUPPORT PROGRAMME

The IIEC received a sanction of funds worth Rs 10.50 crores from the Department of Science and Technology, Government of India under the Nidhi Seed Support Programme. The first installment of Rs 2.1 crores has been received. The funds will be utilised to support promising startups incubated at the IIEC by providing them seed funding to the order of Rs 25 to 50 lakhs.

On the recommendations from DST under NIDHI4COVID2.0, a special drive initiated by National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology (DST), Government we supported Airth Research Private Limited, a start-up company working in the area of anti-microbial air purifier. The total financial support recommended for the start-up was Rs 50 lakhs (comprising Rs 25 lakh as grant and Rs 25 lakhs as loan) from the Nidhi Seed Support funds available with the IIEC.

LAUNCHPAD

LaunchPad is an initiative for final-year students of the Institute to provide them with an opportunity to try their idea with the support from the IIEC. Students get a platform where they validate their start-up idea and receive mentoring and support from the IIEC. Student teams are also provided with product development funding support and a fellowship to cover sustenance. Two teams comprising five students are working on their ideas under the first edition of the programme started in Jul 2021.

INTELLECTUAL PROPERTY CLINICS

With an aim to guide students, faculty and research staff on various aspects of Intellectual Property (IP), the IIEC

has started an initiative called 'Intellectual Property Clinic'. The first IP Clinic was organised on Jul 3, 2021, with **Mr Nilesh Pandit**, IPR Lead, Tata Consultancy Services (TCS). **Dr Malathi Lakshmikumaran**, Executive Director and Practice Head, Lakshmikumaran & Sridharan Attorneys conducted the second IP Clinic on July 10, 2021.

ENTREPRENEURIAL MINDSET 101

The IIEC conducted 'Entrepreneurial Mindset 101'- an online mentorship programme for students interested in entrepreneurship. The programme was conducted between Apr 30 and June 2, 2020, to equip students with the fundamentals of the startup world. 23 BTech, MTech, MA and PhD students completed the programme. The students also had the opportunity to interact with a cross-section of entrepreneurs, including some of the IITGN startups from earlier batches.

DEVELOPING HIGH GROWTH VENTURES IN TURBULENT TIMES

In Aug 2020, the IIEC started an intensive three-month programme on Developing High Growth Ventures in Turbulent Times. Out of a total 51 applications, 14 teams were selected to receive mentorship from successful entrepreneurs, business leaders and technologists. The programme included guest lectures and focused on one-to-one mentoring by a very distinguished panel of experts.

IDE 2.0 (INNOVATION DRIVEN ENTREPRENEURSHIP) PROGRAMME

With a commitment to develop a culture of innovation and entrepreneurial spirit and to bring out creativity, innovation, and entrepreneurial attitude among students, the IIT Gandhinagar IIEC and Entrepreneurship Initiative (EII) of IITGN started Innovation Driven Entrepreneurship IDE. This initiative provides a platform for our students to propose innovative and creative ideas that may lead to entrepreneurial venture creation. The promising ideas/innovation/startup will be further supported for advancement and incubation. The fourth edition was announced in March 2022.

Twelve teams comprising 26 students applied for the program. Finally, 7 teams comprising 13 students were shortlisted for an entrepreneurship boot-camp proposed at Bangalore for around a week's duration during May 16-22, 2021. The selected teams visited a number of startup companies, Investors, MNCs and IITGN alumni in Bangalore.

HAVI AT THE STANFORD SEED PROGRAMME

Havi, a consumer electronics and robotics toys start-up from IIT Gandhinagar Research Park, is one of the 90 start-ups selected from across the globe for the prestigious Stanford Seed programme by Stanford Graduate School of Business for the current year. Havi designs sustainable and fun technology products that help learn and create robotics, IoT, electronics, and other STEAM projects.

MENTORSHIP PROGRAMMES BY IIEC

During the quarter, **Shri Kamalesh Dwivedi**, highly-regarded business leader, investor and mentor-in-residence at IIT Gandhinagar Innovation and Entrepreneurship Center, conducted the following programmes for the Institute community: Critical Success Factors for Early-stage Start-ups on Jan 06, 2022, Fundraising Masterclass on Jan 10, 2022, and Business Communication for Start-ups on Jan 12, 2022.

SHORT COURSE ON BUILDING EARLY STAGE STARTUPS AND VALUATIONS BY MR B V JAGADEESH

This was the fourth edition of this highly sought after and in-depth program conducted during May 3-7, 2022. A total of 70 participants attended the program including about 20 outstation participants.

FACULTY STARTUPS

The IIEC helped the Institute in formulating the Faculty Incubation Policy. After the approval of the faulty startup policy, a few faculty members initiated entrepreneurial activities. The following faculty members have initiated entrepreneurial activities.

- **Prof Atul Bhargav** has received permission from IITGN to incorporate a startup company and the company incorporation process is at the final stage. The startup focusses on developing technologies for providing decentralised energy solutions using fuel cells. The IIEC has recommended the company for support under Nidhi Prayas Program and also under the Govt of Gujarat Seed funding program.
- **Prof Sivapriya K** has received a Biotechnology Ignition Grant (BIG) grant of Rs 50 Lakh from BIRAC for one of her innovation.

STATUTORY BOARD OF IIEC

Prof Sudhir K Jain, relinquished his office as Director of IIT Gandhinagar with effect from Jan 3, 2022. Consequently, he resigned as a director of the IIEC. In the meeting of the Board of Directors of the IIEC, held on Feb 23, 2022, Prof Amit Prashant, Officiating Director IIT Gandhinagar was appointed as Chairman of the Board of the IIEC.

ADVISORY COUNCIL

Shri Ashank Desai, chairman Mastek, took over as the Chairman of the Advisory Council of the IIEC and the IIT Gandhinagar Research Park. The Company expressed gratitude for the support offered by the outgoing Chairman Shri Kris Gopalakrishnan, co-founder of Infosys Technologies.

AWARDS AND RECOGNITIONS

FACULTY AWARDS AND RECOGNITIONS

Following faculty members of IITGN received special awards and recognition from external bodies during 2021-22.

Prof Ashutosh Srivastava, Assistant Professor in Biological Engineering has been selected for the prestigious DBT Ramalingaswami Re-entry Fellowship for the year 2020-21 by the Department of Biotechnology, Ministry of Science and Technology, Government of India.

Prof Rosa Maria Perez, a Guest Professor in Humanities and Social Sciences discipline, has been conferred the Medal of Scientific Merit on June 28, 2021, as part of Ciência 2021 - the annual meeting of Portuguese science, technology and innovation.

Prof Manish Kumar, Assistant Professor, Civil Engineering, IITGN, has been honoured with the Commendation Card by Indian Army, for providing overall leadership and guidance in developing 3D printed defence structures for the Indian Army. This work was a part of his student **Dr Shashank Shekhar's** PhD thesis.

Prof Vimal Mishra, Associate Professor, Civil Engineering, has been selected for the 2021 AGU's 'Devendra Lal Memorial Medal'. As an awardee, **Prof Mishra** will also become an AGU Fellow. He has also been appointed as an Editor of Earth's Future, a journal of the American Geophysical Union, for the period July 2021 to Dec 2024.

Prof Neeldhara Misra, Assistant Professor, Computer Science and Engineering, has been selected as an Associate of the Indian Academy of Sciences, Bengaluru.

Prof Michel Danino, Visiting Professor, HSS, has been selected as a member of the National Steering Committee for the development of four National Curriculum Frameworks (NCFs) focusing on all the recommendations of National Education Policy (NEP) 2020.

Prof Sudhir K Jain, Director, was bestowed with the prestigious Padma Shri award for Science and Engineering, for the year 2020, by President of India Shri Ram Nath Kovind on Nov 08, 2021.

Prof Amit Prashant, Professor, Civil Engineering, and Dean, Research and Development, has been selected for the prestigious Gopal Ranjan Technology Award 2021 by IIT Roorkee, for his significant research contributions in the field of civil engineering, ranging from fundamental soil mechanics to applied work on various geotechnical structures.

Prof Atul Dixit, Associate Professor, Mathematics, has won the prestigious Swarnajayanti Fellowship in the category of Mathematical Sciences for the year 2020-21, for his research project that broadly lies at the interface of Analytic Number Theory and Special Functions.

Prof Vimal Mishra, Associate Professor, Civil Engineering, has been elected as a Fellow of the prestigious National Academy of Sciences, India (NASI), in recognition of his noteworthy research contributions in advancing the understanding of land-atmospheric coupling and its role on hydro-climatic extremes.

Prof Manish Jain, Teaching Professor and Head, Centre for Creative Learning (CCL), has been selected as a member of the National Curriculum Frameworks' National Focus Group on Mathematics Education. He will play a pivotal role in the development of a Position Paper on Mathematics Education and Computational thinking.

Prof Himanshu Shekhar, Assistant Professor, Electrical Engineering, has been recognised as an Expertscape Expert in "Contrast Media". With this, he has been rated as within 1% of world experts in the field. Prof Shekhar has also been awarded the Innovative Young Biotechnologist Award for the year 2020-21 by the Department of Biotechnology, Ministry of Science and Technology, Government of India.

Prof Uttama Lahiri, Professor, Electrical Engineering has been selected for the prestigious Tata Innovation Fellowship for the year 2021 by the Department of Biotechnology, Ministry of Science and Technology, Government of India.

Prof Abhishek Bichhawat, Assistant Professor, Computer Science & Engineering has been selected for the prestigious INSPIRE Faculty Fellowship for the year 2020-21 by the Department of Science & Technology, Ministry of Science & Technology, Government of India.

Prof Sivapriya Kirubakaran, Kankuben Bakshirambhai Gelot Chair Associate Professor, Chemistry and Dean Student Affairs, has been awarded 'Dr R Gopalan Endowment Prize 2022' by Madras Christian College, Chennai, on Mar 28, 2022.

Prof Deepak Singhania, Assistant Professor, HSS, along with his co-researchers **Anupam Sharma**, PhD student, IITGN and **Prof Soledad Prillaman** from Stanford University, have been selected for the 'Azim Premji Funding Programme 2021'.

Prof Ambika Aiyadurai, Assistant Professor, Humanities and Social Sciences, has received a research grant from the Indian National Science Academy (INSA) for the project 'History, Science and Technology of Wildlife Hunting & Trapping in Arunachal Pradesh'.

FACULTY EXCELLENCE AWARDS

The Institute conferred Faculty Excellence Awards to the following four faculty members:

PROF SHANMUGANATHAN RAMAN

FOR EXCELLENCE IN RESEARCH

in recognition of his contributions and achievements in research including publications in high-impact international journals and conferences, especially with his students.

PROF DILIP SRINIVAS SUNDARAM

FOR EXCELLENCE IN TEACHING

in recognition of his outstanding contributions, achievements and innovations in teaching.

PROF KRISHNA KANTI DEY

FOR EXCELLENCE IN INSTITUTION BUILDING

in recognition of his contributions and achievements in Institution building activities especially as Associate Dean, Postgraduate Studies from 2018 to 2021.

PROF UMASHANKAR SINGH

FOR EXCELLENCE IN OUTREACH ACTIVITIES

in recognition of his selfless efforts and voluntary contributions in developing and managing the COVID-19 RT-PCR testing facility on campus to help the Government of Gujarat in providing timely COVID-19 testing to the general public over a long period during the pandemic.

FACULTY CHAIR POSITIONS

Several well-wishers of the Institute have established endowed chair positions at IITGN to reward excellence and help retain outstanding faculty. The following five faculty members were awarded Faculty Chair positions.

KANKUBEN BAKSHIRAMBHAI GELOT CHAIR

PROF SIVAPRIYA KIRUBAKARAN
Associate Professor in Chemistry

DR DINESH O SHAH CHAIR

PROF KABEER JASUJA
Associate Professor in Chemical Engineering

SMT AMBA AND SRI V S SASTRY CHAIR

PROF NEELDHARA MISRA
Assistant Professor in Computer Science & Engineering

DR VILAS MUJUMDAR CHAIR

PROF GAURAV SRIVASTAVA
Associate Professor in Civil Engineering

SMT MEERA AND PROF GIRISH K SHARMA CHAIR

PROF SAMEER V DALVI
Professor in Chemical Engineering

LIST OF OTHER FACULTY CHAIRS AT IITGN

Name of the Faculty Chair	Name of the Donor	Current Occupant
JASUBHAI MEMORIAL CHAIR	Mr Maulik Jasubhai	Prof Jaison A Manjaly, Professor, Philosophy & Cognitive Science
B S GELOT CHAIR	Shri Gordhanbhai B Gelot*	Prof Chinmay Ghoroi, Professor, Chemical Engineering
TEOCO CHAIR	Mr Atul Jain	Prof Nithin V George, Associate Professor, Electrical Engineering
MAULANA ABUL KALAM AZAD CHAIR	Mrs Hamida Banu Chopra	Under this Chair, eminent scholars of Urdu are invited as visiting professors or scholars-in-residence for lectures, seminars and other scholarly endeavours
KANCHAN AND HARILAL DOSHI CHAIR	Mr Navin Doshi and Mrs Pratima Doshi	Prof Jaichander Swaminathan, Assistant Professor, Mechanical Engineering
N RAMA RAO CHAIR	Mr N R Narayana Murthy	Prof Anirban Dasgupta, Professor in Computer Science and Engineering
JIBABEN PATEL CHAIR IN ARTIFICIAL INTELLIGENCE	Dr Jagdish Patel	Prof Shanmuganathan Raman, Associate Professor in Electrical Engineering jointly with Computer Science & Engineering
JIBABEN PATEL CHAIR	Dr Jagdish Patel	Prof Pratik Mutha, Associate Professor in Biological Engineering
IRMA AND USHAKANT THAKKAR CHAIR	Dr Ushakant Thakkar	The Chair will enable teaching of courses on Sanskrit language and literature

*Deceased

STUDENTS' AWARDS AND RECOGNITIONS

- Three PhD scholars - **Abhishek Chowdhuri** from Physics, **Deepshikha Ghosh** from Biological/Chemical Engineering, and **Prasanth Nair** from Mechanical Engineering - have been awarded the prestigious Prime Minister Research Fellowship (Dec 2020 cycle).
- **Dr Chandan Kumar Jha**, a PhD alumnus and now a postdoctoral fellow at IITGN, has won the prestigious INAE Young Innovator & Entrepreneur Award 2021 for developing a highly sensitive and reliable instrumented glove that is helpful in faster therapy and rehabilitation of patients suffering from disabilities due to stroke and cerebral palsy.
- As many as 11 PhD scholars from IITGN have been selected for the prestigious Prime Minister's Research Fellows (PMRF) scheme in the May 2021 cycle. These PhD scholars include **Alok Kumar Thakur**, Earth Sciences; **Gokul Krishna B**, Physics; **Indra Mani Tripathi**, Earth Sciences; **Malay Vyas**, Mechanical Engineering; **Rishiraj Adhikary**, Computer Science and Engineering; **D Sharda Devi**, Electrical Engineering; s**Shruti Singh**, Computer Science and Engineering; **Suraj Shamrao Borate**, Mechanical Engineering; **Surbhi Khewle**, Chemical Engineering; **Uthara Brahadeesh**, Cognitive Science; and **Vivek Kumar Singh**, Materials Engineering.
- Three research scholars from IITGN have won Gandhian Young Technological Innovation Awards 2021. **Harini Gunda,** a PhD scholar of Chemical Engineering, has won SRISTI-GYTI Award 2021 for developing 'Novel Boron Nano-additives for Improving the Performance of Solid Propellants'. **Yogesh Singh**, a PhD scholar of Mechanical Engineering, and **Dr Chandan Kumar Jha**, a PhD alumnus and now a postdoctoral fellow in Electrical Engineering, have won the BIRAC SITARE-GYTI Appreciation Awards 2021 for developing 'Wearable Interactive Parkinson's disease Assistive Device (WIPAD)' and 'An Intelligent Hand Rehabilitation and Assessment System for Stroke Patients', respectively.
- Four of IITGN students - **Deep Dave** (Mechanical Engineering), **Dhruv Menon** (Materials Engineering), **Eshika Pathak** (Electrical Engineering), and **Praveen Venkatesh** (Electrical Engineering) - have been selected for the prestigious 'O P Jindal Engineering and Management Scholarship (OPJEMS) 2021'.
- **Camellia Biswas**, a PhD scholar of Humanities and Social Sciences, has been selected for the 'Platinum Jubilee Women's Leader Project' by the British Council
- **Saagar Parikh**, a BTech third year student has been selected for the financial aid of Rs 1.90 Lakh from Small Industries Development Bank of India (SIDBI) under the scheme called 'Financial Aid to COVID-19 affected Meritorious Students'.
- PhD students **Jyotishraj Thoudam** and **Krishna T** have individually won the 'AWSAR Award for Best Story'

EXCELLENCE AWARDS TO STAFF

Following staff members were awarded Staff Excellence Awards for the year 2021-22 by **Prof Amit Prashant**, Director IITGN, on the occasion of 73rd Republic Day on Jan 26, 2022. Through these awards, the Institute formally recognises the sustained devotion and exemplary service of its employees.

MS SASWATI ROY

Assistant Registrar

For her extraordinary services in managing functioning of the Academic office meticulously and systematically.

MS SHIVANGI BHATT

Communication and Media Officer

For her outstanding and proactive role towards coordinating the communications and media relations of the Institute.

DR NAMRATA SAXENA

Counselor

For her exemplary contribution as a counselor towards the emotional and psycho-social well-being of the students.

MS KAMINI PATEL

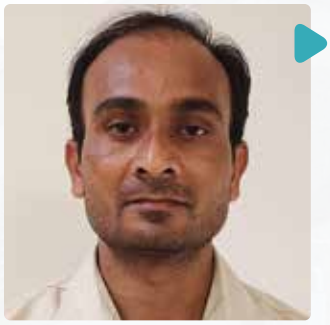
Assistant

For her commitment to the duties and timely completion of the assigned works in a systematic manner.

MS ANITA VAGHELA

Hostel Caretaker

For her dedication as a hostel caretaker and laudable services rendered towards the well-being of the students.



MR JAYESHBHAI VAGHELA

Office Attendant

For his devotion to duty and skills of fulfilling the requirements of the work of office attendant with quality in the IWD Office.

CAMPUS DEVELOPMENT AWARDS

The Institute felicitated following community members with Campus Development Awards for the year 2021-22 on the occasion of 73rd Republic Day on Jan 26, 2022, for their outstanding contributions in campus development and management related activities:

MR ANUKESH KRISHNANKUTTY AMBIKA
Student

In recognition of his significant contributions towards the social outreach programs of the Institute.

MR AMRUTBHAI SOMABHAI RATHOD
Security Supervisor

For his dedication and diligent service for the security of the campus.

MR TAKHATSINH MADANSINH SOLANKI
Ambulance Driver

For his excellent service at the Medical Facility.

MR YOGESH KAPOOR
Consultant, MSYK

In recognition of his sincerity, honesty for purpose, professional competence, sustained support in all forms and distinguished service of exceptional order in campus development of IIT Gandhinagar.

MR JITENDRA SHARMA
EE, CPWD

For his selfless devotion to duty during his tenure at IIT Gandhinagar Project Construction work.

MS SUNITABA CHAVDA
Canara Bank Staff

For providing excellent banking service towards the Institute.

MR BANSI BALDEVBHAI BHANGI
Housekeeping Staff

For his dedicated service to the Institute.

AWARDS AND RECOGNITIONS TO IIT GANDHINAGAR

THE RANKINGS 2022

The Institute ranked in the 601-800 band globally and 7th in India in the Times Higher Education (THE) World University Rankings 2022. IITGN has secured a global place in this prestigious international educational ranking for the third consecutive year. THE World University Rankings 2022 included more than 1,600 universities across 99 countries and territories. It measures the performance of universities/ institutions based on 13 carefully calibrated performance indicators across four areas: teaching, research, knowledge transfer, and international outlook.

NIRF RANKINGS 2021

Strengthening its position year after year, IITGN has secured 33rd rank (compared to 35th rank last year) in the overall category and 22nd rank (compared to 24th rank last year) in the engineering category in the National Institutional Ranking Framework (NIRF) India Rankings 2021. The Institute also ranked at 39th position in the newly introduced research category. NIRF ranks Indian institutions based on the parameters of teaching, learning and resources; research and professional practices; graduation outcomes; outreach and inclusivity; and perception.

NATIONAL WATER AWARD

IITGN bagged the second position in the category of 'Best Institution / Resident Welfare Association / Religious Organisation for Campus Usage' during the 3rd National Water Awards ceremony organised by the Ministry of Jal Shakti at Vigyan Bhawan, New Delhi, on Mar 29, 2022. **Shri Gajendra Singh Shekhawat**, Union Cabinet Minister of Jal Shakti; **Shri Prahlad Singh Patel**, Minister of State for Food Processing Industries; and **Shri Bishweswar Tudu**, Minister of State for

Tribal Affairs and Jal Shakti were present on the occasion and bestowed the award to IITGN in recognition of the Institute's efforts to promote water conservation and water management.

ONE DISTRICT ONE GREEN CHAMPION AWARD

IITGN has been awarded the 'One District One Green Champion' Award by the Mahatma Gandhi National Council of Rural Education (MGNCRE), Ministry of Education, Government of India. The award is bestowed to educational institutes across the country for their contribution to the Swachh Bharat initiative by the MGNCRE. The Institute has been recognised as one of the exemplary performers in Swachhta Action Plan (SAP) 2020-21. The winners are identified based on various parameters such as cleanliness, water conservation, green campus initiatives, waste management, sustainability, energy conservation and renewable energy, among others.

OUTREACH ACTIVITIES

NEEV: IITGN'S COMMUNITY OUTREACH PROGRAM

NEEV is a community outreach program of IIT Gandhinagar that provides training and mentoring pertaining to skill development and entrepreneurship, to women and youth from the surrounding villages, such that it helps them with their livelihood. Since 2014, NEEV has conducted over 90 projects and activities for over 2900 beneficiaries from the Ahmedabad/Gandhinagar areas, including 15 nearby villages. **Ms Soumya Harish** is the coordinator and **Ms Roshni Patel** is the program associate of NEEV. The team also comprises invited resource persons and volunteers who help manage the various projects.

During 2021-22, NEEV conducted 14 courses for 211 participants. Philanthropic support for courses conducted during September 2021 to March 2022 was provided by **Desai Foundation Trust** and **Gujarat State Petronet Limited (GSPL).** Philanthropic support for courses conducted during July-August 2021 was provided by **Masibus Automation and Instrumentation Pvt Ltd** and **Gujarat State Petronet Limited (GSPL).**

STITCHING SKILLS TRAINING COURSE

With a focus on empowering rural women, NEEV conducts basic to intermediate level training courses in sewing. The modules include measurement, marking, cutting and sewing. At the end of these courses these women were able to make products such as cushion covers, cloth bags, baby frocks, salwar-kameez, and ladies blouses. Five sewing courses were conducted in 2021-22:

- A 6-week course (various styles of women's blouses) was conducted during Jul 12-Aug 20, 2021 (Mon-Fri, 1-4 pm) at NEEV training room, IIT Gandhinagar for 15 women from the villages of Palaj and Basan. The lead trainer for the course was **Ms Mamta Parekh.**
- A 4-week course (masks, pouches, bags, cushion covers) was conducted during Sep 01-Oct 04, 2021 (Mon-Fri, 1-4 pm) at Basan village for 9 women. The lead trainer for the course was **Ms Ritu Singh.**
- A 6-week course (various styles of women's blouses) was conducted during Sep 06-Oct 15, 2021 (Mon-Fri, 1-4 pm) at Ratanpur village for 20 women. The lead trainer for the course was **Ms Mamta Parekh.**
- An 8-week course (sewing machine operation, products such as carry bag, cushion cover, petticoat, frock, simple salwar suit and simple blouse) was conducted during Nov 15, 2021-Jan 07, 2022 (Mon-Fri, 1-4 pm) at Basan village for 24 women. The lead trainer for the course was **Ms Mamta Parekh.**
- A 7-week specialised **ladies tailor training course** (various styles of ladies dress and blouse) was conducted during Feb 14-Mar 31, 2022 (Mon-Fri, 1-4 pm) at NEEV training room, IIT Gandhinagar for 14 women from villages of Palaj, Basan, Lekavada. The lead trainers for the course were **Mr Praful Darji** and **Ms Ritu Singh.**

COMPUTER SKILLS TRAINING COURSE

The purpose of this course is to increase computer literacy among youth and women from the villages surrounding IITGN. Through this course, the participants are taught basic computer operation, MS Word, MS Excel, MS Powerpoint, logging into the network, use of the internet, email basics, search engines, etc. Three basic computer skills courses were conducted in 2021-22:

- A 5-week course was conducted during Jul 12-Aug 14, 2021 (Mon-Sat, 8-10 am) at Computer Lab, IIT Gandhinagar for 14 participants from villages such as Palaj and Basan. The lead trainer for the course was **Ms Shreya Prajapati.**
- A 6-week course was conducted during Sep 13-Oct 23, 2021 (Mon-Sat, 8-10 am) at Computer Lab, IIT Gandhinagar for 17 participants from villages such as Palaj, Basan, Chiloda, Alampur. The lead trainer for the course was **Ms Shreya Prajapati.**

- A 5-week course was conducted during Nov 29-Dec 31, 2021 (Mon-Sat, 8-10 am) at Computer Lab, IIT Gandhinagar for 13 participants from villages such as Ratanpur, Palaj, Basan. The lead trainer for the course was **Mr Umesh Vaghela.**

SPECIALISED COMPUTER TRAINING COURSE

- A 6-week **Tally skills training course** (introduction to basic to intermediate accounting operations using Tally software) was conducted during Sep 13-Oct 23, 2021 (Mon-Sat, 8-10 am) at Computer Lab, IIT Gandhinagar for 15 participants from villages such as Palaj, Chiloda. The lead trainer for the course was **Mr Umesh Vaghela.**
- A 7-week **Desktop publishing course** (beginner course in graphics design using Photoshop, Coreldraw, and Indesign) was conducted during Feb 14-Mar 31, 2022 (Mon-Sat, 8-10 am) at Computer Lab, IIT Gandhinagar for 10 participants from Palaj village, and city areas of Ahmedabad and Gandhinagar. The lead trainer for the course was **Mr Umesh Vaghela.**

VOCATIONAL SKILLS TRAINING COURSE

As part of the vocational skills training course, a 6-week beginner course in **domestic wiring** was conducted during Nov 22 - Dec 31, 2021 (Mon-Fri, 10 am - 1:30 pm) at Electrical Engineering Lab, IIT Gandhinagar for 7 participants from villages such as Palaj, Basan; A 2-week introductory course in **CNC Machining** was conducted during Dec 20-31, 2021 (Mon-Fri, 10 am - 5 pm) at Mechanical Engineering Lab, IIT Gandhinagar for 13 students of Industrial Training Institute, Sector 15. The lead trainer for the domestic wiring course was **Mr Palak Bagiya,** and the lead trainer for the CNC Machining workshop was **Mr M Armugam.**

SHORT-DURATION TRAINING COURSES

- A 2-week **chocolate and candle making course** was conducted during Sep 20-30, 2021 (Mon-Fri, 1-4 am) at NEEV training room, IIT Gandhinagar for 6 participants from Basan village and Gandhinagar city. The lead trainer for the course was **Ms Nidhi Pathak.**
- A 2-day **training of trainers in stitching skills** (product overview, market linkages, costing, pricing) was conducted during Mar 07-08, 2022 (9am - 5pm) at NEEV training room, IIT Gandhinagar for 17 women from Valsad, Navsari, Bharuch, Dang regions in South Gujarat. The lead trainers for the workshop were **Ms Ritu Singh** and **Ms Mamta Parekh.**

BEAUTICIAN SKILLS TRAINING COURSE

A 7-week course (grooming, make-up, hairstyle, mehendi) was conducted during Feb 14-Mar 31, 2022 (Mon-Fri, 12-5 pm) at Green Lounge, IIT Gandhinagar for 17 women from villages of Palaj, Basan. The lead trainers for the course were **Ms Rajlaxmi Sharma, Ms Arti Patel** and **Ms Mittal Taviyad.**

LIVELIHOOD GENERATION MARKET LINKAGES AND SUPPORT

NEEV facilitated livelihood opportunities through bulk orders for products such as curtains, cloth bags, masks and kurtas; and through sale of home decor products, chocolate, candles, and dry-snacks for IITGN community events such as diwali sale, spring carnations etc. Notably, 34 women collectively earned close to Rs 1.5 lakhs through such sales. During February and March 2022, NEEV conducted exposure visits to the wholesale cloth market in Ahmedabad, and the local Chiloda market, so that the women could identify products they could make and sell in the public markets closest to their villages.

AWARENESS SESSIONS AND FIELD VISITS FOR IITGN COMMUNITY

NEEV conducts orientation sessions and field visits for the IITGN community to create awareness about its projects and activities. The following sessions and visits were conducted in 2021-22:

- Awareness session by **Ms Soumya Harish** on Jul 03, 2021 during a panel discussion held as part of "Aagman" event organized by Staff Development Cell for newly joined IITGN staff members.
- Awareness session about NEEV by **Ms Roshani Patel** on Jul 23, 2021 during "Aarohan 2021", an online orientation program for incoming post-graduate students.
- Awareness session about NEEV by **Ms Soumya Harish** on Oct 30, 2021 during an online orientation program for incoming PhD students (special drive).
- Field visit to Basan village by **Ms Soumya Harish** and **Ms Roshani Patel** on Dec 21, 2021 for BTech 2020 batch during "Know your surroundings" event of Foundation Programme.
- Awareness session about NEEV by **Ms Soumya Harish** on Dec 24, 2021 during an online orientation event for BTech 2021 batch as part of Foundation Programme.
- Field visit to Basan village by **Ms Ritu Singh** on Dec 27, 2021 during "Aarohan 2022", an orientation program for incoming post-graduate students.

NEEV Impact: Livelihood Generation for village Women during 2021-22:

SKILL DEVELOPMENT BY NEEV

Continuing its commitment to impact the surrounding communities through skill development, NEEV-IITGN conducted four training courses in Basic Computer Skills, Tally Skills, and Stitching (in Ratanpur and Basan villages) from Sep to Dec 2021, and three training courses in Basic Computer Skills, Stitching (in Basan village), and Vocational Skills (wiring and CNC machining) during Nov and Dec 2021. A total of 118 rural women and youth were impacted through these trainings.

UP SKILLING COURSES BY NEEV

NEEV, IITGN conducted four training courses namely Ladies Tailor Training Course, Training Of Trainers iIn Sewing, Beautician Skills Training Course, and Desktop Publishing Training Course during Jan-Mar 2022. A total of 58 rural women and youth from nearby villages took benefit of these courses. Additionally, NEEV organised a sale of handcrafted products made by village women on the occasion of International Women's Day and also during the Spring Carnations event at IITGN.

MEDICAL CAMPS IN LABOUR COLONIES

In yet another initiative towards community outreach, IITGN has started Medical Camps at the construction workers' colonies, which are held on a weekly and rotational basis in one of the labour colonies. Every time they serve approximately 40-50 workers and their family members. These camps are running successfully with persistent and diligent efforts by **Dr Riya Saini** and the medical staff of the Institute.

NYASA: IITGN'S COMMITMENT TO SOCIAL OUTREACH

Taking forward IITGN's commitment and conscious efforts for the welfare of the construction workers and their families on IITGN campus. Nyasa is one of the primary stakeholders at IITGN to implement welfare schemes and reach out to the underprivileged community in and around the campus to lend a helping hand to build a better life through the collective strength of education and other activities. Many activities are already put in place through Nyasa for the overall development by learning different skills through technology and creative thinking.

DISTRIBUTION DRIVE

Nyasa, in collaboration with the institute's social outreach initiatives, distributed essential items during the pandemic. The total number of masks, reusable sanitary napkins, mosquito repellent coils, fruit packet (two bananas, an apple and an orange), and sweets were 348, 112, 210, 600, and 600, respectively.

NYASA DONATION DRIVES

The team Nyasa called for donations from the IITGN community and conducted distribution drives for the donated items like clothes, winter wears, toys, umbrellas, footwear, bags etc. for on-campus workers (like housekeeping staff, mess staff etc.) and construction workers. They also distributed T-shirts to all contractual staff. On the occasion of Diwali, Nyasa volunteers distributed sweets and new dresses among the children of construction workers. Overall, these efforts provided monetary relief to more than 1000 construction workers.

ACTIVITIES FOR HEALTH CARE

Nyasa arranged regular vaccination for kids with the help of the Public Health Centre, Palaj. The medical centre team of IITGN was also available for construction workers. Reusable and one-time-use sanitary napkins were procured and distributed in the workers' colony through the assistance of AVNI and Desai Foundation.

EDUCATIONAL ACTIVITIES

Nyasa volunteers worked hard to formally enroll some of the children of construction workers in Basan village's government school. Invaluable efforts of **Mr Sunil Patel** (Basan school principal), **Prof Gaurav Srivastava**, and **Prof Sharada C V** are greatly appreciated to make this a reality. Twenty children completed their schooling for the academic year 2021-22. They will receive their transfer certificate from Basan School. This is the first time in the history of IITGN and Nyasa that twenty students have received their transfer certificate. Special training programme has been conducted for the kids that will help them to be inducted into formal education.

OTHER ACTIVITIES

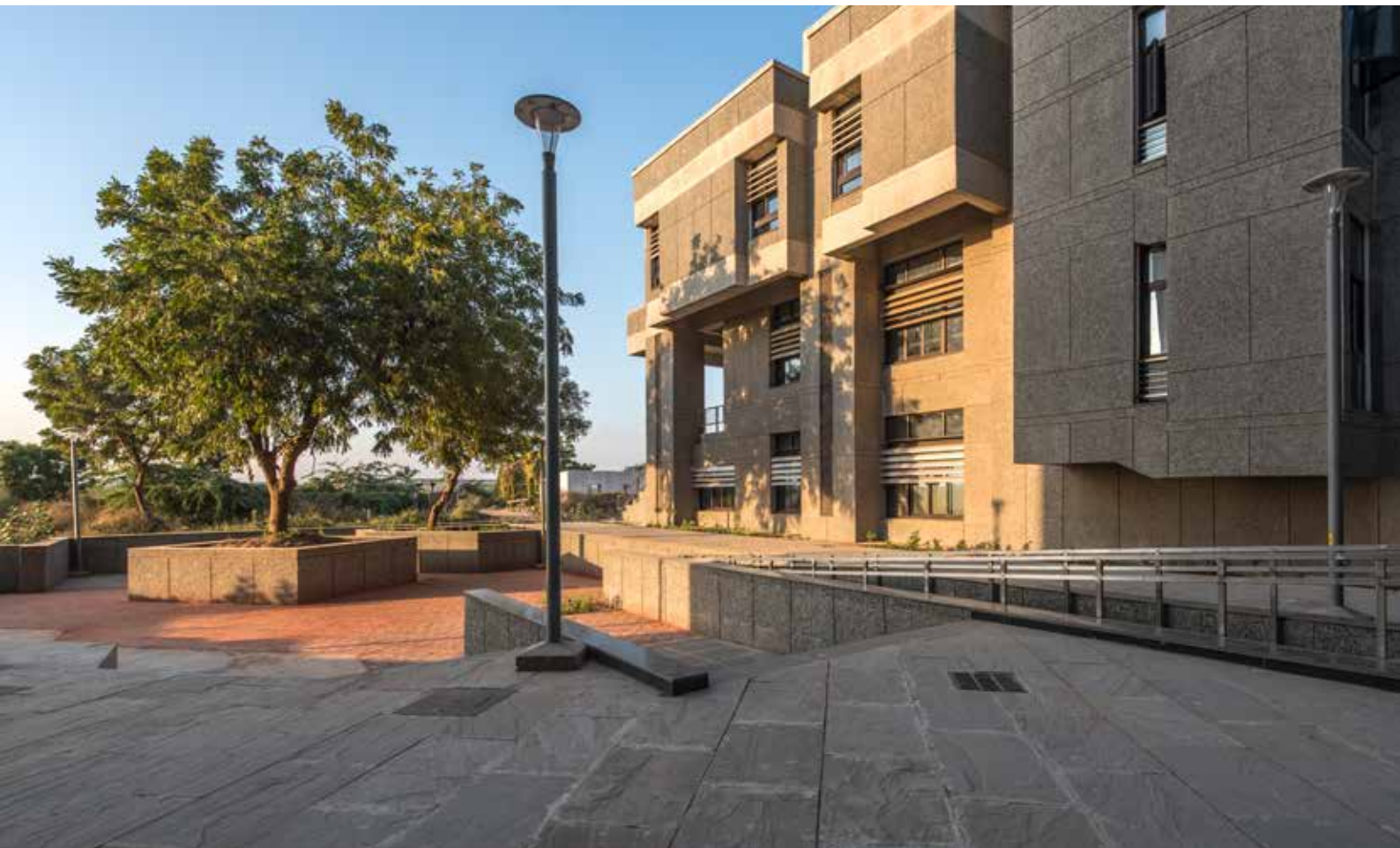
Nyasa, in association with the Shramik Kalyan Samiti, has given t-shirt and hoodies as a token of appreciation to all the on-campus workers, including construction workers, gardening & maintenance team, mess workers, and house-keeping staff for their continued efforts to keep the Institute functioning smoothly. Total number of t-shirts and hoodies donated were 594 and 174, respectively. Diwali celebrations and a study tour to Science City was organized for Nyasa school kids.

SANJEEVANI

IITGN as an institution has always believed in the general health and well-being of not only our community members but also of our neighbours. Sanjeevani, the flagship event of Nyasa, is a health camp that brings together people from villages, community workers and doctors to a common point where they can interact, engage and resolve their health issues. During the previous Sanjeevani, we had several health camps conducted within the villages. However, since IITGN has always been welcoming and open to its surroundings, this time we hosted Sanjeevani on our campus with families and children coming from neighbouring villages including Basan, Lekawada, Alampur, Siholi and Rampura. The event was conducted in Academic Block 7 at IITGN with each of the classrooms being converted into a check-up room for a certain specialty. The specialties covered the general physician, ophthalmologist, ENT specialist, dermatologist, gynecologist, pediatrician, orthopedic surgeon, physiotherapist, and dentist

Number of beneficiaries	:	450+
Number of doctors	:	19
Number of supporting staff	:	20
Number of volunteers from IIPHG	:	21
Number of volunteers from MSU	:	19

Different stalls and awareness programmes were conducted including nutrition and physical fitness and first aid, hygiene, waste disposal and safe drinking water, diseases (diabetes, and cancer), nasha mukti, AIDS awareness, men's health and wellbeing, women's health and wellbeing, child's health and wellbeing, farmer's awareness, NEEV, Centre for Creative Learning (CCL). A blood donation camp was also held in which 42 students donated blood. Yoga was introduced for the first time in the Sanjeevani health mela.



EVENTS AND ACTIVITIES

SIGNIFICANT ACTIVITIES

LEADERSHIP CHAT SERIES

The 6th talk under the Leadership Chat Series was held with **Major Devender Pal Singh**, a Kargil War veteran and India's first blade runner, on Apr 22, 2021. The session was moderated by **Mr Mukul Pandya**, former Editor in Chief, Knowledge@Wharton and **Prof Achal Mehra**.

THEORETICAL PHYSICS SCHOOL

The discipline of Physics organised a virtual 'Theoretical Physics School' during Jun 7-11, 2021. The school, attended by over 100 participants, aimed to provide a unique opportunity to students to learn selected contemporary theoretical physics topics through a set of pedagogical lectures. The lectures were designed to introduce advanced undergraduate and postgraduate students and PhD scholars to new and future research directions in theoretical physics. The event was coordinated by Prof Sudipta Sarkar.

LAUNCHPAD 2021

IITGN Innovation and Entrepreneurship Center (IIEC) has introduced LaunchPad, an initiative for final year students of the Institute to provide them with an opportunity to try their entrepreneurial idea. As a part of this programme, students get a platform where they validate their startup idea and receive mentoring support from the IIEC. Student teams are also provided with product development funding support and fellowship to cover sustenance. Currently, two teams of seven students are working on their ideas under this programme.

INCREASE IN POSTDOCTORAL RESEARCH FELLOWS

Having developed an excellent and interdisciplinary research ecosystem, the Institute has witnessed a significant increase in the number of postdoctoral research fellows in one year. As on May 1, 2021, the total number of postdoctoral research fellows at the Institute was nearly half (47.22 %) the total faculty strength. The ratio was about 34 % in May 2019 and 33 % in May 2020. Compared to 34 and 35 postdoctoral research fellows as on May 01, 2019, and 2020, respectively, the Institute recorded a total of 51 postdoctoral research fellows as on May 01, 2021. The Institute has launched several programmes to encourage young researchers and provide impetus to cutting-edge, collaborative and interdisciplinary research in India. Research-oriented programmes like IITGN-ECF and the 50-50 Scheme have opened up exciting opportunities for young scholars to work on innovative research problems in a creative and interdisciplinary ecosystem.

VIKRAM SARABHAI RESEARCH FELLOWSHIP

IITGN introduced the Vikram Sarabhai Research Fellowship that aims to encourage PhD students to complete their PhD early and enable them to have a competitive advantage. PhD students who submit their thesis within four years of joining will be eligible for this 12-month research fellowship. It will enable IITGN doctorates to explore new research areas, extend their PhD work, and publish scholarly articles and books, besides looking for rewarding career opportunities.

MORE INTERNATIONAL FACULTY ON BOARD

One of the new horizons that opened up because of the pandemic was the possibility of remote teaching by faculty from across the world. Remote instructions allowed the Institute to engage a substantial number of top-notch academics from countries such as the USA, Mexico, UK, Switzerland, Brazil, Turkey, Portugal, Germany, and Japan, who taught more than 20 formal courses to IITGN students during the last one and a half years. As a result, IITGN students could learn diverse and specialised courses from faculty around the world.

MOMENTUM IN FACULTY RECRUITMENT

The Institute did not let the pandemic disrupt faculty recruitment and quickly shifted to online platforms to connect with the faculty candidates. From July 2020 to June 2021, the Institute made 25 offers, of which 19 were accepted. The number of career faculty at the Institute now stands at 110, and 8 others are expected to join soon. The Institute has also made significant progress in engaging Professors of Practice.

AAROHAN 2021

The Institute organised "Aarohan", an orientation

programme for the new postgraduate students. The two-week online programme for MTech and PhD students and one-week programme for MSc and MA students was aimed at integrating these students into IITGN's ethos and culture through thought-provoking, creative, and sporting activities. **Profs Ashutosh Srivastava, Abhishek Bichhawat, Chandan Mishra, Sameer Patel**, and **Himanshu Shekhar** coordinated the programme.

LAUNCH OF 'REFLECTION OF A DECADE'

On Aug 23, 2021, IITGN launched 'Reflection of a Decade', a memory project book of the BTech Alumni batch of 2011. **Akash Keshav Singh**, an alumnus from this batch who conceived and executed the project, was present at the campus and released the book along with **Prof Sudhir K Jain**, Director. The book reminisces the memories, experiences, and growth journeys of some of the alumni from this batch over the ten years. It can be accessed at: https://bit.ly/3jcZGOo

CAMP HSS 2021

IITGN conducted a first of its kind free online event - 'Camp HSS' - for school students of classes 8-12 to help them develop critical thinking, empathy and creativity. The three-day virtual camp, held from Jul 30 - Aug 1, 2021, received more than 4,000 participant registrations from all over the country. Academics from India and abroad conducted the workshop. **Prof Jaison Manjaly** coordinated the event.

SWACHHATA PAKHWADA

IITGN observed 'Swachhata Pakhwada' during Sep 1-15, 2021, with several events and activities, including a Swachhata pledge, cleanest hostel competition, e-waste collection drive, plogging drives, swachhata awareness in neighbouring village and labour colonies, painting and essay writing competitions for children and students, among others. The events were coordinated by the Green Office team, IITGN.

FOUNDATION PROGRAMME-III FOR THE BATCH OF 2020

The Institute organised an in-person Foundation Programme (FP) III with a variety of interesting activities for the BTech batch of 2020 from Dec 13, 2021. After attending the first two parts of FP and other academic classes in online mode due to the pandemic, students from the batch of 2020 could finally come to the campus for FP III. **Profs Tarun Agarwal**, **Sutapa Roy** and **Deepak Singhania** were coordinators of the programme.

WRITERS AT WORK

The Writing Studio at IITGN launched a new flagship lecture series - 'Writers at Work' in Sep 2021. The series invites eminent writers, novelists, biographers, essayists, and nonfiction authors to discuss the art and craft of writing. The first session of the series was held on Sep 17, 2021, with **Prof Chinmay Tumbe**, Assistant Professor, Economics, IIM Ahmedabad, in conversation with **Prof Jooyoung Kim** of IITGN.

FOUNDATION PROGRAMME 2021

IITGN welcomed the BTech batch of 2021 on Nov 22 with a virtual Foundation Programme. **Prof Sudhir K Jain**, Director, interacted with the new batch during the inaugural session. A total of 249 students from 18 Indian states, including two OCI students, have joined the batch. The programme was coordinated by **Profs Karthik Subramaniam Pushpavanam**, **Tanya Srivastava** and **Biswajit Mondal**.

AAROHAN 2022

The Institute welcomed the new batch of PhD and MTech students on Dec 20, 2021, and commenced their foundation programme "Aarohan". It was packed with exciting activities to integrate new students into the culture and ethos of IITGN. The two-week programme was coordinated by **Profs Jhuma Saha**, **Sameer Kulkarni** and **Utsav Mannu**.

WINTER ADMISSIONS FOR INTERNATIONAL STUDENTS

For the first time, IITGN introduced winter admissions for international students to its postgraduate programmes in Engineering, Science, and Humanities & Social Sciences for international students. So far, international admissions were limited to the first semester starting in July. However, this year the Institute decided to create an additional opportunity for international students because of their different graduation deadlines.

STUDENT WELL-BEING INITIATIVE

IITGN lives by its "students first" motto. To strengthen further its support for every single student of IITGN, the Institute has initiated a new enterprise named "Student Well-Being". As a part of this initiative, a team of committed faculty members offer a supporting hand to IITGN students for any of their concerns, be they academic or nonacademic. The team also celebrated Student Well-Being Week during Nov 15-19, 2021, wherein students were encouraged to just walk-in and meet the team to talk and share any of their concerns.

LEH-LADAKH AND KARGIL DELEGATION

A 13-member delegation from Leh-Ladakh and Kargil visited IITGN on Oct 13, 2021, to understand wastewater management at the Institute, learn about the processes, and examine various eco-friendly and sustainable technologies which can be adopted to the extremely cold climate of their region. The group also visited the Water Treatment Plant and Sewage Treatment Plant of the Institute. **Prof Sudhir Kumar Arora** hosted the delegation along with other faculty members and officials from the Institute.

JEE OPEN HOUSE

With an aim to guide JEE (Advanced) qualified students and their parents about different engineering branches at IITs, various career opportunities, and help them better understand the IIT system, IITGN hosted a live JEE Open House on Oct 23, 2021. The virtual event included interactive sessions with **Prof Sudhir K Jain**, Director, Deans of Academic and Student Affairs, Student Leadership, and Alumni of the Institute. The participants were also provided information about the academic course structure, various opportunities, activities and student life at IITGN.

CERTIFICATION IN SCIENTIFIC WRITING

IITGN's Certification in Scientific Writing course is receiving encouraging responses from students. This time, as many as 108 PhD students from various disciplines participated in the course, which was conducted by **Prof Karla Mercado-Shekhar** (Programme Coordinator) and **Dr Maria Joao Amante** (Programme Advisor). More details about this initiative can be found here: https://initiatives.iitgn.ac.in/scientificwriting/ certification/

TALK ON SCIENCE AND SCIENTISTS

On Nov 12, 2021, the Institute hosted a talk by **Prof Ashutosh Sharma**, former Secretary, Department of Science and Technology, Government of India, and Professor, Department of Chemical Engineering, IIT Kanpur, on 'Science and Scientists in the New Millennium'. He also inaugurated the Institute's "Grantopedia" site, which is a one-stop destination for researchers to explore

multiple opportunities for research grants, funding calls, fellowships, conferences, industry-academia partnerships etc.

HISTORY OF IDEAS

The Institute has started a new lecture series called 'History of Ideas', which aims to discuss the historical evolution of prominent ideas and fundamental breakthroughs in science. It also examines the influences and reactions of the community as well as the broader society of that time. The first edition of this series was held on Nov 20, 2021, with two talks: (i) "Conception (1900) to Birth (1926) of Quantum Mechanics" by Prof Ravinder Puri (IITGN) and (ii) "Soft Matter: A History of Ideas" by **Prof Gautam Menon** (Ashoka University). The series is being coordinated by **Prof Sudipta Sarkar.**

BOOK DISCUSSION

Ahead of the World Wildlife Conservation Day, IITGN hosted a discussion session on Nov 23, 2021, on 'Tigers Are Our Brothers: Anthropology of Wildlife Conservation in Northeast India', a book penned by Prof Ambika Aiyadurai and recently published by Oxford University Press. **Prof Sarit Kumar Chaudhuri**, Professor of Anthropology, Rajiv Gandhi University, Itanagar, joined the event virtually as the discussant, and **Prof Alok Kumar Kanungo** moderated the session.

CREATIVE LEARNING WITH CCL

The CCL-IITGN conducted several educational activities to promote the joy of learning science and maths. The team launched Cubical Diwali Lamps video series and taught making 20 kinds of DIY mathematical paper lamps for 20 days, from the day of Dussehra to Diwali. The CCL was part of the 7th edition of the 'India International Science Festival' (IISF), held in Goa during Dec 10-13, 2021. It was also invited as a resource agency to conduct workshops on arts and sports integrated pedagogy for Trained Graduate Teachers (TGTs) of Jawahar Navodaya Vidyalaya at Navodaya Leadership Institute in Goa and Noida during Dec 14-15, 2021 and Dec 21-23, 2021.

INDUSTRY CONNECTIONS 2022

IITGN conducted an Industry Connection meeting with the members of the Gujarat Chamber of Commerce and Industry (GCCI) on Mar 03, 2022. GCCI's Chemical Task Force Chairman, **Mr Shrenik Merchant**, and Vice-Chairman, **Mr Prashant Patel**, along with several other industry members attended the event. The meeting acted as a forum for understanding industry needs and knowing the expertise of various faculty at IITGN as well as the state-of-the-art facilities available at the campus. The event was coordinated by **Prof Chinmay Ghoroi**.

CHANGING OF THE GUARD

On Jan 3, 2022, IITGN bid adieu to its founding director **Prof Sudhir K Jain**, who has been appointed as the Vice-Chancellor of the Banaras Hindu University (BHU), Varanasi. **Prof Amit Prashant**, Professor of Civil Engineering and Dean, R&D, IITGN, was handed over the charge as officiating director of the institute from Jan 4, 2022

BTECH ADMISSION TO STUDENTS SELECTED FOR OLYMPIAD TRAINING CAMPS

IITGN has created supernumerary seats to provide BTech admission to students selected for training camps for the oldest four International Olympiads on Mathematics, Physics, Chemistry, and Informatics. The basic eligibility criteria remain the same as those coming through the JEE Advanced route; additionally, the Institute has set up a process for the selection and admission of students through this window.

IKS 2022

IITGN conducted the sixth edition of its unique elective course, Introduction to Indian Knowledge Systems (IKS), in hybrid mode, from Jan-Apr 2022. About 12 distinguished scholars from India and abroad delivered lectures during this season which was themed on 'Precolonial India's Treasure House of Literatures'. The programme is being coordinated by **Prof Michel Danino** and **Ms Mana Shah**.

PHASE 2022

IITGN, in collaboration with the University of Strathclyde, UK, organised the third edition of PHASE (Photonics for Health, Atmosphere, Safety and Education), during Jan 6-7, 2022. PHASE 2022 was a hybrid-mode Indo-UK workshop on Optical Sensing and Imaging with a wide range of expert talks, lab tours, and hands-on practical sessions. The event was coordinated by **Prof Arup Lal Chakraborty** (IITGN) and **Dr Ralf Bauer** (University of Strathclyde).

2ND EDITION OF HISTORY OF IDEAS

On Jan 29, 2022, the Institute organised the second edition of the series 'History of Ideas', which brought two interesting talks titled - 'Towards Relativity: Einstein and His Compass' and 'A History of Algorithms: The Worst-case and Beyond' by IITGN faculty **Prof Sudipta Sarkar** and **Prof Neeldhara Misra**, respectively.

SEMINAR SERIES ON INDIAN SCIENTISTS

The 5th edition of 'Seminar Series on Indian Scientists' was organised on Feb 19, 2022, with two online talks on the life and works of renowned Indian scientists - **Dr Bibha Chowdhuri** and **Prof Asima Chatterjee**. The first session titled 'Dr Bibha Chowdhuri: A Star from Another Sky' was delivered by **Prof Srubabati Goswami**, Theoretical Physics Faculty, PRL, Ahmedabad. In the second session, **Prof Sivapriya Kirubakaran**, Associate Professor, Chemistry, IITGN, gave a talk on 'A Nature-loving Natural Product Chemist: Prof Asima Chatterjee'. **Prof Sudipta Sarkar** coordinated the seminar.

PROGRAMMES BY THE CENTRE FOR CREATIVE LEARNING (CCL)

The **CCL** and the American India Foundation (AIF) joined hands to start 'Sparkle Series'; an online interactive education programme for about 10,000 Vigyan Jyoti scholars of class 11 from 200 Jawahar Navodaya Vidyalayas (JNVs) across the country. The series covered Science and Mathematics curriculum topics with various hands-on activities and experiential learning. **CCL**, in collaboration with Sarva Shiksha Abhiyan, Uttar Pradesh, also started a programme called 'Curiosity' to improve science education in 746 Kasturba Gandhi Balika Vidyalaya schools of UP. It is reaching around 74,600 girl students across the state. CCL has also developed 100 modules for teaching middle school science in an experiential manner. The Centre, with support from Sarva Shiksha Abhiyan, Gujarat, has also provided STEM boxes in around 3500 schools in Gujarat to facilitate hands-on experiential learning.

MINOR IN SUSTAINABLE DEVELOPMENT

Dr Kiran C Patel Centre for Sustainable Development at IITGN is starting an interdisciplinary 'Minor in Sustainable Development'. Students interested to pursue this Minor are required to take six courses from a list of selected courses (preferably one each from three different areas). They are also encouraged to take one project-based course. Students may also take a maximum of four credits from the list of approved online courses related to sustainability. Given the interdisciplinary character of sustainability, the courses encompass the domains of water, energy, environment/ biodiversity/ earth systems, climate change and pollution and waste management.

IIT ROORKEE ALUMNI OUTREACH ACTIVITY AT IITGN

As a part of the year-long celebration to mark 175 years (1847-2022) of establishment, the Indian Institute of Roorkee (IIT Roorkee) organised their west zone alumni outreach event at IITGN on Mar 27, 2022. The event, which was graced by many dignitaries and senior alumni of IIT Roorkee, was an attempt to reach out to all alumni and celebrate their achievements and bolster the common bonding. **Prof Ajit Kumar Chaturvedi**, Director, IIT Roorkee handed mementos to senior alumni of the Institute in Gujarat who had completed 50 years of graduation.

INDEPENDENCE DAY CELEBRATIONS

Keeping the patriotic fervour high and following the preventive measures for Covid-19, IITGN community celebrated Independence Day 2021 in hybrid mode with minimal physical gathering but with great enthusiasm through online participation. The Institute and its student community hosted a number of interesting events themed around 75th Independence Day, including a flag hoisting ceremony with live webcast of the programme on the Institute's YouTube channel, a stamp designing competition, a spoken word competition, freedom day quiz, shirshasana challenge, FIT India freedom run 2.0, and a cultural programme at Rangmanch.

STUDENTS' EXTRA CURRICULAR ACTIVITIES

ACTIVITIES BY CULTURAL COUNCIL

The Quizzing Society organised a quiz competition and a poster presentation competition on the occasion of World Earth Day on Apr 22, 2021, and also conducted 'MELAS Quiz' on Jun 6, 2021. The third edition of Rangmanch was organised on Apr 25, 2021, with musical and poetry performances by students. The Cultural Council organised 'Valo League', a multiplayer online gaming event, from May 22 - Jun 13, 2021. The Palette Club organised 'ReCreate It!', an art competition to recreate popular artwork, from May 16-23, 2021. The Literary Society organised 'Queerentine', a literature and art competition to celebrate international pride month, from Jun 1-15, 2021. The Cultural Council organised 'Inspireclipse', a short video-making competition on the theme "Vaccine Awareness" from Jul 12 -30, 2021; 'Drawasaurus', an online scribble tournament by Palette Club on Jul 26-27, 2021; 'Battle of Quizzards', an entertainment-based quiz by the Cinematheque Club on Jul 25, 2021; and a 'Matki Phod competition' on Aug 30, 2021, on the occasion of Janmashtami.

The Cultural Council organised an interesting line-up of activities during this quarter, including 'Fin-e-Quiz', a quiz competition on finance, on Oct 08, 2021; 'TechnoWiz' (in collaboration with the Technical Council) on Oct 24, 2021; and 'Another Lie', a horror video-making competition by Abhinaya - the drama club. Besides, the council also organised 'IITGN's Got Talent' (IGT) from Oct 28-Nov 14, 2021, which featured various competitions for creative expressions. In an eclectic line-up of events, the **Cultural Council** organised an online Republic Day quiz on Jan 26, 2022; a virtual dance reel-making competition by the **Step Up Club** from Feb 5-16, 2022; a photo composition workshop and exhibition by 16 Pixels Club on Feb 27 -28, 2022; a talk on the journey of India's first transman pilot Adam Harry by **Orenda Club** on Mar 12, 2022; a jamming night by **Sargam Club** on Mar 19, 2022 during Blithchron'22, which also included a wide range of singing, dancing, beatboxing performances by students.

ACTIVITIES BY TECHNICAL COUNCIL

The Technical Council organised 'PrepBytes' - a competitive coding and placements workshop-cum-webinar by Ms Mamta Kumari, Co-founder, PrepBytes, on Apr 17, 2021; 'Restarting the IITGN Drone Society' - a series of eight online lectures by **Mr Ajay Kumar Ucheniya**, an IITGN alumnus, on Apr 18, 2021; 'Thriving in Your Research Journey' - a talk by **Prof Himanshu Shekhar** on May 22, 2021; 'Machine Learning Workshop' by the Mean Mechanics Club on May 23, 2021; 'ROS (Robot Operating System) Workshop' by the Tinkerers' Lab on alternate Sundays starting from Jun 13, 2021; 'One Month of Unity Challenge' - a month-long game design and development competition by the DiGiS Club from Jun 14, 2021; and 'The Summer Solstice' - an astro-talk series under the Odyssey Club - by Govardhan Ingle, a first-year BTech student, on Jun 23, 2021.

The Technical Council organised numerous events, including 'Sharing My US Patent Journey', a talk by **Prof Uttama Lahiri** on Jul 24, 2021; a two day introductory workshop on 'Cybersecurity' by India Cyber Security Solution (ICSS) on Aug 7 & 8, 2021; a workshop on 'Basics of MATLAB' for UG and PG students by Research Society, IITGN on Aug 12, 2021; a talk titled 'Research 101' by **Prof Anamika Dubey**, Assistant Professor at WSU, on Aug 21, 2021. **Dishank Goel** (a BTech student of CSE) was ranked second in the Inter-IIT CTF (Capture The Flag) event organised by IIT Roorkee on Aug 28-29, 2021. A workshop on 'Using Git and GitHub for Projects' by the Coding Club on Sep 6, 2021. The Council released TORQUE 3.0 - IITGN's student-run annual campus magazine on Sep 24, 2021.

UDAAN 2021

One of the most awaited programmes of IITGN - Udaan - was held on Jul 17, 2021, amid great cheer and fervour. Students and faculty gathered online to bid adieu to the tenth BTech, ninth MTech, seventh MSc, sixth MA batches, and the eighth set of PhD students. The participants recalled the moments spent together over the years, especially amid the challenges of the global pandemic.

BLITHCHRON 2022

The students of IITGN organised Blithchron'22, the annual cultural festival of the Institute, in hybrid mode with a variety of online and offline events on Mar 19- 20, 2022, respectively. The event received more than 1500 registrations and students from IITs, NITs and many private institutions from all over India. The two-day hybrid fest ended with an exciting EDM and DJ night by **Vice and Virtue** and DJ and producer **TEJAS**.

AMALTHEA 2021

IITGN students organised the 12th edition of Amalthea during Dec 9-12, 2021, on the theme - "Unifying Minds, Fostering Ingenuity". The annual student-run technical festival of the Institute was held virtually with an array of exciting events, competitions, webinars, symposiums, and tech expo. The acclaimed line-up of speakers for this year included, among others, **Mr Amit Kaushik**, Chief of Unit, International Solar Alliance; **Mr J D Patil**, WholeTime Director, L&T, Defence & Smart Technologies; **Mr Kirk Borne**, Chief Science Officer, DataPrime; **Ms Mitika Bajpai**, Sustainability manager, Reliance Industries.

ICE CREAM SOCIAL

As the Covid-19 situation started to improve, the **Student Affairs** team at IITGN hosted "Ice Cream Social", an informal social gathering over ice cream for the entire IITGN community on Mar 4, 2022. With this event, the institution extended a heartfelt thanks to all its members who worked tirelessly at different levels and showed unparalleled strength and commitment during the pandemic.

SPRING CARNATIONS

The **Cultural Council** organised 'Spring Carnations', a reincarnation of the much-celebrated 'Winter Carnations', on Mar 26, 2022. This year's event was themed 'Nostalgia: Live those days again' and gave the campus community a sense of celebration with lip-smacking dishes, refreshing drinks, fun games, and live music performances by the **Sargam club**.

SPORTS ACTIVITIES

YOGA SESSIONS

The Institute celebrated the 7th International Day of Yoga on Jun 21, 2021, with a virtually guided yoga session by **Mr R L Sharma** and **Ms Bharti Makwana**. The Physical Education (PE) section has also been organising offline and online yoga sessions for the campus community by **Ms Bharti Makwana** and **Ms Tulsa Pujhari**.

FITNESS PROGRAMMES

With the goal of improving the overall fitness of the community members, the PE section started online aerobics classes and meditation classes by **Ms Payal Vaniya**, online weight loss programme by **Mr Harsh Mehtab**, online core exercise programme by **Mr Rahul Gupta**, offline theme-based event '20 Weeks 10 themes' by **Mr Ratnesh Singh**, and offline Taekwondo sessions by **Mr Aman Chaudhary**.

OPEN GYM SESSIONS

The PE section restarted open gym sessions for the student community while following all the precautionary measures against COVID-19. The sessions are managed by **Mr Amit Kumar Mishra** and **Mr Dinesh Parmar** in the morning, and **Mr Harsh Mehta** in the evening.

RESUMING SOME SPORTS OFFLINE

The PE section resumed cricket and football sessions for the students in offline mode with all the COVID-related safety precautions. The cricket sessions were conducted by **Mr Ratnesh Singh**, and the football sessions were guided by **Mr Dinesh Parmar**.

IITGN STUDENT IN DISTRICT FOOTBALL TEAM

Saniya Patwardhan, a BTech student at IITGN, was selected as the main goalkeeper in the Gandhinagar District Football Association's Senior Women's team for the inter-district tournament held from Sep 21-27, 2021.

SUMMER CHAMPIONSHIP

The Physical Education Section organised a virtual Summer Championship from Jun 28 - Jul 31, 2021. For this, the entire student community was divided into four groups namely: Aakash, Agni, Naag, and Prithvi. Every week, the participants competed amongst each other by performing several fitness exercises. Moreover, the championship also conducted competitions such as chess tournament, running challenge, and sports quiz through various online platforms.

RUN IN MEMORY OF CDS GEN BIPIN RAWAT

The Physical Education Section organised a 3 km run event on the campus on Dec 31, 2021, in memory of the Chief of Defense Staff General **Bipin Rawat**. The initiative aimed to pay respect and tribute to the departed soul. Several community members participated in the event with all safety precautions.

MR DEVENDRA JHAJHARIA AT IITGN

Renowned Indian Paralympic javelin thrower **Mr Devendra Jhajharia** visited IITGN on Dec 30, 2021, as the Chief Guest in the closing ceremony of FP Sports 2021. **Mr Jhajharia** interacted with the students and motivated them to make sports an essential part of their routine. He also presented Champions and Runners-up trophies to Team Akash and Team Prithvi respectively.

HALLA BOL 2021

Halla Bol, an annual student-run gaming event, was held from Oct 14-26, 2021, and saw participation from more than 750 community members of the Institute. A total of ten games were played during the course of 13 days with the teams consisting of students, faculty, and staff. The event serves as a forum to nurture healthy interaction and interpersonal relations among the community members.

6TH EDITION OF DISHA CUP

The **Physical Education Section** of the Institute organised the 6th edition of the Disha Cup, the annual cricket tournament for its outsourced workforce, from Mar 11-13, 2022. This time the Institute also introduced volleyball as one of the sports. A total of 220 support staff of the Institute, including security guards, maintenance staff, mess workers, office boys, housekeeping staff, drivers, horticulture staff, groundsmen, hostel facility staff, shop employees, and laundry staff, participated in the tournaments.

BEAT THE WARDEN CHALLENGE

On the occasion of Republic Day, the **Physical Education Section** organised a running event called 'Beat the Warden Challenge'. The IITGN community participated enthusiastically to complete a 5 km run in less than the time taken by the Hostel Warden, **Prof Chandan Kumar Mishra**.

INTRA COLLEGE SPORTS LEAGUES

Continuing the tradition of organising several leagues for the IITGN community members, the **Sports Council** organised a series of sporting events such as Cricket Combat League, League of Football Players, Badminton Super League, Srija Memorial League, ATHE League, Intra Institute Table Tennis League, and IITGN Basketball League, from Mar 14 -Apr 03, 2022.

STAFF ACTIVITIES

STRIDES 5.0

The 5th edition of 'Strides', an annual cultural function for IITGN staff and their family members, was held on Oct 23, 2021. The programme is aimed at celebrating each staff member and recognises their qualities, talents, hobbies and interests. The IITGN staff members made the evening bright with their dance, music, and poetry performances.

A SERIES OF SESSIONS BY STAFF DEVELOPMENT CELL

The SDC organised various events/sessions for the development of the Institute's staff members. These events included a continuation of the popular "Let our minds think and fingers type" and an array of new initiatives alongside focussed training activities as per specific professional aspirations and technical needs. Staff members attended professional skill development courses from LinkedIn in addition to key core area workshops for Word, Excel, Tally and Writing/Communication. In a new way forward, the staff members who learn from the external sources have undertaken the activity of "Learn-Simplify-Share" to disseminate the learnings amongst a wider set of audience than ever.

ESIC WORKSHOP FOR OUTSOURCED WORKERS

The Outsourced Workers Outreach Programme Committee at IITGN organised a workshop for the outsourced workers of the Institute, including housekeeping staff, solid waste management staff, horticulture staff, maintenance staff, office boys, supervisors, and hostel caretakers, on Dec 4, 2021, to make them aware of ESIC (Employees' State Insurance Corporation) benefits and proper procedures to avail the same.

AAGMAN

The Staff Development Cell (SDC) organised "Aagman" during July 2-3, 2021, an orientation programme to welcome and acquaint new staff members with the Institute, its functions and campus culture. **Mr Saumil Shah** coordinated the event.

STAFF TRAINING

- **Ms Bhavna Dharani**, Junior Accountant attended an online training on Public Finance and Government Accounting from May 16-Jul 3, 2021 conducted by the Institute of Chartered Accountants of India, New Delhi
- **Ms Meena Joshi**, Assistant Registrar attended an online training on 'Educational Administration for Administrative Officers of Universities/ Central Institutes' from Jun 14 - Jul 11, 2021 conducted by Indira Gandhi National Tribal University, Amarkantak
- **Mr Gaurav Shukla**, Superintendent completed an online training on Adobe Illustrator CC-Essentials conducted by Udemy, Inc. on Jun 25, 2021
- **Mr R B Bhagat**, Deputy Registrar attended an online Management Development programme on 'Arbitration' from Sep 27-29, 2021 conducted by Arun Jaitley National Institute of Finance Management, Faridabad

REACHING OUT

- **Prof Sudhir K Jain**, Director, was invited by various organisations and forums to discuss and share his thoughts in the areas of education and institutional management. On Apr 14, 2021, he was invited as a panelist to discuss 'Education 4.0: Role of Industry Partnership and Curriculum' in a webinar by BW Education.
- **Prof Sudhir K Jain** delivered Prof G S Ramaswamy Memorial Lecture as the Chief Guest of the 57th Foundation Day celebration of CSIR Structural Engineering Research Centre (SERC), Chennai, on Jun 10, 2021.
- **Prof Sudhir K Jain** also delivered the 5th Vikram Sarabhai Memorial lecture at Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, on Jun 16, 2021.
- The Ahmedabad Management Association invited **Prof Sudhir K Jain** to give a talk on 'Managing COVID-19 on Campus: Learnings from the Innovative Practices of IITGN for Educational Institutions' on Jun 22, 2021, as a part of their webinar series on "Wellness through Management".
- **Prof Sudhir K Jain**, Director, shared the vision of IITGN and his thoughts on education in a number of forums. He delivered a talk in an event to felicitate him by the Indian Association of Structural Engineers (IAStructE) on Jul 10, 2021.
- **Prof Sudhir K Jain** participated in a panel discussion on 'Roadmap to Bridging Employability Gaps in India' organised by Harappa Education on Aug 14, 2021.
- On Aug 19, 2021, **Prof Sudhir K Jain** participated in a webinar organised by Harappa Education, as part of its 'Harappa Bridge' series, to speak on 'Do Internships Matter?'.
- **Prof Sudhir K Jain** visited JK Lakshmipat University, Jaipur on Sep 04, 2021, and interacted with the faculty of JKLU on 'Institute Building'.
- **Prof Sudhir K Jain**, along with Prof Abhay Karandikar (IIT Kanpur), Prof V Ramgopal Rao (IIT Delhi), and Prof K N Satyanarayana (IIT Tirupati), participated in a panel discussion on 'IITs Gearing Up for New World', during the PAN IIT Global Virtual Technology Summit 2021. The session was moderated by Mr Raj Nair, Chairman, Avalon Consulting.
- **Prof Sudhir K Jain** also participated in another virtual panel discussion organised by SciROI (Science and Research Opportunities in India) on Sep 26, 2021, on 'Upcoming Academic Institute Panel'.
- **Prof Amit Prashant**, Officiating Director, was invited as a Chief Guest for the inauguration of the "Basic Bioinformatics" training programme, organised by Gujarat Biotechnology Research Centre (GBRC) on Mar 07, 2022.

CAMPUS

CAMPUS DEVELOPMENT

CONSTRUCTION UPDATES

Construction of the 6 new hostel blocks, new 2 BHK housing, open-air theatre, director's residence, research park, and new Sewage Treatment Plant (STP) and sports complex has been completed. Construction of Academic 1B and external development work have been hampered due to the COVID-19 pandemic. Construction of the Entrance Court and Tennis Court has been started.

GREEN CAMPUS

IITGN encourages its community to keep the campus green and clean through various programs like Foundation Program for new students, World Environment Day and Earth Day, cleaning and plantation drives, etc.

Green Office Committee and Student Green Club organise various sessions and programs to spread awareness for waste management, segregation, and food waste. Sessions for menstrual hygiene are also being conducted for the IITGN community and the construction workers.

IIT Gandhinagar observed "Swachhata Pakhwada" from Sep 1-15, 2021. A number of events were conducted including a vehicle-free day on campus, a competition for the best hostel for waste segregation, a visit to the sewage treatment plant and water treatment plant, a drawing and essay competition on environment and waste management topics, e-waste collection drive, a session on food waste and recyclable waste, plogging session in the campus and nearby villages, waste management session for housekeeping staff, office attendants and construction workers. A large number of community members participated in these events.

Student Green Club has created a game "Captain Kachra" where anyone can participate and win prizes by giving the right answers about waste segregation. This helps to spread awareness about waste management. The Student Council has also conducted energy-saving competitions among hostels.

The organic farm committee established by the Institute plans and executes ideas for fruit and vegetable plantations on the campus. Many campus residents are

enjoying home-style pickles thanks to the well-planned efforts of the organic farm team.

Some of the infrastructural assets and aspects that continue to contribute to the green practices include carefully planned architecture, eco-friendly sewage treatment plants, rainwater harvesting systems, biogas and composting system, waterless urinals in hostels, drip irrigation system, and solar photovoltaic installations.

- From Apr 2021 - Mar 2022, the institute generated 7,69,285 kWh solar power, which is 9 % of the total electric consumption of the campus during that period.
- In 2021, a total of 12.5 millions of rainwater was harvested in Jal Mandaps.
- From Apr 2021 - Mar 2022, 82,800 kg of manure was supplied for horticulture, which was made from organic waste through the on-campus biogas plant and compost pits.

CAMPUS EXPERIENCE

The campus has a range of cafeterias and food outlets, a general store, a saloon, laundry service, a music room, a gym, sports fields, a sports complex, and other recreational facilities that continue to be used by all campus residents. The Central Arcade is also operational now and the Institute Medical Center has moved there. An ambulance is available round the clock for any emergency on campus. The post office on the campus located in the Central Arcade is also operational now. The Guest House is operational now and has 71 guest rooms including 2 rooms specifically designed for persons with mobility issues, 12 guest suites, an 80-seater conference room, and two 50-seater meeting rooms. The Sports Complex is also operational now and has a badminton court, a basketball court, a gym, a yoga hall, a volleyball court, a climbing wall, and a swimming pool.

NEWLY COMMISSIONED BUILDINGS ON CAMPUS

The campus development continued to make significant progress with the rolling out of the Guest House, the Central Arcade, the Open Air Theatre, apartments of various size (1 BHK, 2 BHK and studio apartments), and some new hostel blocks were occupied by IITGN. The Bank and the Medical Centre have already started operating from their new location in the Central Arcade.

ART ON CAMPUS

To further enhance the campus experience, add to its beauty, and encourage academic development, IITGN has embarked upon an ambitious “Art on Campus” project, which focuses on art installations around the campus. The Institute has engaged an external consultant to develop a dynamic long-term master plan for this project that is aimed at establishing a connection between buildings, social settings and their surrounding environments.

POST OFFICE ON CAMPUS

Adding a significant feature to the IITGN campus infrastructure, the Department of Post has set up a sub-Post Office inside the Institute campus from Oct 29, 2021, to provide various postal and other services to the community. The institute has also been allotted an exclusive pin code of 382055 to facilitate faster delivery of mails/posts.

MAKER BHAVAN

The Maker Bhavan at IITGN promotes the spirit of making by adopting active learning approaches within academic programmes at the institute. It offers active learning focused programmes, academic courses, research services and a startup-industry engagement facility. It is equipped with state-of-the-art resources such as advanced 3D printing FDM and SLA technology, computer-controlled milling, laser cutter, form box, electronics prototyping, interactive design lounge and interactive classroom space. It is a collaborative makerspace where students can think, design and make ideas into real functional prototypes/ products. Students opted for full semester project courses during the academic year. It also offers startup/industry membership to access the makerspace facility at IITGN. The facility was inaugurated on Apr 9, 2022 by Dr Hemant Kanakia, founder of the California-based charity Maker Bhavan Foundation and Prof Amit Prashant, Director of IITGN.

TINKERERS’ LAB

IITGN emphasizes project-based active learning both inside and outside the classroom. Continuing this vision, Tinkerers’ Lab provides a workspace for the entire IITGN community to channel their creativity into productive, meaningful, and constructive mechanisms, to remove systemic silos and rebuild boundaries. In this process, the students engage in design-driven and technology-based

innovations. We are equipped with high-end machines including dual extrusion 3D printer, laser cutting and engraving machines, vinyl cutter and PCB milling machines as well as electronics and craft components for students to experiment freely and convert concepts and ideas to tangible engineering products.

In the past year, although many offline activities were affected due to the COVID-19 pandemic, we were able to transfer our active learning paradigm to the online mode. To boost up the curiosity of first year students, we sent out hardware kits including a microprocessor, and various sensors with specific problem statements. We also organized a workshop on ROS (Robot Operating System) which is a starting point for acquiring skill in the field of robotics. The workshop was attended by participants from outside IITGN as well as those from ISRO. For the next year, Tinkerers' Lab aims to build a project repository to document the achievements of previous students and also to encourage new students to excel further. We have also set up an online inventory of available materials on our website, which provides easy access for the community to search and issue any required component.

EVENTS:

- **Laser Fair:** To inculcate creativity among the students of IITGN, Tinkerers' Lab organised this event during **Mar 27 - Apr 2, 2021**, in which students were asked to create designs of their choice and we helped them to make those designs into tangible objects using laser cutter and vinyl cutter.
- **Lab visits and demonstrations**: Inspiring from our vision, many institutes including MIT WPU, SRPEC and NIFT Gandhinagar have visited our lab to learn about our culture and environment of IITGN.

"Just Make It" - Webinar Series: Maker Bhavan and Tinkerers' Lab jointly hosted a webinar series on **Mar 25, 2022** in which we had conversations with successful entrepreneurs and CEOs about their entrepreneurial journey.

INFORMATION SYSTEMS TECHNOLOGY FACILITY (ISTF)

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

- servers, classrooms, campus network, internet and email services, firewall, communication devices
- High-Performance Computing (HPC) Facility and Computer Lab
- maintenance of computer hardware and software

The ISTF houses video conference rooms via the National Knowledge Network (NKN) line. The infrastructure of the rooms is also equipped to facilitate hybrid virtual classes. The hybrid classroom is an advanced learning environment, created using high-speed internet, supplicated video conferencing devices, and other gadgets to help in classroom teaching. These classrooms provide interactive and flexible approaches to e-learning, and can also be used for facilitating collaborative discussions, hosting seminars/webinars and workshops. The ISTF has been proactive in facilitating online learning facilities and also encouraged members to make the best use of software and other tools like Zoom, Google Meet and Microsoft Teams. VPN service has been provided to the students so they can work remotely during this unprecedented pandemic. Moreover, we have implemented online proctoring software (Mettl), which could be seamlessly used to conduct online assessments. In addition to the above, ISTF team members have technically supported the outgoing PhD students and their supervisors to seamlessly conduct the final doctoral defenses.

Recently the ISTF has commissioned the installation of new hardware and software for IMS Project in its production environment. Also the virtual servers from the old landscape to new upgraded hardware was moved seamlessly offering a better throughput and overall performance.

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

- Implemented IT infrastructure at new hostels, guest house, studio apartments and central arcade
- Upcoming National Supercomputing Mission, having a peak performance of 650 TF will be launched soon.
- Initiated the registration and implementation of the Bulk SMS service for the Institute.

MEDICAL CENTRE

The Medical Centre's team of doctors, nurses, and staff were on the frontline in the fight against the COVID-19 pandemic throughout the year. The Medical Centre served the community's healthcare needs with a team of four consulting doctors, a gynaecologist, a pediatrician, and two trained male nurses and an assistant nurse on a full-time basis.

COVID CARE FACILITY ON THE CAMPUS

During the second wave, the Institute converted its newly constructed guest house into an isolation-cum-COVID Care Facility to treat COVID positive patients from the community with mild to moderate symptoms. Based on the defining institutional principles of inclusivity and empathy, the facility provided isolation and health support to the entire IITGN community, including students, project staff, faculty, admin staff, contractual workers such as drivers, mess staff, housekeeping staff, gardeners, security personnel, and their family members. More than 240 COVID patients, including 121 students, were treated at the facility, with a peak of 95 at a time in mid-April. The facility provided basic medical services, such as temperature and oxygen readings, advice from doctors and nurses, medicines, RT-PCR tests, nutritious meals, as well as hard-to-access health services such as oxygen concentrators and cylinders. Institute medical staff and ambulance services were available 24 x 7. The facility also helped patients find beds in local hospitals when needed. Moreover, counselling services offered psychological support to patients, medical staff, and their families. The facility was managed by the COVID-19 Medical Response Team of IITGN under the leadership of **Prof Gaurav Srivastava.**

PHYSIOTHERAPY CENTRE

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

DAY CARE CENTRE

The IITGN Day Care Centre was started in March 2014 as a community initiative to provide a safe and nurturing environment to the children from IITGN families. Located in one of the housing blocks close to community residences, the child-friendly facility is nothing less than their own beautiful home. Passionate community members who have had some prior experience in child care help with designing the curriculum and facilitating the day-to-day operations. We are proud to have well trained and loving staff members who provide feedback-based childcare. At our daycare we firmly believe in treating our children as little people. This helps them bond well with other children and caretakers and would eventually help them grow into compassionate, considerate and responsible individuals. During 2021-2022, apart from some inevitable closure due to the pandemic, the daycare resumed full-time operations to the extent that was safely possible. We created age-wise bubbles to ensure safety and minimize transmission. The staff and children were trained to follow all the necessary precautions as advised by the institute.

The centre offers unique, non-traditional developmental programs for the children to learn through music, dance, play and exploration. Some of our flagship programmes are listed below:

MORNING PROGRAMME: From July 2018, the daycare started a new morning programme where children from the community could enroll just like they would in any pre-school. Almost a full year into completion, this programme is being found valuable and loved by parents and kids alike as it is a fine mélange of traditional teaching methods and unconventional activities that suit every age group. Along with the range of programmes, our facility also expanded during this year. We now have a completely separate apartment for our infants and young toddlers, thereby ensuring that every child gets enough room to move around safely and freely during the activity times.

KIDS SUPPORTED AGRICULTURE (KSA): This is the most loved programme to date. It lets the kids get their hands dirty and grow their own veggies. This year we introduced this farming experience to our infants and toddlers as well. They truly enjoyed sowing and plucking, methi, spinach, tomatoes, coriander and carrots. Routine activities were designed keeping the sensory world of children in mind (sight, touch, taste, smell and sound).

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

OTHER EVENTS: The centre also hosts pajama parties, movie times, parents date nights, mango and amla picking sessions, festival celebrations and sports day events The daily routine in the daycare comprises music and movement activities, art and craft sessions, basics of yoga and gymnastics, story time, classroom teaching through play and exploration and also sand and water play sessions.

The combination of these activities hones the children's concentration, imagination, problem solving and motor skills. In summary, our unique curriculum focuses on holistic development to bring out the best in the little children and thereby promote their progress. These activities thus function as vital tools for the development of key physical, social and intellectual skills in the children.

SUPPORT
FOR THE INSTITUTE

SCHOLARSHIPS

LAKSHMI VADALI EXCELLENCE SCHOLARSHIP

Mrs Lakshmi Vadali and Mr Kishore Konteti, UK-based well-wishers of the Institute, have established the Lakshmi Vadali Excellence Scholarship at IITGN. The scholarship of Rs 1 lakh per year will support a top-ranking and financially disadvantaged female student admitted to IITGN until completion of her BTech programme. Mrs Lakshmi and Mr Kishore, both born and brought up in India, emigrated to the UK more than two decades ago. Mrs Lakshmi completed her Post-graduate Certificate in Education from the University of Greenwich. She has been a passionate mathematics teacher, Director of Mathematics, and Governor of two secondary schools in the UK. Currently, she is Assistant Principal at a large comprehensive public school in Suffolk, UK. Mr Kishore had completed his Master's in Engineering from Guindy College of Engineering, Chennai. He is working as a Solution Architect for a large technology company in London.

DR T G VISWESWARAIAH SCHOLARSHIP

Late Dr Visweswaraiah

Aparna & Avinash

Aparna Tumkur, a BTech alumna of 2019, and Avinash Tumkur, a BTech alumnus of 2014, have set up Dr T G Visweswaraiah Scholarship in honour of their late grandfather. This scholarship of Rs 1 lakh per year will support BTech students of IITGN. After completing BTech in Electrical Engineering with a President's Gold medal from IITGN, Aparna went on to pursue a masters degree from Stanford University, USA. She is working as a PMIC Systems Engineer at Qualcomm, USA. Avinash graduated from IITGN with a BTech in Mechanical Engineering and further completed his MBA from Duke University, USA. He is currently working as a Project Leader in Boston Consulting Group, USA

SHRI SATYANARAYAN KAKRANIA AND SHRI ANANDILAL BUBNA SCHOLARSHIPS

Shri Satyanarayan K

Shri Anandilal B

Rishi Bubna, a BTech alumnus of 2017, has set up Shri Satyanarayan Kakrania Scholarship in honour of his maternal grandfather. Ms Ngan Le has set up Shri Anandilal Bubna Scholarship in honour of Rishi Bubna's paternal grandfather. Each of these scholarships is of Rs 1 lakh per year and will support BTech students at IITGN. After his graduation in Mechanical Engineering from IITGN in 2017, Rishi pursued his Master's degree at Georgia Institute of Technology, USA, and is currently working as a Data Scientist at Amazon, USA.

Rishi Bubna

NISHA AND VIPIN JAIN SCHOLARSHIP

Dr Shruti Jain, a BTech alumna of 2013, has set up Nisha and Vipin Jain Scholarship in honour of her parents. This scholarship of Rs 1 lakh per year will support students at IITGN. After graduating with a BTech in Chemical Engineering with a President's Gold medal from IITGN, Shruti joined the University of Texas at Austin as a PhD scholar. She is currently working as a RET Design Engineer at Micron Technology, USA.

EXTENSION OF TML-FAP

TATA Motors Limited has extended its grant support for the TATA Motors Limited - Financial Aid Program (TML-FAP) at IITGN for one more year. TML-FAP was introduced in 2016 and provides financial assistance to students from economically weaker backgrounds. Once the beneficiary students are financially independent, they are expected to donate the money back to IITGN to support other students

CSR DONATIONS

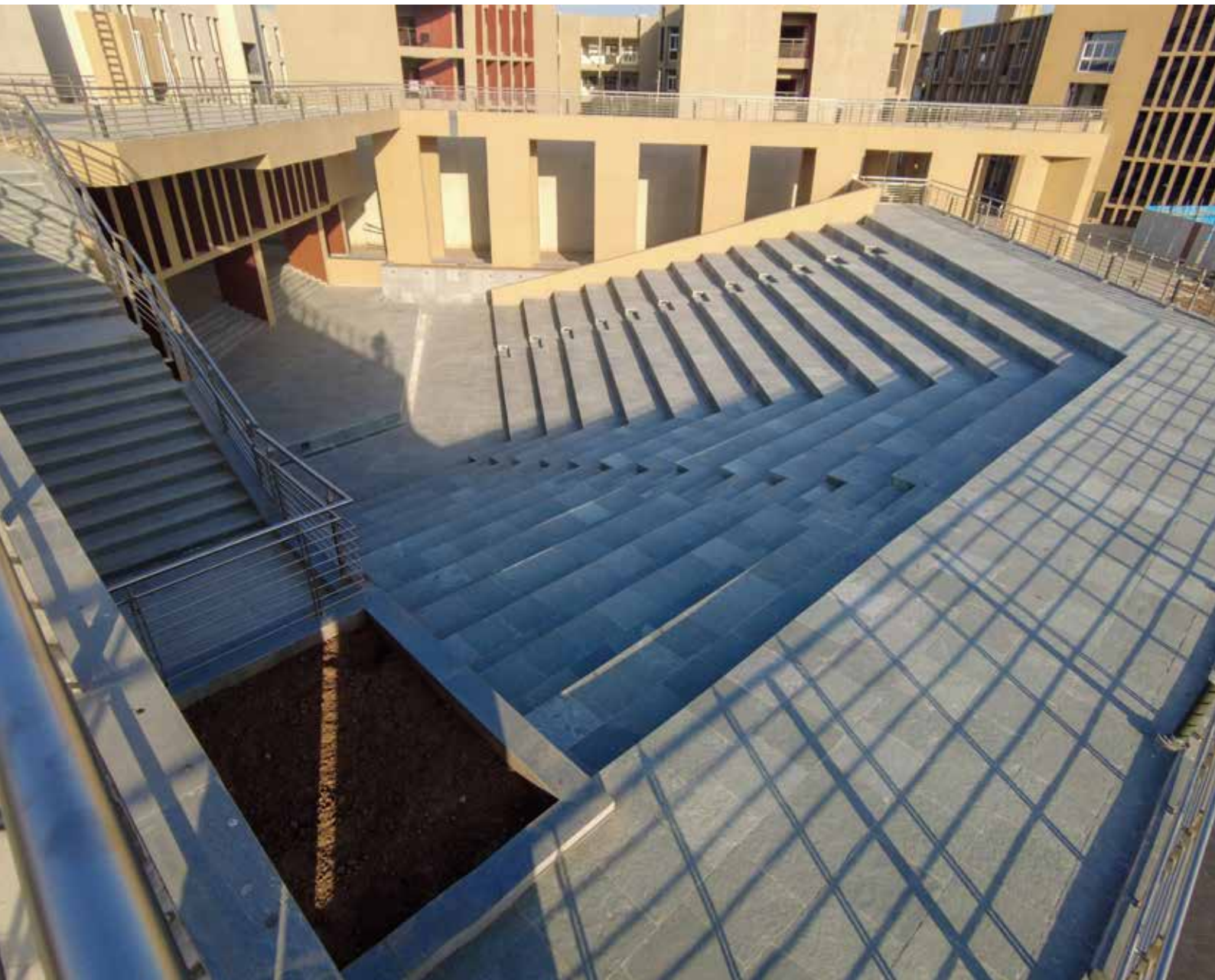
- Ingersoll Rand (India) Limited made a CSR donation for providing laptop devices to needy students at IITGN
- CSI Engineering Software Pvt Ltd has made a donation to IITGN towards General Excellence

SEVA SCHOLARSHIP

Yash Kotak, a BTech alumnus of 2014, has set up the **Seva Scholarship** in honour of his parents **Nina Kotak** and **Prashant Kotak**. The scholarship of Rs 1 lakh per year will support students at IITGN. Yash graduated from IITGN in Electrical Engineering with Minors in Management and Computer Science. He was the recipient of the Director's Gold Medal for Outstanding Overall Performance and the Medal for Outstanding Innovation. Currently, he is working as a Product Manager at Google India, Bangalore.

PROF B L JHA MEMORIAL SCHOLARSHIP

Mrs Seema Jha, a well-wisher of the Institute, has instituted **Prof B L Jha Memorial Scholarship** in memory of her late father. The scholarship of Rs 1 lakh per year will support the undergraduate students at the Institute. Mrs Seema Jha is a postgraduate in Physics and has been working as a teacher for the last ten years. She is also focusing on social work in the field of education for underprivileged classes and is a Managing Trustee and Co-founder of Samridhdhi Trust, Bangalore. Her father, **Prof B L Jha** was a Professor in the Department of Applied Physics, IIT(ISM) Dhanbad. He was a popular teacher, an able administrator, and a very compassionate human being, who left for his heavenly abode in Jan 2022.



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Akarsh A	PhD/EH/2020	Pathanamthitta
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Akhilesh Ravi	BTech/EE/2021	Bengaluru
Amit Prashant	faculty	Gandhinagar
Anand Yadav	BTech/EE/2019	Uttar Pradesh
Anashusen Saiyad	MTech/ME/2018	Vadodara
Ankita Joshi	BTech/MSE/2018	Pune
Ankush Mishra	BTech/ME/2021	Gandhinagar
Anshul Shivhare	BTech/EE/2020	Betul
Arun Gopalakrishnan Nair	MTech/EE/2014	Kochi
Atul Bhargav	faculty	Gandhinagar
Avinash Soda	BTech/CE/2019	Jodhpur
Ayan Rakshit	BTech/MSE/2020	Mumbai
Arup Lal Chakraborty	faculty	Gandhinagar
Bajrang Lal Kudi	BTech/ME/2015	Jaipur
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Banerjee Hritwick	MTech/EE/2014	Jalpaiguri
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Falguni Tailor	staff	Gandhinagar
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Lakshman Nallan Chakravarthula	staff	Bengaluru
Madhumita Sengupta	faculty	Gandhinagar
Mandlem Manikanta	BTech/EE/2019	Hyderabad
Manjot Singh	BTech/CL/2016	Jharkhand

* For part of the year

Manvendra Singh Chauhan	BTech/ME/2020	Jaipur
Margaj Om Vijay	BTech/ME/2016	Aurangabad
Mohak Patel	BTech/ME/2013	Bharuch
Mridul Sharma	BTech/CSE/2020	Fatehabad
Meena Joshi	staff	Gandhinagar
Meera Mary Sunny	faculty	Gandhinagar
Naman Jain	BTech/CE/2019	Jaipur
Naveen Deepak V	BTech/EE/2012	Telangana
Nidal Raj Bhuria	MTech/CE/2013	Jammu & Kashmir
Nidhi Gour	well-wisher	Gandhinagar
Nihar Kotak	BTech/ME/2014	Borivali
Nitin Kaoshik	BTech/EE/2021	Borivali West
N Ramakrishnan	faculty	Gandhinagar
Nihar Ranjan Mohaparta	faculty	Gandhinagar
Paturu Veerabadra Lokesh	BTech/EE/2016	Nellore
Pooja Susan Thomas	PhD/HSS/2016	Ahmedabad
Prathmesh Juvatkar	student	India
Pratyul Kapoor	BTech/CL/2012	Jaipur
Prerna Singh	BTech/CE/2017	Jabalpur
Puneet Swami	BTech/CE/2019	Chandigarh
Rahul Jain	MTech/CS/2019	Ahmedabad
Rajat Jain	BTech/ME/2013	Jaipur
Rakesh Ranjan	BTech/ME/2016	Bihar
Sachchit	BTech/ME/2015	Bengaluru
Sandesh Achari	BTech/EE/2014	Pune
Saurabh Gangwal	BTech/ME/2012	Ajmer
Saurabh Singhal	BTech/ME/2015	Rajasthan
Sayan Kar	MTech/CL/2013	Hooghly, West Bengal
Shubham Bhargav	BTech/ME/2014	Haryana
Shubhranshu Singh	BTech/EE/2020	Chhattisgarh
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Smit Alkesh Shah	BTech/CL/2014	Vadodara
Sriharitha Rowthu	faculty	Gandhinagar
Suman Kumari	BTech/CL/2017	Jammu and Kashmir
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Santosh Raut	staff	Gandhinagar
Sharmistha Majumdar	faculty	Gandhinagar
Sudhanshu Sharma	faculty	Gandhinagar
Superb K Misra	faculty	Gandhinagar
Tarkeshwar Singh	BTech/EE/2013	West Bengal
Tony Thomas	PhD/CG/2019	Cochin
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V V S Akhil	BTech/MSE/2020	Visakhapatnam
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Vikram Ashok Karde	PhD/CL/2017	Nagpur
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Vootla Krishna Sai	BTech/EE/2017	Andhra Pradesh
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Yash Bohre	BTech/ME/2018	Sagar, Madhya Pradesh
Yash Marda	BTech/CL/2012	Kolhapur
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Aarthy E	PhD/PH/2021	Bengaluru
Abdul Ghaffar	MSc/PH/2019	Siddharthnagar
Abhavya Chandra	BTech/CL/2021	Jamshedpur
Abhay C A	BTech/ME/2015	Kerala
Abhay Varshney	BTech/CE/2018	Uttar Pradesh
Abhijit Jana	MSc/PH/2018	Purba Medinipur
Abhijith T K	MTech/CE/2018	Kozhikode
Abhik Patel	BTech/ME/2012	Surat
Abhilash Dubey	MTech/EE/2021	Uttar Pradesh
Abhinav	BTech/ME/2021	Ahmedabad
Abhinav Narayan Harish	BTech/EE/2020	Pune
Abhinav Singh	BTech/ME/2016	Madhya Pradesh
Abhinay Rana	BTech/CL/2018	Uttar Pradesh
Abhishek Dubey	BTech/CL/2020	Vadodara
Abhishek Krovvidi	BTech/ME/2012	Jodhpur
Abhishek Ramesh	MA/HSS/2021	Kerala
Abhishek Sahai	PhD/CG/2020	Prayagraj
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Abhishek Sharma	BTech/ME/2013	Hyderabad
Abhishek Verma	BTech/CL/2016	Faizabad
Abhisht Tiwari	BTech/CSE/2021	Indore
Adappa Ashray Amarnath	BTech/CL/2017	Panaji
Adarsh Singh Thakur	MTech/CE/2020	Surat
Adil Mohammad	MTech/ME/2019	Etawah
Aditi Garg	student	Gandhinagar
Aditi Sethia	MSc/MA/2019	Chittorgarh
Aditi Sharma	BTech/CL/2019	Ujjain
Aditya	student	India
Aditya Goel	BTech/EE/2018	Vadodara
Aditya Kumar	BTech/MSE/2018	India
Ahamed Naji Shaham	BTech/ME/2018	Kerala
Ahila Sekar	MA/HSS/2020	Tamil Nadu
Ahteshamul	MTech/CL/2020	Uttar Pradesh
Aishwary Omkar	BTech/CE/2019	Bhopal
Aishwarya Vijayakumar	MTech/BE/2018	Sonebhadra
Ajay Bhardwaj	BTech/CE/2020	Karauli
Ajay Devedwal	BTech/ME/2015	Jaipur
Ajay Singh Shekhawat	BTech/CE/2018	Jodhpur
Ajinkya Dahale	BTech/ME/2013	Mumbai
AJinkya Mukund Kulkarni	BTech/ME/2012	Nashik
Ajinkya Tupkar Jain	BTech/EE/2016	Indore
AJJ Patel	BTech/EE/2021	Patan
Akansha Yashasvi	MA/HSS/2021	Uttar Pradesh
Akarsh A	PhD/EH/2020	Pathanamthitta
Akash Gupta	student	Gandhinagar
Akash Verma	MTech/CL/2020	Maharashtra
Akashsingh Rajput	PGDIIT/ESS/2018	Ahmedabad
Akhil Ashar	BTech/ME/2020	Mumbai
Akhil Patnaik	MTech/ME/2017	Naktala
Akshay Mittal	BTech/CE/2020	Dehradun
Akshay Srivastava	MTech/MSE/2020	Uttar Pradesh
Akshay Tandale	BTech/ME/2021	Gandhinagar
Akshay Verma	BTech/CL/2017	Ropar
Alok Singh	BTech/EE/2016	Allahabad
Alpana Thorat	PhD/CL/2016	Nashik
Amalnath M	MTech/ME/2017	Calicut
Amar Mandhyan	MTech/CE/2015	Vadodara
Amazon Smile	well-wisher	USA
Amber Kothari	BTech/ME/2017	Sagar
Amit Asher	BTech/EE/2012	Vadodara
Amit Jangid	BTech/ME/2020	Jaipur
Amit Kumar	MSc/MA/2018	Lucknow
Amit Reza	student	Gandhinagar
Amit Yadav	BTech/ME/2017	Mathura
Amitha Rani Mulastham	BTech/MSE/2021	Telangana
Amjeth Basheer	MTech/CE/2018	Kottayam
Amrutaben K Vaghela	student	Gandhinagar
Anandsingh Chauhan	MTech/EE/2020	Ahmedabad
Anil Kumar	BTech/CE/2019	New Delhi
Anirban Majumdar	well-wisher	India
Anish Dubey	BTech/CL/2020	Pune
Anjali Kumari	BTech/MSE/2020	Kangra
Anju Singh	MSc/MA/2021	Madhya Pradesh
Ankit Agarwal	BTech/ME/2017	New Delhi
Ankit Ghanghas	BTech/CE/2019	Haryana
Ankit Jaiswal	MTech/MSE/2020	Varanasi
Ankit Mittal	BTech/ME/2017	Bharatpur
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Ankit Phogat	MSc/PH/2019	Haryana
Ankit Sharma	student	Gandhinagar
Ankit Verma	MTech/EE/2021	Jalaun

Ankita Nandi	Mtech/EE/2020	West Bengal
Ankita Sharma	BTech/ME/2016	Mohali
Ankur Meena	BTech/EE/2014	Rajasthan
Ankur Singh	BTech/CL/2019	Ranchi
Ankur Yadav	BTech/CL/2019	Khargone
Anmol Kishore Raina	BTech/CE/2018	Jammu
Anoop Kumar	MTech/EE/2021	Uttar Pradesh
Anoop Singh	MSc/PH/2018	Agra
Anshul Gupta	BTech/ME/2015	Agra
Antima Meena	BTech/MSE/2020	Gandhinagar
Anu Vivek	BTech/ME/2014	Ernakulam
Anubha Agrawal	MTech/CL/2017	Khurai
Anubhav Jain	BTech/CSE/2021	Ahmedabad
Anukesh K A	student	Gandhinagar
Anupam Swarnkar	BTech/ME/2021	Chattisgarh
Anuracti Sharma	MA/HSS/2019	Andheri West
Anurag Agrawal	BTech/ME/2017	Varanasi
Anurag Dhebana	BTech/CE/2019	Jhunjhunu
Anurag Goyal	BTech/CE/2017	Hyderabad
Anurag Kumar Gupta	BTech/CE/2019	Ballia
Anurag Singhania	BTech/CL/2017	Kolkata
Anusha Gupta	BTech/CE/2018	Raipur
Anushikha	BTech/MSE/2020	Haryana
Anushka Vashistha	MTech/ESS/2020	Jaipur
Aparna Arya	BTech/EE/2017	Rajasthan
Aparna Menon	MTech/CL/2014	Hyderabad
Aparna Rathi	MSc/PH/2020	Muzaffarnagar
Aparna Shrivastava	MTech/CE/2019	Bilaspur
Apeksha Srivastava	MTech/BE/2019	Lucknow
Apoorv Agnihotri	BTech/CSE/2020	Jabalpur
Arable Reshma Mallinath	MTech/CL/2017	Osmanabad
Arava Pavan Kishore	BTech/EE/2012	Hyderabad
Arik Pamnani	BTech/EE/2019	Lucknow
Arindom Gogoi	MTech/ESS/2021	Hyderabad
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Ashish Tiwari	MTech/EE/2020	IIT Gandhinagar
Ashish Yadav	MTech/MSE/2019	Ahmedabad
Ashu Gupta	staff	Gandhinagar
Ashutosh Sonpal	MTech/CE/2018	Andhrapradesh
Athira Haridas	MTech/EE/2019	Ernakulam
Atul Sharma	MTech/ME/2018	Jaipur
Avinash Joy Bara	BTech/CL/2021	Gandhinagar
Avisina Charitej Reddy	MTech/CE/2020	Kadapa
Ayaz Lakhani	BTech/ME/2019	Vadodara
Ayon Biswas	BTech/EE/2019	Bhopal
Ayush Choudhary	BTech/ME/2015	Indor
Ayush Gupta	BTech/MSE/2019	Kanpur
Ayush Jain	MTech/ME/2016	Gwalior
Ayush Mathur	BTech/CL/2018	Jaipur
Ayush Nema	MTech/CL/2020	Velachery
Ayush Shrote	BTech/EE/2018	Bhopal
Ayush Singh	BTech/CE/2020	Bijnor
Ayushi Tyagi	MSc/CH/2017	Gurgaon
Ayushman Tripathi	BTech/EE/2018	New Delhi
Azba Shaikh	MSc/CG/2019	Bilimora
B Abhishek Sharma	BTech/ME/2013	Hyderabad
B Ratna Bharti	MA/HSS/2016	Faridabad
Babita	MSc/MA/2017	Faridabad
Baby Ziliya N A	MSc/CG/2018	Haryana
Badri Vishal Meena	BTech/CL/2018	Gandhinagar
Baishali Panda	MTech/ME/2017	Vanivihar
Bala Harsha Srusti	MTech/CE/2020	Telangana
Balubai Sreedhar Gop	BTech/CE/2018	Nellore
Banoth Vishnu Sai Naik	BTech/MSE/2021	Telangana
Barma Abhishek	MTech/EE/2019	Khairatabad
Baviskar Pushpak Kailas	BTech/CE/2019	Aurangabad
Behere Siddhartha Ravindra	MTech/ME/2017	Vadodara
Bharat Lal Meena	MSc/MA/2017	Dausa
Bharat Shara	BTech/ME/2012	Ahmedabad
Bharatesh Rayappa Shiraguppi	MSc/CG/2017	Belgaum
Bharg Mehta	BTech/ME/2020	Surat
Bhargav Chauhan	BTech/ME/2017	Rajkot
Bhargav Kumar Thadem	BTech/EE/2012	Telangana
Bhaskar Jyoti Saikia	BTech/CL/2018	Assam
Bhaskar Shukla	PGDIIT/ME/2019	Bhopal
Bhawani Shankar	MSc/MA/2020	Barmer
Bhoge Shashank Vilas	BTech/CE/2019	Amravati
Bhoir Mandar Suresh Smita	MTech/EE/2015	Raigad
Bhoomika Sonane	MTech/EE/2016	Ujjain
Bhoopendra Kumar	MTech/MSE/2018	Pathanamthitta
Bhupendra Kumar	BTech/MSE/2018	Jalore
Bidyan Basumatary	BTech/MSE/2020	Ghoramari
Biplob	MTech/EE/2020	Tirap
Bodhi Dipra Mukherjee	MTech/BE/2021	Gandhinagar
Borse Dinesh Anil	BTech/CE/2018	Aurangabad
Brajesh Singh	MTech/MSE/2019	Firozabad
Buditi Prudhvi	BTech/CL/2020	Vizianagaram
Bukya Vinay	BTech/MSE/2020	Adilabad
Byrapuram Venkata Vijaya Bharath R	BTech/EE/2016	Nandyal Kurnool
Camellia Chakraborty	MTech/CL/2019	Chennai
Chakka Snehith	BTech/EE/2020	East Godavari
Chakka Yaswanth Sai Kiran	MTech/EE/2018	Andhra Pradesh
Challa Sai Ajay Narendra	MTech/ME/2020	Andhra Pradesh
Chandan Kumar Sahoo	MTech/MSE/2019	Puri
Chandan Nandi	MTech/BE/2021	West bengal
Chandni R	MSc/MA/2021	Gujarat
Chandra M Srivastava	well-wisher	USA
Chandra Sekhar Ravuri	MTech/EE/2018	Bengaluru
Chandrakumar Appayee	faculty	Gandhinagar
Chandrama Ghosh	MTech/BE/2021	West Bengal
Charu Oberoi	MTech/CL/2018	Jaipur
Chaudhari Divya Jeevraj	BTech/CE/2019	Aurangabad
Chaudhary Kunal Ramkishun	BTech/CL/2016	Mumbai
Chavali Bharath Chandra	BTech/EE/2020	Krishna
Chekkala Sai Srishal	BTech/CE/2020	Mancherial
Chenchala Sai Ramana Reddy	BTech/EE/2017	Hyderabad
Chennuri Prateek	BTech/EE/2021	Telangana
Chetan Devkishin Pahlajani	faculty	Gandhinagar
Chetan Patil	BTech/CL/2015	Thane
Chinmay Ajnadkar	BTech/EE/2016	Jalgaon
Chinmay Shirpurkar	BTech/EE/2018	India
Chintakayala Venu Gopal	BTech/CE/2021	Anand
Chitipolu Gowtham	BTech/ME/2020	Vizianagaram
Chitranshu Kumar	BTech/EE/2016	Etawah
Chotoo Singh	MSc/PH/2021	Nagaur
Choudhary Saurabh Sunil	BTech/CE/2019	Bhandara
Chowhan Santhosh	BTech/CL/2016	Wesly Nagar
Chsy Startafw	well-wisher	USA

* For part of the year

Dabhi Parth Lalitkumar	BTech/ME/2020	Ahmedabad
Danish Mansoor	BTech/CE/2020	Jammu and Kashmir
Daphisha Mary Nonghuloo	MSc/PH/2018	Shillong
Darshan Patel	BTech/ME/2019	Palanpur
Darshita Jain	MTech/CSE/2020	Raipur
Datla Surya Vikranth Varma	BTech/CL/2012	Kakinada
Dave Sowill	BTech/ME/2018	Surat
Dave Ujash Rameshwar	BTech/EE/2015	Ahmedabad
Davinder	MTech/ME/2017	Mohali
Deep Bakshi	MTech/ME/2019	Deesa
Deepa Dixit	PhD/CL/2020	New Delhi
Deepak Samal	MTech/CE/2015	Bhubaneswar
Deepak Singh	MSc/MA/2018	Guntur
Deepesh Kumar	PhD/EE/2018	Chhattisgarh
Deepika	student	India
Deepika Soni	BTech/EE/2021	Bhopal
Deepti Chopra	BTech/EE/2014	Thaltej
Deshpande Shubham Gopal	BTech/ME/2021	Ahmedabad
Devanand	BTech/CE/2018	East Champaran
Devanshu Manoj Jain	BTech/CL/2017	Vadodara
Devarsh Barbhaya	staff	Gandhinagar
Devendra Meena	BTech/ME/2017	Rajasthan
Dewansh Rastogi	BTech/CL/2017	Amethi
Deyyam Avinash	BTech/EE/2016	Srikakulam
Dhanapala Prudhviraj	MTech/EE/2018	Andhra Pradesh
Dhanurdhar Ramswamy	staff	Chinchwad
Dharmendra Kumar	BTech/CE/2017	Vaishali
Dharmendra Sablaniya	BTech/MSE/2020	Rajasthan
Dhruv Pancholi	BTech/CL/2015	Surat
Dhyey Shah	BTech/ME/2015	Ahmedabad
Dighbijoy Samaddar	MSc/CG/2019	Kolkata
Dileep Singh	BTech/MSE/2018	Jalore
Dimple Khattar	MA/HSS/2020	New Delhi
Dipen Somani	BTech/EE/2016	Himatnagar
Diptesh Datta	MTech/EE/2020	Kolkata
Divya Bansal	BTech/CL/2013	Kota
Divyangi N Chaudhari*	staff	Gandhinagar
Durgesh Bagri	BTech/CL/2014	Rajasthan
Ekta	student	India
Ekta Khemchandani	MSc/CG/2020	New Delhi
Ekta Prashnani	BTech/EE/2013	Jabalpur
Ekta Samani	BTech/EE/2017	Kolhapur
Gagan Bhatt	MSc/PH/2021	Faridabad
Gajendra Saini	MSc/PH/2021	Jaipur
Gameti Nirav	BTech/CL/2020	Nadiad
Ganesh Jabotra	MSc/CH/2021	Jammu & Kashmir
Garima Chaudhary	BTech/CE/2018	Chittorgarh
Garima Raghuwanshi	BTech/CL/2013	Madhya Pradesh
Gaurav Gupta	BTech/EE/2016	Mumbai
Gaurav Jogi	MTech/MSE/2021	Gandhinagar
Gaurav Khandelwal	MTech/CE/2020	Jaipur
Gaurav Sharma	BTech/ME/2016	Chennai
Gautam Kumar	PGDIIT/MSE/2017	Bihar
Gavasane Ritu Milind	BTech/ME/2014	Pune
Giridhari Pattnaik	MTech/ME/2018	Rajasthan
Gottumukala Sai Rama Krishna	BTech/EE/2018	Hyderabad
Goutham Varanganti	student	Gandhinagar
Govind Kumar Sharma	MSc/CH/2018	New Delhi
Gunda Harini	MTech/CL/2015	Guntur
Gundeep Kaur Sudan	staff	Gandhinagar
Gupta Sagar Rajeev	BTech/EE/2020	Navi Mumbai
Haby Koshy Mathew	MSc/CG/2016	Goa
Hamza Mohd Zubair	MSc/CG/2015	Uttar Pradesh
Hani Khamar	staff	Gandhinagar
Hardeep	BTech/EE/2019	Haryana
Hari Singh Dhayal	MSc/MA/2021	Rajasthan
Harikrishnan	BTech/ME/2013	Thrissur
Harsh Bhargava	well-wisher	USA
Harsh Khandelwal	BTech/CL/2017	Kota
Harsh Shah	PhD/CE/2019	Ahmedabad
Harshal Thool	BTech/CL/2021	Wardha
Harshit Nema	MTech/CE/2017	Jabalpur
Harshita Gupta	student	India
Heda Shashank Kamlesh	BTech/EE/2015	Amritsar
Heer Ambavi	BTech/CSE/2020	Ahmedabad
Hemant Gite	MTech/CL/2013	Thane
Hemant Kumar	BTech/CE/2017	Haryana
Hemanth Krishnan R	MTech/ME/2020	Palakkad
Henil Shah	MTech/EE/2021	Navsari
Heram Naik Bhukya	BTech/ME/2021	Gandhinagar
Himanshu Kumar Singh	MSc/CH/2017	Uttar Pradesh
Hiralal	BTech/ME/2016	Jalore
Hiralben Mitalkumar Trivedi	well-wisher	Gandhinagar
Homit Singh Pal	BTech/CE/2018	Raisen
Hydarali M T	BTech/ME/2016	Malappuram
Ihsan K	student	Gandhinagar
Indrajit Narah	MSc/MA/2018	Gandhinagar
Ingle Varad Jitendrakumar	BTech/MSE/2020	Aurangabad
Ishita Doshi	MTech/CS/2019	Kolkata
Ishva Patel	student	Ahmedabad
Jagmohan	BTech/ME/2019	Gurgaon
Jainendra Jain	MTech/EE/2021	Dahod
Janga Sai Kiran	BTech/ME/2018	Hyderabad
Jayesthi Mali	MSc/PH/2021	Rajasthan
Jayshankar Sharma	BTech/MSE/2020	Ahmedabad
Jeenam Jindal	BTech/CL/2012	Sholinganallur
Jeetendra	BTech/CE/2021	Hamirpur
Jerry Samuel	MTech/EE/2018	Pondicherry
Jhaveri Anshal Jayeshbhai	MTech/ME/2016	Surat
Jignesh R	MTech/CL/2013	Vadodara
Jinesh Rajesh Shah	BTech/ME/2014	Maharashtra
Jitendra Agrawal	PGDIIT/EE/2020	Rajasthan
Jitesh Mittal	BTech/CE/2020	Jaipur
Joel V Joseph	MSc/CG/2019	New Delhi
Joshi Bhavin Rasikbhai	MSc/MA/2020	Rajkot
Jyoti Chauhan	staff	Gandhinagar
Jyotsna Saini	MSc/CH/2017	Gurugram
K S Santhosh Kumar	BTech/EE/2020	Chittoor
Kadam Omkar Devidas	BTech/ME/2020	Nanded
Kadam Sujay Dilip	PhD/EE/2021	Gandhinagar
Kadeeja Nourah B H	MA/HSS/2019	Kallai
Kahkashan Bansal	MTech/BE/2021	Tohana
Kamaraj P	MSc/MA/2020	Dharmapuri
Kamlesh Choudhary	BTech/CE/2018	Jaipur
Kanchan Patel	BTech/CL/2012	Jabalpur
Kanzariya Bhavya Jayantilal	BTech/CL/2017	Rajkot
Kapil Dev	MSc/PH/2019	Haryana
Kapil Sharma	BTech/ME/2018	Gurgaon
Karan Kumar	MTech/CSE/2020	Bulandshahr
Karan Palaskar	BTech/ME/2016	Aurangabad
Karanam Avinash	BTech/ME/2021	Andhra Pradesh
Karishma Gupta	MSc/PH/2019	Haryana
Karra Uma Naga Srikar	BTech/MSE/2021	Andhrapradesh
Karthik Subramanya Karvaje	BTech/ME/2020	Dubasipalya
Kartik Hillal	student	Indore
Kartik Kumar	MSc/MA/2016	Saharanpur
Kartik Naik	BTech/CL/2021	Andhra Pradesh
Kaushal Chhimpa	BTech/CE/2020	Churu
Kaushal Dadsena	MTech/EE/2020	Chhattisgarh
Kaushal Meena	MSc/PH/2021	Jaipur
Kaushal R Modi	BTech/ME/2021	Thaltej
Kaushik Bhowmik	MTech/BE/2019	Tripura
Kaustubh K	MTech/CE/2018	Indore
Kaustubh Jayant Udas	staff	Pune
Kaustubh Kapure	BTech/ME/2012	Harsool

Kavish Kumar	BTech/CL/2019	Uttar Pradesh
Kavita Vaishnaw	BTech/CSE/2021	Bengaluru
Kesani Kalyani	BTech/CL/2017	Telangana
Keya Ghosh	well-wisher	West Bengal
Khili Khamesra	BTech/CL/2020	Kanpur
Khushboo Sahrawat	MA/HSS/2021	Delhi
Khushdeep Singh	BTech/CE/2019	Patiala
Khushwant Fatnani	MTech/CL/2019	Raipur
Kimti Manawa	MTech/CE/2019	Jammu
Kishore Kumar Jagini	MSc/CG/2016	Warangal
Koda Dinesh Kumar	BTech/EE/2019	Visakhapatnam
Kolli Mohan Krishna	MTech/CE/2017	Krishna
Komal Bajaj	MSc/CH/2018	Jhajjar
Komal Tarunkumar Sangtani	staff	Gandhinagar
Konduru Venkata Naga Sai Ravi Teja	BTech/ME/2016	Guntur
Kotha Srinu	MSc/CH/2017	Srikakulam
Koushik Mani	BTech/ME/2016	Guwahati
Kratika Bhagtani	BTech/ME/2016	Banka
Krishna Kumar	MTech/EE/2020	Bihar
Krishnesh Shantilal Mehta	PhD/CG/2020	Ahmedabad
Kriti Kapil	MSc/CH/2019	Lucknow
Kritika Gosain	MA/HSS/2020	New Delhi
Krupa Shah	PhD/HSS/2019	Pondicherry
Kshitij Singh	BTech/EE/2017	Ghaziabad
Kukunuri Sai Venkata Ratna Rithwik	BTech/CSE/2020	Vijayawada
Kuldeep Jajoria	MTech/EE/2021	Gandhinagar
Kumar Saurav	MTech/EE/2018	Varanasi
Kumari Sushmita	MTech/CL/2016	East Champaran
Kunal Singhmar	BTech/CL/2019	Kanpur
Kunal Verma	BTech/MSE/2020	Varanasi
Kunwar Shivam Pratap	BTech/MSE/2020	Varanasi
Kunzang Dolkar	MSc/CH/2021	Jammu & Kashmir
Kushagra Bhargava	BTech/CL/2017	Kota
Kushal Salecha	BTech/EE/2016	Ahmedabad
Kushwaha Amarkumar Ayodhyasingh	MTech/EE/2017	Vadodara
Kusum Panwar	MTech/CL/2018	Dehradun
Lakh Chand	BTech/CL/2017	Mahoba
Lakhan Agrawal	BTech/CL/2020	Aligarh
Lakshmi Narayan Meena	BTech/CL/2019	New Delhi
Lambhate Harshal Sandesh Sushama	MTech/CE/2018	Maharashtra
Lavalesh Kumar Bajpayee	BTech/CE/2019	Sitapur
Lavdeep Kaur	BTech/CL/2016	Sriganganagar
Leema Saikia	MSc/PH/2017	Dibrugarh
Lhingneichong Touthang	MSc/CH/2019	Manipur
Lokesh Singh	BTech/EE/2017	Jaipur
M Roshith	MTech/ME/2021	Telangana
Madhav Tiwari	BTech/CE/2021	Haridwar
Manab Diasi	MSc/CH/2021	West Bengal
Manasasri	staff	Gandhinagar
Manav Raj	BTech/EE/2017	Gaya
Mangesh Gangarde	BTech/ME/2014	Ahmednagar
Manis Kumar Lenka	MTech/CL/2019	Odisha
Manish Kumar Vishwakarma	MTech/EE/2016	Phoolpur
Manjeet Singh	MSc/CH/2021	India
Manjot Singh	BTech/CL/2016	Jharkhand
Manu Chaudhary	BTech/CE/2017	Jaipur
Margaj Om Vijay	BTech/ME/2016	Aurangabad
Maurya Jainidhi Chandraveer	BTech/CL/2017	Ahmedabad
Maya Kumari	BTech/CE/2019	Jaipur
Mayank Jain	BTech/CE/2017	Shivpuri
Mayank Khewaria	BTech/CE/2017	Jhansi
Mayank Kumar Jatoliya	MSc/MA/2021	Ajmer
Md Sahnawaz Alam	MSc/PH/2020	Gandhinagar
Md Zafar Ahmed	MTech/CL/2020	Ballia
Medha Deshpande	MA/HSS/2019	Bengaluru
Meena Joshi	staff	Gandhinagar
Meet Panchal	BTech/CSE/2020	Ahmedabad
Megh Patel	MTech/EE/2016	Anand
Meghali Garg	MSc/MA/2019	Punjab
Ngan Le	well-wisher	USA
Mihir Milind Bhalerao	BTech/ME/2016	Pune
Modi Harsh Jashvantbhai	BTech/ME/2018	Mehsana
Mohammad Hassan	MSc/CH/2017	Uttar Pradesh
Mohammad Naved	staff	Rajasthan
Mohd Umair Iqbal	MTech/CL/2016	Jammu & Kashmir
Mohit Chand	MTech/EE/2015	Varanasi
Mohit Garg	MTech/ME/2016	Chandigarh
Mohit Kumar	MSc/CH/2021	Delhi
Mohit Lakhani	MTech/CE/2020	Ahmedabad
Mohit Lamba	MTech/EE/2018	Jaipur
Monish Bhangale	BTech/CL/2015	Thane
Monu	MSc/MA/2018	Haryana
Bhanu Pratap Singh Gangwar	PhD/CH/2020	India
Hariharan P	PhD/CL/2016	Dharmapuri
Katla Jagadish Kumar	PhD/CH/2020	Mancherial
Shashi Prabhakar	PhD (PRL)/PH/2015	Bihar
Siddharth Vijay Kulkarni	PhD/CL/2017	Mumbai
Mridupavan Sonowal	MSc/CH/2017	Tinsukia
Mrityunjay Jha	MSc/CH/2021	Bihar
Ankita Sinha	PhD/ME/2021	Gandhinagar
Apoorva Ojha	PhD/EE/2019	Ahmedabad
Asha Liza James	PhD/CL/2020	Roorkee
Deekshi Angira	PhD/CH/2020	Bengaluru
Punya Lokesh Suri	MA/HSS/2020	Navi Mumbai
Mudit Rathor	BTech/EE/2016	Balaghat
Mukesh Kumar	BTech/CL/2017	Rajasthan
Mukesh Singh Rawat	BTech/EE/2015	Ajmer
Mukta Gundi	PhD/HSS/2020	Pune
Muzammil Rawoot	BTech/ME/2016	Thane
Nakka Suryasatyasanjeevi	MTech/ME/2017	Srikakulam
Naman Bansal	BTech/EE/2016	Haryana
Nanthini A	MSc/MA/2021	Palayamkottai
Narendra Jethabhai Rabadiya	staff	Gandhinagar
Narendra Sarswat	BTech/CE/2017	Rajasthan
Nashit Jalal	MTech/ME/2019	Lucknow
Nashra Ahmad	MSc/CG/2021	Gandhinagar
Nasir Khan	well-wisher	India
Naveen Kumar	BTech/ME/2016	Jhunjhunu
Naveen Puri	MTech/EE/2021	Gandhinagar
Naveen Tak	MSc/CH/2018	Jaipur
Navin Kumar	BTech/EE/2019	Mangobandar
Navpreet Singh	BTech/CL/2019	Ludhiana
Neelay Jagdip Upadhyaya	MTech/CSE/2020	Mumbai
Neelesh Bhandari	MTech/ME/2014	Vadodara
Neeraj Dhull	PGDIIT/EE/2017	Haryana
Neetesh Kumar Sharma	MTech/EE/2017	Tikamgarh
Neha Manav	PhD/CH/2021	Baghpat
Nevilkumar Panchal	MTech/ME/2018	Surat
Nikesh Panwar	BTech/CE/2019	Rajasthan
Nikhil Aditya kumar Roy	BTech/CL/2018	Mumbai
Nikhil Cherian Kurian	MTech/EE/2016	Kottayam
Nikhil Londhe	MSc/PH/2021	Nerul
Nikhil Sharma	MSc/CH/2019	Mathura
Nikki Mittal	student	Bhiwani
Nilabh Dish	staff	Gandhinagar
Nishant	staff	Gandhinagar
Nishant Joshi	BTech/EE/2012	Mumbai
Nishanth Naik	BTech/ME/2017	Karnataka
Nitesh Gupta	BTech/EE/2012	Faridabad
Nitesh Kumar	MSc/MA/2016	Faridabad

* For part of the year

Nitish Kumar	MTech/MSE/2018	Patna
Nithin V George	faculty	Gandhinagar
Nivita Jain	staff	Gandhinagar
P Jayakrishna Sahit	BTech/CSE/2020	Hyderabad
Pabbathi Akhil Kumar	BTech/EE/2017	Nalgonda
Palak Sadani	BTech/CL/2016	Harda
Pankaj	PhD/MSE/2018	Ghaziabad
Pankaj Bora	MSc/PH/2019	Biswanath
Pankaj Vatwani	BTech/EE/2020	Jaipur
Param Singh	MTech/MSE/2018	Gandhinagar
Paras Ram Saini	BTech/ME/2016	Mandi
Parash Aggarwal	BTech/CL/2018	Rajasthan
Parikh Darshak Anantkumar	MTech/ME/2016	Godhra
Paritosh Kavra	MTech/ME/2021	Ahmedabad
Parth Gudhka	BTech/EE/2015	Gandhinagar
Parth Sane	BTech/EE/2015	Maharashtra
Pastakia Taronish Astad	MSc/CG/2017	Ahmedabad
Patel Milanbhai	BTech/CL/2020	Navsari
Pathak Kapil Jayesh	BTech/EE/2017	Satara
Patil Shubham Hanumant	BTech/EE/2017	Raigad
Pavneesh Kumar	MSc/CH/2016	Amroha
Pavni Pandya	MTech/CE/2014	Ahmedabad
Pawan Kumar	BTech/CL/2016	Hyderabad
Payal Arora	MSc/CH/2016	Revwari
Payel Chattopadhyay Mukherjee	PhD/HSS/2016	Hooghly
Penumaka Aruna Kumarudu	BTech/ME/2016	Krishna
Penumaka Gopi Kishore	BTech/EE/2020	Krishna
Pinki Yadav	MTech/ME/2019	Delhi
Piyush Dewangan	MTech/EE/2020	Chhattisgarh
Piyush Kumar	PGDIIT/EE/2020	Delhi
Polampalli Bala Srimannarayana	BTech/ME/2021	Andhra Pradesh
Pomraj Prajapat	BTech/CE/2017	Nagaur
Pooja Athawal	BTech/CL/2013	Bhopal
Pooja Rajoria	PGDIIT/CE/2019	Jaipur
Pradeep Kumar Yadav	MSc/CH/2021	Uttar Pradesh
Pragati Pradip Joshi	MTech/ME/2017	Thane
Pragati Saxena	MTech/BE/2020	Aliganj
Pragya Nandan Banjare	MTech/MSE/2015	Chattisgarh
Prajjwal Patidar	MTech/CE/2020	Khandwa
Prakhar Pradhan	MTech/EE/2019	Gwalior
Prakrut Kansara	BTech/CE/2018	Ahmedabad
Pranav Kumar Gupta	BTech/CE/2018	Rajasthan
Pranav Trivedi	MTech/MSE/2020	Gandhinagar
Prankur Saxena	MSc/CG/2019	Bhopal
Pranshul Saini	BTech/ME/2016	Mandi
Prasanna Kulkarni	MTech/ME/2019	Gadag
Praseetha E K	PhD/CH/2019	Kannur
Prashant Chouhan	MSc/PH/2018	Mirzapur
Prashant Kumar	PhD/PH/2021	Uttar Pradesh
Prashant Shekhar	BTech/CL/2016	Sonebhadra
Prasit Pal	BTech/ME/2015	Ahmedabad
Prateek Nyati	BTech/ME/2014	Gandhinagar
Prateek Verma	BTech/CL/2019	Kanpur
Prateeti Rajjak	MA/HSS/2021	West Bengal
Prathmesh Upadhyay	staff	Faridabad
Pratik Kayal	BTech/CSE/2020	Guwahati
Pratik Puri Goswami	BTech/EE/2020	Jaipur
Pravinbhai R Bhutediya	staff	Gandhinagar
Preet Khaturia	MTech/EE/2018	Udaipur
Preet Shah	BTech/EE/2015	Mumbai
Preeti Rathi	MTech/CL/2015	Ujjain
Preetika	MTech/BE/2018	Palanpur
Prerna Sarkar	MTech/CE/2020	Bilaspur
Pritam Nanda	MSc/PH/2016	Medinipur
Pritish Jain	BTech/EE/2013	Jaipur
Priya	MSc/CH/2020	Gurugam
Priya Suryakant Gadekar	MTech/MSE/2021	Maharashtra
Priya Tiwari	MTech/MSE/2020	Fatehpur
Priyang Priyadarshi	BTech/MSE/2019	Ahmedabad
Priyanjana Pal	MTech/EE/2020	Agartala
Priyank Mehta	MTech/ME/2018	Dungarpur
Priyanka Gautam	MTech/CS/2019	Ghaziabad
Priyanka Rawat	MTech/MSE/2018	Chandkheda
Priyanka Tenan	BTech/CL/2019	Hanumangarh
Priyanshu R Gupta	BTech/CL/2019	Mumbai
Puchalapalli Sambasivaiah	MTech/EE/2016	Nellore
Pulkit	MSc/MA/2019	Amroha
Pulkit Singhal	BTech/CE/2019	Karauli
Punit Kumar	BTech/CE/2017	Supaul
Purna Kukadiya	MTech/EE/2021	Kanpar
Purooshotam Garg	BTech/CL/2019	Jaisalmer
Purushottam Kumar	Btech/CL/2017	India
Putsala Anirudh	BTech/ME/2020	Visakhapatnam
R Yashwanth Kumar	BTech/CE/2018	Hyderabad
Rachana Choudhary	MSc/PH/2020	Rajasthan
Rachelle Kucera Mehra	well-wisher	USA
Rachit Goyal	BTech/EE/2018	Bareilly
Rachita Agrawal	MTech/EE/2016	Rachenahalli
Radhika Gandhi	MSc/PH/2021	Delhi
Rahil Sanwla	BTech/ME/2020	Chittorgarh
Rahul Challa	BTech/CSE/2020	Srikakulam
Rahul Dhamania	BTech/CL/2021	Haryana
Rahul Garg	BTech/ME/2016	Rajasthan
Rahul Gupta	MTech/BE/2019	Faridabad
Rahul Hudda	MSc/MA/2018	Haryana
Rahul Khandait	BTech/CL/2015	Nandanvan
Rahul Kumar	BTech/ME/2019	Uttar Pradesh
Rahul Kumar Bansal	MSc/MA/2018	Rajasthan
Rahul Patsariya	MTech/CL/2016	Jhansi
Rahul Rohilla	MSc/MA/2020	Chandigarh
Rahul Sadhwani	MTech/EE/2016	Bhilwara
Rahul Saini	BTech/CE/2019	Rajasthan
Rahul Upadhyay	MTech/CE/2019	Mathura
Rahul Yadav	BTech/EE/2020	Jhansi
Raj Kumar Dadrawal	MSc/MA/2017	Jaipur
Raj Shekhar	BTech/EE/2016	Allahabad
Rajanikant Atul Ghate	MTech/ME/2016	Pune
Rajasekhar Bhuma	BTech/EE/2012	Chennai
Rajat Gupta	MTech/CE/2018	Jodhpur
Rajat Biluniya	BTech/ME/2020	Rajasthan
Rajat Goel	BTech/CL/2019	Noida
Rajat Kumar Gupta	BTech/CL/2017	Jalaun
Rajat Sunil Zope	MTech/CL/2020	Gandhinagar
Rajeev Kumar Mahto	BTech/CL/2020	Darbhanga
Rajesh Biswas	MSc/PH/2019	Nadia
Rajlaxmi Pandey	MTech/EE/2021	Bihar
Rajvir Singh	MSc/CH/2018	Haryana
Rakesh Kumar Chaudhary	BTech/CL/2012	Uttar Pradesh
Rakesh Kumar Rath	MSc/MA/2020	Puri
Rakesh Meghwal	MTech/CE/2018	Gadwal
Rakesh Yadav	MSc/CH/2018	Bhiwani
Rakhi	MSc/CG/2016	Bokaro
Ramakrishna BRS Katakam	well-wisher	Vijayawada
Raman	BTech/CL/2020	Haryana
Raman Sharma	MSc/MA/2021	Uttar Pradesh
Ramendra Sahoo	PhD/EH/2020	Madhya Pradesh
Ramesh Kumar	BTech/ME/2015	West Champaran
Rameshkumar M Bhoraniya	PhD/ME/2018	Rajkot
Rana Pratap Singh	Mtech/MSE/2018	India
Ranadeep Sarkar	PhD/PH/2021	Finland
Ranjana Mehta	PhD/MA/2019	Uttarakhand
Raqib Dar	MA/HSS/2021	Karnal
Rashmi Mehta	MSc/PH/2021	Haryana
Rathod Milanbhai Jayantibhai	MTech/EE/2016	Ahmedabad
Rati Ram	well-wisher	Gandhinagar
Ratul Chakraborty	BTech/MSE/2020	Vadodara

Ravi Chopra	MSc/PH/2021	Jaipur
Ravi Kumar	BTech/EE/2016	Kota
Ravi Mahala	MSc/MA/2020	Rajasthan
Ravi Prakash	PhD/CE/2019	Gandhinagar
Ravi Prasad	student	Gandhinagar
Ravi Shankar Mishra	well-wisher	Bihar
Ravi Shanker Bunker	well-wisher	India
Ravi Verma	MTech/CE/2016	Dhar
Rendla Aditya	BTech/CSE/2020	Karimnagar
Renna Zehra	MA/HSS/2021	Calicut
Richa Arya	PhD/PH/2021	Bengaluru
Richa Dobal	MSc/PH/2019	Almora
Richa Tripathi	PhD/PH/2021	Germany
Rimjhim	MSc/CH/2020	Delhi
Rimpy Khokhar	MTech/CE/2018	Jodhpur
Rishab Anand	BTech/EE/2017	Jharkhand
Rishabh Jain	BTech/CE/2020	Ajmer
Rishabh Mathur	MTech/ME/2020	Rajasthan
Rishi Dhawan	MTech/MSE/2018	Faridabad
Ritam Chatterjee	MTech/ME/2017	Panaji
Ritesh Jain	MTech/EE/2014	Delhi
Ritik Jain	BTech/CL/2020	Ujjain
Rituparna Rana	MA/HSS/2018	New Delhi
Rohan Chawhan	MTech/EE/2018	Nagpur
Rohan Gupta	BTech/CL/2020	Kanpur
Rohan Nyayadhish	BTech/EE/2018	Bareilly
Rohit Dang	MTech/EE/2016	New Delhi
Rohit Dawar	MTech/EE/2018	New Delhi
Rohit Kumar Singh	BTech/ME/2021	Uttar Pradesh
Rohit Nanavati	BTech/ME/2017	Surat
Rohit Srivastava	MSc/MA/2018	Bhadohi
Rojan Mathew	MTech/CE/2017	Calicut
Ronak Khandelwal	BTech/ME/2015	Indore
Ronit Dey	MTech/ME/2017	Bengaluru
Roshan Agarwal	BTech/CE/2017	Jalpaiguri
Roshan Sebastian	MTech/MSE/2018	Kottayam
Ruchi Thosare	MTech/ME/2020	Aurangabad
Rupsha Mukherjee	MTech/BE/2020	Chhattisgarh
Rushali Atul Prakash Saxena	BTech/ME/2019	Mumbai
Rushi Jariwala	BTech/EE/2017	Mumbai
Rushil Shah	BTech/CSE/2021	Ahmedabad
Rushil Vispute	BTech/EE/2018	Jalgaon
Rutvikkumar Patel	well-wisher	India
S Preethi	MTech/EE/2019	Vadodara
S Smitha	MTech/CE/2015	Kozhikode
Sachin Dev	MSc/CH/2018	Faridabad
Sachin Kumar	MSc/PH/2019	Moradabad
Sachin Verma	MTech/CL/2018	Palanpur
Sagar Gurani	MTech/ME/2016	Noida
Sahil Jain	BTech/CE/2020	Bhopal
Sai Chandra Uttharapally	BTech/EE/2021	Telangana
Saikat Sen	MTech/CL/2018	Bareilly
Sairam Swaroop Mallajosyula	faculty	Gandhinagar
Sajal Kumar	MSc/MA/2018	Jalaun
Sakhalikar Pushpakraj	BTech/ME/2020	Buldhana
Sakkari Akash Goud	BTech/CE/2017	Telangana
Saksham Singal	BTech/ME/2019	Ahmedabad
Sakshi Yadav	BTech/EE/2017	Rajasthan
Saloni Gupta	MSc/MA/2019	Rajasthan
Samarth Kathal	BTech/EE/2019	Bhopal
Samten Bhutia	MSc/PH/2018	Gangtok
Samyabrata Chatterjee	MTech/CL/2020	Kolkata
Samyak Jain	BTech/CL/2021	Ahmedabad
Sandesh Shirude	MTech/CL/2018	Tirupati
Sangeeta Chhabarwal	MSc/MA/2018	Rajasthan
Sanika Gupta	MSc/CG/2019	Lucknow
Sanjay Kumar Meena	BTech/EE/2015	Rajasthan
Sanjay Saroj	BTech/CL/2014	Navi Mumbai
Sanjeev	staff	Gandhinagar
Sanjeev Kumar	MTech/ME/2020	Bihar
Sanjoy Saha	MSc/PH/2021	West Bengal
Sanu Kumar Gangwar	MSc/PH/2018	Bareilly
Sanya Jain	MSc/CG/2021	Moradabad
Sarathchandran	MTech/EE/2019	Salem
Saravanan Balakrishnan	MSc/CG/2018	Coimbatore
Sareem Sandeed	BTech/CE/2019	Asansol
Sargam Jain	BTech/CL/2017	Jalore
Sarkar Aditya Anjan	MTech/MSE/2016	Pune
Sarla Yadav	MSc/CH/2018	Haryana
Saroj Yadav	MSc/PH/2020	Chandauli
Sarojini Tiwari	MTech/CL/2015	Naihati
Sarthak Sharma	MSc/MA/2021	Uttar Pradesh
Sarvdeep Sangwan	MSc/PH/2020	Haryana
Satbir Singh	MTech/ME/2019	India
Satish Kumar Singh	MTech/EE/2021	Bihar
Satyajit Mohapatra	MTech/EE/2014	Ahmedabad
Satyanarayan Pruseth	MSc/MA/2019	Sundargarh
Saurav Nagar	BTech/ME/2019	Indore
Sawadiawala Chirag Yogeshkumar	MTech/ME/2016	Surat
Sayak Chowdhury	MTech/CSE/2020	Brahmapur
Sayali Jadhav	MTech/ME/2020	Satara
Seema Negi	MTech/MSE/2016	Tehri Garhwal
Seethalakshmi	PhD/CE/2019	Erode
Setti Satya Sai Venkata Ravi Teja	BTech/CL/2018	East Godavari
Shadab Ali	MSc/MA/2019	Bulandshahr
Shah Hemal Gautamkumar	MTech/EE/2017	Ahmedabad
Shah Jugal Saurin	BTech/ME/2017	Ahmedabad
Shaik Siddhikh Hussain	BTech/EE/2012	Telangana
Shailendra Kumar	BTech/CE/2017	Rajasthan
Shailesh Garg	MTech/CE/2019	Karauli
Shaleen Chhajer	BTech/CE/2017	Rajasthan
Shalin Gomez	MSc/CG/2018	Bengaluru
Shaliwahan Singh Rathore	BTech/ME/2014	Kota
Shashank Mehra	BTech/EE/2017	Kota
Shashank Naik B S	MTech/MSE/2018	Bengaluru
Shashank Pareta	BTech/ME/2016	Indore
Shashwat Jain	student	Gandhinagar
Sheela Meena	MSc/PH/2021	Jaipur
Sheetal Gujarati	MTech/CE/2020	Ajmer
Shital Arunbhai Amin	PhD/CL/2021	Ahmedabad
Shiv Prakash	MTech/EE/2018	Jodhpur
Shivam Awasthi	MSc/PH/2018	India
Shivam Tiwari	MTech/EE/2019	Uttar Pradesh
Shivangi Singh	MTech/ESS/2018	Delhi
Shivani Singhal	MTech/EE/2021	Vadodara
Shivji Bhagat	BTech/CSE/2020	Sahebganj
Shraddha Mohnani	MSc/PH/2021	Madhya Pradesh
Shreya Pamecha	BTech/EE/2021	Rajasthan
Shreyans Nahar	BTech/ME/2015	Raigad
Shreyas Vaidya	BTech/ME/2013	Madhya Pradesh
Shrihari Gunjal	MTech/EE/2021	Kolhapur
Shrikant Shekhar	MSc/MA/2019	Shamli
Shriya Arora	MSc/MA/2019	Shamli
Shruti Adhikari	MTech/BE/2019	Dehradun
Shruti Krishnan	MA/HSS/2021	Mumbai
Shruti S Nair	MA/HSS/2020	Ahmedabad
Shubham Agrawal	BTech/CL/2019	Bihar
Shubham Ashok Kalgunde	BTech/EE/2020	Pune
Shubham Chouksey	MTech/ME/2018	Thiruvambadi
Shubham Garg	MSc/PH/2018	Haryana
Shubham Malik	MSc/PH/2021	Haryana
Shubham Pachori	BTech/EE/2016	Bhopal
Shubham Patle	BTech/ME/2017	Madhya Pradesh
Shubham Prem Kumar	well-wisher	Gandhinagar
Shubham Ranka	BTech/EE/2013	Rajasthan

* For part of the year

Shubham Soni	MTech/CE/2017	Dalauda
Shubham Verma	well-wisher	Navsari
Shubhankar Gurav	MTech/ME/2019	Satara
Shubhanshu Gupta	MTech/EE/2018	Naihati
Shuchi Sanandiya	BTech/MSE/2021	Ahmedabad
Shyam Kumar	MSc/PH/2017	New Delhi
Siddhant Gulechha	BTech/CE/2019	Rajasthan
Sidhartha Rath	MTech/ME/2017	Koraput
Silky Agrawal	MTech/CE/2015	Khargone
Singampalli Sai Rohit	BTech/ME/2018	Visakhapatnam
Sitesh Kumar	MTech/BE/2018	Bihar
Siva Krishna Sarma Parimi	BTech/CSE/2021	Kothapeta
Siyaram Gurjar	MSc/MA/2018	Rajasthan
Siyaram Meena	BTech/EE/2017	Sawai Madhopur
Smit Shah	MTech/EE/2021	Valsad
Smriti Gupta	MTech/EE/2018	Jhansi
Smruty Sahu	MTech/EE/2018	Tonk
Soham	BTech/ME/2015	Thane
Sohini Dhar	MTech/EE/2018	Siliguri
Solleti Goutham	BTech/ME/2018	Guntur
Somnath Paul	MTech/CE/2021	West Tripura
Sonam Srivastava	PhD/EH/2019	Gandhinagar
Sonawane Dhananjay Kishor	MTech/CSE/2020	Jalgaon
Soumik Bandyopadhyay	PhD/PH/2020	Birbhum
Soumita Kundu	MTech/CSE/2020	Chhattisgarh
Sourabh Saini	BTech/CL/2020	Jaipur
Sourabh Singh	MTech/ME/2018	Rajasthan
Sourabh Soni	BTech/CL/2017	Bikaner
Souvik Roy Alumni	MTech/CSE/2020	Kolkata
Spand Bharat Mehta	BTech/CL/2020	Pune
Sparsh Jain	BTech/CL/2020	Haryana
Sreejith Raveendran	MTech/EE/2014	Edathara
Sreekanth C	MSc/CG/2019	Kerala
Srinivas G Reddy	faculty	USA
Sriram Sriharsha	BTech/MSE/2020	Mahabubnagar
Srivastava Nishkarsh Rameshwarnath	Mtech/MSE/2020	Gujarat
Subhash Kunche	BTech/EE/2013	New Delhi
Subisha V	MTech/CS/2019	Calicut
Sudha Gautam	MTech/MSE/2020	Basti
Sudhir Kumar	MSc/CH/2021	Gandhinagar
Sudip Pandit	MSc/MA/2018	Birbhum
Suguru Kundan	BTech/EE/2012	Serilingampally
Suhair K K	MA/HSS/2019	Vadakara
Sujit Vasant Matale	MTech/CE/2018	Haryana
Sujitkumar Shah	staff	Gandhinagar
Sukrit Sharma	MTech/CE/2020	Gurugram
Suman Kumar Singh	BTech/CL/2017	Madhubani
Sumeet Kataria	MSc/CH/2018	Delhi
Sumit Kumar	BTech/ME/2017	Bhiwani
Sumitava Mukherjee	PhD/HSS/2014	Hooghly
Sunita Menon	staff	Gandhinagar
Sunny Verma	MTech/EE/2016	Bilaspur
Suraj Kumar Meena	BTech/EE/2020	Jaipur
Suraj Sonker	staff	Pathankot
Surbhi Khewle	MTech/CL/2019	Shamgarh
Surbhi Warkade	MSc/MA/2020	Bhopal
Surendra Beniwal	BTech/CL/2016	Nagpur
Surendra Choudhary	MSc/MA/2020	Ajmer
Surendra Kumar Maurya	MTech/EE/2020	Prayagraj
Suresh Choudhary	MSc/MA/2019	Jaipur
Surjeet Singh Choudhary	MSc/MA/2019	Rajasthan
Surya Pratap Singh	MSc/CH/2018	Bikaner
Suryakumar Mane	BTech/ME/2017	Kolhapur
Sushil Kumar	BTech/CL/2016	Chhattisgarh
Sushrut Pramod Meshram	BTech/EE/2014	Nagpur
Suyash Dhanvir Pasi	MA/HSS/2019	Ahmedabad
Suyash Subhash Patkar	BTech/ME/2014	Mumbai
Swagat Das	MTech/MSE/2020	Cuttack
Swara Joshi	MA/HSS/2018	Ahmedabad
Swaroop Chakraborty	PhD/BE/2021	Chattisgarh
Swaroopa Bhatkar Alumni	MA/HSS/2020	Navi Mumbai
Swathi S G	BTech/EE/2019	Kothapeta, Kurnool
Swati Verma	BTech/ME/2012	Anand
Syed Ansari S	MTech/MSE/2018	Mumbai
Tanay Kankane	BTech/ME/2017	Raipur
Tanay Patel	BTech/EE/2014	Gujarat
Tanaya Mukati	MTech/CE/2020	Bhopal
Tandale Mohit Mukundraj	BTech/MSE/2018	Latur
Tanisha Aggrawal	staff	Bairagarh
Tanmay Balwa	BTech/ME/2012	Bhuj
Tannu Kaushik	MSc/CH/2020	Hisar
Tannu Kumari	MSc/MA/2020	Haryana
Tanusree Halder	MTech/BE/2021	Kolkata
Tanvi Jain	MA/HSS/2019	Delhi
Tapas Kumar Das	staff	Gandhinagar
Tarun Kumar	MSc/CH/2019	Haryana
Tarun Sharma	BTech/CE/2019	Indore
Tejas Shrikrishna Hortikar	staff	Gandhinagar
Tharan Suresh	MSc/CG/2021	Tamil Nadu
Tibin M Thomas	MTech/ME/2016	Kottayam
Tilak Narendra Pathe	BTech/EE/2015	Jalgaon
Trisrota Deb	MTech/EE/2019	West Tripura
Trivedi Jaldhir Sanjay	BTech/ME/2018	Baroda
Tukkani Sandeep Reddy	BTech/ME/2019	Hyderabad
Tulasi Narendra Das Tripurana	BTech/MSE/2019	Visakhapatnam
Tushar Agarwal	MTech/EE/2021	Uttar Pradesh
Tushar Meshram	MA/HSS/2016	Bengaluru
Tushar Pareek	BTech/ME/2019	Jaipur
Tvarit Ashokbhai Patel	PhD/MSE/2020	Surat
Uday Singh	MSc/PH/2019	Uttar Pradesh
Udit Surendra Relan	BTech/ME/2018	Dhule
Umesh Kumar	MSc/CH/2017	New Delhi
Upendra Kumar Shukla	MTech/CL/2014	Gonda
Upendra Kumar	BTech/ME/2020	Bihar
Upendra Kushwaha	PhD (PRL)/PH/2016	Ghazipur
Urmin Dev	MTech/CE/2021	Gujarat
Utsav Mistry	BTech/ME/2015	Surat
Vaghela Vishal Ghanshyambhai	PGDIIT/CE/2020	Ahmedabad
Vaibhav Gupta	BTech/ME/2017	Uttar Pradesh
Vaibhav Mittal	BTech/ME/2019	Raipur
Vaibhav Trivedi	MTech/CL/2019	Farrukhabad
Vaibhavkumar Tandel	MTech/ME/2021	Valsad
Vaijanapurkar Samarth Sanjiv	BTech/ME/2016	Surat
Vakharia Vismay Dilipkumar	BTech/ME/2018	Jamnagar
Varsha Singh	BTech/CL/2020	Chandigarh
Varun Gupta	BTech/ME/2013	Alwar
Vasundhara Krishnan	MA/HSS/2020	Kozhikode
Ved Prakash Sahu	BTech/CL/2013	Kota
Vedanta Krishna Bhutani	BTech/EE/2021	Rajasthan
Veeramallu Giridhar Sai	BTech/EE/2019	Guntur
Vijay Kumar Baliyan	MSc/PH/2021	Rajasthan
Vijay Singh	well-wisher	Gandhinagar
Vijendra Maurya	BTech/CL/2019	Uttar Pradesh
Vikas Kumar Meena	BTech/EE/2018	Jaipur
Vikas Sharma	MTech/ME/2016	Nagar, Delhi
Vikas Yadav	BTech/CE/2018	Patna
Vikram Singh Negi	MSc/CG/2021	Chandigarh
Vikram Vishnoi	BTech/ME/2014	Jalore
Vineetha Bodempudi	MTech/EE/2019	Hyderabad
Vinit Sanjay Joshi	BTech/EE/2015	Borivali
Vinod Narayanan	faculty	Gandhinagar
Vinod Kumar	MSc/PH/2021	Hanumangarh
Vipin Prajapati	BTech/EE/2017	Jaipur

Virendra Singh Panwar	BTech/CL/2016	Jaipur
Vishal Badoliya	MSc/PH/2020	Tonk
Vishal Prasad	MTech/EE/2020	Munger
Vishal Yadav	BTech/ME/2015	Rajasthan
Vishwanath Hiremath	MTech/EE/2018	Karnataka
Vivek Kumar Singh	MTech/EE/2021	Uttar Pradesh
Vivek Popat	MTech/CL/2013	Rajkot
Vyas Samir	BTech/EE/2017	Rajkot
Yadukrishnan M	MTech/EE/2019	Kannur
Yash Goyal	MTech/CE/2020	Indore
Yash Makwana	BTech/CL/2020	Udaipur
Yash Patel	BTech/ME/2019	Surat
Yash Pratap Singh	BTech/ME/2016	Chhattisgarh
Yash Shah	BTech/ME/2013	Ahmedabad
Yashovardhan	BTech/EE/2018	Lucknow

Yogesh kumar Gupta	MSc/MA/2020	Rajasthan
Yogesh Shantaram Fulpagare	PhD/ME/2018	Dhule
Yogesh Yadav	MSc/PH/2021	Jaipur
Yogi Ram	staff	Gandhinagar
Zade Anita Dnyanba	MTech/CL/2016	Hingoli
Akash Unnikrishnan	MTech/ME/2019	Kannur
J Ram Prabhakar	PhD/EE/2016	Dharmapuri
Murali Krishna Enduri	PhD/CS/2018	Guntur
Pranav Chandrakar	MTech/CE/2021	Chhattisgarh
Sachinkumar Babubhai Suthar	MTech/EE/2019	Ahmedabad
Tej Bahadur Gurung	staff	Gandhinagar
Duthade Sanket Rajesh	BTech/EE/2018	Maharashtra

* For part of the year

PEOPLE

DISTINGUISHED HONORARY PROFESSOR

PROF SURENDRA PRASAD

Prof Surendra Prasad served IIT Delhi for over four decades in several academic and administrative capacities including the post of the director. He received the Vikram Sarabhai Research Award in Electronics and Telecommunications (1987), the Shanti Swarup Bhatnagar Prize for Engineering Sciences (1988), the Om Prakash Bhasin Prize for Research in Electronics and Communications (1994), the VASVIK Award for Information Technology (2006), the Lifetime Achievement Award of the Systems Society of India (2011), the Distinguished Alumnus Award of IIT Kharagpur. He was also honored with an honorary doctorate by 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 NITISH THAKOR

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

SCHOLARS-IN-RESIDENCE

PROF RAGHUBIR SHARAN

Prof Raghubir Sharan served at IIT Kanpur for more than 35 years in the discipline of electrical engineering before joining LNM Institute of Information Technology Jaipur as a distinguished professor in 2004. He completed his BE in telecommunication engineering from Bihar Institute of Technology, Sindri and MASc & PhD in electrical engineering from University of Waterloo, Ontario, Canada. He has also served as the Dean of Academic Affairs at IIT Kanpur from 1981 to 1984. From 1999 to 2004, he was involved in setting up Samtel Centre of Display Technologies (SCDT) at IIT Kanpur. Prof Sharan moved to IITGN in 2012 as a visiting professor in the discipline of electrical engineering and served here till May 2019. Since retiring, Prof Sharan has received two awards from IIT Kanpur: Distinguished Teacher Award (2013) and Institute Fellow award (2016). His research interests include technological progress and human values, semiconductor devices, transducers and instrumentation, noise, engineering education.

PROF NUNO GUIMARÃES

Prof Guimarães is a Full Professor (Professor Catedrático) at ISCTE-IUL, graduated in Electrotechnical Engineering at the Technical University of Lisbon, Instituto Superior Técnico, Portugal, in 1983, where he also completed his MSc (1987) and PhD (1992). He received the title of Agregado em Informática in July 1999, from the University of Lisbon. From 1986 to 1997, he taught at the Electrotechnical and Computer Engineering Department of IST/UTL, and from 1997 to 2012 at the Informatics Department of the Faculty of Sciences, University of Lisbon. He was Dean of the Faculty of Sciences of the University of Lisbon (2003-2009). In 2010, he was Invited Professor at the Technical University of Berlin, Institut für Psychologie und Arbeitswissenschaft, Fak V - Verkehrs- und Maschinensysteme. From 1982 to 1997, he was a researcher of INESC, Instituto de Engenharia de Sistemas e Computadores, Lisbon, Portugal, and is a member of LASIGE/FCUL since 1997. From 1989 to 1991, he was a consultant for Bell Labs, AT&T, Murray Hill, New Jersey, "Software Systems Principles Research Lab". He was a member of the Executive Board of PUUG (Portuguese Unix Users Group)(1992-1998), one of the individual founders of Eunet Portugal, later KPNQwest Portugal. From 1996 to 2001, he co-founded of Ergoprocesso (Consulting services), 4VDO - Sistemas e Serviços Multimédia SA (Video indexing services) and On TV - Sistemas e Serviços de Televisão Interactiva SA (Interactive Television Systems integrator). ACM Senior Member (since 2012), Member of ACEEU (www.aceeu.org), Member (Mgmnt) of ISOC (PT).

GUEST PROFESSORS

PROF A V ANILKUMAR

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

Mr V ASHOK

Mr V Ashok is currently a guest professor at IIT Gandhinagar, adjunct professor at IIT Bombay, and a guest professor at National Institute of Advanced Studies (NIAS) Bangalore. He received a BTech in civil engineering from IIT Delhi in 1981. After serving in the Indian Foreign Service for more than 34 years at various positions, he retired in October 2018 as the Consul General of India, San Francisco, with the rank of Secretary to the Government of India. He has held diplomatic assignments in Indian Missions in Hong Kong, Malaysia, China, Austria, and Sri Lanka apart from postings at the Ministry of External Affairs in New Delhi. He was accredited as India's Ambassador to the Republic of Zimbabwe in 2007 and to the Czech Republic in 2011.

DR NIKHIL BALRAM

Dr Nikhil Balram is the CEO of EyeWay Vision Inc (EVI), a San Jose based company in California, USA, that works in the area of advanced immersive AR technology. Prior to joining EyeWay, Dr Balram was leading display R&D for all Google hardware products (including AR/VR). An experienced technology executive, Dr Balram's previous positions include CEO at Ricoh Innovations, VP & GM at Marvell, and CTO of National Semiconductor's

Display Group. He has won numerous awards including a 2012 Gold Stevie Award for Executive of the Year in the electronics category in the 9th Annual International Business Awards, a 2012 Fellow Award by the Society for Information Display (SID) and the 2011 Alumni Achievement Award by Carnegie Mellon University. Dr Balram is a visiting professor of vision science at the University of California, Berkeley, and serves on the Industry Advisory Board (IAB) at the School of Engineering at Santa Clara University.

PROF RAVI BANAVAR

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

MR HARSH BHARGAVA

Mr Harsh Bhargava is currently the president of Bankworld Inc, a prominent Washington DC based management consulting company, with experience in over 75 countries including leadership of projects on competitiveness strengthening in the emerging markets, entrepreneurship development programs for micro, small and medium enterprises (MSMEs). He received an MBA from the Harvard Business School in 1977. As the Vice President of a US Corporation, he set up businesses in over 60 countries and was awarded the US President's E Award for excellence in international business. Mr Bhargava is also the Founder and the President of I Create Inc, a nonprofit corporation, with centers in India and Kenya. He has written extensively on entrepreneurship as a career option for youth, and created training manuals and books on financial literacy and entrepreneurship. He is Chief Mentor and Director of a nationwide study on competitiveness mindset in India under the aegis of IITGN. He is also the Chief Mentor of Competitiveness Mindset Initiative, an entity set up at IITGN.

DR ACHINTYA K BHOWMIK

Dr Achintya K Bhowmik is the chief technology officer and executive vice president of

engineering at Starkey Hearing Technologies, a privately-held medical devices business with operations in more than 100 countries worldwide. In this role, he is responsible for the company's technology strategy, global research, product development and engineering departments, and leading the drive to transform hearing aids into multifunctional wearable health devices with advanced sensors and artificial intelligence technologies. Prior to joining Starkey, Dr Bhowmik was vice president and general manager of the Perceptual Computing Group at Intel Corporation. Dr Bhowmik is an adjunct professor at Stanford University. He has received numerous awards and honors including TIME's Best Inventions, Artificial Intelligence Breakthrough Award, Red Dot Design Award, among others.

DR R S BISHT

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

PROF RAJENDRA BORDIA

Prof Rajendra Bordia is currently George J Bishop, III endowed chair professor of ceramics and materials engineering at Clemson University, USA. Earlier he has also served as the professor and chair of the Materials Science And Engineering Department at Clemson University. He has received prestigious awards including Humboldt Senior Scientist Research Award from the Alexander von Humboldt Foundation, Germany (2007); International Expert Award from Technical University Hamburg, Germany (1996, 2001 and 2002). He was the sole recipient of the Marsha Landolt Distinguished Graduate Mentor Award from the University of Washington (2007) and was the sole recipient of the Outstanding Educator of the Year by the Ceramic Education Council of the American Ceramic Society (2012).

PROF R P CHHABRA

Prof R P Chhabra completed his BE in chemical engineering from the University of Roorkee, ME from IISc Bangalore and PhD from Monash University, Australia. He has been associated with IIT Kanpur; University of New South Wales,

Sydney; University College of Swansea; Monash University, Clayton; and University of Sydney. He is a Fellow of the Indian National Science Academy, the Indian Academy of Sciences, Bangalore, the National Academy of Sciences, India and the Indian National Academy of Engineering. Prof Chhabra was the recipient of the Herdillia Award of the Indian Institute of Chemical Engineers for Excellence in Basic Research in Chemical Engineering and the Amar Dye-Chem Award of the Indian Institute of Chemical Engineers for Excellence in Research and Development.

DR PRAVINRAY D GANDHI

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

PROF RAMESH GAONKAR

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

DR RAJEN JASWA

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

PROF ASHOK JOSHI

Prof Ashok Joshi is a professor in the Department of Aerospace Engineering at IIT Bombay. He has more than thirty five years of experience

in teaching, research & development and continuing education. He specialises in dynamics and control of flexible flight vehicles, modelling and simulation of multi-agent swarming behaviour, navigation and guidance, system architectures. He did his BTech and MTech (Aerospace Engineering) and PhD (Aerospace Engineering) from IIT Bombay. He is also a member of the Aeronautical Society of India (AeSI) and American Institute of Aeronautics & Astronautics (AIAA), USA.

PROF DURGESH C RAI

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

PROF MYTHILY RAMASWAMY

Prof Mythily Ramaswamy is a professor in the TIFR Centre for Applicable Mathematics, Bengaluru. She received the Fulbright Nehru Academic and Professional Excellence Fellowship, 2016-17. She was awarded the Kalpana Chawla Award for women scientists in 2004. She is a Fellow of the Indian Academy of Sciences, Bangalore, the National Academy of Sciences, Allahabad, and serves on the Editorial Board of the Journal of Ramanujan Mathematical Society, Proceedings of Indian Academy of Sciences Mathematical Sciences and Boundary Value Problems.

PROF PRAMOD RASTOGI

Prof Pramod Rastogi is a guest professor at the École Polytechnique Fédérale de Lausanne, Switzerland. He received his MTech degree from IIT Delhi, and PhD from the University of Franche Comté, France. He has edited/authored nine books in the fields of holography, DSPI, optical metrology & digital optical signal analysis with internationally reputed publishers. Prof Rastogi is the 2014 recipient of the SPIE Dennis Gabor Award. He is also a member of the Swiss Academy of Engineering Sciences. He is also a recipient of the Heténi Award for the most significant research paper published in experimental mechanics in the year 1982.

DR SRINIVAS REDDY

Dr Srinivas Reddy did BA in south asian studies from Brown University. He holds an MA and a PhD in south and southeast asian studies from the University of California, Berkeley. Currently he is working as a teaching associate for Applied Music Program – Sitar at Brown University. He has published two books titled "Giver of the Worn Garland: Sri Krishnadevaraya's Amuktamalyada" and "Raya". He has advanced language training in reading and translation in Sanskrit, Pali, Telugu, Tamil. He is founder and artistic director of Sadhana Foundation, a non-profit organisation dedicated to preserving and promoting the classical music of South Asia throughout the world.

PROF DHEERAJ SANGHI

Prof Dheeraj Sanghi is currently Vice Chancellor of J K Lakshmipat University, Jaipur. .Prof . Sanghi has been a Professor of Computer Science & Engineering at IIT-Kanpur. During his association of more than 27 years with IIT Kanpur he has held various leadership positions such as Dean of Academic Affairs; Chairman Senate Under Graduation Committee; Coordinator Industry Affiliate Programs; Head of Prabhu Goel Research Centre for Computer & Internet Security to name a few. He has also maintained various leadership positions such as Director, LNMIIT, Jaipur; Dean of Academic Affairs & Dean of External Relations at IIIT Delhi and most recently as Director of Punjab Engineering College, one of India's oldest engineering institutions. He has worked closely with various Indian & International industries in full-time and consultant positions. He has been associated with several academic institutions as a member of important committees including Boards of Managements, Academic Councils, Boards of Studies, etc. Prof Sanghi has a BTech from IIT Kanpur, and MS and PhD from the University of Maryland.

PROF SHYAM SUNDER

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

DR MAHESH TANDON

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

MR M VENKATARAMAN

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

PROF FREDERICK COOLIDGE

Prof Frederick Coolidge is the professor & co-director of Undergraduate Education in Psychology at the University of Colorado, Colorado Springs, USA. He received his BA, MA, and PhD from the University of Florida and completed a two-year Postdoctoral Fellowship in Clinical Neuropsychology at Shands Teaching Hospital, University of Florida. His research interests lie in the area of behavior genetics, personality disorders, paleopsychology, cognitive archaeology and personality assessment. In the past, Prof Coolidge has also served as a Senior Visiting Scholar (2015) at Oxford University, Keble College, UK and as a Scholar-in-Residence at IITGN. Prof Coolidge is a three-time Fulbright Fellowship Award recipient (India, 1987, 1992, 2005). He has authored/co-authored numerous books and journal articles. Dr Coolidge is a member of the Association of Psychological Science, the European Society for Human Evolution, the Society for American Archaeology, and International Union of Prehistoric and Protohistoric Sciences.

PROF KOSHY THARAKAN

Prof Koshy Tharakan obtained his Masters as well as Doctoral degree in Philosophy from the University of Hyderabad and began his career as a lecturer in 1996 at the Department of Philosophy, Goa University. He joined IITGN as an associate professor in 2009 where he also served as the Dean of Student Affairs. He returned to Goa University after a two-year stint at IITGN and is currently a professor and head of the Department of Philosophy, Goa University. Prof Tharakan's areas of specialisation lies in philosophy of social science and continental philosophy. His research interests include meta-ethics, philosophy of social science, and phenomenology.

PROF P P JOGLEKAR

A former professor at the Department of AIHC and Archaeology at Deccan College, Pune, Prof Pramod Prabhakar Joglekar is currently a guest professor in the discipline of Humanities and Social Sciences at IITGN. Prof Joglekar has over 25 years of experience of teaching. He is the recipient of several awards and honours, including Professor H D Sankalia Young Archaeologist Award (1993), Visiting Fellowship of Ford Foundation (1990) (US and Holland), Post-Doctoral Fellowship of Government of Italy (1993), Charles Wallace Fellow at the Cambridge University (1998), Maharashtra State Literary Award for a book on biotechnology (2002), Ranjit Desai Literary Award (2004) for 'Timeline' (a book in Marathi), among others. He holds BSc and MSc in Zoology, MPhil in Statistics, MA in Indology; and PhD in Archaeology. His research interests revolve around: history of science and technology, archaeological science, humans, plants and animal interactions in the past, biomolecular archaeology, and science and society

PROF AUROOP R GANGULY

Auroop R Ganguly is a professor of civil and environmental engineering at Northeastern University in Boston, MA, where he has affiliate appointments with the Khoury College of Computer Science and the School of Public Policy and Urban Affairs. His research intersects weather and hydrologic extremes under climate change, lifeline infrastructures resilience under compound extremes, as well as machine learning and nonlinear physics. He has a joint role as a Chief Scientist at the Pacific Northwest National Laboratory. Ganguly co-founded the Boston-based climate analytics startup risQ. Prior to Northeastern, Ganguly worked at the Oak Ridge National Laboratory, a research institute of the US Department of Energy, and at Oracle Corporation, along with a best-of-breed called Demantra Inc. which was subsequently acquired by Oracle. He has been in review panels of the United Nations (UN) Environmental Programme and other US and global agencies, his work has been cited by the UN and US intergovernmental and national reports, and he has delivered invited/ keynote talks at workshops organized by the US National Academies and NSF. Ganguly is a Fellow of the American Society of Civil Engineers (ASCE), a Senior Member of the Association for Computing Machinery (ACM) as well as a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), and obtained a PhD from the Massachusetts Institute of Technology (MIT).

DR JIMMY THOMAS

Dr Jimmy Thomas is a Consulting Engineer specialising in geotechnical

engineering, geosynthetics, reinforced soil structures and pavement engineering. He graduated in Civil Engineering from Regional Engineering College Calicut (1986), obtained MTech in Geotechnical Engineering from College of Engineering Trivandrum (1988) and PhD in Geotechnical Engineering from IIT Kanpur (1997). During his stints with companies like Netlon India, Gaware-Wall Ropes Ltd and Techfab India Industries Ltd, he worked on a large number of projects in various fields such as roads, railways, landfills, erosion control, reinforced soil structures, ground improvement, etc. Since 2009, he is working as a freelance consultant and has been associated with several important projects including some national highways 4/6 laning projects, Eastern Dedicated Freight Corridor, Hyderabad Metro, Kochi Water Metro, etc. Additionally, he is a Design Consultant to Titan Environmental Containment Ltd, Canada, and is also a partner in Geosynthetics Technology Advisory Services LLP. He has previously worked as an Assistant Professor at Nirma Institute of Technology Ahmedabad and as an Adjunct Professor at Albertian Institute of Science and Technology, Kochi.

PROF K KRISHNAN

Prof K Krishnan is a Professor in the Department of Archaeology and Ancient History at the Maharaja Sayajirao University of Baroda. During the 30 years of his career in this university, he held various posts, such as head, Department of Archaeology and Ancient History, and currently dean, Faculty of Arts. He was the vice president of the International Association of Asian Heritage until 2015 and has been a member of the editorial board of several national and international journals. His research enabled him to develop a methodology for analysing fine wares, understanding craft specialisation, and assessing the development of technology and its impact on ancient South Asian society, inspiring several students to conduct research on South Asian ceramics. Professor Krishnan has worked towards reconstructing palaeoclimates in central and western India. He has completed more than a dozen research projects dealing with ancient technology and palaeoclimatology and is currently working on five projects with national and international funding. He has participated in more than fifty excavations and directed more than ten excavations.

PROF AJITHPRASAD P

Prof Ajithprasad P, a professor in the Department of Archaeology and Ancient History, the Maharaja Sayajirao University (MSU) of Baroda, is currently working as a guest professor in the discipline of Humanities & Social Sciences at IITGN. He did his Bachelor of Science from the University of Calicut, Master of Arts from the MSU Baroda, PG Diploma from the School of Archaeology, Archaeological Survey of India, and PhD from the MSU Baroda. Prof Ajithprasad has been associated with the MSU Baroda since 1990 and has served in different positions such as Lecturer (Archaeology), Lecturer (Sr Scale), Reader in the Department of Archaeology and Ancient History, and the Head of the Department of Archaeology and Ancient History. His research is focused on prehistoric archaeology, quaternary environmental adaptations and Harappan studies. He possesses the life membership of the Indian Society for Prehistoric and Quaternary Academic bodies and the Indian Archaeological Society, and is also a member of the Geological Society of India.

FACULTY

DISCIPLINE	DESIGNATION	PHD/LAST DEGREE	SPECIALISATION
ARCHAEOLOGICAL SCIENCES			
Alok Kumar Kanungo	Assistant Research Professor	Deccan College, 2003	History and origin of glass
Michel Danino	Visiting Professor	École Supérieure d'Électricité (Gif-sur Yvette, France), 1977	Archaeology, history and culture of ancient India
Sharada V Channarayapatna	Assistant Professor	Deccan College, 2014; University of Ferrara, 2018	Archaeozoology and taphonomy and bioarchaeology
BIOLOGICAL ENGINEERING			
Ashutosh Srivastava	Assistant Professor	CSIR Centre for Cellular and Molecular Biology, Hyderabad, 2015	Integrative modeling of macromolecular complexes
Dhiraj D Bhatia	Assistant Professor	Tata Institute of Fundamental Research, 2013	DNA nanotechnology and chemical biology
Karla Patricia Mercado-Shekhar	Assistant Professor	University of Rochester, 2015	Tissue elasticity imaging and ultrasound techniques
Pratik Mutha	Associate Professor	Pennsylvania State University, 2009	Sensorimotor control and learning
Sharad Gupta	Associate Professor	University of Pittsburgh, 2009	Protein misfolding in Alzheimer's and Huntington's diseases
Sharmistha Majumdar	Associate Professor	Cornell University, 2006	Genomic and proteomic analysis of transposases and transposase homologs
Umashankar Singh	Associate Professor	Uppsala University, Sweden, 2006	Cytoprotection
Vijay Thiruvenkatam	Associate Research Professor	Jiwaji University, 2009	Small molecules x-ray crystallography
CHEMICAL ENGINEERING			
Chinmay Ghorai	Professor	IIT Bombay, 2007	Particle engineering and powder processing
Hari Sai Ganesh	Assistant Professor	The University of Texas at Austin, 2018	Modeling and simulation
Kabeer Jasuja	Associate Professor	Kansas State University, 2011	Synthesis of two-dimensional nanomaterials
Karthik Subramaniam Pushpavanam **	Assistant Professor	Arizona State University, 2019	Designing and Engineering And Nanomaterials Proteins
Kaustubh S Rane	Assistant Professor	University at Buffalo, 2014	Thermodynamics and statistical mechanics of the interfacial systems
Mithun Radhakrishna	Assistant Professor	Columbia University, 2014	Study of soft matter systems through theory and molecular simulations
Nitin U Padhiyar	Assistant Professor	IIT Bombay, 2008	Process optimization and control
Prachi Thareja	Associate Professor	University of Pittsburgh, 2008	In-situ rheology of crystallising fatty acid pastes
Pratyush Dayal	Associate Professor	University of Akron, 2007	Self-oscillating polymer gels
Sameer V Dalvi	Professor	IIT Bombay, 2007	Supercritical fluid processing
CHEMISTRY			
Anirban Mondal**	Assistant Professor	Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, 2016	Physical chemistry, thermodynamics, quantum chemistry, spectroscopy
Bhaskar Datta	Associate Professor (jointly with Biological Engineering)	Carnegie Mellon University, 2004	Nucleic acid based chemical biology
Biswajit Mondal**	Assistant Professor	Indian Association for the Cultivation of Science (Jadavpur University), 2017	(Photo)-electrochemistry, electrochemical conversion of value added chemicals, renewable energy, spectroscopy (UV-Vis kinetics, FTIR, resonance Raman, cryogenic intermediate trapping and elucidation of reaction mechanism)
Chandrakumar Appayee	Associate Professor	IISc, Bangalore 2008	Asymmetric catalysis
Iti Gupta	Associate Professor	IIT Bombay, 2005	Macrocyclic receptors & expanded porphyrinoids
Sairam Swaroop Mallajosyula	Associate Professor	JNCASR, Bangalore, 2009	Carbohydrate-protein interactions
Saumyakanti Khatua	Associate Professor	Rice University, 2011	Plasmonics
Sivapriya Kirubakaran	Associate Professor	IISc Bangalore, 2007	Drug discovery and cancer chemical biology
Sriram V Gundimeda	Associate Professor	IIT Bombay, 2001	Bio-organic chemistry
Sudhanshu Sharma	Associate Professor	IISc Bangalore, 2009	Materials, electrochemistry
Sudipta Basu	Associate Professor	Max-Planck Institute for Molecular Physiology, Germany, 2006	Chemical biology of mitochondria and endoplasmic reticulum
CIVIL ENGINEERING			
Ajanta Sachan	Associate Professor	University of Tennessee, 2005	Material characterization

DISCIPLINE	DESIGNATION	PHD/LAST DEGREE	SPECIALISATION
Amit Prashant	Professor	University of Tennessee, 2004	Constitutive modeling for granular materials
Ashwini Kumar*	Visiting Professor	University of Waterloo, 1974	Stability abd large deformation of structures
C N Pandey	Professor of Practice (jointly with Earth Sciences)	North Gujarat University, 2011	Forestry, wildlife, environment
Dhiman Basu	Associate Professor	SUNY, Buffalo, 2012	Rotational seismology, complex structures
G V Rao	Visiting Professor	IISc Bangalore, 1973	Geotechnical testing and evaluation
Gaurav S	Associate Professor	University of Minnesota, 2011	Uncertainty quantification
Manish Kumar	Associate Professor	State University of New York at Buffalo, 2015	Performance-based earthquake engineering
Pranab Kumar Mohapatra	Professor	IIT Kanpur, 1999	Hydraulics and water resources engineering
S R Gandhi	Visiting Professor	IIT Madras, 1985	Pile foundation, Ground Improvement, Fly ash disposal field Instrumentation
Sameer Patel	Assistant Professor	Washington University, Saint Louis, USA, 2017	Aerosol and air quality
Sudhir Kumar Arora**	Professor of Practice	KSOU, 2011 (MBA)	Infrastructure Development, Water Supply (Urban/Rural), Sewer networks and STPs, Reuse of treated effluent, Low Cost Sanitation, Rain water Harvesting
Sudhir K Jain*	Director & Professor	Caltech, 1983	Earthquake Engineering, structural dynamics
Udit Bhatia	Assistant Professor	Northeastern University, 2018	Critical infrastructure resilience and network science
Vimal Mishra	Professor	Purdue University, 2010	Surface water hydrology
COMPUTER SCIENCE AND ENGINEERING			
Abhishek Bichhawat	Assistant Professor	Universität des Saarlandes, Germany, 2018	Language-based security
Anirban Dasgupta	Professor	Cornell University, 2005	Algorithms for large scale data
Balagopal Komarath	Assistant Professor	IIT Madras, 2016	Circuit complexity and other low-level computational models
Bireswar Das	Associate Professor	Institute of Mathematical Sciences, Chennai, 2010	Computational complexity theory and algorithms
Manoj D Gupta	Assistant Professor	IIT Delhi, 2013	Dynamic graph algorithms
Mayank Singh	Assistant Professor	IIT Kharagpur, 2019	Text mining natural language & processing and machine learning
Neeldhara Misra	Associate Professor	Institute of Mathematical Sciences, Chennai, 2012	Design and analysis of algorithms
Nipun Batra	Assistant Professor	IIIT Delhi, 2017	Sensor networks, machine learning and computational sustainability
Sameer G Kulkarni	Assistant Professor	Washington University, Saint Louis, USA, 2018	Network function virtualization
CREATIVE LEARNING			
Manish Jain	Teaching Professor	IIT Kanpur, 1993 (BTech)	3D geometry, polyhedra, geodesics, machines & mechanisms, and recreational math
DESIGN			
Manasi A Kanetkar	Assistant Teaching Professor	IIT Bombay, 2006 (MDes)	Pedagogy in design education and semiotics & design
EARTH SCIENCES			
Manish Kumar*	Assistant Professor	The University of Tokyo, 2000	Pathways of contamination in freshwater system
Pankaj Khanna**	Assistant Professor	Rice University, 2017	Carbonate depositional systems, sea-level fluctuations, deglaciation, sequence stratigraphy, photogrammetry, geothermal energy
Pradeep Srivastava	Adjunct Professor	Peoples' Friendship University, Moscow, Russia, 1983	Theoretical mechanics & control systems
R N Singh	Visiting Professor	Banaras Hindu University, Varanasi, 1969	Modeling of near-surface geophysical and environmental processes
Sanjay Singh Bora*	Assistant Professor	University of Potsdam, 2016	Spectral analysis of source, path and site effects
Utsav Mannu**	Assistant Professor	ETH Zurich, 2016	A Holistic appreciation of geodynamic processes using numerical modeling
Vikrant Jain	Professor	IIT Kanpur, 2001	Earth surface processes

* For part of the year
** Joined during the year

DISCIPLINE	DESIGNATION	PHD/LAST DEGREE	SPECIALISATION
ELECTRICAL ENGINEERING			
Anand Kumar**	Professor of Practice	Lucknow University, 1998	Power Sector Regulation, Training and Capacity Building, Policy & Finance, Renewable Energy Policy & Regulation, Load Forecasting, Tariff design & working models, Power Purchase Agreements, Energy Pricing, Energy Access, Standard of Performance and Safety Standards
Arup Lal Chakraborty	Professor	University of Strathclyde, UK, 2010	Tunable diode laser spectroscopy for gas parameter measurement
Himanshu Shekhar	Assistant Professor	University of Rochester, 2014	Therapeutic ultrasound and nonlinear imaging
Jhuma Saha**	Assistant Professor	IIT Bombay, 2019	III-V semiconductor materials and devices, Microelectronics and VLSI design
Joycee Mekie	Associate Professor	IIT Bombay, 2009	VLSI design
Naran M Pindoriya	Associate Professor	IIT Kanpur, 2009	Restructuring power systems- technical and economical issues
Nihar Ranjan Mohapatra	Professor	IIT Bombay, 2003	Semiconductor devices and technology
Nithin V George	Associate Professor	IIT Bhubaneswar, 2012	Active noise control, adaptive signal processing
Nitin Khanna*	Assistant Professor	Purdue University, 2009	Multimedia security, sensor forensics
Ragavan K	Associate Professor	IISc Bangalore, 2006	Transformer diagnostics
Ravi S Hedge	Associate Professor	University of Michigan, Ann, Arbor, 2008	Optical properties of nanostructures
S B Chakrabarty**	Visiting Professor	IT Kharagpur, 1995	Electromagnetic modelling, Simulation and design of the antenna, System of a variety of antenna and passive components aiming towards the advanced satellite applications related to communication, Microwave remote sensing and navigation
S Rajendran	Associate Teaching Professor	IIT Madras (MTech), 1988	High speed packaging machines-VFFS and HFFS technologies
Shanmuganathan Raman	Associate Professor (jointly with Computer Science and Engineering)	IIT Bombay, 2011	Computational photography
Tarun Kumar Agarwal**	Assistant Professor	KU Leuven, 2018	Modeling and simulation of emerging nanoscale devices
Uttama Lahiri	Professor	Vanderbilt University, 2011	Virtual reality based human computer interaction used in affective computing
HUMANITIES AND SOCIAL SCIENCES			
Achal Mehra	Visiting Professor	Southern Illinois University, Carbondale, 1985	Online media, media management, investigative reporting, media law, media ethics
Ambika Aiyadurai	Assistant Professor	National University of Singapore, 2015	Anthropology of nature conservation and the role of local communities
Angus McBlane	Visiting Assistant Professor	Cardiff University, 2014	Cultural theory, embodiment, environmental humanities
Arka Chattopadhyay	Assistant Professor	Western Sydney University, 2016	20th century literature: modernism and postmodernism, modern theatre, European avant garde fiction
Arnapurna Rath	Assistant Professor	IIT Bombay, 2010	South-Asian literature, critical theories, Bakhtin studies, creative writing
Deepak Singhania**	Assistant Professor	University of California, Riverside, 2017	Interaction of Development Economics, Public Policy, and Political Economy
Dyotana Banerjee*	Lecturer	IIT Gandhinagar, 2020	Politics of urban transformation
Jaison A Manjaly	Professor	IIT Kharagpur, 2008	Experience, consciousness, rationality
Jooyung Kim	Assistant Teaching Professor	University of Delaware, 2018	Linguistics syntax and semantics
Krishna Prasad Miyapuram	Associate Professor (jointly with Computer Science & Engineering)	University of Cambridge, 2008	Brain imaging (fMRI) and cognitive science
Leslee Lazar	Assistant Teaching Professor	National Brain Research Centre, India, 2013	Neuroscience of design, science communication, cultural cognition, behavioral change
Madhumita Sengupta	Assistant Professor	University of Calcutta, 2009	Colonial India and the socio - political history of Assam
Malavika Subramanyam	Associate Professor	Harvard University, 2009	Socioeconomic context and neighbourhoods on nutrition and diabetes

DISCIPLINE	DESIGNATION	PHD/LAST DEGREE	SPECIALISATION
Mana A Shah	Lecturer	Gujarat University, 2012 (MA)	Sanskrit and Prakrit grammar, Jain kavya and Stotra literature, manuscriptology
Meera Mary Sunny	Associate Professor	University of Warwick, 2011	Visual attention, attention capture
Mohd. Mubashshir Ahsan	Lecturer	Jawaharlal Nehru University, 2016	Arabic and Islamic studies in India
Nishaant Choksi	Assistant Professor	University of Michigan, Ann Arbor, 2014	Semiotics; linguistic ethnography; script and writing systems
Rosa Maria De Figueiredo Peres	Visiting Professor	ISCTE, Lisbon, 1992	Social structures, Social segregation, Subaltern studies, Fieldwork methodology, Portuguese colonialism and post-colonialism in India, Globalization, and Diaspora. Anthropology and Cinema
Sharmita Lahiri	Associate Professor	University of Houston, 2008	Postcolonial literature and composition
V N Prabhakar	Associate Professor	Kurukhsetra University, 2013	Archaeology of protohistorical India
MATERIALS ENGINEERING			
Abhay Raj Singh Gautam	Assistant Professor	University of Virginia, 2009	Interface structure and dynamics
Abhijit Mishra	Associate Professor	University of Illinois, Urbana-Champaign, 2010	X-Ray diffraction, membrane properties
Amit Arora	Associate Professor	The Pennsylvania State University, 2011	Friction stir welding, heat transfer and visco-plastic flow
Emila Panda	Associate Professor	Max Planck Institute, Germany, 2009	Investigations of thin films and nanostructured materials
Jyoti Mukhopadhyay	Visiting Professor	IIT Bombay, 1982	Structure – property correlation
Pradipta Ghosh	Assistant Professor	IISc Bangalore, 2014	Synthesis of nanocrystalline metals alloys and composites, microstructure characterization of nanocrystalline materials
Raghavan Ranganathan	Assistant Professor	Rensselaer Polytechnic Institute, 2016	Atomistic/Molecular simulations of structure-property relations and dynamics of soft matter
S P Mehrotra	Visiting Professor	IIT Kanpur, 1973	Mineral processing and process metallurgy
Sriharitha Rowthu	Assistant Professor	École Polytechnique Fédérale de Lausanne, 2016	Wetting and dewetting phenomena
Superb Kumar Misra	Associate Professor (jointly with Mechanical Engineering)	Imperial College London, 2007	Biomaterials and tissue engineering
MATHEMATICS			
Akshaa Vatwani	Assistant Professor	Queen's University, 2016	Analytic number theory, sieve methods and algebraic number theory
Arnab Saha	Assistant Professor	University of New Mexico, 2012	Arithmetic jet spaces
Atul Abhay Dixit	Associate Professor	University of Illinois at Urbana-Champaign, 2012	Analytic number theory
Bipul Saurabh	Assistant Professor	Indian Statistical Institute, Delhi, 2016	Operator algebras, noncommutative geometry and quantum groups
Chetan Pahlajani	Assistant Professor	University of Illinois, Urbana-Champaign, 2007	Probability theory and stochastic processes
Fatma Cicek*	Assistant Research Professor	University of Rochester, 2000	Analytic number theory
Gadadhar Misra**	Visiting Professor	Stony Brook University, NY, 1982	The broad area of operator theory using tools from complex geometry and representation theory
Indranath Sengupta	Professor	IISc Bangalore, 2001	Commutative algebra, algebraic geometry
Jagmohan Tyagi	Associate Professor	IIT Kanpur, 2008	Ordinary differential equations, elliptic partial differential equations
Mohan Joshi	Visiting Professor	Purdue University, 1973	Nonlinear analysis
Rohit Kumar Mishra**	Assistant Professor	TIFR Centre for Applicable Mathematics Bangalore, 2017	The field of inverse problems related to integral geometry, partial differential equations, microlocal analysis and medical imaging
Sanjaykumar Amrutiya	Assistant Professor	Harish-Chandra Research Institute, Allahabad, 2012	Tannakian group schemes, moduli spaces, vector bundles
Satyajit Pramanik	Assistant Professor	IIT Ropar, 2016	Mathematical modeling and scientific computing
Tanya Kaushal Srivastava**	Assistant Professor	Freie Universitat Berlin Germany, 2018	Algebraic Geometry (Mathematics)
V D Sharma	Visiting Professor	Banaras Hindu University, 1972	Quasilinear systems of partial differential equations

* For part of the year
** Joined during the year

DISCIPLINE	DESIGNATION	PHD/LAST DEGREE	SPECIALISATION
MECHANICAL ENGINEERING			
Atul Bhargav	Professor	University of Maryland, College Park, 2010	Fuel cell systems design and simulation
D P Roy	Visiting Professor	Tech University Aachen, 1976	Fluid dynamics and fluid machinery
Dilip S Sundaram	Associate Professor	Georgia Institute of Technology, 2013	Thermofluid sciences, combustion, and energetic materials
G K Sharma	Visiting Professor	Moscow Power Engineering Institute, 1974	Thermal engineering
Harish J Palanthandalam-Madapusi	Associate Professor	University of Michigan, Ann Arbor, 2007	Systems and control theory, system identification (data-based modeling)
Jaichander Swaminathan	Assistant Professor	Massachusetts Institute of Technology, 2017	Thermal sciences, water-energy systems, industrial reuse and recycling
K R Jayaprakash	Assistant Professor	University of Illinois at Urbana Champaign, 2013	Wave propagation in one and two-dimensional granular media
N Ramakrishanan	Visiting Professor	IIT Bombay, 1980	Manufacturing, automation and composite materials
Ravi Sastri Ayyagari	Assistant Professor	Illinois Institute of Technology, 2013	Solid mechanics, constitutive modeling, computational mechanics
Soumyadip Sett	Assistant Professor	University of Illinois at Chicago, 2016	Energy engineering, thermo-fluids, heat transfer, interfacial phenomena and micro/nanoscale
Uddipta Ghosh	Assistant Professor	IIT Kharagpur, 2016	Low-reynolds number hydrodynamics, with special focus on electrokinetics of complex systems
Venkata Madhukanth Vadali	Assistant Professor	University of Wisconsin, Madison, 2013	Dynamic systems, control systems, manufacturing, mechatronics, robotics
Vineet Vashista	Assistant Professor	Columbia University, 2015	Design and control of mechanical systems
Vinod Narayanan	Associate Professor	JNCASR, Bangalore, 2006	Fluid mechanics
PHYSICS			
Anand Sengupta	Associate Professor	IUCAA Pune, 2005	Detection of gravitational waves, aspects of CMB data analysis
Arpan Bhattacharyya	Assistant Professor	IISc Bangalore, 2015	Quantum entanglement in many-body systems
Baradhwaj Coleppa	Associate Professor	Michigan State University, 2009	Beyond the standard model – model building and LHC, phenomenology of new states
Chandan Kumar Mishra	Assistant Professor	Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, 2017	Experimental soft condensed matter physics
Krishna Kanti Dey	Assistant Professor	IIT Guwahati, 2011	Active matter, colloidal dynamics, nanotechnology
Prasanna Venkatesh Balasubramanian	Assistant Professor	McMaster University, 2013	Theoretical research in quantum optics and nanophysics, ultracold atomic physics
R R Puri	Visiting Professor	Bombay University, 1981	Theoretical quantum optics, quantum mechanics, random matrix theory of quantum chaos
Rupak Banerjee	Associate Professor	University of Calcutta (Saha Institute of Nuclear Physics), 2012	Surface physics and materials science
Sudipta Sarkar	Associate Professor	University of Pune, IUCAA, 2009	General relativity and black hole thermodynamics
Sutapa Roy	Assistant Professor	Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, 2013	Theoretical physics, statistical mechanics, soft matter
Vinod Chandra	Associate Professor	IIT Kanpur, 2009	Quark-gluon-plasma and relativistic heavy ion collisions

* For part of the year
** Joined during the year

NON-TEACHING STAFF AGAINST REGULAR POSITIONS

EMPLOYEE NAME	DESIGNATION
Akshay	Junior Accountant
Kunal Agnihotri	Junior Accounts Assistant
Jyothish Kumar AP**	Junior Laboratory Attendant
M Armugam	Junior Laboratory Attendant
Suganya Arumugam	Junior Technical Superintendent
Babloo	Junior Laboratory Attendant
Vinod Kumar Singh Baghel*	Superintending Engineer
Palak R Bagiya	Laboratory Assistant
Sudeep Narayan Banerjee	System Analyst
Suvakanta Barik	Technical Superintendent
Raju Beerasent	Junior Technical Superintendent
Timir Yakunj Berawala	Assistant
Ram Babu Bhagat	Joint Registrar
Mukesh Bhandari	Assistant Registrar
Rahulendra Bhaskar	Technical Superintendent
Kandarp Bhatt	Junior Accounts Officer
Nirav Madanbhai Bhatt	Junior Laboratory Assistant
Sabarmati Bhattacharya	Library Information Assistant
Tushar H Brahmbhatt	Laboratory Attendant
Aravind Chadhar**	Junior Laboratory Attendant
Biresh Chaubey	Assistant Registrar
Divyangi N Chaudhari*	Junior Laboratory Assistant
Hareshkumar Chaudhari	Assistant Staff Nurse
Pannaben Chaudhari	Assistant Librarian
Rohit Chaudhary	Technical Superintendent
Krupesh Chauhan	Junior Accountant
Praveen Singh Chauhan**	Junior Superintendent
Pratikkumar K Chavda	Junior Laboratory Assistant
Prem Kumar Chopra	Registrar
Parulben P Christian	Assistant Staff Nurse
Tapas Kumar Das	Senior Library Information Assistant
Dinesh B Desai	Junior Laboratory Attendant
Varaprasad Dhanikela*	Junior Laboratory Assistant
Bhavna V Dharani	Junior Accountant
Tej Bahadur Gaurang	Assistant
Supin Gopi	Technical Superintendent
Hemant Kumar Gupta	Junior Assistant
Laxmi P Hirani	Laboratory Assistant
Vishnu Deth J J*	Assistant Engineer
Yogesh Dattatraya Jade	Junior Superintendent
Nivita Naval Jain	Junior Accounts Assistant
Sudarshini Jain	Junior Accounts Officer
Achintya Jana**	Junior Technical Superintendent
N Jayakumar	Assistant Engineer
Meena Joshi	Assistant Registrar
Santosh Kumar Joshi	Assistant Physical Training Instructor
Jithesh V K	Superintendent
Navdiwala Ankur K	Laboratory Assistant
Payal Kabariya	Junior Assistant
Ashish Sohanlal Kanojiya	Junior Laboratory Assistant
Dharmeshkumar V Kapadiya	Laboratory Attendant
Mangeshkar Karade**	Junior Engineer
Hani M Khamar	Junior Assistant
Chirag D Khuha	Junior Accounts Assistant
Anil Kumar	Junior Accounts Assistant
Rajan Kumar*	Library Information Assistant
Sanjay Kumar	Assistant Registrar
Sharad Kumar	Junior Laboratory Assistant
Vikas Kumar	Executive Engineer (Civil)
T S Kumbar*	Librarian
Prajapati Ramanand L*	Junior Laboratory Assistant
Dipakkumar K Lalpura	Junior Assistant
Pijush Majumdar	Assistant Registrar
Paresh B Makwana	Junior Accounts Assistant
Prashant G Makwana	Assistant
Shrikant Shivaji Mali	Junior. Superintendent
Ibrahim Mallik**	Assistant Engineer
Vijay Meena	Junior Accountant
Jay Mehta*	Junior Accountant
Parth R Mehta	Junior Assistant
Laxmi Kant Mishra	Assistant Executive Engineer
Pradipbhai K Ninama	Junior Laboratory Attendant
Dharmendra S Panchal	Assistant Engineer
Ashish Kumar Pandey	Junior Laboratory Attendant
Sanjeev Kumar Pandey	Accounts Officer
Pragnesh Parekh	Technical Superintendent
Bhavik Parmar	Junior Accounts Assistant
Dinesh H Parmar	Senior Physical Training Instructor
Shaileshkumar J Patani	Junior Assistant
Akash Mahendrakumar Patel	Junior Superintendent
Arika Patel	Junior Accounts Officer
Bhikhabhai R Patel	Junior Laboratory Attendant
Darshan C Patel	Assistant
Harshad Patel	Accounts Officer
Jignesh S. Patel	Laboratory Assistant
Kamini Patel	Assistant
Sachin Maganlal Patel	Senior System Analyst
Sanjay T Patel	Junior Laboratory Assistant
Sanket Patel	Junior Technical Superintendent
Twinkle Patel	Accounts Officer
Jitendra Pukhraj Pawar	Junior Accountant
Krishna Pilojpara**	Junior Laboratory Assistant
Don Augusty Plackal**	Junior Laboratory Assistant
Jayesh Prajapati	Junior Laboratory Attendant
Rajji**	Junior Engineer
Narendra J Rabadiya	Junior Assistant
Vaibhavi Raulji	Junior Assistant
Santosh Raut	Superintendent
Pranav Rohit	Assistant Registrar
Pavitra Kumar Rout	Junior Accountant
Saswati Roy	Assistant Registrar
Kumar Ankit Saha	Junior Accounts Assistant
Shibaram Sahoo	Junior Laboratory Attendant
Rupali M. Salve	Junior Assistant
Jay Hitesh Sampat	Junior Accounts Assistant
Komal Sangtani	Assistant
Sujit Kumar Shah	Assistant
Viral Y Shah	Superintendent
Deepak Sharma	Junior Laboratory Assistant
H K Sharma	Deputy Registrar
Mukesh Sharma	Senior Staff Nurse
Gaurav Shukla	Superintendent
Nitin Shukla	Technical Superintendent
Mantasha N Siddiqui	Library Information Assistant
Gaurav Kumar Singh	Junior Superintendent
Harish Singh	Junior Assistant
Ratnesh Kumar Singh	Assistant Physical Training Instructor
Mrugesh R Solanki	Junior Superintendent
Tenils Solanki	Superintendent
Jatinkumar M Soni**	Junior Laboratory Assistant
Nilesh Soni*	Junior Engineer
Ravi Subhash Soni	Assistant Executive Engineer
Hiral Suchak	Junior Accountant
Raviraj V Sukhadiya	Junior Laboratory Assistant
Nisha Tahiliani*	Junior Accountant
Sachin S Tawde	Technical Superintendent
Prabhuji Thakor	Laboratory Attendant
Supresh Thaleshari	Laboratory Attendant
Shubham Rajendra Tongire**	Junior Laboratory Assistant
Aman Tripathi**	Junior Laboratory Assistant
Suryakant Tyagi**	Junior Engineer
Rajendra Vaishnav	Accounts Officer
Lakshmipriya G Valappil	Junior Accountant
Piyushbhai P Vankar	Assistant
Patel Rajendrabhai Vasantbhai**	Junior Helper
Manish Yadav**	Junior Laboratory Attendant
Anjanaba R Zala	Junior Accountant
Devendrasinh D Zala	Driver

* For part of the year
** Joined during the year

ALUMNI RELATIONS

ALUMNI ENGAGEMENT

At least 50 % of IITGN alumni contributed to the "Annual Alumni Giving" for the third consecutive year, with almost equal participation by undergraduate and postgraduate alumni. These are among the highest alumni participation rates at higher education institutes in the world. It is also worth noting that despite being in their early or mid-career, IITGN Alumni have instituted 21 endowed scholarships during the last three years, which is testimony to their affection and commitment to their alma mater.

ALUMNI INITIATIVES

ALUMNI MASTERCLASS SERIES

The Masterclass sessions allow students to connect with alumni and collect valuable information from alumni about various career tracks. These sessions are relaxed and friendly virtual webinars presented by the alumni to students that include discussions where students are encouraged to ask questions about entering the professional world

Kislay Pankaj (BTech/EE/2013) presented an online masterclass session on Aug 28, 2021, 'Smart Vehicles and its Energy Sources.' Kislay is currently working as Chief Technology Officer at Micelio Electric Vehicles, Bangalore.

Harsh Gupta (BTech/ME/2015) presented an online session on Oct 30, 2021, 'How to deliver an effective, engaging presentation.' Harsh is currently working as Head of Product at Wysa, Bangalore.

Hritwick Banerjee (MTech/EE/2014) presented an online session on Nov 14, 2021, 'Merging Humans and Machines with Disruptive Technologies.' Hritwick is currently pursuing his PhD at EPFL, Switzerland.

Dr Sumitava Mukherjee (PhD/HSS/2014) presented an online session on Jan 15, 2022, 'Towards Behavioral AI:

the human psychology about Algorithms'. Dr Sumitava is currently working as Assistant Professor at IIT Delhi.

ALUMNI STARTUP DIALOGUES

Alumni entrepreneurs share their insights into their entrepreneurial spirit, strategic thinking, success management, and the trajectory of a start-up

The first startup dialogue was organized online on Jan 12, 2022. **Saurya Sinha** (BTech/EE/2013) and **Prashant Borde** (BTech/EE/2012) shared their insights into their entrepreneurial spirit, strategic thinking, success management, and startup trajectory. Saurya and Prashant are the founders of a financial services startup Recko, Inc.

IITGN ALUMNI CLUSTERS

The IITGN Alumni Clusters was launched on the official IITGN Alumni portal to facilitate alumni communication, interaction, and meet-ups. Alumni Clusters will act as a support mechanism for the alumni community, connect with their IITGN comrades and build a strong IITGN Community

YOUNG ALUMNI EXCELLENCE AWARD

IITGN Alumni are impacting various domains such as research, teaching, entrepreneurship, and public service. To recognize their achievements early and encourage them to take up more challenging and impactful roles in their lives and careers, "Young Alumni Excellence Award" is instituted under the following categories:

- Outstanding professional achievement
- Outstanding academic achievement
- Outstanding entrepreneurship
- Excellence in leadership, public influence, societal impact, and volunteerism

HONORARY ALUMNI PROGRAM

Individuals who are not graduates of IITGN and who make significant contributions to the welfare, reputation, impact, and prestige of IITGN would be recognized by IITGN as Honorary Alumni of IITGN

ASSOCIATE ALUMNI PROGRAM

Individuals who spent time at IITGN for extracurricular activities, internships, projects, initiatives, etc., non-degree students, and faculty members are eligible for the Associate Alumni Membership

IITGN ALUMNI APP ON IOS AND ANDROID

The Alumni Relations launched the IITGN Alumni app on iOS and Android platforms. All the IITGN Community members can join the Alumni Portal using the mobile app.

ALUMNI ACHIEVEMENTS

Nisarg Shah's (BTech/EE/2014) startup Affable.ai, based in Singapore has raised USD 2 million from Prime Venture Partners, Decacorn Capital, and SGInnovate. Affable has raised a total of USD 2.8 million.

Shashank Agarwal (BTech/ME/2014) secured the Edward L Horton Fellowship Award 2021 at Massachusetts Institute of Technology (MIT), USA. He is pursuing his PhD at MIT.

Dr Deekshi Angira (PhD/CH/2020) secured the Fulbright Nehru Scholarship. She is currently a Postdoctoral Researcher at the IISc Bangalore.

Dr Jagriti Gangopadhyay (PhD/HSS/2018) published her first monologue titled 'Culture, Context, and Aging of Older Indians, Narratives from India and Beyond' by Springer. She is currently working as an Assistant Professor at the Manipal Center for Humanities, Karnataka.

Amandeep Kaur (BTech/CL/2014) qualified in the Civil Services Exam 2020 with an All India Rank 734. She is currently working as an Officer in Delhi, Andaman and Nicobar Islands Police Service (DANIPS)

Dr Yogesh Goyal (BTech/CL/2012) was selected as a 2021 STAT Wunderkind. STAT Wunderkinds are the early-career scientists selected to recognize their work in the fields of Science and Medicine. Dr Yogesh is currently Assistant Professor at Northwestern University, USA.

ALUMNI AS FACULTY IN IITS

- **Dr Deepesh Kumar** (PhD/EE/2018) joined as Assistant Professor at IIT BHU, Varanasi
- **Dr Debayan Bhattacharya** (PhD/CE/2019) joined as Assistant Professor at IIT Delhi
- **Dr Saran Aadhar** (PhD/CE/2021) joined as Assistant Professor at IIT Jodhpur
- **Dr Kaling Taki** (PhD/CE/2021) joined as Assistant Professor at IIT Guwahati

ALUMNI GIVING

The alumni giving at IITGN has created twenty-two alumni scholarships, five class scholarships, and batch gift funds for various programs

Alumni Giving during last three financial years

	FY 2019-20	FY 2020-21	FY 2021-22
Alumni Strength	1762	2208	2749
Total Donors	883	1215	1381
Total Percentage of donation	50.10%	55.0%	50.23%

THE POWER OF 5

The Power of 5 is a bold initiative of IITGN to endow 50 scholarships over the coming years with individual donations of Rs 5 lakhs by alumni of IITGN. According to this scheme, alumni
donating Rs 5 lakhs will create a perpetual scholarship worth Rs 1 lakh yearly.

- Alumni donate Rs 5 lakhs
- This amount is equally matched with a private donor to create Rs 10 lakhs
- The Institute matches the combined contribution with Rs 10 lakhs to create a total corpus of Rs 20 lakhs
- The corpus of Rs 20 lakhs creates a perpetual scholarship of Rs 1 lakh annually

List of Alumni Endowed Scholarships instituted in FY 2021-2022

NAME OF THE SCHOLARSHIP	ALUMNI DONOR
Dr T G Visweswaraiah Scholarship	Avinash Tumkur
	Aparna Tumkur
Nisha and Vipin Jain Scholarship	Shruti Jain
Shri Anandilal Bubna Scholarship	Ngan Le
Shri Satyanarayan Kakrania Scholarship	Rishi Bubna
Seva Scholarship	Yash Kotak

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