



INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

PARTNERS IN SUCCESS

Join our journey to a world class institution



PARTNER WITH US

IIT Gandhinagar (IITGN) began its journey as one of the new Indian Institutes of Technology in August 2008. The formative years of an Institute crucially forge its academic character, value system, and culture in the long run. IITGN has been extremely fortunate to receive extraordinary support from a very large number of well-wishers. This cumulative support has laid a strong foundation for the Institute to thrive in the years ahead, enabling it to launch numerous initiatives. In 2009, our well-wishers established the IIT Gandhinagar Foundation, a charitable organization in California, to channel philanthropic contributions from US-based supporters. The donations are being utilized to attract and support outstanding faculty and students.

IIT Gandhinagar aspires to be a top ranked school worldwide and we seek the support and participation of everyone who shares our dream of seeing India emerge stronger in the decades to come. We owe a debt of gratitude to millions of our compatriots who have been so generous with their resources, and we assure them that their trust is well invested in this Institute. With this heavy responsibility on our shoulders, we seek your active participation and support in our collective endeavour to build a world class Institute.

Sudhir K Jain
Director



Dr Sudhir K Jain

INNOVATION IS IN OUR DNA

As a greenfield project, IIT Gandhinagar provides a unique opportunity to create a great university — *an Institution that fosters excellence in learning, research, scholarship and innovation, and that helps create global leaders in different fields.* To achieve its aspirations of becoming a world renowned institution of higher learning, IITGN recognises that it cannot simply follow practices pursued at other institutions, but must blaze new paths. *Innovation is not another buzzword for us; it is the essence of our character, even our DNA. Innovation is not just a virtue, it is equally an imperative.*

In a very short span of its existence, IITGN has developed an enviable reputation in educational circles for its innovations in curriculum and governance, some of which are outlined in the following pages.



A working prototype for agricultural operations; part of the Synthesis and Analysis of Mechanisms course.

IITGN has developed an enviable reputation in educational circles for its innovations in curriculum and governance.

Cover & Back page: Graduating students at 2017 Convocation.

INNOVATION

A five-week immersion Foundation Programme for all new undergraduate students nurtures creativity, communication and teamwork, values and ethics, societal concerns, and physical fitness.

To promote critical thinking and an appreciation of the interdisciplinary character of knowledge, IIT Gandhinagar undergraduates credit more than 20% of their coursework in the liberal arts — nearly twice the proportion of other leading engineering institutions in the country. They also study compulsory courses in design and the life sciences.

EMPOWERMENT

Follow Your Passion: IIT Gandhinagar empowers students to discover and pursue their passion, with the most liberal branch change policy among all IITs, offering the opportunity to most students to switch to a discipline of their choice in their second year.

Project oriented learning.

ENGAGEMENT

Project Based Learning: The Institute emphasises project based learning both inside and outside the classroom. A mandatory design course for all undergraduates in the second year and activities under the Design and Innovation Centre such as talks, seminars, symposium and workshops have together deepened our efforts to connect research with the goals of community engagement.

Our students have undertaken innovative community and commercial projects such as crafting a device that enables Parkinson patients to walk better and development of a device that non-invasively measures six vital physiological parameters in a cost-effective manner.



DIVERSITY

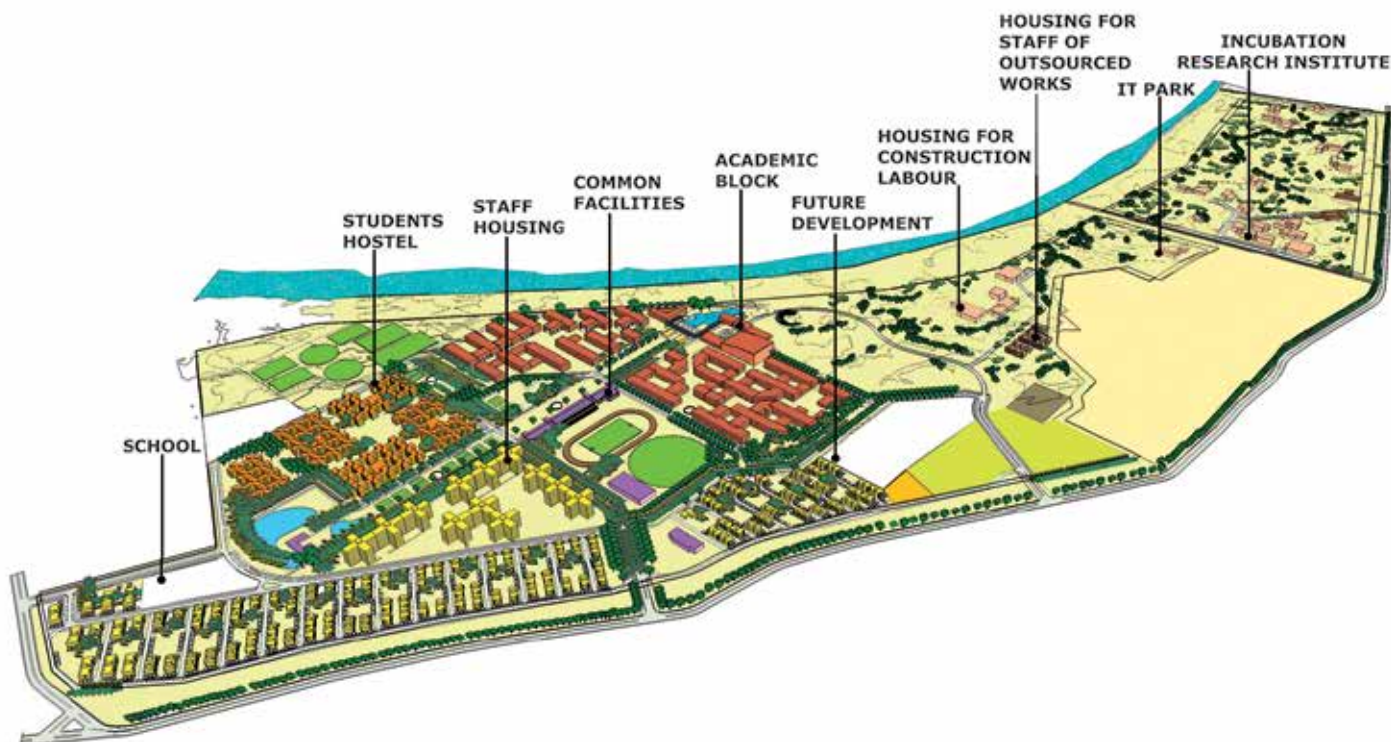
In addition to recruiting its full time faculty from some of the world's finest institutions (Carnegie Mellon, Purdue, Cambridge, Michigan, Vanderbilt, Cornell, Urbana-Champaign, Max Planck, Harvard, Warwick, Imperial College, Columbia), IIT Gandhinagar has established a vigorous visiting faculty program and a flexible short course structure, which exposes our students to a plethora of the most prominent scholars and professionals from all over India and overseas. Students attend cutting edge workshops and programs in diverse fields.

OUTCOMES

Our 2017 BTechs testify to the success of our vision and mission.

- Nearly **40%** of the undergraduate class carried out research in leading universities overseas.
- Nearly **1 in 7** graduating student is pursuing a master's or doctoral degree.
- Several have chosen entrepreneurship and founded start-ups such as Whitepanda Media Pvt. Ltd. and Razzmatazz Foods Pvt. Ltd.
- Rest have found prestigious placements in the industry and beyond such as: ITC Ltd, Barclays, TCS, and Larsen & Toubro Ltd.

Masterplan of IIT Gandhinagar Campus



IIT Gandhinagar Campus



Academic Building 1 auditoriums



Academic building 2 auditorium



Darpan at Academic complex



Entrance to Academic complex from hostel



The fabric pattern in Samvad inspired from the kite flying traditions in Gujarat



Lal Minar view at night



Night view of hostels



Hostel area



Night view of hostel



Hostel mess



Campus Housing

INNOVATIONS IN ACADEMICS

The IITGN curricula have the largest liberal arts content of any engineering curricula in the country.

Undergraduate Curriculum: Our undergraduate curriculum is a significant departure from that of other technology programs in the country. The curriculum focuses on the overall development of the students and prepares them for their last job, not just their first one. It includes an introductory course on design, a compulsory course in the life-sciences, a significant exposure to design and creativity, and offers academic flexibility to students.

Emphasis on the Humanities and Social Sciences: The Institute believes that technology development is rooted in a social context, and thus, it emphasises the humanities and social sciences (HSS), both in the curriculum and other facets of academic life. The IITGN curricula has the largest liberal arts content of any engineering curricula in the country. All undergraduates must take a minimum of 8 courses of their coursework in HSS and have the option to take up to 17 courses in HSS and Management. Similarly, the MTech curriculum requires nearly 20% of the course work in HSS. The institute strives to bring the most outstanding teachers, both as full time and visiting faculty from India and overseas. Among the courses being taught at IITGN include literature and languages (English, Sanskrit, Urdu), Philosophy, Sociology, Democracy, Indian Heritage, Anthropology, Ancient Indian History, etc.

Student cultural program.



Foundation Programme: The Institute has developed a unique five-week Foundation Programme aimed at orienting them towards a holistic education that develops a broad set of life skills, such as: a) physical fitness, b) leadership and teamwork, c) values and ethics, d) societal concerns, and e) creativity. The programme includes interactions with renowned speakers through lectures, workshops, discussions, short projects, field activity, etc. This programme started in 2011 and has since been adopted by several IITs.

Emphasis on Physical Fitness: The Institute places great emphasis on physical fitness in its curriculum in the belief that healthy bodies and healthy minds must ideally co-exist. All undergraduate students are required to engage in sports activities five days a week for two semesters, which helps rekindle dormant passions for sports and outdoor activities.

Self-Learning Option for Regular Courses: Under a novel policy, our students are given the option of studying on their own, without meeting the instructor-specified attendance norms. Students forego the benefits of in-semester evaluations, in exchange for accepting the challenge of being graded on the basis of an exacting final examination.

Short Courses: Our Short Course series is designed to contribute to the well-rounded growth of students. Each Short Course runs for 8-10 hours and is conducted by a guest on topics other than subjects covered in the regular curriculum. Students earn one credit for the course, which is listed in the grade card, and their participation is voluntary. Some recent Short Courses offered include: Geopolitics of change; Transitions in the 21st century; Sleep, Dreams, and Dream Interpretation; Science, Experience, Social theory; Point-cloud processing in Environmental Sciences; and Building early stage startups and Valuations. These courses are open to students and faculty of other colleges in the city, enabling IITGN to cultivate stronger academic links and contribute to the community.

Comprehensive Viva-Voce: A comprehensive viva-voce is a mandatory curricular activity meant to facilitate better communication with students and sustain their motivation. Carefully structured interactions with students under this programme enable timely feedback on new Institutional initiatives, help in early identification of weaknesses, and provide crucial indicators for systemic changes when required.

Peer Assisted Learning (PAL): is designed for first and second year BTech students who need assistance with improving English language proficiency and transitioning to adopting English in their courses. Led by senior students who engage students outside the classroom through interactive discussions in English and other curriculum-related topics, the programme also improves student interaction across cohorts.

MTech and DIIT Programmes: The MTech programme at IITGN focuses on strong interdisciplinary coursework aimed at developing skills of analysis, synthesis, problem solving, and quality research projects. It also emphasises diversity through mandatory course work in the humanities and social sciences. Our post-graduate diploma (DIIT) is designed as a stand-alone programme that can be pursued either full-time (one year) or part-time, and may also be used as a stepping-stone to the MTech programmes.

The Institute has developed a unique five-week Foundation Programme aimed at orienting incoming undergraduate students towards a holistic education that develops a broad set of life skills.

One Touch Doctor system for noninvasive measurement of various physiological parameters.



INNOVATIONS IN STUDENT **GROWTH**

In 2017, 98 Explorer Fellows travelled across India to explore its incredible cultural diversity.

Explorer Fellowship: This unique annual summer programme encourages students to discover and appreciate the staggering cultural diversity of India by undertaking a six-week journey across the country on a shoestring budget. Organised in small teams, Explorer Fellows must visit at least six states - with at least one in the North, South and North- East - traveling frugally in non-AC trains or by state government buses, and staying at low-cost accommodations.

Earn While You Learn Programme: Channels student talents, time and energies in support of Institutional activities. Under this programme, students work in the library, computer centre, external relations, grading assignments, etc., for reasonable financial compensation. The program has helped students develop an appreciation for dignity of labour and enhanced their self-esteem with the partial financial independence it makes possible.

Summer Internships for UG Students: The Institute believes in augmenting education and learning through various non-formal and non-curricular opportunities. Many undergraduates undertake summer internships with eminent academics in India and abroad. From the graduating batch of 2017, 40% students had research opportunities in top-ranking institutes such as Duke University; Washington University in St. Louis; California Institute of Technology; University of Washington, Seattle; and Japan Advanced Institute of Science and Technology, etc.

Aditi Sharma, a BTech student working in chemistry lab.



International Conference Travel for Students: Recognising the value of participating and presenting their research work at international conferences, the Institute has a very liberal travel support policy to encourage student involvement in such events. Numerous undergraduate and postgraduate students every year attend scientific conferences overseas to present their work.

Recognition of Student Passions: The Institute has set up merit scholarships for excellence in areas beyond academics, such as sports, cultural pursuits, social work, leadership initiatives, etc., to incentivise well-rounded education and all round development of leadership potential. Graduating student awards recognise a wide array of accomplishments, including leadership, human qualities, excellence in academics, sports, culture, etc.

IITGN Incubation and Entrepreneurship Centre (IIEC): is a section 8 (not for profit) company that has been set up to implement entrepreneurship and innovation development programs at the Institute. Our incubatees are provided round the clock access to design software, a workshop with fabrication facilities and sophisticated laboratories. Some of our recent incubations include GeoCarte Radar Technology that provides underground infrastructure mapping without digging; and Whitepanda Media Pvt Ltd., which is a content marketing platform that enables brands to access quality content creators.

Vibrant Student Body: Students are at the heart of an educational campus, and a vibrant student body is the key to the success of any university. At IITGN, students are encouraged to fearlessly pursue their dreams and have opinions while always remaining committed to uncompromising values. Students are part of all decisions pertaining to student affairs aided by the participatory structures of student governance.

Our students have responded with extraordinary enthusiasm and maturity to the autonomy they enjoy, thus energizing every element of campus life. Whether it is in organizing the annual technology conclave, Amalthea [amalthea.iitgn.ac.in], the student cultural festival of Blithcron [blithchron.iitgn.ac.in], or the intra-college sports festival, Halla Bol [students.iitgn.ac.in/hallabol], students have demonstrated exceptional leadership qualities and innovation.

The Institute believes in augmenting education and learning through various non-formal and non-curricular opportunities.

Krittika Ralhan, a PhD scholar in Biological Engineering has been selected for the Fulbright-Nehru Fellowship in neuroscience.



A pioneering partnership with the Indian Army has led to the establishment of their R&D Cell at IITGN. This cell is to leverage our research capabilities to engage with the army's challenges.

*Lt Gen Subrata Saha UYSM, YSM, VSM** Deputy Chief of Army Staff interacting with faculty & students in July 2016.*



INNOVATIONS IN EXTERNAL LINKAGES

IITGN is actively nurturing a diverse academic environment — one that is both globally connected and socially sensitive. The Institute is continually developing strategic and international partnerships with numerous universities, industries and R&D organizations.

- A partnership with the Physical Research Laboratory, Ahmedabad (PRL) enables the seamless sharing of academic resources between the two Institutes. Currently, 68 students are carrying out PhD under this MoU.
- A pioneering partnership with the Indian Army has led to the establishment of their R&D Cell at IITGN. The cell is to leverage our research capabilities to engage with the army's challenges.
- A partnership with Underwriters Laboratories has enabled us to develop a full-scale three-storied fire testing facility in the campus, the only one of its kind in India.
- Strong relationships have been developed with a number of world-renowned universities that enable vibrant student exchange programmes. These include: CalTech, Duke, The New School, Saskatchewan, ISCTE, Lisbon and JAIST.
- Partnership with Japan Institute of Science and Technology (JAIST) has made possible a Double Master's degree programme.
- The partnership with the University of Saskatchewan (USASK), Canada, has led to the organization of collaborative Summer Institutes hosted at IITGN for young researchers from across the country and conducted by faculty of USASK and IITGN.
- An agreement with ISCTE-University Institute of Lisbon, Portugal has resulted in collaborations between the Masters Degrees in the Cognitive Sciences (IITGN) and Complexity Sciences (ISCTE-IUL).

Non-Degree Full-Time and Part-Time Programmes: Students from other Institutions in the country are able to study at IITGN for a semester or two as full-time non-degree students. To provide opportunities to working professionals, IITGN has created options for part-time non-degree studies, wherein anyone can register for courses at IITGN and receive grades for course performance.

India-ki-Khoj: Initiated in 2011, India-ki-Khoj is a ten-day cultural immersion programme designed for undergraduate students from overseas to discover India and understand its history, culture and society. Through a combination of diverse lectures, cultural events and field visits, the programme helps students relate India's ancient traditions with its contemporary democratic context. Thus far, select students from Caltech, Japan Institute of Technology, and IITGN have participated in this programme.

Summer Research Internship Program (SRIP): The program offers an opportunity to students from across the country to carry out research in on-going projects under the mentorship of IITGN faculty. Students are selected through a competitive application process and these internships have produced tangible research outcomes such as academic publications that include journal articles.

A strong relationship with Caltech enables a vibrant student exchange programme. A partnership with Underwriters Laboratories is aiding IITGN's Fire and Safety Engineering programmes.

India-ki-Khoj 2016.





Nyasa: IITGN's community outreach programme.

Our goal is that children of every member of the IITGN community should have access to decent education to realize their full potential.

NEEV: IITGN's community outreach programme.



COMMUNITY ENGAGEMENT

Community Outreach Policy of the Institute: Consistent with its mission to produce graduates that are sensitive to their community and to societal needs, the Institute believes it must not just preach, but actively pursue community outreach. The Institute has established a formal Board-approved Community Outreach Policy and several programmes are already in place, supported financially through a combination of a) contributions by IITGN students, staff and faculty, b) contributions by the Institute, and c) contributions by well wishers and donors of the Institute.

Nurture & Empower Entrepreneurial Ventures (NEEV): NEEV is our community outreach program established in 2014 that aims to promote entrepreneurship and livelihood generation to harness the tremendous potential in the local community for small-scale entrepreneurship, self-employment and other livelihood generating activities. For instance, NEEV conducts a one-day awareness programmes, one-week entrepreneurship workshops, and nine-week vocational skills training.

Nyasa Initiative: Started in 2011, Nyasa aims to support and educate the children of migrant construction workers in and around the campus. Children are engaged in educational and recreational activities in an open-air school and provided with healthy mid-day meals within our campus.

Contract Workers Benevolent Fund: The Institute has created a fund within its Endowment to cover unforeseen medical emergencies of our contract workers.

Children's Education Fund: The Institute has set up a fund within its Endowment to provide financial assistance for educational expenses of its contract workers. A scholarship of Rs 10,000 per child is provided to all workers with school going children. Our goal is that children of every member of the IITGN community should have access to decent education to realize their full potential.



INNOVATIONS IN FACULTY INCENTIVES

Liberal Financial Terms: Through donor funds, outstanding faculty candidates are provided additional top-up monthly honorarium (over and above the regular salary) in the form of Chair (senior academics) and Research Fellowships (for younger academics). Incoming career faculty are offered liberal relocation expenses and an interest-free soft advances for their initial setup. As a result, IITGN currently offers among the most attractive financial packages to new faculty candidates.

Research Initiation Grants: The Institute makes available generous financial support for initiating research activities to new faculty through “seed funding” that is flexible and commensurate to the requirements of the proposed project. The faculty is expected to submit a formal research proposal and reasonable funds are provided for initiating research projects.

Faculty Excellence Awards: Faculty contributions at exceptionally high levels are acknowledged with generous recognition and awards. The Institute has established attractive annual cash awards for excellence in teaching, research, institution building and leadership, and outreach.

International Experience for Faculty: The Institute has implemented extremely liberal norms for granting one-year leave to a new faculty (for example, those who have not had prior international experience) for international post-doctoral research opportunities.

Generous Travel Grants: We recognize the importance of faculty participation in national and international conferences and academic collaborations to maintain the highest standards of research. IITGN makes available travel support based on merit criteria to its faculty for up to Rs 3 lakh per year from its Excellence Fund.

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Dr Ambika Aiyadurai is an anthropologist who researches wildlife conservation and nature-human relations.



INNOVATIONS IN FACULTY RECRUITMENT

We recognize the value of diversity in our faculty and have created mechanisms to tap talent in whatever form it may be available.

Dr Atul Bhargav teaches mechanical engineering and conducts research in the area of energy systems, particularly hydrocarbon based fuel cell systems.



Proactive Engagement of Potential Faculty Candidates: IITGN actively seeks to identify and recruit qualified and motivated potential faculty candidates. Graduate students and post-doctoral researchers at leading universities around the world are continuously engaged through our quarterly newsletter and other communications. The Director and other functionaries of the Institute routinely visit top universities to address potential faculty candidates and communicate the academic goal and mission of IITGN.

Opportunistic Recruitment: To develop a strong seed faculty and to create a vibrant academic environment, the Institute sometimes recruits faculty solely on merit, unmindful of their discipline or specialization. The Institute will attempt to balance its long-term needs for disciplines and specializations as it progresses. The experiment has been extremely successful and has brought enormous diversity to the Institute's programs.

Recruitment Mode: The Institute targets exceptional faculty through innovative and flexible governance models. Outstanding candidates are quickly offered a 2-year appointment through a Standing Committee, instead of a formal Selection Committee, which cannot meet as frequently. In addition, those recruited through the Selection Committee are afforded a lengthier window of opportunity to demonstrate their caliber, capabilities and achievements, through a two-year probationary tenure as opposed to the one-year probationary norm in the IIT system.

Expectations from Faculty: The Institute has developed a formal document outlining the expectations the Institute has of its faculty after extensive deliberations. This document is provided with the appointment letter, and clearly articulates the high expectations that IITGN faculty must meet.

Diverse Faculty Profiles: The Institute recognizes the value of diversity in its faculty and has created mechanisms to tap and utilize talent in whatever form it may be available. For instance, the Institute engages several eminent academics as Guest Professors, who contribute to the Institute with short-term engagements. It also recruits faculty without a PhD as Teaching Professors or Research Professors when appropriate. The Institute has also successfully hired several senior academics superannuated from the IIT system and elsewhere to help with academic administration and mentoring of younger faculty.

International Faculty: IITGN has a proactive agenda to bring international visiting faculty from across the world. Academics from leading institutions in North America and Europe have spent substantial periods of time at IITGN under our unique Scholar-in-Residence program, which hosts academics and intellectuals on the campus for flexible durations ranging from a month to a semester or an academic year.

Academics from leading Institutions in North America and Europe have spent substantial periods of time at IITGN.

*Dr. Angus McBlane from Canada,
Dr. K Chelvakumar from Sri Lanka,
Ms. Marjorie Greene from USA,
Dr. Svetlana Brzev from Serbia and
Dr. Pedro Pombo from Portugal.*



INNOVATIONS IN STUDENT RECRUITMENT

IITGN has the most liberal branch change policy of any IIT in the first year.

Liberal Branch Change Rules: IITGN has the most liberal branch change rules of any IIT. In the first year, students are exposed to the challenges and opportunities in every engineering discipline, to empower them to make informed choices.

Top-Up Fellowship for Meritorious PhD Scholars: The Institute offers an additional top-up fellowship of Rs 5,000 per month and Rs 10,000 per month from our Excellence Funds to meritorious PhD scholars, based on well-defined criteria. This scholarship is in addition to the regular scholarship, enabling students to pursue their PhD studies without financial apprehensions.

Start-Early PhD Fellowships: To attract high quality PhD students, IITGN offers direct, early admission to top BTech rankers in the 50 leading engineering institutions in the country (30 NITs and 20 other reputed undergraduate colleges in India) and to BTechs from the IITs. These students are also eligible to receive additional top-up scholarships.

Early Admit MTech Programme: This programme has been developed to attract top talent to our MTech programme. Top rank BTech students from select colleges in India and final year BTech students from IITs are eligible to be considered for admission to this programme.

A student working in Electroencephalography lab of the Centre for Cognitive Science.



INNOVATIONS IN STAFF DEVELOPMENT

The Staff Development Cell: The Staff Development Cell facilitates personal and professional growth of the non-teaching staff by conducting activities intended to upgrade and update the knowledge, skills and understanding of the Institute's human resource.

Staff Development Programme: In appreciation of the crucial role of supporting staff in pursuit of excellence, staff members are encouraged to continuously improve their knowledge and skills. The Institute expects every member of the staff to spend at least 10 days in a year in trainings and workshops at the Institute's expense.

Excellence Awards for Staff: To encourage excellence among support staff, attractive annual financial awards have been instituted to recognize and reward excellence in performance.

INNOVATIONS PERCOLATES

Student Outcomes: Nowhere is the culture of excellence at IITGN better exemplified than the performance and achievements of our students. Driven by a desire to learn, ask critical questions and contribute to the creation of knowledge, they have excelled in various spheres.

- A large proportion of our under-graduates have gone on to pursue higher education in some of the world's top universities such as CalTech, MIT, Princeton, Texas Austin, and Stanford.
- Many of our students have found placements in top companies in the industry such as ITC Ltd., Braclays, Goldman Sachs, Larsen and Toubro Ltd., and Tata Consultancy.
- Substantial numbers have chosen the path of entrepreneurship by incubating innovative ideas for the ends of commercial success and social imperatives.
- An impressive number of our students have won competitive research grants and fellowships, such as the Welcome Trust DBT India Alliance, Fulbright-Nehru Scholarship, and the Shastri-Indo Canadian research grant.

Alumni Engagement: More than 50% of our entire alumni body has made a donation at least once. About 20% of our BTech alumni are now making regular monthly donations. This unprecedented alumni engagement has enabled us to award scholarships that are entirely funded by the alumni. This is not only an exceptional feat with tremendous future potential, it is also a powerful reflection of their positive experience at IITGN that drives such spirited support for their alma matter.

Campus Construction: A world-class university must have the physical space that is conducive to the life of the mind, where ideas can flow, knowledge is shared and people collaborate. Situated along the Sabarmati River, with almost 2.5 km of riverfront, the award-winning IITGN campus has been developed with much thought to be unique and inspirational in character where ideas and spirit of inquiry flow freely.

Land was procured in July 2012, construction contracts were awarded in July 2013 and classes in the new campus began in July 2015. Built in record time, the campus is already being recognized for its path-breaking initiatives in sustainable development. It has won multiple HUDCO design awards, the most recent being a first prize in 2016 in the Green Buildings category for its academic complex. Ours is the first campus in the country to receive a five-star rating in the GRIHA (India's national green buildings rating system) Large Developments category for its masterplan design.



Bliethchron, student cultural festival.

Unprecedented alumni engagement has enabled us to award several scholarships to our students that are entirely funded by our alumni.

RESEARCH AT IITGN

Creative thinking is often sparked with a judicious disregard for conventional boundaries. Researchers at IITGN are organized around deliberately porous academic disciplines rather than traditional departments tied down by impenetrable silos.

3 Storey Full-Scale Fire Testing Facility, the first such facility in India.



All routes to academic excellence must successfully pass through the gateway of research. At IITGN, the promotion of cutting-edge research is central to our agenda. The social engagement we weave into our agenda at all levels, defines our creed of excellence. This requires the right eco-system that combines state-of-the-art physical infrastructure with the intangible ethos of a rigorous intellectual culture. We have already set up the building blocks crucial in fostering research excellence, which include: Interdisciplinary Research Centres, a Research Park, a commitment to interdisciplinarity, an unorthodox approach to the organization of academic disciplines and an obligation to societal concerns.

Interdisciplinary Research Centres: Interdisciplinarity and the conversations across traditional disciplines that it makes possible, is both an article of faith and an intellectual imperative. An interdisciplinary approach pushes the frontiers of knowledge production and innovation like none other, and forms the bedrock of all aspects of the academic culture at IITGN, including teaching and research, and is the motivating spirit behind the setting up of six uniquely interdisciplinary research centres.

- 1. Archaeological Sciences Centre** is meant to research archeology from an interdisciplinary perspective and conduct scientific investigations of archaeological sites and materials — through, for instance, material, chemical and petrological studies, professional surveying techniques, remote sensing, ground penetrating radar, 3D laser scanning, etc.
- 2. Biomedical Engineering Centre** aims to develop low cost and affordable technologies that are of social relevance for rural India and beyond. The centre's research has focused on areas such as diagnostic tools to identify Alzheimer's disease, robot assisted techniques enabling neuromuscular rehabilitation and modeling the spread of vector borne diseases in urban settings.
- 3. Design and Innovation Centre** is dedicated to develop innovations that have a strong impact both locally and globally. The projects range from social innovations, ecological design to frugal engineering.
- 4. Safety Engineering Centre** works with an aim to promote safety in public and private spheres, industry and the informal sector. A full-scale fire testing facility has been developed with support from Underwriters Laboratories.

5. **Centre for Cognitive Science** aims to understand complexities of mind and cognition. The main themes of studies include consciousness, action-perception interaction, attention, motor control, affective computing, neuroscience and decision-making. In 2013, IITGN became the first IIT to start a two-year MSc programme in Cognitive Science.

6. **Centre for Sustainable Development** aims to promote economically viable solutions to intractable food, water, environment and energy security problems confronted by developing societies through education, research, outreach and advocacy.

Research Park: Envisioned as a highly productive arena that is the touchstone of innovative thinking, the Research Park at IITGN is much more than a physical space. Established as a section 8 not-for-profit company in 2017, the Research Park is where dialogues rage, ideas are tested, and critical knowledge is generated. It seeks to foster a powerful interplay between industry and academia, and thereby push the boundaries of innovation and research. The Research Park will facilitate research projects between industry and the Institute and also enable the industrial partners to access the laboratories, high-end equipment and other resources at IITGN. It will also provide technical advice on collaborative R&D, market research, intellectual property management and licensing. Through engagement with the Research Park, industry professionals will also get opportunities to be part of the academic programmes at the Institute such as guiding joint PhD and master's students, supervising interns, and delivering lectures.

The Research Park has taken off well, with several organisations setting up their R&D Units: Indian Army, GUVNL, BBC, and FinalMile.

Archaeological Sciences Centre.



The Board of Governors of IITGN and the administration are committed to developing a flexible governance structure that empowers the faculty and students to a degree that is unprecedented in Indian academia.

PURSuing GLOBAL LEADERSHIP IN EDUCATION

A world-class university requires a concentration of talent, adequate resources, and favorable governance. The Board of Governors of IITGN and the administration are committed to developing a flexible governance structure that empowers the faculty and students to a degree that is unprecedented in Indian academia. The Institute supplements the Government of India grants with substantial philanthropic contributions to recruit and support outstanding faculty and students. Among the programmes that utilize donations for attracting, retaining and empowering the most outstanding faculty, students and staff, are:

Faculty Chairs: Faculty chairs recognise and reward excellence, and help retain outstanding faculty. Besides an honorarium associated with the Chair, the title lends prestige to the incumbent. It also honours donors by associating their name with the academic achievements of a distinguished academic. An endowment of Rs 120 lakhs (US\$200,000) makes possible one chair. The Institute may also create “limited time” faculty chairs of 3 years or 6 years. The endowment provides a sum of Rs 50,000 per month to the recipient.

Research Fellowship for Outstanding New/Young Faculty: With a view to attracting the best faculty, our Research Fellowships recognize and reward outstanding new faculty members based on their demonstrated academic credentials. Recipients get a monthly honorarium in addition to their regular salary. An endowment of Rs 60 lakhs (US\$100,000) enables the creation of one such fellowship. Limited-time fellowships may also be established for a 3-year and for a 6-year fellowship. The endowment provides a sum of Rs 25,000 per month to the recipient.



Nobel Laureates, Prof Harold Varmus & Prof Randy W Schekman, speaking at the Institute on Jan 11, 2016.

Travel Support to Faculty and Students: Faculty members who participate in international conferences are provided partial travel support through Government grants. The Institute provides additional support of upto Rs 3 lakh per year based on excellence in research (publications, sponsored projects), outreach and institution building. Similarly, students may receive substantial travel support to present their work at international conferences.

Outstanding PhD Scholars Fund: To attract the best doctoral students to IITGN, PhD students of outstanding merit are provided an additional fellowship of Rs 10,000/ Rs 5000 per month in addition to the amount prescribed by the Government.

Overseas Research Experience for PhD Students and Young Faculty: The Institute encourages PhD scholars to spend a semester at a top research laboratory or Institute in India or overseas. The support of about Rs 8 lakhs (US\$12,500) is required per student for overseas placement. Similarly, deserving young faculty members may be provided opportunities to spend a year at an overseas institute.

Scholarships for Undergraduate Students: The Institute depends on donor funds to offer merit-cum-means scholarships to deserving undergraduate students. An endowment of Rs 10 lakhs (US\$15,000) supports one such scholarship of Rs 50,000 per year.

We must ensure that no student is denied an opportunity to excel for lack of resources.

Signed an MoU with the Portuguese Foundation for Science and Technology for academic and research cooperation with the Portuguese universities in the presence of two Prime Ministers.



PARTNERS AND SUPPORTERS

The Institute seeks strategic inputs from eminent persons through the Academic Advisory Council and the Leadership Conclave that meet every year.

Advisory Councils: The Institute has created mechanisms to engage some of the most outstanding individuals from academia, industry, and other sectors. The **Academic Advisory Council**, which is global in character and includes eminent academics from around the world, meets once a year to help bring best practices in academic governance. An annual **Leadership Conclave** advises the Institute on the general direction of the Institute and in developing its strategic plans.

Public-Private Partnership: Since its inception, IITGN has worked towards a model in which public funds are utilized for routine capital and operating expenditures, while private funds are applied to nurturing and supporting excellence (wherever it is not possible through public funds). The Institute has raised major private donations in addition to commitments for significantly larger donations in the future. These funds are utilized to provide unprecedented financial support and incentives to outstanding faculty and students. Very early in the Institute's existence, well wishers of the Institute set up a tax-exempt Foundation in the United States to support the Institute in its endeavours to seek private funds abroad.

Group photo of the Leadership Conclave 2016.



BENEFACTOR ADVISORY COMMITTEE

The **Benefactor Advisory Committee** actively engages our significant benefactors with the Institute and its members share their success stories with our students. We invite you to be a member of this Committee by making a one-time contribution of Rs 20 lakhs (US\$30,000) or more. Membership to this committee include such benefits as, naming of the activities initiated through your contributions, active participation in those activities, and announcement of your membership in our Annual Report. Current members of our Benefactor Advisory Committee are:



Professor A V Anilkumar is an aerospace engineer on the faculty at Vanderbilt University. He was a NASA investigator of microgravity fluid flow phenomenon and his current interests include novel energy conversion systems for airplane flight.



Dr Arvind Jain is an internationally recognized authority in the aluminum industry. He founded AXJ Resources LLC, a metals and mining consulting company and has been at the forefront of the IIT alumni movement in the USA for the past 30 years.



Mr Gordhanbhai B Gelot runs a Small Scale Industrial (SSI) unit for ready-to-use clinical microbial analytical tools in South Gujarat and has also worked with American and French Pharma Multinational Corporations.



Mr Atul Jain is Chairman & CEO of TEOCO ('The Employee Owned Company') Corporation. TEOCO is a leading global organization providing cost, routing, revenue and network management solutions to top communications service providers worldwide.



Dr Prabhakar Goel has held positions in engineering and technical management with IBM and Wang Laboratories. Dr Goel is a private venture capitalist involved with several companies and is a founding member of The Indus Entrepreneur (TiE).



Mr Maulik Jasubhai is the Chairman & Chief Executive of the Jasubhai Group, which includes Jasubhai Engineering, Jasubhai Media, CHEMTECH Foundation & Jasubhai Foundation. He is passionate about the Student Outreach Program, which aims at Developing Future Leaders for the industry.



Ms Asha Jadeja is wife of late Prof Rajeev Motwani and head of the Rajeev Motwani Foundation. Motwani was professor of Computer Science at Stanford University where he did pioneering research in computer science. Ms Jadeja mentors many successful start-ups in the Bay area.



Ms Anjali Joshi is Vice President of Product Management at Google, where she is working on defining new initiatives in the health space. Prior to Google, she has held senior position at Covad Communications, the first DSL Competitive Carrier in the US, and at AT&T Bell Labs.



Mr Raj Mashruwala is an active angel investor through Mashruwala Investments and is mentor/advisor to several early start-up ventures. Among the technology companies he has co-founded are TIBCO Software, YieldUp International, Media Computer Technology, etc. He is a founder of the IIT Gandhinagar Foundation in USA.



Mr Bhupen Shah has over 25 years of experience in technology development, product development, and engineering management in embedded digital media and communication solutions at Sling Media, Emuzed, Dazzle, RealChip, Philips Semiconductors, IBM, etc.



Mr Avi Nash is a former partner of Goldman Sachs, where he headed the Global Chemical Industry Group. He is a director of Sigma-Aldrich Corporation and serves as a trustee of several educational and charitable organizations.



Mr Bipin Shah is CEO and Chairman of Kovair Software in Milpitas, California. He is active in several nonprofit organizations, including The Indus Entrepreneurs (TiE) and Ahimsa Center at California Polytechnic University in Pomona. Shah is a founder of the IIT Gandhinagar Foundation in USA.



Mr Nandan Nilekani is the former Chairman of the Unique Identification Authority of India (UIDAI). Mr Nilekani is currently the chairman of the board of directors of Infosys Technologies Limited, which he co-founded in 1981. He was awarded one of India's highest civilian honours, the Padma Bhushan, in 2006.



Mr Raj Shah reenergized Microsoft's online mapping services, which were later acquired by Uber in June 2015. At Google, he spearheaded creation of Maps by establishing a global infrastructure that encompasses all countries mapped by Google from the ground up.



Mr Bhikhubhai Patel is founder and Vice Chairman of Tarsadia Hotels, a leading hotel investment, development, and management company. After running a successful clothing manufacturing business in Zambia for 12 years, he moved to USA and started his hospitality business in 1976.



Mr Ukabhai Solanki is president and CEO of Big Saver Foods, Inc., and a member of the Board of Directors of First Choice Bank. He is founding president of the Indian Council for the Advancement of Education in India and he endowed the Yadunandan Center for India Studies at California State University in Long Beach.



Dr Kiran C Patel, a Tampa, Florida based cardiologist is founding Chairman of the Drs Kiran and Pallavi Patel Foundation for Global Understanding, a non-profit organization that develops and funds a wide variety of programs in health, education, arts and culture.



Mr Deepak Sultania is the Director of Durga Bearings group, the largest distributor of bearings in India. He has transformed his company from a small trading company to a strong market leader.

PARTNER WITH IIT GANDHINAGAR

IIT Gandhinagar is in pursuit of partners who would like to be a part of our dream and vision of achieving excellence. The journey is both challenging and exciting. We invite you to join us in this initial historic phase in the life of the Institute and contribute toward developing a world-class university. As we take our first steps into the future, we need and seek your support, your investment, and your guidance. You may contribute to the mission of IIT Gandhinagar in several ways.

Academic Contribution: You can make academic contributions to the Institute by mentoring our students, through faculty interaction, and by initiating academic collaborations, such as student exchange programs, faculty exchanges, and collaborative research projects. You can also help by encouraging outstanding faculty candidates you know, to consider a career with IITGN.

Financial Contribution to Foster Excellence: To pursue excellence and to be a leader in education and research, we need to supplement Government grants with private funding. Every contribution, small or large, aids in our endeavour to pursue excellence. You may also endow faculty chairs and student scholarships, which can be named after people you hold dear. This not only contributes much needed resources to IIT Gandhinagar, but also helps us connect with our well-wishers in a meaningful and touching way.

Contributors are acknowledged with a letter of thanks, subscription to our quarterly newsletter *Connections*, invitations to major public events and convocation, announcement of your donation in our Annual Report, and most importantly, the satisfaction of supporting the truly noble cause of education with your philanthropic gesture.

**Every
contribution,
small or large,
aids our
endeavour
to pursue
excellence.**

*Anirban Roy and Piue Ghosh, a
PhD scholars working in Photonic
Sensors Lab.*





Jasubhai Memorial Auditorium

JASUBHAI ENDOWMENT FUND

In memory of Shri Jasubhai Shah a visionary, entrepreneur, philanthropist, patron of the arts and sciences, an endowment has been established at IITGN by his son Shri Maulik Jasubhai through the Jasubhai Foundation. Keeping in line with the vision of Shri Jasubhai Shah, this endowment will help promote excellence in education and research, and also support “Jasubhai Memorial Chair”. In appreciation of the gift, the Institute has named its 520-seat auditorium as the “Jasubhai Memorial Auditorium”.

A modern approach to the traditional, is the way to describe the approach to auditorium furniture. Designed to last decades, it is warm, simple, elegant and is naturally left-hander friendly (due to symmetry). Each piece is crafted using CNC machines and laser cutting machines using state-of-the-art facilities, adding a modern, technological touch to the furniture.



Late Shri Jasubhai Shah

BAKSHIRAMBHAI S GELOT CHAIR

Shri Gordhanbhai B Gelot has set up a faculty chair in honour of his late father Shri Bakshirambhai S Gelot. Based in Mumbai, Shri Gordhanbhai runs a small scale industry in Umargam (south Gujarat). His father was a self-made successful farmer but deprived of receiving any formal education. He recognized the importance of education and gave the best possible education to his children. The chair is meant to recognize and reward academic excellence.



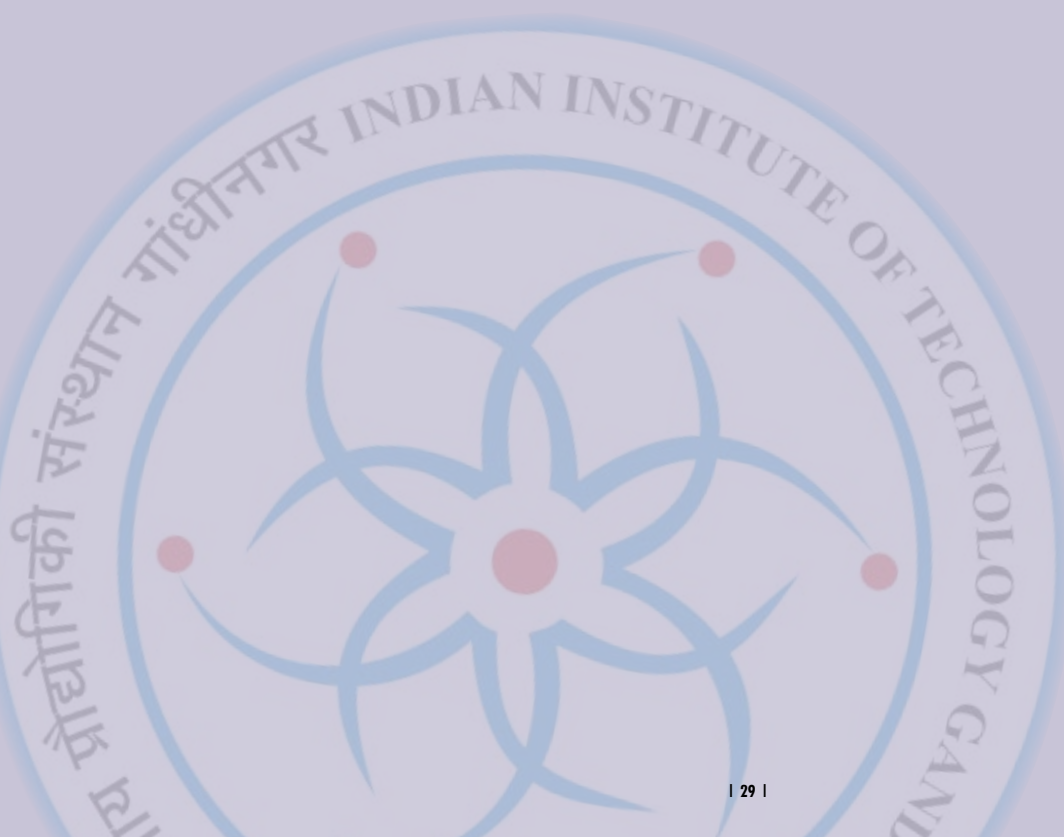
Late Shri B S Gelot



Shri Gordhanbhai B Gelot

PROGRAMMES WITH NAMING OPPORTUNITIES

<p>Naming of academic entities and infrastructure</p>	<p>The Institute has an active program to name select academic entities (such as research centres and laboratories) and infrastructure (such as buildings, hostels, and classrooms) to honour major donors. For more details, please write to director@iitgn.ac.in</p>		
<p>Faculty Chairs</p>	<p>Endowment Fund for Chair</p>	<p>☐ Rs 120 Lakh</p>	<p>☐ US\$200,000</p>
	<p>Limited Time Chair for 6 years</p>	<p>☐ Rs 30 Lakh</p>	<p>☐ US\$50,000</p>
	<p>Limited Time Chair for 3 years</p>	<p>☐ Rs 18 Lakh</p>	<p>☐ US\$30,000</p>
<p>Research Fellowships for Outstanding New/ Young Faculty</p>	<p>Endowment Fund for Fellowship</p>	<p>☐ Rs 60 Lakh</p>	<p>☐ US\$100,000</p>
	<p>Limited Time Fellowship for 6 years</p>	<p>☐ Rs 15 Lakh</p>	<p>☐ US\$25,000</p>
	<p>Limited Time Fellowship for 3 years</p>	<p>☐ Rs 9 Lakh</p>	<p>☐ US\$15,000</p>
<p>Overseas Research Experience for PhD Students and Young Faculty</p>	<p>Support for One Faculty (One Time)</p>	<p>☐ Rs 24 Lakh</p>	<p>☐ US\$40,000</p>
	<p>Support for One Student (One Time)</p>	<p>☐ Rs 8 Lakh</p>	<p>☐ US\$12,500</p>
<p>Scholarships for Undergraduate Students</p>	<p>For One Scholarship of Rs 50,000 per year</p>	<p>☐ Rs 10 Lakh</p>	<p>☐ US\$15,000</p>



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Director Dr. Sudhir K. Jain celebrates Holi with IITGN students.

**We are not afraid
to get our hands dirty
— even if it sometimes
muddies the face too!**

Ready to join our journey?





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