

As IITGN celebrates its 10th anniversary in 2018-2019, we look back at its greatest accomplishments during the first decade.

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GLOBALIZATION

IITGN is among the most globalized campuses in India with vibrant study abroad and visiting faculty exchange programs across all continents.

40% OF UG STUDENTS

receive study abroad opportunities in the form of semester overseas, research internships, summer programs, etc., which is three times the average at U.S. universities.

80% OF FACULTY

has overseas degree or postdoc experience.

15% OF FACULTY

are visiting faculty from India and abroad.

EXCHANGES ACROSS ALL CONTINENTS

California Institute of Technology, Duke University, The New School, Texas A&M and SUNY Buffalo in USA; University of Saskatchewan, Canada; Japan Advanced Institute of Science & Technology; ISCTE University Institute of Lisbon, Portugal, etc.



Visiting international students at an IITGN event.

CANADA

UNIVERSITY OF SASKATCHEWAN •• BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

SAINT MARY'S UNIVERSITY

UNIVERSITY OF ALBERTA UNIVERSITY OF BRITISH COLUMBIA UNIVERSITY OF VICTORIA UNIVERSITY OF OTTAWA

GERMANY

INNOVATIONS FOR HIGH PERFORMANCE MICROELECTRONICS - IHP GMBH FRIEDRICH-SCHILLER-UNIVERSITÄT JENA OTTO VON GUERICKE UNIVERSITÄT MAGD RWTH AACHEN UNIVERSITY TECHNISCHE UNIVERSITÄT MÜNCHEN

UK

UNIVERSITY OF MANCHESTER UNIVERSITY OF STRATHCLYDE • LOUGHBOROUGH UNIVERSITY UNIVERSITY COLLEGE OF LONDON UNIVERSITY OF NORTHAMPTON UNIVERSITY OF SOUTHAMPTON UNIVERSITY OF WARWICK

PORTUGAL

UNIVERSITY INSTITUTE OF LISBON ••

CHINA

CONFUCIUS INSTITUTE HEADQUARERS

TAPAN

IAPAN ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY •• RICOH COMPANY LTD • KYUSHU UNIVERSITY

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SOUTH KOREA

PAPUA NEW GUINEA

PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY



AMERICAN INST OF CHEMICAL ENGINEERS CALIFORNIA INSTITUTE OF TECHNOLOGY • • COLUMBIA UNIVERSITY NIELSEN

SUNY ALBANY

TEXAS A&M UNIVERSITY • THE NEW SCHOOL, NEW YORK • UNDERWRITERS LABORATORIES INC. •• US AGENCY FOR INTL DEVELOPMENT WHEELS GLOBAL FOUNDATION INC. ARIZONA STATE UNIVERSITY

BROWN UNIVERSITY CALIFORNIA POLYTECHNIC STATE UNIV
CLEMSON UNIVERSITY
COLORADO SCHOOL OF MINES **DUKE UNIVERSITY** •

IOHNS HOPKINS UNIVERSITY KETTERING UNIVERSITY MASSACHUSETTS INST OF TECHNOLOGY •

OHIO STATE UNIVERSITY
PENNSYLVANIA STATE UNIVERSITY
PURDUE UNIVERSITY
UNIVERSITY OF COLORADO **UNIVERSITY OF ILLINOIS** •

UNIVERSITY OF MICHIGAN UNIVERSITY OF NOTRE DAME

UNIVERSITY OF SOUTHERN CALIFORNIA •
UNIVERSITY OF WASHINGTON SEATTLE •
UNIVERSITY OF WISCONSIN MADISON •
VANDERBILT UNIVERSITY
WESLEYAN UNIVERSITY

YALE UNIVERSITY

CISCO CITRIX SYSTEMS INC. **COLORADO STATE UNIVERSITY EPIR TECHNOLOGIES** GEORGIA INSTITUTE OF TECHNOLOGY HARVARD MEDICAL SCHOOL HARVARD UNIVERSITY LEHIGH UNIVERSITY LOUISIANA STATE UNIVERSITY NEW YORK STATE DEPARTMENT OF HEALTH PACIFIC NORTHWEST NATIONAL LABORATORY SUNY BUFFALO SYRACUSE UNIVERSITY TEXAS TECH UNIVERSITY UNIVERSITY OF AKRON UNIVERSITY OF CALIFORNIA, MERCED UNIVERSITY OF COLORADO BOULDER UNIVERSITY OF HOUSTON UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN UNIVERSITY OF MARYLAND BALTIMORE

UNIVERSITY OF MASSACHUSETTS AMHERST

UNIVERSITY OF NEBRASKA-LINCOLN

UNIVERSITY OF NORTH TEXAS

UNIVERSITY OF RHODE ISLAND

UNIVERSITY OF SOUTH CAROLINA

WASHINGTON STATE UNIVERSITY

UNIVERSITY OF TEXAS SOUTHWESTERN

WASHINGTON UNIVERSITY IN ST. LOUIS

UNIVERSITY OF ROCHESTER

CASE WESTERN RESERVE UNIVERSITY

SWITZERLAND

EPFL - ÉCOLE POLYTECHN DE LAUSANNE •

FRANCE

INSTITUT SUPERIEUR D'ELECTRONIQUE DE PARIS CRPG CNRS NANCY INSTITUT NATIONAL DES TÉLÉCOMMUNICATIONS

ADERA - SOUTENIR LES ACTEURS DE L'INNOVATION ÉCOLE NATIONALE SUPÉRIEURE D'ARTS ET MÉTIERS UNIVERSITY OF LILLE UNIVERSITY OF MONTPELLIER

UPMC - UNIVERSITY PIERRE AND MARIE CURIE

ISRAEL

ISRAEL INST OF TECHNOLOGY •• BAR-ILAN UNIVERSITY TEL AVIV UNIVERSITY

UAE

GLOBAL MARKETING SYSTEM DMCC

SRI LANKA UNIVERSITY OF JAFFNA .

BRAZIL

FEDERAL UNIVERSITY OF PARAIBA

MALAWI UNIVERSITY OF MALAWI SINGAPORE NATIONAL UNIVERSITY OF SINGAPORE • A* STAR SINGAPORE NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE UNIVERSITY OF TECHNOLOGY DESIGN MALAYSIA

UNIVERSITY TEKNOLOGI PETRONAS

ITALY

SAPIENZA UNIVERSITY OF ROME **EUNICER - EURASIAN UNIVERSITY NETWORK-**FOR INTERNATIONAL COOPERATION ON NVIRONMENTAL RISKS ISTITUTO DI SCIENZA E TECNOLOGIE DELL'INFORMAZIONE • UNIVERSITÀ DEGLI STUDI DEL PIEMONTE ORIENTALE

AUSTRALIA

RMIT UNIVERSITY MELBOURNE • UNIVERSITY OF NEW SOUTH WALES

NEW ZEALAND

THE UNIVERSITY OF CANTERBURY

MEMORANDUM OF UNDERSTANDING

VISITING FACULTY

INTERNSHIPS/PHD SEMESTER/RESEARCH COLLABORATIONS

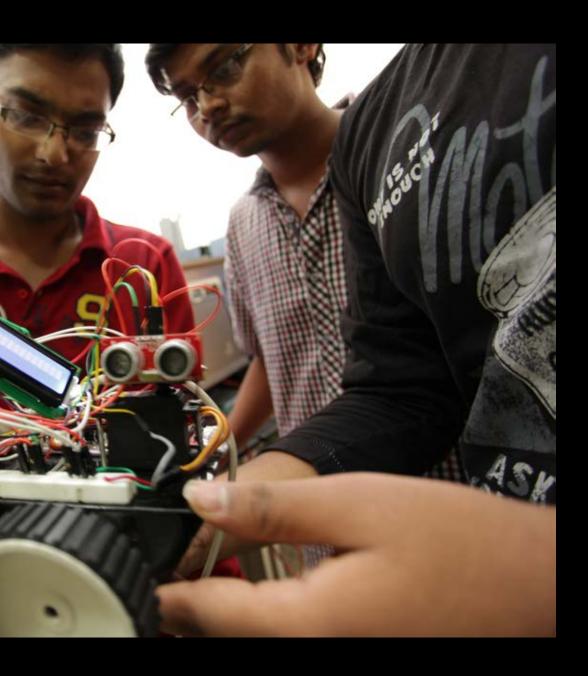
INTERNATIONAL COLLABORATIONS AT IIT GANDHINAGAR







Left: BTech student Aditi Sharma in the Chemistry Lab. Center: N R Narayana Murthy at inauguration of the 2011 Foundation Programme. Right: BTech students in the Electrical Engineering Lab.



CUTTING-EDGE CURRICULUM

FOUNDATION PROGRAMME

Transformative 5-week immersion program for incoming first-year students focused on creativity, leadership & communication, ethics, social awareness, and physical fitness. The program has been widely lauded and increasingly emulated.

PROJECT ORIENTED LEARNING

Emphasis on learning by doing; 20% coursework in the humanities; core requirements in the life sciences, design and innovation.

CHOICE AND FLEXIBILITY

Options of dual majors, minors, honors; program and course flexibility and range, short courses. Co-curricular opportunities, such as Tinkerer Lab, Makers Space, projects, Innovation and Entrepreneurship Centre, etc.

ADMISSIONS SELECTIVITY

Undergraduate selectivity at all IITs, governed by the JEE, is under 2%. PhD selectivity at IITGN is just 1%.

WORLD CLASS FACULTY

Novel initiatives, such as endowed faculty chairs, fellowships, attractive research support, international post doc faculty opportunities, etc. have attracted world class faculty to IITGN.

60% OF FACULTY

have PhD from leading overseas institutions, such as Cambridge, Harvard, MIT, Urbana, Uppsala, etc.

80% OF FACULTY

have graduate degree or post doc experience abroad.

3.2 PUBLICATIONS PER FACULTY

Average publications record in 2017. Rs 80 lakhs in sponsored projects per faculty.

NATIONAL RECOGNITION

6 Ramanujan Fellows, 2 Ramalingaswami Fellows, and 9 Inspire Fellows.

Prof Vineeth Vashista with researchers at the Human-Centered Robotics Lab.









Top: Prof. Vijay Thiruvenkatam with students working on macromolecular crystallography.

Bottom left: Prof Uttama Lahiri with students in the Intelligent Rehabilitation & Affective Computing Systems Lab.

Bottom Right: Ph.D students Shruti Goyal and Kishore Jagini in the Cognitive Science Lab.

DIVERSITY

90% OF GRADUATE STUDENTS

from out of state, representing 28 states/union terrritories and 5 countries. 85% of undergraduate students from out of state from 26 states and union territories.

34% OF STUDENTS FEMALE

34% of graduate students and 20% of faculty female.

15% OF FACULTY

visiting faculty from all over India and abroad. 95% of all faculty from out of state; average distance 1424 kms. 6% of regular and contractual faculty international.

INTERDISCIPLINARITY

10% OF FACULTY

with multi-discipline appointments.

14% OF PhD ADVISORS

from outside discipline.

13% OF PUBLICATIONS

with interdisciplinary authors. 21% of projects with Principal Investigator/Co-PI from multiple disciplines.

6 INTERDISCIPLINARY CENTRES

in Archaeological Sciences, Biomedical Engineering, Cognitive Science, Design & Innovation, Safety, Sustainable Development.

HARD-WIRED INFRASTRUCTURE

Interdisciplinarity hard-wired in academic infrastructure. No department buildings, no heads of departments; physical distribution of faculty offices in interdisciplinary clusters; research infrastructure commonly shared, not monopolized by departments.



 ${\it MTech student Sudeshna\ Dhar\ in\ the\ Materials\ Science\ \&\ Engineering\ Lab}.$





Top: Students at the Jal Mandap at IITGN.
Bottom: BTech students Sahil Jain and Rohan Gupta travelled the length
and breadth of India on the Explorer's Fellowship.

STUDENT EMPOWERMENT

IITGN empowers students to pursue their passion with the most liberal branch change policies, flexibility in the curriculum, leadership, self-governance and exciting extracurricular opportunities.

SELF-GOVERNANCE

Participatory student governance structures in all aspects of Institute affairs, including academic and student life and discipline.

EXPLORER FELLOWSHIP

Six week summer fellowship for students to discover India's cultural diversity by visiting minimum six states (atleast one each in North, South and Northeast), on a shoestring budget of Rs 900/day for travel, accommodation, food, and other living expenses.

EXTRA CURRICULAR GROWTH

Internships, conferences and study opportunities, nearly 40% overseas; Incubation and Entrepreneurship Centre for student startups; Earn While You Learn Program; Student-managed technology conclave Amalthea, etc.

SOCIAL ENGAGEMENT

SOCIAL CONTRACT

IITGN mission to be "an involved member of the community and a good neighbour"; explore ways to contribute to the local community ... through formal and informal initiatives, outreach activities and educational engagement."

WORKERS WELFARE

Humane housing, safety commitments and health insurance for workers mandated in construction contracts. Financial assistance for medical emergencies and educational support for children of contract workers. IITGN student-run educational program Nyasa for construction worker's children.

IIT COUNCIL COMMENDATION

"The exemplary practices of IIT Gandhinagar (labour welfare & community outreach) should be introduced in all IITs." — IIT Council

GRASSROOTS PROGRAM

NEEV program offers entrepreneurship and skills development at the grassroots.







Tinkerers' Lab, established with donor support, is open to students 24x7.

PHILANTHROPY

IITGN defied convention that fundraising is impractical for new institutions lacking an alumni base. It leveraged innovative programs to build fundraising scale that matches many older IITs.

RS 160 CRORE ENDOWMENT

Endowment funds deployed strategically to develop innovative programs, such as one of the largest study abroad program in the country, world class faculty recruitment and vibrant visiting faculty program.

RS 16 CRORE 2017 FUNDRAISING

from well wishers of the Institution.

23% OF ANNUAL BUDGET

from R&D and endowment income.

20% OF ALUMNI

contribute regularly. 50% contributed atleast once.

NIMBLE AND INNOVATIVE

IITGN lean administrative structure is designed to make it nimble enough to leverage exciting opportunities and promote innovations.

BUILT NEW CAMPUS IN THREE YEARS

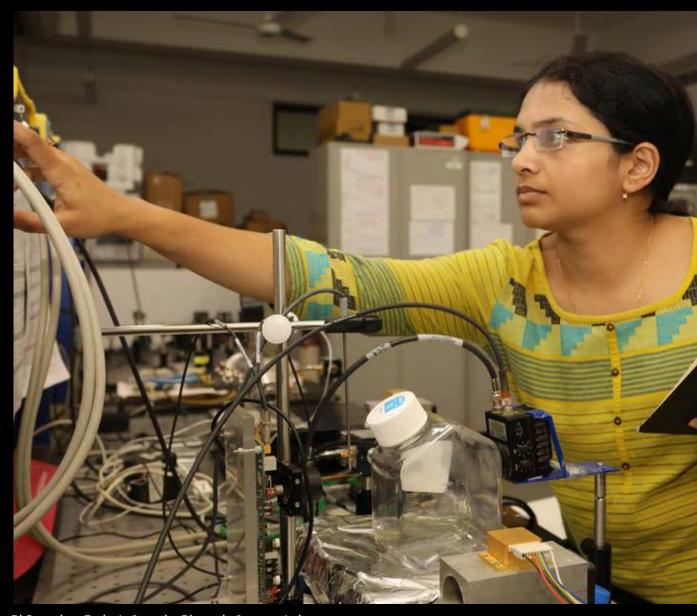
Built and moved to its new campus within three years of allocation of land.

ACTIVE RESEARCH PARK

with several premiere corporate clients, such as BBC, NASSCOM, WIN Foundation, E-Infochips, etc. Additional 200,000 sq ft of new space for the park is under construction.

ROOM FOR TALENT

Flexible structures enable institute to recruit world renowned visiting and guest faculty, industry associates, research scholars, and academic thought leaders to contribute to enhance the intellectual life of the Institute and offer consultancy services.



PhD student Zarin A. S. at the Photonic Sensors Lab.

AWARD-WINNING CAMPUS

5 STAR GRIHA LD RATED

India's first 5-star GRIHA LD rated campus for minimizing the impact on the environment.

3 HUDCO NATIONAL AWARDS

Best Practices for Improving Living Environment (2013); Design Award for Cost-effective Disaster Resistant Housing (2015); Design Award for Green Buildings (2016); Yes Bank Natural Capital Awards 2018 - Eco Campus.

CONFINED MASONRY FIRST

First large-scale Indian project in Confined Masonry.

GREEN CAMPUS

Zero-discharge campus; Jal Mandaps, rainwater harvesting (with storage capacity of 5 million litres). Comprehensive solid waste management system; 500-KW Solar PV, solar water heaters, biogas plant, waterless urinals, central water treatment plant; No backyards and no walls within campus; jaalis and natural ventilation.



IIT Gandhinagar

The Indian Institute of Technology Gandhinagar strives to offer the best undergraduate and graduate education in India with unmatched innovations in curriculum. It is committed to promoting excellence in science, technology, as well as the humanities and social sciences and to the development of rounded and nuanced minds.

IITGN was founded in 2008 and is located in Palaj, Gandhinagar, on the banks of Sabarmati River, in close proximity of an international airport and Ahmedabad, India's only UNESCO World Heritage city.



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