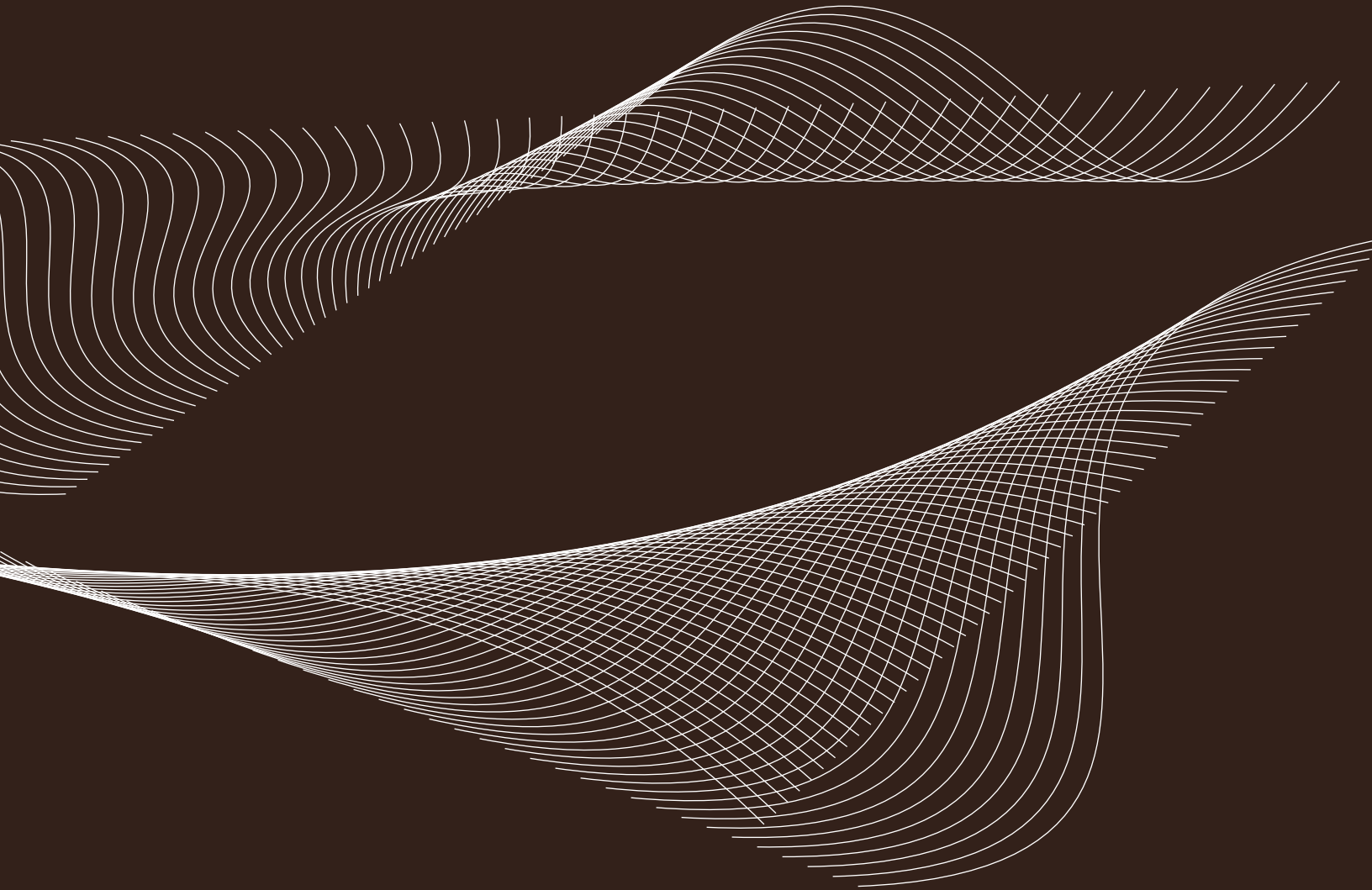




Annual Report IIT Gandhinagar



2009 2010





Annual Report IIT Gandhinagar

2⁰⁰⁹
010

CONTENTS

FROM THE DIRECTOR'S DESK	1
ACADEMICS	3
^ Programmes Offered	3
• Undergraduate	
• Doctoral	
^ New Initiatives	3
• Short Courses for Undergraduate Students	
• Continuing Education Programme	
• Institution of Private Scholarships	
• Liberal Branch Change Rules	
• M. Tech. Programmes	
^ Scholarships for Students	5
• Merit-cum-Means Scholarships	
• S. C. Mehrotra Scholarships	
^ International Collaborative Research for Undergraduate Students	6
^ Distinguished Honorary Professors	8
^ Distinguished Visitors	9
^ Conferences/ Short Courses/ Symposia/ Workshops Organized	11
^ Invited Lectures	15
FACULTY ACTIVITIES	19
^ Sponsored Projects	19
^ Awards and Recognition	19
^ Honorary Work by Faculty for Other Organizations	20
^ Participation of Faculty in National and International Conferences	21
^ Faculty Publications	24
• Book Chapters	

- Papers Published in Refereed Journals
- Papers Published in Conference Proceedings
- Papers Presented at Conferences

INFRASTRUCTURE AND FACILITIES 33

- ▲ Library Facilities 33
- ▲ Computer Facilities 34
- ▲ Medical Facilities 35
- ▲ Gymnasium 35
- ▲ Laboratory Facilities 36

STUDENT ACTIVITIES 42

- ▲ Inter-IIT Sports 42
- ▲ Music 43
- ▲ Robotics Workshop 43
- ▲ Orientation Programme 43
 - Personality Development Workshop
 - Workshop on Life at IIT: The Traps and the Tricks
 - Architectural Appreciation Workshop
 - Workshop on Film Appreciation
 - Theater Workshop
- ▲ Independence Day Celebrations 45
- ▲ Teachers' Day Celebrations 46
- ▲ Gandhi Jayanti Celebrations 46
- ▲ Freshers' Party 46
- ▲ Republic Day Celebrations 47
- ▲ Blood Donation Drive 47
- ▲ Blithchron '10 47

SUPPORT FOR IIT GANDHINAGAR	49
✦ IIT Gandhinagar Foundation	49
✦ S. C. Mehrotra Scholarships	50
✦ First Major Gift to IIT Gandhinagar	50
✦ The Board of Governors Emphasizes Excellence	50
✦ Reaching Out	51
ORGANIZATION	53
✦ Board of Governors	53
✦ Finance Committee	54
✦ Building and Works Committee	55
✦ Senate (as on March 31, 2010)	56
✦ Institute Committees	57
• Academic Programmes Committee (APGC)	
• Academic Performance Evaluation Committee (APEC)	
• Senate Student Affairs Committee (SSAC)	
• Undergraduate Curriculum Development Committee	
• Scholarships Committee	
• Library Committee	
✦ Academic Officials	60
✦ Administrative Officials	60
✦ Student Leadership	61
✦ Faculty at IITGN as on March 31, 2010	62
✦ Staff Against Regular Positions	64
✦ List of Ph.D. Scholars as on March 31, 2010	64
✦ The Batch of 2008 B. Tech. Students	65
✦ The Batch of 2009 B. Tech. Students	66

The early years in the life of an Institute tend to be rather eventful and lay the foundation for the academic character, value system and culture of the Institute for the decades ahead. The year 2009-10 (April to March) saw some very rapid changes at the Institute. The appointment of its first Director, and formation of its own Board of Governors (BOG) and the Academic Senate enabled the Institute to shift



the centre of decision-making from the mentoring institute IIT Bombay, to its own campus in Ahmedabad. The first meeting of the BOG was held on December 18, 2009 on campus. The Board emphasized its commitment to academic excellence at the Institute and approved a Faculty Development Plan that outlines measures the Institute will take to help faculty attain their full potential. The Board also formed the Finance Committee and the Building & Works Committee. The staff and faculty selections for the Institute were conducted at Ahmedabad during the year.

IITGN has been extremely fortunate to receive an extraordinary amount of support from all over, which has laid an outstanding foundation for the Institute to thrive in the years ahead. The tremendous leadership of our colleagues at IIT Bombay gave the Institute a very good start. The Government of Gujarat and the Adani Group enabled the Institute to start functioning from an excellent temporary location for academic and other activities. The Principal, Prof. M. R. Patel, and other colleagues of our host Vishwakarma Government Engineering College, Chandkheda, continue to show tremendous affection and support to us as guests in their campus.

The year saw a large number of academics from within India and across the world associate with us, visit us, deliver lectures at our Institute, mentor our faculty and students, and advise the Institute administration in a variety of ways. It is this support and participation that has enabled our undergraduate students to undertake several phenomenally successful projects, and IITGN to start several innovative activities.

IIT Gandhinagar has the potential to emerge as a top school in the world. To realize this potential we have resolved to recruit and retain the very best faculty and staff, and to do everything possible to enable them to give their best performance to the Institute. We will also continue to seek support and participation of all those interested in seeing India emerge stronger. The year saw three well-wishers of the Institute establish the IIT Gandhinagar Foundation, a charitable foundation in California, to channelize philanthropic contributions from US-based well-wishers. The Institute also received its first significant donations during the year, and could successfully start private scholarships for undergraduate students, and Excellence-in-Research Fellowships for young faculty through the private funds.

We started the quarterly newsletter Connections that is being widely distributed to disseminate the interesting developments in the Institute, and also to seek new friends and well-wishers. In addition, Connections serves as a vehicle for chronological recording of the developments at the Institute for posterity. A promotional film was made during the year to capture the spirit of the Institute. The film can be viewed on YouTube.

Even though less than two years old, IITGN can take pride in several innovations and developments. However, in terms of significance none of these comes even close to the tremendous enthusiasm that our students display towards academics, sports and cultural activities, towards leadership and social work, and above all towards life as such. We owe it to the current and the future students of our Institute to provide them with a most vibrant and stimulating environment for their all-round growth through academic and non-academic activities. We also owe to millions of our country men and women that their resources and trust are well endowed in this Institute.

Sudhir K. Jain
Director



Programmes Offered

Undergraduate

- ✦ Chemical Engineering
- ✦ Electrical Engineering
- ✦ Mechanical Engineering

Doctoral

- ✦ Chemistry
- ✦ Civil Engineering
- ✦ Electrical Engineering
- ✦ Humanities and Social Sciences
- ✦ Mathematics
- ✦ Mechanical Engineering
- ✦ Physics

New Initiatives

Short Courses for Undergraduate Students

The Institute has introduced a unique short module course programme for undergraduate students to expose them to different areas and topics that are not normally covered in the routine curriculum. A minimum of 8 lectures are delivered for such a course by either an Institute faculty or visitor. The students earn one credit for attending such a course, which is counted towards degree requirement.

The first such short course on “Strengthening of Democracy at the Grassroots in India” was conducted by Dr Sandeep Pandey, Social Activist and Magsaysay Award Winner, during January 2–3, 2010. Forty eight students attended the course.



Continuing Education Programme

The Institute has initiated a Continuing Education Programme for the working professionals from academia and industries to introduce them to new areas of technology. The first such course on Low-Cost High-Tech Automation was conducted by Prof. N. Ramakrishnan during September 14-16, 2009. A course on Nuclear Reactor Thermal Hydraulics and Safety was conducted by Prof. Manmohan Pandey during February 18-20, 2010.

Institution of Private Scholarships

In addition to the existing Government scholarships, the Institute has initiated a scheme for private scholarships to benefit the students. One such scholarship, the S. C. Mehrotra Scholarship, for three undergraduate students has already been started with financial support from Shri S. C. Mehrotra, New Delhi.

Liberal Branch Change Rules

With a view to accommodate maximum number of students enrolled in a discipline of their choice at the beginning of the second year of their studies, the Institute has pioneered significant modifications to the rules of branch change. As a result, all students who requested a branch change this year were not only granted a branch change but also got their preferred branch.

M. Tech. Programmes

The Institute has already initiated plans to commence the M. Tech. Programme. The M. Tech. Programme Development Committee was



constituted in February 2010 and the Committee has already submitted its interim report.

Scholarships for Students

A number of scholarship schemes are available to IITGN students. These are as follows -

Merit-cum-Means Scholarships

The IITs award Merit-cum-Means (MCM) scholarships to B. Tech. students of General and OBC categories. These are awarded to meritorious students (a high JEE rank for first year students and CPI greater than 6.5 for senior students), whose parents have limited income (Rs 4.5 lakhs per year starting January 2010 and Rs 2 lakhs prior to this date). An MCM scholarship carries Tuition Fee waiver (Current value Rs 50,000 per year) and Rs 1000 per month for ten months. During the year 2009-10, MCM scholarships were awarded to 42 students. Two students were awarded “freeship” (tuition fee waiver) for one semester as they did not satisfy the merit criterion but needed financial assistance.

The MHRD also provides funds for granting tuition waiver to the SC/ST students. In addition, SC/ST students who satisfy income limit criterion for MCM scholarships are granted facility of free food in the student mess and Rs 250 per month for ten months. During the year 2009-10, eleven SC/ST students availed this facility.



S. C. Mehrotra Scholarships

Shri S. C. Mehrotra, a friend of the Institute, has set up the S. C. Mehrotra Scholarships at the rate of Rs 1500 per month for ten months. It is awarded to the students scoring highest CPI among those satisfying the parental income limit criterion of MCM scholarships. For the year 2009-10, it was awarded to Ms Gunturu Anusha who had scored a commendable CPI of 9.85 out of 10.

International Collaborative Research for Undergraduate Students

A joint research initiative by Underwriters Laboratory (UL), Northbrook, USA and IITGN attracted 80 IITGN students towards accepting the challenge to come up with innovative ideas to reduce hazards for fire-fighters in urban India, and to create a database for fire events. Students visited and interacted with Fire Services at New Delhi, Mumbai and Ahmedabad including a 10-day stay in New Delhi during December 2009. Students were mentored in their research efforts by the UL experts from US and India and the experts of Fire Services from Delhi, Gujarat and Maharashtra. The students worked in pairs and presented their ideas during January 30-31, 2010. A panel of experts praised the research work of these first and second year students, and selected the following four teams as winners of the Conceptualization Phase of the project:

Team 1 : Anchit Gaurav and Adnan Ahmad Ansari

Team2 : Vivek Yadav and Abhishek Umrao

Team3 : Saurya Prakash Sinha and Divyank Singh

Team4 : Shruti Jain and Ekta Prashnani