



Annual **Report**

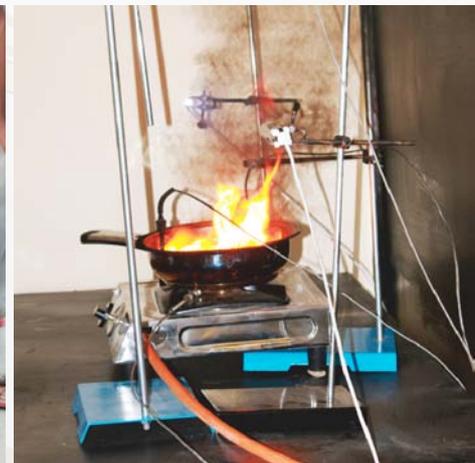
2010 - 2011



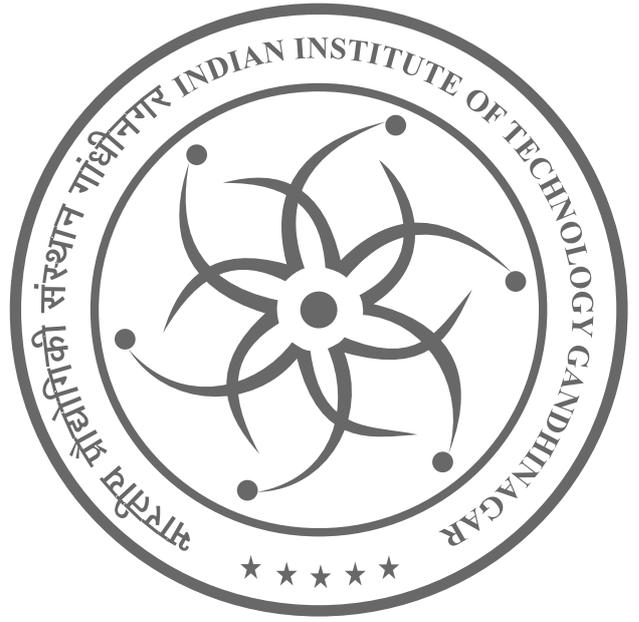
Mean-Mechanics Competition



Nyasa



Kitchen Fire Laboratory at IITGN



Annual Report

2010 - 2011

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FROM THE DIRECTOR'S DESK



Prof. Sudhir K. Jain, Director

Just as a child's upbringing enormously impacts the adult life, the early years in an institute's life leave an indelible impact on its character, values and culture. The current faculty, staff and students of IIT Gandhinagar are very conscious of the fact that what they do today will have an immeasurable and lasting influence on generations of students and faculty of the Institute in the years ahead. This realization has presented a unique opportunity for all of us associated with the Institute to shape it through our decisions and actions: an opportunity to do things differently, to set new and higher standards, and to experiment with innovative ideas in education and in governance, fearlessly but judiciously. The entire community of IITGN is determined to make full use of the opportunities to develop an outstanding Institute for the future generations.

The year 2010-11 has been very eventful for our Institute. A few significant events and achievements amply demonstrate the excitement and the energy that is in the air.

- A two-day retreat of twenty faculty, staff and students of IITGN, and a few prominent academicians from elsewhere developed the first draft of the Vision of the Institute. This was later discussed internally and by the Board of Governors before it was promulgated.
- New B. Tech. and M. Tech. curricula with a futuristic outlook were developed during the year, and these will be introduced in July 2011. These curricula lay strong emphasis on the overall growth of every individual and the wholesome education of the students. To this end, unprecedented emphasis has been placed on courses from the Humanities and Social Sciences, and the focus is heavily on learning through design and projects. These curricula are different from any other in the country.
- A one-day Leadership Conclave at the Institute brought together eminent persons from industry, academia and government to brainstorm and develop a roadmap for the Institute with regard to short- and long-term thrust areas of research, links between industry and academia, and fund-raising strategies.
- A number of highly successful conferences, including an international conference with participants from 10 countries, and continuing education programmes were conducted during the year. About a dozen sponsored research projects were sanctioned by the funding agencies to the Institute. Two of our young faculty members received national awards for their research activities. Our undergraduate and doctoral students published their first papers in prominent scholarly journals during the year.

A number of distinguished academicians and other eminent persons from various walks of life visited the Institute and shared their wisdom on developing an excellent institute. The Institute was fortunate to receive several large and small donations from its well-wishers, affirming their faith in the long term potential of the Institute.

The student body remains extremely enthusiastic and motivated towards not only making a success of their own lives, but also towards establishing a name for the Institute through their special efforts in various academic and extra-curricular pursuits. They won laurels in the inter-IIT sports events and launched two significant social outreach initiatives to make a difference to the lives of others.

The Institute has been very fortunate to receive tremendous support and encouragement from all quarters including the Central Government, the State Government of Gujarat, the Vishwakarma Government Engineering College Chandkheda, the Adani Group, the IIT Gandhinagar Foundation in the United States, and the entire academic community in India and overseas. The IITGN community of faculty, staff and students have every reason to believe that they are developing IIT Gandhinagar into an institute of excellence that our country and future generations can be proud of.

VISION, MISSION AND VALUES



Vision Statement

Vision Statement

Goals

- ▲ To build and develop a world class institution to create and impart knowledge at the undergraduate, postgraduate and doctoral levels, contributing to the development of the nation and 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 communication 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 the process of learning that is free, fulfilling, and an 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.

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.

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 allow mistakes
- ▲ Social and Moral responsibility
- ▲ Respect for every individual, and diversity
- ▲ Co-operation, collaboration and team work

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

Where the mind is without fear and the head is held high

Where knowledge is free

~ Rabindranath Tagore

Leadership Conclave

Evolving Institute's Direction Through Brainstorming

Eminent persons from industry and academia participated in a brainstorming event to provide direction to the Institute with respect to:

- (a) fund-raising strategies
- (b) linkages between industry and academia
- (c) short- and long-term thrust areas of research.

Notable persons who contributed to the discussions in this Leadership Conclave include **Dr Anil Kakodkar** (Atomic Energy Commission), **Shri Sanjay Lalbhai** (Arvind Mills), **Shri Ajay Piramal** (Piramal Enterprises), **Shri Prashant Tiwari** (USV Ltd), **Prof. Bakul Dholakia** (Adani Group), **Dr Hemant Kanakia** (Gempex), **Shri Sudhir Mittal** (Sukriti Udyog), **Shri M. Sahu** (Principal Secretary of Industries), **Shri Arun Pratap Singh** (Electrotherm India Ltd) and **Shri Raj Mashruwala** (Mashruwala Investments, USA). The event was held on December 13, 2010 at the Institute premises.

