

# Placement Brochure 2007-2008



## Mechanical Engineering Department



भारतीय प्रौद्योगिकी संस्थान दिल्ली  
Indian Institute of Technology Delhi

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## About the institute

Indian Institute of Technology Delhi is one of the seven Institutes of Technology created as centres of excellence for higher training, research and development in science, engineering and technology in India.

Our mission is to create an ambience in which new ideas and creativity flourish. The motto of IIT Delhi is to provide learning blended with excellence, to create leaders of tomorrow.



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# Message from the HOD

The Mechanical Engineering Department is one of the oldest department at IITD. The department has consistently maintained an exemplary recruitment record. The graduates and post-graduates of our department have been selected by some of the world's leading corporations, besides most of the leading Indian corporations. The sheer diversity of Indian economy and society, whose different shades are represented among the students and faculty, prepares the students to work in global multicultural corporations.

On behalf of the mechanical department I take honour in inviting the leading corporations to recruit our graduates who are among the best in the country.

Prof. Arun Kanda  
Head Of the Department

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# About the department

The Mechanical Engineering Dept at IIT Delhi is one of the largest in terms of faculty, students, and activities, continues to lead and expand its activities in various directions. The Department is known for research and projects in



robotics, fluid dynamics, heat pumps, cryogenics, nuclear engineering, fracture mechanics, I. C. Engines, Combustion, CFD, CAD-CAM and other areas. Experimental and computational facilities are being continuously upgraded

Mechanical Engineering Department collaborates with many national and international institutions and organizations. The notable among them are Boeing Company (USA), KAIST (South Korea), Concordia University (Canada), Asian Institute of Technology (Thailand), INSA de Lyon (France), Ohio State University (USA), The University of Massachusetts (USA), Several German Universities under DAAD programs and CAPART (India).



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# Programms Offered

The department currently has two bachelor programmes namely B. Tech. (Mechanical Engineering) and B. Tech. (Production & Industrial Engineering). Objective of the undergraduate programmes is to prepare the manpower who are globally best. Most of the students who graduate from the department, end up taking leading positions in industry, academia and government in both India and abroad.

Department has four masters programmes namely M. Tech. (Design of Mechanical Equipment), M. Tech. (Industrial Engineering), M. Tech. (Production Engineering) and M. Tech. (Thermal Engineering). Along with other departments, Mechanical Engineering Department was instrumental in starting an interdisciplinary masters programmes in Power Generation Technology which is completely sponsored and also meant for industry personnel.

Department has two research programmes namely M.S. (Research) and Ph.D. Programmes with specializations in the areas of Mechanical Design, Industrial Engineering, Production Engineering and Thermal Engineering.



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# Facilities

## Design Research Lab

- Experimental Modal Analysis and NVH
- Model Updating and Dynamic Design
- Use of Laser Doppler Vibrometer
- Software ICATS, FE TOOLS, PIMENTO TEST LAB, MSC PATRAN/NASTRAN, CES



## Mechatronics & Manipulators Lab

- Dynamic Design Of Flexible Robot Manipulator & Intelligent Robot
- Intelligent Conveyor System X-Y Table
- IDEAS, RIDIM, ADAMS



## Mechanisms Lab

- Study of mechanisms & their principles
- Balancing Experiments
- Gyroscope, Corrolies Acceleration Set-up
- Various Gear Train Experiment

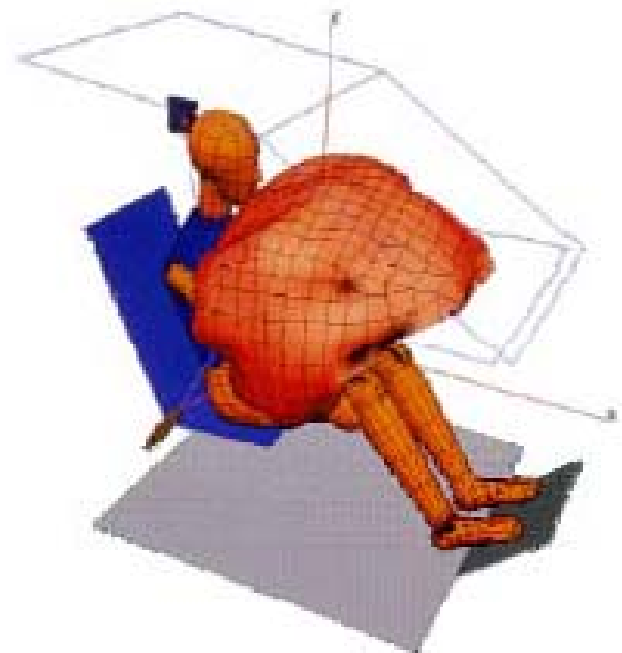


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# Facilities

## Impact Simulation Lab

- Accident Reconstruction.
- Automotive CRASH modeling both four wheelers & two wheelers
- Design for vehicle Safety
- Air Bag Simulation
- Pedestrian Impact
- Human Body Material Characterization
- PAM CRASH/SAFE, LSDYNA, MADYMO
- PC CRASH, HYPERMESH, ANSYS, VISUAL STUDIO



## Vibration Research Lab

- Rotor Dynamics
- Static and Dynamic Balancing
- Prognosis of Rotors
- Modal Analysis of Rotors



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# Student Activities

## SAE

### **SAE** International

SAE is a non-profit educational and scientific organization dedicated to advancing mobility technology to better serve humanity. SAE has more than **90,000** members - engineers, business executives, educators, and students from **97** countries.

**The IIT Delhi Chapter** was started in 1997, and has grown to a strength of about 200 students.

### **BAJA SAE**

Since 2005 team from IITD has been participating at SAE BAJA competition held at South Africa. In 2006, we were **1<sup>st</sup> in all Indian teams** and **2<sup>nd</sup>** in Asian teams.



### **Formula SAE**

Last year the club initiated participation into Formula SAE. Students designed and manufactured a Formula SAE car and raced it in June 2007 at Fontana California, USA.



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# Student Activities

## MES

Mechanical Engineering Society (MES) is an organization comprising of over 600 students (B.Tech and M.Tech). It acts as an interface for organizing events which promote interaction with the various professors of the Mechanical Engineering Department. It organizes technical events like visits to Auto Expo and various factories and other institutions.

## Robotics club

**IIT Delhi Robotics Club** is a student club dedicated to engineering excellence. It was founded by students 4 years ago who wanted to apply their education to something practical. Club members come from many different disciplines such as mechanical, computer science and electrical engineering. The major competition that the club takes part in is ROBOCON. The national version of the competition was won in March 2007. The club represented India in international Robocon in 2007.



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# Past placements

Students from the department are placed in various core companies and organizations around the country like **Tatamotors, GE, GM, John deree etc.**

## List of other recruiters

Roc Search

KPMG

Grail

E Valueserve

John Deere

Tata Technology

Quest

Techspan

Schlumberger

Zinnov

General Motors

Headstrong

Reliance Ind.

Shell

PWC

ITC

Smart Analysis

Inductis

ICICI

Lehman Brothers

HAL

British Gas Exploration

NTPC

i2 Technology

ZS Associates

Hindustan Lever

Mckinsey

IOCL

ICF Consulting

Moolchand

Bajaj Auto

Lehman Brothers

Bain Consulting

BCG

Manhattan

Grail

Bain Consulting

Goodyear India



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# Contact

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