



MECHANICAL ENGINEERING

Placement Brochure
2022-23



Training & Placement Office

The Training & Placement Office, IIT (BHU) Varanasi facilitates the process of placement of students passing out from the Institute besides collaborating with leading organizations and institutes in setting up of internship and training program of students. The office liaises with various industrial establishments, corporate houses etc which conduct campus interviews and select graduate and post-graduate students from all disciplines. The Training & Placement Office provides the infra-structural facilities to conduct group discussions, tests and interviews besides catering to other logistics. The Office interacts with many industries in the country, of which nearly 200 companies visit the campus for holding campus interviews. The industries which approach the institute come under the purview of: Core Engineering industries, IT & IT enabled services, Manufacturing Industries, Consultancy Firms, Finance Companies, Management Organizations and R & D laboratories.

The placement **season runs through the course of the year commencing the last week of July through to March.** Pre-Placement Talks are also conducted in this regard as per mutual convenience. Job offers, dates of interviews, selection of candidates etc. are announced through the Training & Placement Office. The Placement Office is assisted by a committee comprising representatives of students from the under-graduate and post-graduate engineering streams. The committee evolves a broad policy framework every year besides a set of rules which are inviolable.

Students members are closely co-opted in implementing these policy decisions.

About Our Department

The Department of Mechanical Engineering came into existence in 1919 under the leadership of Professor Charles A. King, the first Head of the Department and Principal of the erstwhile Banaras Engineering College (BENCO).

Over the last eighty eight years, the department has grown four folds to become the largest department in the Institute of Technology as well as in the Banaras Hindu University. In the last five years, the department has produced more than 300 graduates and 125 postgraduates.

Apart from this, the department has to its credit more than 7 PhDs awarded during the last five years. The post-graduate and doctoral programme in the department is well-established and infrastructural facilities exist for studies and research.



PROGRAMS

B. Tech

This is a 4 year course in which students are introduced to fields that have industrial relevance. The 4 years are comprised of 8 semesters which involve deep study of core mechanical engineering subjects that help students develop the skills and knowledge required to provide solutions to problems in industry or carry out research.

Integrated Dual Degree (B.Tech + M.tech)

This is a 5 year course comprising of 10 semesters. The student of the programme study the same courses as the student of the 4-year course and additional post graduation courses in the specialisation chosen by the students. The programme is designed so that the student can complete 2 years worth of work in only one additional year. Both the degree is awarded at the end of the 5 years to the students.

M. Tech

This is a 2 year course that comprises of one year of courses and one year of research work. The students are expected to present and successfully defend a dissertation at the end of the programme.

PhD

It is the highest degree awarded by the department and is for students who are interested in research careers. Its focus, unlike regular degrees, is not learning existing knowledge but creating new knowledge.

Research Societies

Team Averera

A zealous team of automotive admirers constantly bringing laurels to the Institute and Nation through their exceptional achievements in developing hyper-efficient vehicles. The team proved its mettle by securing 1st position in the Shell Eco-marathon Global League 2021 among 235 participating universities from over 50 countries. They won multiple podium positions in competitions conducted under the league's umbrella, including the Autonomous Vehicle Programming competition, Safety, Simulations, Vehicle Design, and the Virtual Technical Inspection of the car based on industrial standards. The team has now stepped into the world of autonomy, wherein the focus is on developing SAE level 3 self-driving features for Indian road conditions.

"We are Innovating, Innovate with us!"



Team SwaYatt

SwaYatt stands for autonomy and as the name suggests the team is the pioneer in the field of autonomous robotics at IIT BHU. Team SwaYatt is currently developing a Autonomous Underwater Vehicle (AUV) which is also the first major marine robotics project of the institute.

Composed of Computer Vision, Control Systems, Mechanical, Electronics & Robotic Operating Systems sub-groups, the team wishes to participate in Singapore AUV Challenge (SUAUVC) in near future and carries a vision of studying the Ganga river and to develop surveillance, reconnaissance & Mine countermeasures technologies for nation's military.



Team Trident

We are Team Trident, a group of zealous undergraduates who design and fabricate a safe, comfortable and reliable ATV buggy in compliance with SAE BAJA standards to represent the institute at a national level intercollegiate competition. Team's goal is to design and build a single-seat, all-terrain, sporting vehicle whose structure ensures safety of driver. The vehicle is to be a prototype for a reliable, maintainable, ergonomic, and economic production vehicle. The vehicle should aspire market leading performance in terms of speed, handling, ride, and ruggedness over rough terrain and off-road conditions. We cleared design and technical inspection and bagged best captain award at ATVC-2020 held in Vadodara. Along with this, team also ranked 1st runner up position in Mega Marketing round.



Labs & Workshops



Dynamics of Machinery
Lab



Welding
Shop



Fluids Lab

Labs & Workshops



Machine Shop



Production and Metrology
Lab

Labs & Workshops



HMT lab



Experimental Mechanics and Materials
Lab



Internal Combustion Engine Lab

Major courses offered (B. Tech and Integrated Dual Degree)

- Thermodynamics
- Measurements & Control
- Material Science
- Engineering Drawing
- Machine Drawing
- Strength of Materials
- Fluid Mechanics & Fluid Machinery
- Manufacturing Technology
- Theory of Machines
- Mechanics of Deformable Solids
- Heat & Mass transfer
- Metal Machining & Machine Tools
- Fundamentals of Machine Design
- Tool Design & Metrology
- Vibrations
- Thermal Management of
- Electronic System
- Materials for Tribological
- Design of Machine Elements
- IC Engine and Power Plant
- Computational Mechanics
- Composite Materials
- Biomaterials
- Smart Materials and Structures
- Refrigeration & Air-conditioning
- Wind Power Meteorology
- Tribology of Manufacturing Processes
- Forecasting and Time Series Analysis
- Turbomachines
- Industrial Management
- Finite Element Method
- Probability and Statistics
- Automobile Engineering
- Bio Transport Mechanism
- Mechatronics
- Workshop Practice
- Fracture Mechanics
- Manufacturing Systems
- Rapid Design Stamp;
- Manufacturing
- Control Systems Engineering
- Computational Fluid Dynamics
- Power Generation
- Robotics
- Experimental Mechanics &
- NDT
- Non—Conventional Energy
- Resources
- Combustion Technology
- Mechanical Behaviour of
- Engineering Materials
- Engineering Economics
- Unconventional Machining
- Processes
- Theory of Abrasive Machining Applications

Extra courses & Projects (B. Tech and Integrated Dual Degree)

Open Electives

The students take electives pertaining to other departments, making them equipped with knowledge that helps in solving interdisciplinary industrial and research problems. Some frequently attended courses are Machine learning, Natural Language Processing, Network Security, Ubiquitous Computing, Fuzzy set theory, Optimization Techniques and many more.

Department Electives

The students are requested to attend courses offered under various streams by department professors to fulfil minimal credit requirement. DEs offered under management stream: Simulation for Decision Making, Financial Engineering, Management Information System, Operation Research, Computer Integrated Manufacturing Systems, Production Planning and Control, Technology for Competitive Manufacturing, Marketing Management.

HULM courses

It is compulsory for students to choose courses offered in humanities, languages and management to fulfil minimal curriculum requirement. Frequently offered courses: Entrepreneurship: Mind-set, Behaviour and Action, Introduction to Machine Translation and many more.

Extra courses & Projects (B. Tech and Integrated Dual Degree)

Exploratory project

The students are also required to do an exploratory project on a topic of 'their choice in the second year. Since the students are just starting to tread the waters of their chosen discipline at the time, the project provides a good inner view.

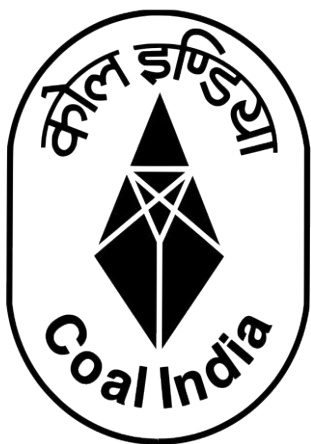
Internships

The students undertake a mandatory summer training at the end of 1st semester 6, which helps them familiarise with the workings of an industry or research lab, thus preparing them for a fruitful career. The students are encouraged to get a first hand experience of doing work so as to provide an on—field and practical reaffirmation of the concepts taught in the classroom.

UG project

The students are required to complete a project in their last year. The project helps them get an overview of all they have done during their time in the institute and connect different topics of the subjects together. This helps in the nurturing of a good mechanical engineer.

Past Recruiters



Past Recruiters



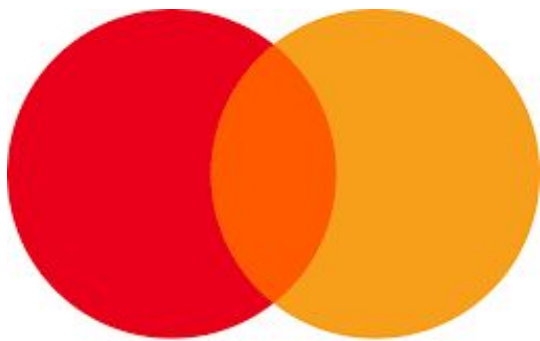
JPMORGAN CHASE & Co.



Goldman
Sachs



Past Recruiters



Contact Us

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For any queries. please contact the Departmental Placement Coordinators or TPO during office hours. For additional info on Department of Mechanical Engineering, Visit: www.iitbhu.ac.in/mec/tpo@iitbhu.ac.in