

B.Tech > Mechanical Engineering



Duration : 3year

Eligibility:

- Passed 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry/Biotechnology/Biology/Technical vocational subjects.
- Obtained at least 45% marks (42.75% in case of candidates belonging to reserved category) in the above subjects taken together.

Mechanical Engineering is one of the oldest and broadest engineering branches and hence, one of the most preferred one by the engineering aspirants. The branch applies the principles of engineering, physics and material science for the design, analysis, manufacturing and maintenance of mechanical systems. This branch of engineering involves design, production, and operation of machinery.

- Mathematics
- Physical Sciences
- Statics & Dynamics Control
- Thermodynamics and Heat Transfer
- Fluid Mechanics
- Mechanism and Machine Design
- Strength of Materials and solid mechanics
- Materials Engineering
- Theory of Design
- Fuels, Combustion
- Instrumentation and measurement
- Manufacturing Engineering
- Hydraulics
- Engineering and Product Design
- Computer Aided Design and Computer Aided Manufacturing

Mechanical Engineering with certification in Thermal Engineering

Thermal Engineering is a specialized sub-discipline of Mechanical **Engineering** that deals exclusively with heat energy and its transfer between not only different mediums, but also into other usable forms of energy.

One or more of the following disciplines may be involved in solving a particular thermal engineering problem:

- Thermodynamics
- Fluid mechanics
- Heat transfer
- Mass transfer

Job Description

The demand for the Mechanical Engineering jobs is high in India and abroad. The popular and most common industries where a Mechanical Engineer can be employed are Thermal Power Plants, Oil & Petroleum Plant, Electronics Industry, Aerospace, Shipping Industry, Pharmaceutical Industry to name a few.



Career Prospects:

- Design Engineer
- Machine component designer
- Technical Officer
- Product Manager
- Purchasing Officer
- Sales & Maintenance Engineer

Earnings

2.34 Lakhs to 15 Lakhs per annum

(Salary data sourced from PayScale.com)

Earnings Details

Graduates can work in the automotive, aerospace, chemical, computer, communication, paper, power generation and almost all manufacturing industries. Mechanical engineers also work in maintenance and service profiles in all industries. Also they can choose teaching profession in universities and colleges.



Recruiting Companies

- ISRO
- BHEL
- NTPC
- OIL/IOCL/BPCL
- NPCIL
- L&T
- Brahmos Aerospace
- Maruti Suzuki
- Tata Motors/Tata Group
- Reliance Group
- Mahindra Group
- Adani Group
- Schlumberger
- General Motors India
- Bajaj Automobiles
- Godrej & Boyce