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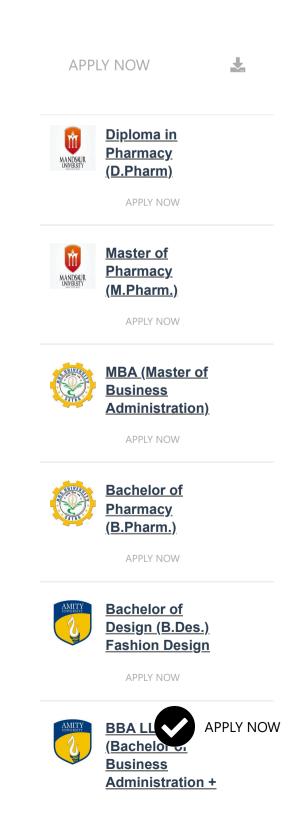
### Master of Technology (M.Tech.) Mechanical Engineering

#### **About Course**

M.Tech Mechanical Engineering is a two-year postgraduate program that combines the study of engineering, physics, and materials science with the goal of designing, analyzing, manufacturing, and maintaining mechanical systems. The main objective of the degree program is to train students in areas related to the design, manufacture and operation of machines. M.Tech Mechanical Engineering graduates have a variety of job opportunities in various fields such as Engineering, Physics, and Machine Operator. The M.Tech Mechanical Engineering degree offers a very wide range of jobs with a decent salary package in both the private and public sectors of the organization.

## **Course Highlights**

Particulars	Values
Course Name	M.Tech in Mechanical Engineering
Course Level	Post Graduate (PG)
Course Duration	2 Years
Examination Type	Semester Based
Eligibility Criteria	Bachelor's Degree and entrance exam



Admission Process	Merit list of GATE
Specialization	Mechanical Engineering
Types of Courses	Full time, Online, Distance Learning
Internship	Yes
Entrance Exams	GATE, SRMJEE, WBJEE, AP PGECET, TS PGECET
Course Fee	INR 2,30,000
Average Annual Salary	INR 4 – 6 Lakhs per annum
Top Recruiting Companies	BMW, General Electric Co (GE), General Motors Corporation, Ford Motor Company, Caterpillar, Inc., Larsen and Toubro Ltd etc.
Job Profiles	Mechanical Engineer, Design Engineer, Mechanical Design Engineer, Project Engineer, Production Engineer

## Why Study M.Tech in Mechanical Engineering?

M.Tech Mechanical Engineering is one of the most sought after courses in India for personal and professional development. Along with the degree, the MTech degree offers a number of advantages. Benefits of the course:

- Studying the course provides opportunities for professional development and knowledge acquisition.
- Students interested in studying machines and their functions should take this course.
- Students with useful technological skills combined with machine learning, this course is definitely worth considering.
- For graduates, the salary package ranges from INR 3,000,000 to INR 1,000,000.
- The course also offers students a wide range of career opportunities.

## **Types of M.Tech in Mechanical Engineering**

### **DISTANCE/ONLINE LEARNING**

Distance education is becoming a popular educational medium of the new era. Distance education or online education gives you a head start to apply UG and PG according to your qualifications and also can do industry related jobs at the same time. Distance education plans are also affordable and save you time by not having to attend regular distance education courses.

### **FULL TIME EDUCATION**

M.Tech Mechanical Engineering course lasts 2 years and is divided into four semesters. Full form of M.Tech Mechanical Engineering is Master of Technology in Mechanical Engineering. Important topics

#### Bachelor of Legislative Law)

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# Master of Design (M.Des.)

APPLY NOW



# Master of Fine Arts (M.F.A.)

APPLY NOW



# Master of Education (M.Ed.)

APPLY NOW



## Bachelor of Laws (LLB)

APPLY NOW



# Master of Law (LLM)

APPLY NOW



# Bachelor of Laws (LLB)

APPLY NOW



# MBA (Master of Business Administration)

APPLY NOW



# BBA (Bachelor of Business Administration)

APPLY NOW



Bachelor of Computer Applications (BCA)

APPLY NOW



Diploma in
Computer
Application (DCA)

APPLY NOW



Bachelor of Laws (LLB)

APPLY NOW



MBA (Master of Business Administration)

APPLY NOW



of the course are: machine design, heat and mass transfer, machine theory and internal combustion engines.

## **Eligibility Criteria**

The eligibility criteria for MTech Mechanical Engineering candidates are not complicated and are as follows. Please note that eligibility criteria vary from institution to institution.

- Applicants must have a degree in mechanical engineering from a recognized university or institution.
- Cumulative average qualification score is at least 50% and above.
- Bachelor students in a related field from an accredited university can apply for parallel studies at different institutions.
- 5% moderation for restricted categories such as SC/ST/OBC students.

### **Admission Process**

The admissions process for the M.Tech in Mechanical Engineering degree in India takes place directly in the university offices or can be made available online. The recruitment process is only based on the merits and results obtained by the candidates in the admission tests. Therefore, candidates applying for the course must meet the minimum requirements for admission to the M.Tech in Mechanical Engineering and combination of course grades and entrance exam results. The degree is part of M.Tech and therefore has a very similar hiring process to other specializations.

Prospects can register for an online or offline course. Based on the assessment of the high school diploma and the results of the entrance exam, the candidates are qualified to participate in the course. Prospects can apply for admission to the M.Tech in Mechanical Engineering program by downloading the online application form. After successfully completing the application form downloaded online, the applicants will then be invited by a college or university to attend an interview and various counselling sessions, group discussions, face-to-face interviews and more.

# Skills Required for MTech in Mechanical Engineering

M.Tech mechanical engineering graduates are expected to have specific skills and ethics that will help them succeed in their careers and grow as the best mechanical engineering graduates in the profession. The skills of M.Tech Mechanical Engineering graduates will help them learn, work and grow. Some skills of Graduates from M.Tech mechanical engineering are:

Communication Skills
Innovation Skills
Problem Solving Skills
Engineering Skills
Teamwork
Creativity
Leadership



APPLY NOW

#### Students also visited



Mandsaur University, Mandsaur...



AKS University, Satna...



Amity University, Gwalior, Gwalior...



Avantika
University, Ujjain,
Ujjain...



Bhabha University, Bhopal...



Swami Vivekanand University, Sagar, Sagar...



Symbiosis
University of
Applied Sciences,
Indore (SUAS),
Indore...



Sardar Patel University, Balaghat, Balaghat...



Dr C V Raman University, Khandwa...



Mangalayatan University, Jabalpur, Jabalpur...



Mahakaushal University, Jabalpur...



# **Entrance Exams for MTech in Mechanical Engineering**

There are many entrance exams for the M.Tech in Mechanical Engineering courses that students can apply for. Appear at the entrance exams are the main criteria for securing a place in a prestigious college or university, so some of the top 5 undergraduate mechanical engineering entrance exams should give you a clear idea of ??which entrance exams you need to take. Some of the best mechanical engineering entrance exams are:

GATE
JEE MAIN
VITEE
BITSAT
UPSEE
TANCET

### **Fee Structure**

M.Tech Mechanical Engineering fees range from INR 20,000 to LPA 1 and the fee structure may vary slightly depending on the facilities and educational level of the institution or college.

Below is a list of various M.Tech Colleges and Universities in Science and Technology in India:

Name of College	Average Annual Fees
Jadavpur University, Kolkata	INR 9.6 LPA
Bharat Ratna College of Arts and Technology, Tamil Nadu	INR 5.5 LPA
Lokmanya College of Engineering, Navi Mumbai	INR 4.5 LPA
Coimbatore College of Engineering, Coimbatore	INR 2.5 LPA
Dr. D .Y Patil College of Technology, Pune	INR 2 LPA

### **Selection Process**

The selection process is based on the result of the entrance exam and the 12th/10th and grades achieved in university studies in the field of M.Tech in Mechanical Engineering. Following an individual interview and group discussion by the university, applicants will be assigned places based on the various M.Tech Mechanical Engineering admission criteria that applicants meet. The admission process for courses is at the sole discretion of the institution or university offering the admission, and the authorities themselves may make changes to the admission as and when they deem necessary.

## **Course Comparison**

Two of the common degrees evaluated in Master's Program for Engineering are MTech Mechanical Engineering and ME in Electronic Engineering on the basis of a few parameters:



Parameters	MTech in Mechanical Engineering	ME in Electronic Engineering
Course Name	Master of Technology in Mechanical Engineering	Master of Engineering in Electronic Engineering
Course Overview	M.Tech in Mechanical Engineering is a postgraduate course which offers students the combined study of mechanics, kinematics etc.	Mechanical Engineering is the branch of study which primarily deals with the aspects of designing, production, and operations of machines and tools.
Course Duration	2 Years	2 Years
Course Level	Post Graduate (PG)	Post Graduate (PG)
Eligibility Criteria	Bachelor's degree in B.Tech or B.E in Mechanical, Manufacturing, Aeronautics, Mechatronics, etc. with an aggregate of 50% marks and above from a recognized university	The minimum eligibility that is required to get entry into this technical degree course is a B.Tech. /BE /B.Sc. degree with a minimum of 55% in aggregate
Admission Process	Merit list of GATE	Entrance exam based/Merit-based
Career Prospect	Mechanical Engineer, Design Engineer, Mechanical Design Engineer, Project Engineer, Production Engineer etc.	Electronics hardware engineer, Electrical and Electronics engineer, Product line engineer, Technical writer, Production quality manager etc.
Average Annual Salary	INR 1,70,185	INR 2,50,000

## **Top Colleges of MTech in Mechanical Engineering**

Listed below are some of the top MTech in Manufacturing Science and Technology College in India which offer the course:

Name of College	Average Annual Fee (INR)	Location
Jadavpur University	INR 9,60,000	Kolkata, West Bengal
Bharat Ratna College of Art and Technology	INR 5,44,000	Solapur, Maharashtra
Lokmanya College of Engineering	INR 4,47,000	Navi Mumbai, Maharashtra



Combaitore College of Engineering	INR 2,67,000	Combaitore, Tamil Nadu
Dr. D.Y. Patil College of Technology	INR 2,02,000	Pune, Maharashtra

# Jobs and Placements in M.Tech in Mechanical Engineering

MTech's mechanical engineering courses offer many job and career opportunities. New graduates of this course can easily expect to earn between INR 4,00,000 and INR 9,00,000 per year and with continued growth and work experience the salary should reach as well up to 30 lakhs annually. The compensation offered is directly proportional to the candidate's knowledge in the field. Here are the different career options after MTech in mechanical engineering:

#### **PRIVATE JOBS**

From government jobs, the spectrum of M.tech Mechanical Engineering is wide and open to the private sector. At the technical school for mechanical engineering, there are more positions to be filled in the private sector than in the public sector. Some of the reputable organizations that employ M.Tech mechanical engineering graduates in the private sector are:

<b>Top Private Companies</b>	Job Designation	Salary
TCS	QC Manager	INR 9 LPA
Maruti Suzuki	Mechanical Engineer	INR 6.45 lpa
Tata Motors	Principal Engineer	INR 6 LPA

### **GOVERNMENT JOBS**

M.Tech Mechanical Engineering graduates have high morale and rank in almost every organization in the government sector. Most engineering schools, mechanical engineering schools, and other engineering schools prefer mechanical engineers master these areas. M.Tech Mechanical Engineer government jobs offer great graduate opportunities and are very rewarding and can help graduates progress in their profession. After the course, M.Tech Mechanical Engineering's revenues in the public sector are also good numbers. Some famous government jobs for M.Tech mechanical engineers include:

Top Government Companies	Job Designation	Salary
GAS Authority of India	Executive Trainee	INR 6 LPA
Bharat Petroleum Corporation Limited	QC Engineer	INR 5 LPA
Steel Authority of India Ltd	Fire Operator	INR 4.5 LPA

#### **ABROAD JOBS**

Job opportunities for M.Techin Mechanical Engineering graduates in India and abroad are available in a variety of fields to choose from. Sectors include Research, Engineering, Materials Science and Technology and many more. Most companies operating abroad



prefer M.Tech mechanical engineering graduates as their engineering major and related fields are very lucrative fields of study.

**Top International Recruiting Companies** who hire MTech Mechanical Engineer graduates are:

- Maruti Suzuki
- Larsen and Toubro Ltd.
- Microsoft
- Google
- GE Aviation
- Ford Motors

### **Job Profiles**

Some of the famous expert avenues open to successful graduates of the M.Tech in Mechanical Engineer degree are indexed underneath with the corresponding salaries provided for the respective positions.

Job Profiles	Job Description	Average Salary in INR
Mechanical Engineer	Mechanical engineers research, design, develop, build, and take a look at mechanical and thermal sensors and devices, such as tools, engines, and machines.	INR 3,10,000
Design Engineer	Design engineers are liable for the studies and layout of a company's new merchandise and systems. They carry out diverse obligations in an engineering branch together with drafting blueprints, growing take a look at prototypes, and overseeing the producing process.	INR 3,50,000
Mechanical Design Engineer	Develops production tactics with the aid of using designing and enhancing system for fabricating, building, assembling and putting in components. Assures device and product excellent via way of means of designing trying out methods, trying out completed product and device capabilities, and confirming fabrication, meeting and set up processes.	INR 3,60,000
Project Engineer	A Project Engineer is a expert who's chargeable for all technical and engineering elements in their assigned projects. They plan, schedule, predict, and manipulate all of the technical responsibilities in their assigned undertaking to guarantee accuracy, right resources, and fine from begin to finish.	INR 4,00,000



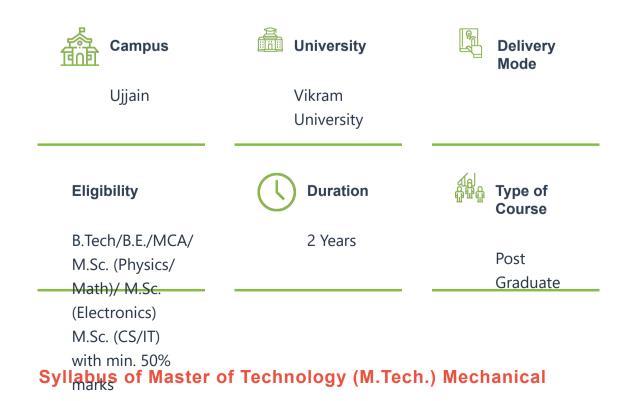
Production Production engineers are chargeable for supervising and enhancing manufacturing at plants and factories. They help engineering teams, draw up protection protocols, record problems to the manager, and increase techniques to enhance performance and profit.

### Scope for M.Tech in Mechanical Engineering

There is a wide range of employment opportunities for graduates in mechanical engineering, which graduates can grasp immediately after completing their studies. Few graduates from M.Tech Mechanical Engineering can develop their skills in engineering, physics, materials science and various other engineering fields. In addition, there are a variety of options for M.Tech Mechanical engineering jobs for freshmen in postgraduate education and in the public and private sectors of various organizations. Post M.Tech Mechanical Engineering Jobs & Salary for the course is in a diverse field so graduates can easily find jobs. In addition, the internships for graduates after completing the M.Tech mechanical engineering course are very numerous and wide-ranging along with a decent salary package compared to other engineering or engineering degrees.

# M.Tech in Mechanical Engineering: Career Prospects

Career opportunities after the M.Tech degree in mechanical engineering are in various areas. Since engineering, physics and other engineering fields have a large scale and demand around the world, the scope of the course is very good and graduates are recruited from reputable organizations with decent salary packages. Therefore, according to M.tech in Mechanical Engineering, there is a wide range of job offers and study fees. The average salary of an M.Tech in Mechanical Engineering in India for a graduate is around INR 8.25 LPA. The average salary for a course can vary depending on the company, qualifications and where the graduate works. The career after the M.Tech in Mechanical Engineering is quite good, the graduates can work in any private or public sector of the organization and work accordingly with the appropriate compensation package.





## Engineering

S.No	1st Year Syllabus of M.Tech. in Mechanical Engineering
1	Numerical Analysis and optimization
2	Instruments and maiden.
3	Experimental Stress Analysis
4	Metal Forming Analysis
5	Mechatronics and product design
6	Experimental stress analysis lab.
7	Mechanical measurement lab. Computational Lab.
9	Theory of Elasticity
10	Design of Mechanics
11	Principles Of Machine Design
12	Seminar
13	CAD/CAM Lab Design Practical lab

S.No	2nd Year Syllabus of M.Tech. in Mechanical Engineering
1	Mechanical Behavior of Materials
2	Mechanics Vibration
3	General practical Lab
4	Material behavior and vibration lab
5	Minor Project
6	Dissertation
7	Elect. Design of bearing and shift
8	Computer-Aided Design
9	Design of Pollution Control
10	Tribulus
11	Computer-Aided vehicle design



## **Vikram University Highlights**

Established in	1957
University Type	State University
Recognized by	UGC , AICTE , AIU , NAAC , NCTE , BCI , PCI , INC , IAP ,
Courses	61

Top Courses	Top Institue	Online Course	Other Useful Link
Management	Amity University Jaipur	MBA	Study Abroad
Pharmacy	Chandigarh University	BBA	MBBS Abroad
Science	Manipal University, Jaipur	ВСА	Research India (PHD)
Law	Kalinga University	MCA	Partner with UniversityKart
	SGT University		

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