M.Tech Admission Brochure

Mechanical and Aerospace Engineering Department

1 Introduction

The Department of Mechanical and Aerospace Engineering aims at pushing the frontiers of modern science and engineering through quality teaching and cutting-edge research. For making the nation self-sufficient, we are highly motivated to invest in the state-of-the-art manufacturing technology and address the issue of energy in the context of the global energy environment. Right from its inception in 2008, the department has attracted a rich and diverse set of talented individuals, and is currently nurturing 160 undergraduates and 100 postgraduates.

The faculty is well-experienced and very enthusiastic about research and practical learning. All of them are at the forefront in their field of research. Some of the areas in which the faculty are working include CFD, Acoustics, Vibration, Controls, Robotics, Thermodynamics, Process Modeling, Optimization, Manufacturing, FEM, Fracture Mechanics, Rapid Prototyping, and Micro-mechanics. For a full list of research areas, prospective students are encouraged to go through the faculty profiles at:

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`https://mae.iith.ac.in/faculty.html`

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The department presently offers 2-Year and 3-Year M.Tech degrees in:

- Mechanics and Design (MAD)

- Thermo-fluids Engineering (TFE)

- Integrated Design and Manufacturing (IDM)

- Aerospace Engineering (AE)

A student can join the M.Tech program in four different modes

- **MHRD Mode**: Candidates who have qualified GATE must register on the Common Offer Acceptance Portal (COAP). Once all the COAP admission rounds are over, the leftover seats are filled based on GATE score and performance on written test and interview. The candidate can join a 2-Year or a 3-Year M.Tech program through this mode. Once admitted, candidates are paid a stipend according to MHRD norms.

- **IIT B.Tech Mode** Candidates who have a B.Tech degree from any IIT with a CGPA of 8 and above can apply in this mode. Once admitted, candidates are paid a stipend according to MHRD norms. Selection is based on a written test and/or interview.

- **Project Mode**: Candidates who are working as Junior Research Fellows in the MAE department of IITH for at least 6 months, or has 2 years of experience outside IITH can join the 3 Year M.Tech program. Admission is given to shortlisted candidates based on their performance in the written test and the interview. These students will work on projects funded by external agencies. A stipend is given to these candidates subjected to the norms of the funding agency.

- **Self Sponsored Mode**: This year we are starting a self-sponsored 2-year M.Tech program. Admission is given to shortlisted candidates based on their performance on the written test and an interview. This is a non-subsidized program and no financial support is provided to the students. The fee for this program is approximately 11 Lakh rupees for two years. More details about the program can be found on the IITH website.

  Note: For Project Mode and Self Sponsored Mode, the GATE score is not required.

2 Eligibility

- For the MHRD Mode, the table below shows the eligibility for different M.Tech programs based on your B.Tech degree and GATE specialization:

B.Tech/B.E	GATE (specialization)		
	ME	AE	PI
Mechanical	MAD, TFE, IDM, AE	MAD, TFE, AE	IDM
Aerospace/Aeronautical	MAD, TFE, IDM, AE	MAD, TFE, AE	IDM
Automobile	MAD, TFE, IDM, AE	MAD, TFE, AE	IDM
Production	MAD, TFE, IDM, AE	MAD, TFE, AE	IDM
Manufacturing	MAD, TFE, IDM, AE	MAD, TFE, AE	IDM

- For the IIT B.Tech Mode, Project Mode and the Self Sponsored Mode, please refer to the table below for eligibility in different M.Tech streams:

B.Tech/BE	Eligible Streams
Mechanical	MAD, TFE, IDM, AE
Aerospace/Aeronautical	MAD, TFE, AE
Automobile	AD, TFE, AE
Production	IDM
Manufacturing	IDM