Department of
Artificial Intelligence

M.Tech Brochure (Jan 2027)

Department of Artificial Intelligence, IIT Hyderabad

॥ नवोन्मेषेण देश निर्माणम् ॥
ఐఐటీ హైదరాబాద్
आई आई टी हैदराबाद
IIT Hyderabad

Web: http://ai.iith.ac.in **Contact:** AI M.Tech admissions

Overview

The Department of AI at IIT Hyderabad was launched in 2019. Given AI's interdisciplinary nature, a separate department helps create a comprehensive ecosystem for AI Academics and Research at IIT Hyderabad. The department offers B.Tech., M.Tech., and Ph.D. programs, as well as a variety of Minor Programs in AI. The emergence of the department is a consequence of the industry's heavy demand for data analytics and the need to address foundational research problems arising in a rapidly evolving field. The department's mission is to

- Train students to understand the fundamentals of Artificial Intelligence and Machine Learning, both in theory and in practice.
- Enable students to become leaders in the industry and academia globally.
- Meet the nation's pressing demands regarding trained Artificial Intelligence and Machine Learning professionals.

The Department of Artificial Intelligence has many highly dedicated and dynamic faculty members with various areas of expertise. Currently, there are 11 core faculty members and 23 affiliated faculty members in the AI department, including 3 adjunct faculty members. Candidates can find faculty members' profiles and teaching/research areas on the department's website.

The Department of AI seeks talented and dedicated M-Tech students to develop highly skilled human resources who can contribute to modern, cutting-edge research and industrial demand in AI. The M-Tech students will have access to excellent laboratory facilities at any time. The laboratories are equipped with state-of-the-art facilities, including software and hardware. All the laboratories are provided with internet connectivity.

Research areas	
Machine Learning & Deep Learning	Computer vision
Autonomous Navigation	Natural Language Processing
Generative Models	Image and Video Quality Assessment
Speech Systems	AI for healthcare
Bayesian Learning	AI in Agriculture
Robotics and Control	Recommendation systems and data mining
ML in astronomy	Inference algorithms
Game Theory and Mechanism Design	Big data analysis
Computer Architectures for AI	AI and Internet of Things
AI and High-Performance Computing	Multi-Agent Systems

The Department of AI accepts applications for the following MTech programs in the Jan 2027 admission cycle.

- MTech (3-year)

Please see the following sections for more details.

MTech (3 yr) program

The 3-year MTech program at IITH has the same number of credits as the 2-year program (See the department website for more details), but it is more spread out to enable the students to focus more on research. The program has the following two components in the course curriculum.

- Coursework (24+2 credits)
- Thesis (24 credits)

Coursework: The AI curriculum provides a well-rounded, holistic introduction to machine learning theory and practice. Students can take a variety of courses, from fundamental theoretical courses to more advanced application-based ones. A course on English communication is also included, along with industry lectures.

Thesis: Students will work with supervisor(s) to contribute to high-quality research in AI.

Students who join the 3-year program will be assigned a supervisor upon joining. Students admitted to the regular 3-year M-Tech program are responsible for providing research and teaching assistance to their supervisor. The advantage of the regular 3-year MTech program is that students can gain greater research exposure. Students may be paid a stipend similar to (or higher than) that of the 2-year MTech students.

Eligibility Criteria for Application

The applicant must have earned (or should be in the final year of) a full-time BTech/BE degree in any discipline or a part-time BS (4-year) degree in Data Science, or a full-time MSc (Math/Stats/Applied Math)/Equivalent degree. If the applicant is in the final year of the program, it is assumed that the applicant can complete the degree by the time of MTech admission. There are three modes of admission to the MTech (3-year, RA) program.

- Mode RA1: The candidate must have a valid GATE score in CS/EC/EE/DA/MA, besides the degree requirement.

- Mode RA2: Candidate must have a full-time B.Tech/BE degree in any discipline from any IIT with a CGPA of 8 and above, or a full-time MSc (Math/Stats/Applied Math)/Equivalent degree from any IIT with a CGPA of 8 and above (in this case, a valid GATE score is not mandatory). Note that applicants with only part-time degree(s) from IITs (e.g., BS in Data Science) are not eligible for this mode.

- Mode RA3: Besides a full-time B.Tech/BE degree in any discipline, or a full-time MSc (Math/Stats/Applied Math)/Equivalent degree, or a part-time BS (4-year) Data Science degree, the candidate must have 6 months of project experience in IITH (in this case, a valid GATE score is not mandatory).

Selection Process

For admission to the program through any mode, a preliminary shortlisting will be based on academic background and/or GATE score. Candidates who meet the shortlisting cutoff may be required to appear for a written test and/or an interview. The decision to hold the test/interview will be taken based on the number of applications and other factors. The department will communicate that to the candidates at the appropriate time. In addition, the department reserves the right to set any cutoff for the shortlisting of MTech applications. The department cannot select anybody if no appropriate candidates are found. Note that mere

eligibility does not imply that the candidate will be shortlisted or called for the written test/interview.

Application Process

IIT Hyderabad has a centralized online application portal for M.Tech admission. Candidates are requested to visit https://iith.ac.in/mtechadmissions/ for the application format and the submission link. Applications will be accepted only through this portal.

For up-to-date information, please visit https://ai.iith.ac.in/

For any query, kindly write to ai_grad_admissions@iith.ac.in