

All Course M.Tech Brochure (2019-20)

Department of Artificial Intelligence



IIT Hyderabad

Web: <http://ai.iith.ac.in>

Contact: [AI M.Tech admissions](#)



Important Dates

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| • Opening of web portal for online application | : Early May |
| • Last Date of receiving application | : July 5, 2019 |
| • Online announcement of shortlisted candidates | : 2nd week of July |
| • Written test and interview | : July 15-16, 2019 |

Overview

The Department of AI is a newly launched department at IIT Hyderabad. Considering the interdisciplinary nature of AI, a separate department helps in creating a complete ecosystem for AI Academics and Research at IIT Hyderabad. The department will offer B.Tech. and M.Tech. programs, and plans to offer a variety of Minor Programs in AI. The emergence of the department is the consequence of the heavy demand from the industry on data analytics, and the need to tackle the many fundamental and foundational research problems arising in a rapidly evolving field. The department's mission is to

- Train students to have a sound understanding of the fundamentals of the theory and practise of Artificial Intelligence and Machine Learning.
- Enable students to become leaders in the industry and academia nationally and internationally.
- Meet the pressing demands of the nation in the areas of Artificial Intelligence and Machine Learning.

The Department of Artificial Intelligence has a sizeable number of highly dedicated and dynamic faculty members, with a wide variety of expertise. Currently there are 22 faculty members affiliated with the AI department. Candidates can discover the profiles and teaching/research areas of different faculty members by visiting the department web page.

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

Research areas	
Deep Learning	Explainable Machine Learning
Autonomous vehicles	Computer vision
Generative Models	Video quality assessment
Speech systems	AI for agriculture
Bayesian learning	Social media and text analysis
Robotics	Recommendation systems and data mining

Research areas	
ML in astronomy	Inference algorithms
Graphical models	Big data analysis
Computer Architectures for AI	AI and Internet of Things
AI and High Performance Computing	Natural Language Processing

All Course MTech Program Overview

The Department of AI is offering a self sponsored and course based M.Tech program in Artificial intelligence and Machine Learning. The key features of the program are summarised below.

- All Course MTech in Artificial Intelligence and Machine Learning
- Duration of the course: Three Semesters
- Eligibility for On-Campus Placement on successful completion of the program
- Non subsidised Program - No fellowship (even for GATE qualified students)
- Open for degree holders having a first class
- No mandatory requirement for GATE
- Admission based on thorough scrutiny process comprising written test and interview
- Total Credits to be completed: 36 Credits
- Thesis option
 - Eligibility :Min 7 CPGA in first two semesters
 - Recommendation by Departmental Committee
- Non-Residential Program - Hostel accommodation not guaranteed
- Consideration for hostel accommodation (chargeable) based on room availability

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- Conversion to M.Tech (TA)/ M.Tech (RA) or vice versa not possible

- **Fee Structure**

- INR 25,000 per credit
- INR 1,00,000 - One time Administrative fee
- Hostel accommodation and Mess facility - not included - chargeable as per norms
- Fee to be paid only for 36 credits
- Additional Courses - No charge

- **Eligibility**

- B.Tech/B.E/M.Sc/Equivalent degree in any discipline

- **Syllabus for Written Test**

- Basic programming, linear algebra, probability and calculus