

M.Tech. Admissions Brochure

July 2021 Session

Department of Computer Science and Engineering

Indian Institute of Technology Hyderabad



भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

M.Tech. Admission Details

I. General Information

The CSE department at IIT Hyderabad invites outstanding candidates to join us for the Master of Technology (M.Tech.) programme. The M.Tech. programme at IIT-H provides ample opportunities for students to explore both research and development skills. The advanced and specialized courses provide deeper insights into various subjects in Computer Science and Engineering, while the M.Tech. thesis allows you to go deeper into a topic of your interest by joining exciting research projects of the young faculty in the department. An M.Tech. at CSE-IITH will prepare you both for sought-after industry jobs, or for a Ph.D. in Computer Science and Engineering. IIT-H has its vision firmly entrenched in being a cradle for invention and innovation, and has already established partnerships with international partners, especially in Japan, since its inception in 2008. The CSE Department at IIT-H is active in research areas including theoretical computer science, algorithms, graph theory, networking, distributed systems, compilers, big data analytics, data mining, machine learning, and image/video processing. It has large active funded research projects in the application domains of cyber-physical systems, converged cloud radio access networks, and data analytics. While the standard M.Tech. programme spans 2 years, the 3-year M.Tech. programme is research-focused and allows students to work on sponsored research projects, thus focusing on research every semester, along with the coursework.

The intake for 2-year M.Tech. happens only once a year (for the July session), while the intake for the 3-year M.Tech. and the Sponsored M.Tech. typically happens twice a year (for the July and January sessions). [In 2020, the CSE department launched a new M.Tech. programme in Networks and Information Security keeping in mind the national interest and demand in this area. The programme provides advanced training in research and development in the theoretical and practical aspects of networks and information security.](#)

The CSE department does not offer a part-time M.Tech. programme. Admission to the M.Tech. programme is solicited in the following categories for the **July 2021 session**:

1. **2-Year M.Tech. in Computer Science and Engineering, under the following admission modes:**
 - a. MHRD-sponsored (GATE qualified)
 - b. Government Lab/ Public Sector Undertaking (PSU)-sponsored
 - c. Self-Sponsored/Industry (Employer) Sponsored

2. **2-Year M.Tech. in Networks and Information Security, under the following admission modes:**
 - a. MHRD-sponsored (GATE qualified)
 - b. Self-Sponsored/Industry (employer) Sponsored

3. **3-Year M.Tech. in Computer Science and Engineering, under the following admission modes:**
 - a. MHRD sponsored (GATE qualified)
 - b. Project Sponsored (GATE qualification necessary)
 - c. Project Sponsored, with 6 months experience in IITH (GATE qualification not necessary)

Regarding modes of funding/sponsorship:

The following points explain the various modes of funding for the different categories mentioned above:

- Students admitted under the MHRD-sponsored mode into any of the above programmes will receive a stipend from MHRD (Ministry of Human Resource Development, Govt. of India) as per programme guidelines.
- Students admitted into the 3-year M.Tech. programme under Project Sponsored mode receive a stipend from the funds of the project (which may be Govt. or Industry sponsored) that they conduct research on during the programme.
- Students admitted in the Govt/PSU-sponsored categories are subject to rules and regulations of the sponsoring organization.
- Students admitted in the Self or Industry-sponsored modes do not receive a stipend.

For the fee structure for each of the above programmes and admission modes, please refer to <https://iith.ac.in/academics/fee-structure/> .

For the latest updates regarding admissions including eligibility criteria, selection procedure and other clarifications, candidates are requested to check the CSE MTech admissions webpage: <https://cse.iith.ac.in/admissions/mtech.html>.

Call for applications and other details about the M.Tech. in Data Science (MDS) programme, exclusively for working professionals (self-sponsored mode only) including Eligibility criteria, selection procedure will be updated on our MDS page (<https://cse.iith.ac.in/admissions/mtechInDataScience.html>).

For details on the selection process for each programme and modes of admission, please see Section III below.

II. Eligibility Criteria:

2-Year M.Tech. in Computer Science and Engineering:

1. *MHRD sponsored (GATE qualified):*
 - a. A 4-year B.Tech./B.E. degree in any engineering discipline or an MSc/MS/MCA degree in CS/IT/Maths, and an excellent academic record. Candidates having professional qualifications recognized by AICTE, like AMIE, are also eligible to apply, **AND**
 - b. The candidate should have demonstrated adequate background in computer science (Valid GATE score in CS/IT).
 - c. As an exception to point (b) above, B.Tech/MSc/MS/MCA students from IITs and IISc with a CPI of at least 8.0 (7.5 for SC/ST candidates) will be granted a waiver from GATE requirement.
2. *Govt. Lab/PSU-sponsored (where the employer (a Govt. Lab or PSU) sponsors the expenses of the programme):*

- a. A 4-year B.Tech./B.E. degree in any engineering discipline or an MSc/MS/MCA degree in CS/IT/Maths, and an excellent academic record. Candidates having professional qualifications recognized by AICTE, like AMIE, are also eligible to apply, **AND**
 - b. A sponsorship letter from the employer (A Govt. Lab/ PSU) needs to be produced at the time of the selection interview (for details on selection process, see Section III below), **AND**
 - c. The applicant must be a regular employee of the sponsoring organization with at least **two years** of professional experience in the respective field.
3. *Self-Sponsored / Industry Sponsored:*
- a. A 4-year B.Tech./B.E. degree in CS/IT/Maths or an MSc/MS/MCA degree in CS/IT/Maths, and an excellent academic record. Candidates having professional qualifications recognized by AICTE, like AMIE, are also eligible to apply.
 - b. For the Industry-Sponsored mode, a sponsorship letter from the employer needs to be produced at the time of the selection interview (for details on the selection process, see Section III below).

2-Year M.Tech. in Networks and Information Security

1. *MHRD sponsored (GATE qualified):*
- a. A 4-year B.Tech./B.E. degree in any engineering discipline or an MSc/MS/MCA degree in ECE/Statistics/CS/IT/Maths, with an excellent academic record. Candidates having professional qualifications recognized by AICTE, like AMIE, are also eligible to apply, **AND**
 - b. The candidate should have a valid GATE score in CS/IT/ECE/Statistics/Maths.
2. *Self-Sponsored / Industry Sponsored*
- a. A B.Tech./B.E. degree in ECE/Statistics/CS/IT/Maths or an MSc/MS/MCA degree in ECE/Statistics/CS/IT/Maths with an excellent academic record. **Candidates having professional qualifications recognized by AICTE, like AMIE, are also eligible to apply.**
 - b. In case of Industry-Sponsorship, a sponsorship letter from the employer needs to be produced at the time of the selection interview (for details on the selection process, see Section III below).

3-Year M.Tech. in Computer Science and Engineering:

Note: Candidates applying in the Project-Sponsored mode will also be considered for the MHRD-sponsored mode seats, and vice-versa, during the selection process

1. *MHRD Sponsored (GATE qualified):*
- a. A 4-year B.Tech./B.E. degree in any engineering discipline or an MSc/MS/MCA degree in CS/IT/Maths, and with an excellent academic record. Candidates having professional qualifications recognized by AICTE, like AMIE, are also eligible to apply, **AND**
 - b. The candidate should have demonstrated adequate background in computer science (Valid GATE score in CS/IT).
2. *Project Sponsored (GATE qualification necessary):*
- a. A 4-year B.Tech./B.E. degree in any engineering discipline or an MSc/MS/MCA degree in CS/IT/Maths, and with an excellent academic record. Candidates having

professional qualifications recognized by AICTE, like AMIE, are also eligible to apply, **AND**

- b. The candidate should have demonstrated adequate background in computer science (Valid GATE score in CS/IT).
3. *Project Sponsored, with 6 months IITH experience (GATE qualification not necessary):*
- a. A 4-year B.Tech./B.E. degree in any engineering discipline or an MSc/MS/MCA degree in ECE/Statistics/CS/IT/Maths, and have an excellent academic record. Candidates having professional qualifications recognized by AICTE, like AMIE, are also eligible to apply, **AND**
 - b. The candidate must be currently involved in a project with a faculty at IITH, and the current supervisor's project funds sponsor the expenses of the M.Tech. Programme, **AND**
 - c. A sponsorship letter from the project supervisor needs to be produced at the time of the selection interview (see details of selection process in Section III below).

III. Selection procedure and Important Points:

2-year M.Tech. Programme, MHRD-Sponsored mode:

1. Admission to the 2-year M.Tech. programmes (both Computer Science and Network and Information Security) under MHRD-sponsored mode is guided primarily by GATE score cut-offs, and follow-up interviews if required. Admission offers will be made via COAP (Common Offer Acceptance Portal). The department may conduct further rounds of written tests and interviews after COAP to fill any unfilled seats. Please check our website (<https://www.cse.iith.ac.in/admissions/mtech.html>) for details and updates on the admissions process.
2. Candidates admitted under this mode will be required to carry out a Teaching Assistantship (TA) through the duration of the programme. A stipend will be paid according to MHRD (Govt. of India) guidelines.
3. As stated in Section II, an exception to the stated eligibility criteria is: B.Tech/MSc/MS/MCA students from IITs and IISc with a CPI (CGPA) of at least 8.0 (7.5 for SC/ST candidates) will be granted a waiver from GATE requirement. However they will have to appear for a written test and interview, where they will be tested on programming skills and knowledge of basic CS subjects.

2-year M.Tech. Programmes, Govt. Lab/PSU sponsored, Self/Industry Sponsored modes:

1. Admissions will be based on an entrance exam followed by interviews for shortlisted candidates. Valid GATE scores are highly recommended, but not mandatory for these categories. The written test and interviews for these categories will test the candidates on standard topics in an undergraduate Computer Science syllabus.
2. Prior research exposure and/or industry experience are also considered while selecting candidates in these modes.
3. Candidates applying under the Govt. Lab/PSU-Sponsored mode must be a regular employee of the sponsoring organization with at least **two years** of professional experience in the

respective field. The candidate must bring a letter during the interview confirming the employer's agreement to sponsoring the programme for the candidate.

4. Further details regarding the Self/Industry-Sponsored M.Tech. programme including selection procedure and fee structure will be updated on our admissions page.

3-year M.Tech. in Computer Science Programme, all modes:

1. Admission to the 3-year M.Tech. Programme will be based on an entrance exam followed by interviews for shortlisted candidates. The department may use other application parameters including GATE score for shortlisting candidates. Interviews test the candidates on standard topics in a Computer Science syllabus (data structures, programming, theory of computation, algorithms, networking, OS, DBMS, etc).
2. Students in a 3-year M.Tech. programme complete the same amount of coursework as 2-year M.Tech. students but are additionally involved in sponsored research projects and get sufficient time in each semester to work on research.
3. Admitted students will receive a stipend as per MHRD (Govt. of India) or research project guidelines respectively, for Research Assistantship (RA), depending on mode of admission.
4. Prior research exposure and/or industry experience are also considered while selecting candidates in these categories.
5. Candidates applying in the Project-Sponsored Category will also be considered for the MHRD-sponsored category seats, and vice versa, during the selection process.

Points common to all admission modes and programmes:

1. The department also has the provision for students in the M.Tech. programme to convert to Ph.D. during the programme.
2. Candidates still to appear in their qualifying degree examinations may also apply, provided they appear in all their qualifying degree examinations and complete all requirements for their degrees at least a month before the joining semester. If selected, such candidates shall be admitted provisionally, and they will have to furnish the results of their qualifying degree examinations on joining. Further, they must fulfill the minimum requirements of marks/CPI, and other conditions like valid GATE score, etc., as mentioned under eligibility criteria for respective programmes. Failure to fulfill any of these requirements shall automatically result in cancellation of admission.
3. The department reserves the right to set any cut off criteria for shortlisting the candidates. The shortlisted candidates will be called for an exam/interview as required. The department reserves the right to conduct interviews for admission to the 2-year M.Tech. programme even if the applicant has a valid GATE score. The department has the right not to select any candidates if appropriate candidates are not found.

IV. Documents:

The following certificates are to be produced by the candidates in original at the time of interview for verification:

1. Degree / Diploma Certificates or provisional certificates from the competent authority of the University or Institute concerned. (In case of candidates whose results are awaited, producing the mark sheets / grade card will be sufficient. However, if selected, they have to produce the certificate mentioned, for verification, at the time of admission)
2. All Mark sheets / Grade Cards of your qualifying examinations
3. OBC/SC/ST Certificate, if applicable
4. Sponsorship Letter, if applicable
5. Publications, if applicable
6. No objection certificate from the present employer, if applicable
7. Documentary evidence establishing current employment, if applicable

For updates and latest information, interested candidates are requested to periodically check:
<https://www.cse.iith.ac.in/admissions/mtech.html>.