



# भारतीय प्रौद्योगिकी संस्थान पटना

## Indian Institute of Technology Patna

### Admission to M. Tech. Programme for Academic Session 2023-24

Advt. No. IITP/ACAD/M. Tech/2023/01

Date: 30.03.2023

Applications are invited for admission to the Master of Technology (M. Tech.) programs starting in July 2023. The programs are of two years duration. The details of the programs offered by Departments and specializations are as follows:

Departments	Specializations	Seats Available*
Department of Civil & Environmental Engineering	Civil Engineering	<b>Total: 24</b> Regular & Full time – 19 Sponsored – 05
Department of Civil & Environmental Engineering	Structural Engineering	<b>Total: 20</b> Regular & Full time – 15 Sponsored – 05
Department of Civil & Environmental Engineering	Geotechnical Engineering	<b>Total: 20</b> Regular & Full time – 15 Sponsored – 05
Department of Computer Science & Engineering	Computer Science & Engineering	<b>Total: 30</b> Regular & Full time – 25 Sponsored – 05
Department of Computer Science & Engineering	Artificial Intelligence	<b>Total: 50</b> Regular & Full time – 20 Sponsored – 30
Department of Chemical and Biochemical Engineering	Chemical Engineering	<b>Total: 20</b> Regular & Full time – 15 Sponsored – 05
Department of Mathematics (Jointly with Department of Computer Science & Engineering)	Mathematics and Computing	<b>Total: 24</b> Regular & Full time – 19 Sponsored – 05
Department of Electrical Engineering	VLSI & Embedded Systems	<b>Total: 17</b> Regular & Full time – 12 Sponsored – 05
Department of Electrical Engineering	Power and Control System Engineering	<b>Total: 15</b> Regular & Full time – 10 Sponsored – 05
Department of Electrical Engineering	Communication Systems and Signal Processing	<b>Total: 24</b> Regular & Full time – 19 Sponsored – 05
Department of Mechanical Engineering	Thermal & Fluids Engineering	<b>Total: 20</b> Regular & Full time – 15 Sponsored – 05
Department of Mechanical Engineering	Mechanical Design	<b>Total: 20</b> Regular & Full time – 15 Sponsored – 05
Department of Mechanical Engineering	Advanced Manufacturing Technology	<b>Total: 20</b> Regular & Full time – 15 Sponsored – 05
Department of Mechanical Engineering	Mechatronics	<b>Total: 24</b> Regular & Full time – 19 Sponsored – 05

Department of Metallurgical & Materials Engineering	Materials Science & Engineering	<b>Total: 23</b> Regular & Full time – 18 Sponsored – 05
<b>*Reservation of Seats: As per Govt. of India rules.</b>		

**IMPORTANT NOTE:** The candidates applying for Regular and full-time category (except Bachelor's degree holders from an Indian Institute of Technology with minimum CPI of 8.0.) **must fill in GATE Registration number and COAP Registration number correctly in the online application. Failing this, the application is liable to be rejected.**

## **CATEGORIES OF M. TECH. STUDENTS**

The Institute admits M. Tech. students under the following categories:

### **i) REGULAR (FULL –TIME)**

These are students who work full-time for their M. Tech. degrees and receive assistantships from the Institute or fellowship from any other organization/ funding agency.

### **ii) SPONSORED (FULL-TIME)**

A candidate in this category is sponsored by R&D organization, academic institution, governmental organization, or industry for doing M. Tech. in the Institute on a full-time basis. However, Valid GATE score is a standard requirement for admission. The applicant must be a regular employee of his/her organization with at least **two years** of experience at the time of admission and be engaged in professional work in the discipline in which admission is sought. He / She will not receive any financial support from the Institute.

### **iii) PROJECT STAFF**

This category refers to a student who is working on a sponsored project in the Institute and is admitted then to M. Tech Program to work on a full-time or part-time basis. **GATE qualification is a mandatory requirement for the Project Students who wish to pursue M. Tech. qualification.** The remaining duration of the project at the time of admission should be at least one year. If the project gets completed before the student completes his/her M. Tech Program, his/her category will be converted to self-financed Category.

### **iv) PART-TIME**

A student in this category is a professionally employed person (including the staff of IIT Patna), who pursues the M. Tech Program, while continuing the duties of his/her service. The Institute does not provide any assistantship to such a student.

**The sponsored category of seats which remains vacant may be filled from the Regular and Full-time category.**

## **Eligibility Criteria for Admission to M. Tech. Programme:**

### **I. REGULAR & FULL TIME**

The programme is open to candidates of all categories with Bachelor's Degree in Engineering / Technology / M Sc or equivalent professional degrees (AMIE, etc.) and having a valid GATE score. All regular category candidates (**except those having B.Tech. degrees from an IIT with a minimum CPI of 8.0**) must have **valid GATE score**. Candidates seeking admission to M. Tech. Programme of the Institute shall have to possess a minimum of 60% marks (or a CGPA of 6.5 in 10-point scale) for General/OBC/EWS categories and 55% marks (or a CGPA of 6.0 in 10-point scale) for SC/ST categories in the final qualifying examination. All selected candidates have to produce the certificate with regard to the marks secured in the final qualifying examination by **31-10-2023**. Reservation of Seats is as per Govt. of India rules. OBC (including OBC Minorities) (Non-creamy layer) candidates will have to produce certificate and self-declaration statement, whenever required before admission, as per

prescribed format in annexure I and II (as applicable), available in the website.

***Additional Conditions for Candidates Still to Appear In Qualifying Examinations***

Candidates still to appear in their qualifying degree examinations may also apply, provided they appear in their qualifying degree examinations and complete all requirements for their degrees before date of registration to M. Tech programme at IIT Patna in **July 2023**. If selected, such candidates shall be admitted provisionally, and they will have to furnish the results of their qualifying degree examinations **latest by 31-10-2023**. Further, they must fulfill the minimum requirements of marks/CGPA/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.

**Selection Procedure**

Selection is based on performance in GATE for Regular and Full-time category this year through **COAP**. For sponsored (Employee, sponsored and/or Employed & Par-Time) categories, written test/interview shall be conducted. **The eligibility and the GATE papers for the M. Tech. programmes are given below:**

M. Tech in Civil Engineering	B. Tech/B.E. degree or equivalent in Civil, Infrastructure, Construction Engineering with valid GATE score in CE.
M. Tech in Structural Engineering	B. Tech/B.E. degree or equivalent in Civil, Infrastructure, Construction Engineering with valid GATE score in CE.
M. Tech in Geotechnical Engineering	B. Tech/B.E. degree or equivalent in Civil, Infrastructure, Construction Engineering with valid GATE score in CE.
M. Tech. in Computer Science & Engineering	B. Tech./B.E. degree in Computer Science/Information Technology and a valid GATE score in CS.
M. Tech. in Artificial Intelligence	B. Tech./B.E. degree in Computer Science/IT/ECE/Aerospace Engineering/Maths & Computing/ME/Civil Engineering or Equivalent (a valid GATE score in CS/IT, EC, ME, CE for TA/RA/Part-time) M. Sc. in Mathematics/Statistics/Mathematics & Computing (valid GATE score in MA or CS/IT, EC, ME, CE for TA/RA/Part-time). For Sponsored: 1-2 years of experience (GATE not required).
M. Tech in Chemical Engineering	B.Tech./B.E. degree or equivalent in Chemical Engineering/Technology, Biochemical Engineering, Biotechnology & Biochemical Engineering, Biotechnology, Environmental Engineering, Metallurgy, Material Science/Engineering, Polymer Science/Technology, Mechanical Engineering, or Petroleum Engineering. Valid GATE score in CH, ME, BT, MT, or XE.
M. Tech. in Mathematics and Computing	M.Sc. in Mathematics/Statistics/Mathematics & Computing or Equivalent or B.Tech./B.E. degree in Computer Science/IT/ECE/Aerospace Engineering/Maths & Computing or Equivalent and a valid GATE score in MA, CS, EC. Statistics to be considered as valid GATE paper.
M. Tech in VLSI & Embedded Systems	B. Tech. / B. E. / B. Sc. (Engineering) degree in Electrical/Electronics/Communication/Instrumentations Engineering/Computer Science & Engineering with Valid GATE score in one of EE, EC, IN, CS discipline or M.Sc. (Physics/Electronics) with valid GATE score in EC, IN.
M. Tech in Power and Control	B. Tech in Electrical/Electrical and Electronics/Control and Instrumentation Engineering with a valid GATE score in EE, IN
M. Tech. in Communication System Engineering	B.Tech./B.E. degree in Electrical Engineering/Electronics & Communication and a valid GATE score in EC.

M. Tech. in Thermal & Fluids Engineering	B.Tech./B.E. in Aerospace, Aeronautical, Automobile, Production, Manufacturing or Mechanical Engineering and a valid GATE score in AE, ME and PI.
M. Tech. in Mechanical Design	B.Tech./B.E. in Aerospace, Aeronautical, Automobile, Production, Manufacturing or Mechanical Engineering and a valid GATE score in AE, ME and PI.
M. Tech. in Advanced Manufacturing Technology	B.Tech./B.E. in Aerospace, Aeronautical, Automobile, Production, Manufacturing or Mechanical Engineering and a valid GATE score in AE, ME and PI.
M. Tech. in Mechatronics	B.Tech./B.E. degree in Mechanical / Production /Aerospace/ Electrical/ Electronics & Communication/ Instrumentation Engineering or MSc in Electronics and Instrumentation and valid GATE score in ME, PI, AE, EE, EC, IN, PH, XE.
M. Tech. in Materials Science & Engineering	B.Tech./B.E. degree in Metallurgy, Ceramic, Polymer Science /Technology, Plastics Science/Technology, Rubber Science/Technology, Mechanical Engineering, Chemical Engineering/Technology, Nanotechnology, Materials Science/Engineering OR M. Sc./Equivalent in Physics, Applied Physics, Chemistry, Applied Chemistry, Polymer Science/Technology, Plastics Science/Technology, Rubber Science, Chemical Engineering/Technology, Nanotechnology, Materials Science/Engineering. All candidates must have valid GATE score in one of these GATE paper codes MT, CH, ME, PH, CY and XE (only candidates who opted for either Materials Science or Polymer Science and Engineering section).

## II. SPONSORED

An applicant employed in an industry or any other recognized organization/institution with at least two years of experience is eligible for admission to the M. Tech. programmes provided the applicant is sponsored by the employer. Marks/CGPA/CPI criteria in the final qualifying exam will be same as prescribed for regular & full-time category. For sponsored applicants, GATE score is not mandatory and they are not eligible for assistantship. Candidate applying for Sponsored Full-Time categories must be a regular employee of the sponsoring organization with at least 2(two) years of professional experience in the respective field. Selection of these candidates is based on performance in Written Test and/or Personal Interview of short-listed candidates. Such applicants must keep ready duly endorsed Form I (Sponsorship letter, available in website) before the last date of application and produce it whenever required.

## III. PROJECT STAFF

Candidate should be working on a sponsored project in the Institute. The remaining duration of the project at the time of admission should be at least one year. If the project gets completed before the student completes his/her M. Tech Program, his/her category will be converted to self-financed Category. Marks/CGPA/CPI criteria in the final qualifying exam will be same as prescribed for regular & full-time category. Selection of these candidates is based on performance in Written Test and/or Personal Interview of short-listed candidates. **GATE qualification is a mandatory requirement for the Project Students who wish to pursue M. Tech. qualification.** Such applicants must keep ready duly endorsed Form II: No Objection Certificate from Dean/ Associate Dean (R&D), IIT Patna, for Project Staff category (available in website) before the last date of application and produce it whenever required.

## IV. PART-TIME

A student in this category is a professionally employed person (including the staff of IIT Patna), who pursues the M. Tech Program, while continuing the duties of his/her service. The Institute does not provide any assistantship to such a student. Marks/CGPA/CPI criteria in the final qualifying exam will be same as prescribed for regular & full-time category. Selection of these candidates is based on performance in Written Test and/or Personal Interview of short-listed candidates. Such applicants must keep ready duly endorsed Form III: No Objection Certificate from the employer for Part-time category (available in website) before the last date of application and produce it whenever required.

## **Financial Support**

### **A. Regular & Full Time**

1. Assistantships are provided to regular students (Indian nationals) at the rate of Rs.12,400/- per month, with valid and qualifying GATE score above the prescribed cut off level for M. Tech. programme. *GATE score requirement is exempted for students with Bachelor's degree from an Indian Institute of Technology (IIT) with minimum CPI of 8.0.*
2. Assistantships from external funding organizations will be available as per terms and conditions of the concerned funding organizations.
3. Students receiving assistantships from the Institute or from any other funding agencies are required to perform academic duties as per prevailing norms.
4. The continuation of the assistantship is subject to satisfactory performance of the assigned duties and satisfactory progress of the student in the M. Tech. programme.
5. Financial assistantship will be for a maximum period of 2(two) years (till the completion of end semester examination of second year).

**B. Project staff category:** Assistantship may be provided to students in project staff category as per the norms of the project funding agency. No assistantship will be provided from the institute.

**C. No assistantship will be provided to the students of Sponsored category and Part-time category.**

- **Application Procedure:**

The details of application fee are given below:

Category	Male	Female
GEN/EWS/OBC-NCL	Rs 1000/-	Rs 500/-
SC/ST/PwD	Rs 500/-	Rs 500/-

The application fee should be submitted very carefully online through SBI Collect. The link for payment is given below. Application fee shall not be refunded. After the payment, a reference/journal number will be generated, which must be mentioned in the application form and the printed e-receipt of payment must be preserved. Application, without fee, shall be summarily rejected.

- **Link for payment:** <https://www.onlinesbi.com/sbicollect/icollecthome.htm?corpID=595859>

Candidates are required to use the following link to fill and submit application form online (**Please read complete advertisement very carefully before applying online. Mistakes must be avoided. To avoid internet congestion, candidates are advised not to wait for the last date of application**)

- **Link for application:** [https://www.iitp.ac.in/mtech\\_admission/mtech/mtech\\_form](https://www.iitp.ac.in/mtech_admission/mtech/mtech_form)
- Candidates, applying for more than one specialization, must submit a separate application with **separate application fee.**
- **The candidates are NOT required to send any document through post at present. The self-attested copies of mark sheets & certificates (from class X to highest degree obtained/appeared), caste certificate (if applicable), GATE/Relevant certificate, experience certificate, other testimonials, (both sides) and printed e-receipt of online payment must be produced whenever required, failing which the candidature is liable to be rejected.**
- **The selection shall be purely provisional and subject to verification of documents at a later stage.**
- **No call letter will be sent by post. The candidates should check email (including junk/spam) and website regularly for important information.**
- **Selection:**  
The Institute reserves the right to call a limited number of candidates, based on performance in GATE, grades/marks in the qualifying examination, etc and merely fulfilling minimum eligibility criteria does not guarantee selection.

**Important Dates:**

**Start Date of On-line Application: 30.03.2023**

**Closing Date of On-line Application: 20.04.2023**

**Note: The above information is not the complete set of Rules & Regulations for the M. Tech. programmes at IIT Patna.**

**Important: - One should not drop /leave the programme before course completion. Selected candidates shall have to submit an undertaking/declaration at the time of admission for refunding fellowship/assistantship drawn from the institute in the case of resignation from the programme.**

**Helpline:** Please note that no correspondence / query shall be entertained regarding correction of mistake(s) in the submitted application, details already available in the advertisement and irrelevant matters. First issues/problems should be identified strictly as provided in the following table and write ONLY to the concerned email id mentioned against the issues.

Sl. No.	Issues	Contact point
1.	Technical issues regarding online application	<a href="mailto:praveenk@iitp.ac.in">praveenk@iitp.ac.in</a>
2.	Academic matter	<a href="mailto:arademic@iitp.ac.in">arademic@iitp.ac.in</a> 06115-233-240/697
3.	Fee -payment/ SBI collect link	<a href="mailto:arfa@iitp.ac.in">arfa@iitp.ac.in</a> 06115-233-062

**Legal Jurisdiction:** The court at Patna alone shall have the jurisdiction to settle and decide all matters and disputes related to the above referred admission process.