



# Indian Institute of Technology Jodhpur

Office of Academics

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## Admission to M.Tech. and M.Tech.-Ph.D Dual Degree Programmes, AY 2021-22

Applications are invited for admission to M.Tech. and M.Tech.-Ph.D Dual Degree programmes in the first semester of 2021-2022.

These M.Tech. and M.Tech.-Ph.D Dual Degree programmes have been designed to empower students with the latest in technology, including hands-on, with a strong foundation for multi-disciplinary innovation.

S.N.	Department	Program
1	Bioscience and Bioengineering	M.Tech. and M. Tech.-Ph.D. Dual Degree in Bioscience and Bioengineering
2	Computer Science and Engineering	M.Tech. and M.Tech.-Ph.D Dual Degree in Artificial Intelligence M.Tech. and M.Tech.-Ph.D. Dual Degree in Computer Science and Engineering
3	Electrical Engineering	M.Tech. and M.Tech.-Ph.D. Dual Degree in Sensors and Internet of Things M.Tech. and M.Tech.-Ph.D. Dual Degree in Cyber Physical Systems Dual degree M.Tech.-Ph.D. in Communication and Signal Processing
4	Mathematics	M.Tech. and M.Tech-Ph.D. Dual Degree in Data and Computational Sciences
5	Mechanical Engineering	M.Tech. in Advanced Manufacturing and Design M.Tech. and M.Tech-Ph.D Dual Degree in Thermofluids Engineering M.Tech.-Ph.D. Dual Degree in Advanced Manufacturing M.Tech.-Ph.D. Dual Degree in Mechanical Design
6	Metallurgical and Materials Engineering	M.Tech. and M.Tech.-Ph.D. Dual Degree in Materials Engineering
7	Chemical Engineering	M.Tech. and M.Tech.-Ph.D. Dual Degree in Chemical Engineering
8	Civil and Infrastructure Engineering	M.Tech. and M.Tech-Ph.D Dual Degree in Infrastructure Engineering with specialization in Environmental Engineering M.Tech. and M.Tech.-Ph.D Dual Degree in Infrastructure Engineering with specialization in Energy

These programmes will admit eligible full-time regular candidates with/without assistantships, self-sponsored candidates as well as working professionals as part-time/external/full-time sponsored candidates. The details of these categories are summarized as follows:

**(a) M.Tech. Admissions Categories:** A candidate can be admitted in M.Tech. program in any one of the following categories:

- (i) *Full-time Regular eligible for Assistantship/Fellowship:* In campus candidate who can register for up to full permissible credits per semester. A fixed number of full-time candidates having a valid GATE Score will get financial support as per MHRD notified rate. A full-time student with a valid GATE Score can also get financial support from sponsored research project funded by an industry or a government agency at a rate equivalent to or higher than MHRD stipulated rate.
- (ii) *Full-time Regular without Assistantship/Fellowship:* In campus candidate who can register for up to full permissible credits per semester. A GATE qualified candidate will be admitted under this category without financial support. The admitted candidate may be awarded fellowship in the subsequent semester based upon availability of financial resources. All candidates admitted under this category, will be paying the same fees as applicable to the category *Full-time Regular eligible for Assistantship/Fellowship*.
- (iii) *Self-sponsored:* In campus candidate who can register for up to full permissible credits per semester but is not eligible to receive fellowship. These candidates will be self-sponsored and will be paying fees as per rates notified for this category of students.
- (iv) *Full-time Sponsored:* In campus candidate who can register for up to full credit permissible per semester and is sponsored by his/her employer. Sponsorship fees will be notified by the institute.
- (v) *Part-time:* A part-time candidate is a working professional who, while employed, attend regular classes as per the schedule of the Institute. The student must be employed in the neighbourhood of IIT Jodhpur. The student must produce a NOC from the employer for pursuing the programme at IIT Jodhpur. The student can register only for a limited number of credits as compared to a full-time regular student. A per credit tuition fee will be specified.
- (vi) *Part-time (online):* A part-time (online) candidate is a working professional who, while employed, attend classes in a synchronous audio-visual mode over internet as per the schedule of the Institute including limited contact sessions. The student is expected to register for limited number of credits per semester. The student should not be employed in the neighbourhood of IIT Jodhpur. The student must produce a NOC from the employer for pursuing the programme at IIT Jodhpur. The student can register only for a limited number of credits as compared to a full-time regular student. A per credit tuition fee will be specified.
- (vii) *Part-time (Project sponsored):* A part-time candidate receiving fellowship at least at the MHRD stipulated rate being supported through research projects running in the

institute. The student can register only for a limited number of credits as compared to a full-time regular student. The student is expected to receive fellowship for minimum of 36 months. The student will be paying fees at the same rate as that of full time GATE Qualified candidates. The Department will process the applications ONLY if such a position is available in the respective M. Tech. program.

**(b) M.Tech.-Ph.D. Admissions Categories:** A candidate can be admitted in M.Tech.-Ph.D. program in any one of the following categories:

- (i) *Full-time Regular with Fellowship:* In campus candidate who can register for up to full permissible credit per semester during course work. All full time candidates having a valid GATE Score will get fellowship applicable for Ph.D. students as per MHRD notified rate. A full time student with a valid GATE Score can also get financial support from a sponsored research project funded by an industry or a government agency at a rate equivalent to or higher than MHRD stipulated rate. All candidates admitted under this category will be paying the same fees as applicable to this category as notified by the institute.
- (ii) *Part-time:* A part-time candidate is a working professional who, while employed, attend regular classes as per the schedule of the Institute. The student must be employed in the neighbourhood of IIT Jodhpur. The student must produce a NOC from the employer for pursuing the programme at IIT Jodhpur. The student can register only for a limited number of credits as compared to a full-time regular student.
- (iii) *External:* A candidate working in an industry/R&D establishment/academic institution which is equipped with the necessary research and library facilities. The employer must relieve the student to stay in the campus to complete the minimum residency requirements.
- (iv) *Part-time (online):* A part-time (online) candidate is a working professional who, while employed, attend classes in a synchronous audio-visual mode as per the schedule of the Institute including limited contact sessions. The student is expected to register for limited number of credits per semester. The student will need to spend at least 12 months in the campus before submission of the Ph.D thesis distributed over the entire period of the programme as per the academic requirement. The student must produce a NOC from the employer for pursuing the programme at IIT Jodhpur certifying that the employer will also provide access to resources for proper execution of the research work.

#### **A. Application Procedure**

Applicants are requested to use the following link to fill and submit the application form online:

[https://oa.iitj.ac.in/OA\\_PG\\_ADMISSION](https://oa.iitj.ac.in/OA_PG_ADMISSION)

For admission to the 2021-22 First Semester commencing in August 2021, this online link will remain active till **20 April, 2021**.

Applicants are required to pay the processing fee of Rs.300 for General and OBC applicants and Rs.150 for SC, ST, and PD applicants online while submitting the application form.

**In case of any query with respect to online application, candidates may contact Office of Academics (office\_academics\_pg@iitj.ac.in) and other general queries may be directed to the offices of the respective departments (See Section G of this letter).**

All qualified applicants, interested to apply for M.Tech. programme under the admission category *Full-time Regular eligible for Assistantship/Fellowship*, should register first in the *Common Offer Acceptance Portal (COAP)*. After successful completion of registration at COAP 2021, applicants will receive the "COAP Registration No.", which is essential to apply online at IIT Jodhpur. The "COAP Registration No." is further required for making decision against admission offers during the time windows to be announced on the COAP 2021 portal. *For candidate without GATE (i.e B.Tech. from CFTIs, part-time, sponsored and external) will be informed directly by the IIT Jodhpur.*

**B.** The admissions to M.Tech. Program is also offered to foreign nationals under different schemes administered by Government of India, such as Cultural Exchange Fellowship Programme by Indian Council of Cultural Relations (ICCR), Study in India and others. Persons interested in these programmes are required to apply through the Indian High Commission/Embassy in their respective countries. For general queries, international candidates may refer to <http://iitj.ac.in/intladm/>.

Applicants from Defence Forces may be considered for admission to the external M.Tech. programme. Eligibility criteria for applicants from Defence Forces will be the same as that of the regular students with an exemption of GATE score. The program will be governed by the academic norms of the IITJ. The respective organization has to ensure and undertake the responsibility for giving adequate facilities and time to the officer during the Coursework and Thesis/Project work.

### **C. Eligibility for Admission**

The eligibility criteria prescribed below are the absolute minimum. *Kindly make a note that the eligibility for admissions to different Dual degree (M.Tech.-Ph.D.) programs will be the same as regular M.Tech. programs of the concerned Department.* The general eligibility criteria for admissions is as follows:

- (i) The applicant must have bachelor's degree in engineering or science (4 year program) or a master's degree in science, MCA, Pharmacy, Medical Sciences, Agricultural Sciences and Veterinary Sciences or in a related field.

- (ii) A minimum of 60% marks for GEN/OBC (55% for SC/ST/PD) category in aggregate or as specified by the university/institute or a minimum CGPA of 6.0 for GEN/OBC (5.5 for SC/ST/PD) category on the scale of 10; with corresponding proportional requirements when the scales are other than on 10 (for example 4.8 for GEN/OBC category (4.4 for SC/ST/PD) on a scale of 8) or a first-class as specified by the university/institute. **The candidates from the CFTI having CGPA/CPI more than 8 may be given preference.**
- (iii) *Full-time Regular eligible for Assistantship/Fellowship:* The applicant must either have a valid GATE score or exempted from GATE as per MHRD circular or have qualified an equivalent National Examination or have qualified in the written test and/or interview conducted by IIT Jodhpur.

OR

*For Part-time/ Part-time (online)/ External/ Employer Sponsored:* The applicant must have a minimum of two years of work experience (after qualifying degree) in industry/R&D laboratories/Academic Institutions at the time of registration to the program. The applicant must qualify the written test and/or interview conducted by IIT Jodhpur.

The qualifying degree and GATE requirements (only for *Full-time Regular eligible for Assistantship/Fellowship* and *Full-time Regular without Assistantship/Fellowship*), specific to different M.Tech. programs, can be summarized as follows:

(1) For Bioscience and Bioengineering:

Qualifying Degree	GATE Requirements
B.Tech., B.E. or B.Sc.	Valid GATE score (Students from all Masters and Engineering backgrounds with training in biology or applied fields may apply)
M.Sc	
B. Tech. from any of the CFTIs with CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted

(2) For Artificial Intelligence:

Qualifying Degree	GATE Requirements
B.Tech or B.E. (any Branch of Engineering), M.Sc. (any discipline), M.C.A.	Valid GATE score (CS/ IT/ EE/ EC)
B. Tech. from any of the CFTIs (any branch of Engineering) with CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted

(3) For Computer Science and Engineering:

Qualifying Degree	GATE Requirements
B.Tech or B.E. (Computer Science and Engineering; Computer Engineering;	Valid GATE score (in CS/ IT)

Information Technology; Computer Science; Electronics Engineering; Electrical Engineering; Communication Engineering; Artificial Intelligence; or any other degree name involving a combination of above disciplines)	
B. Tech. (Computer Science and Engineering; Computer Engineering; Information Technology; Computer Science; Electronics Engineering; Electrical Engineering; Communication Engineering; Artificial Intelligence; or any other degree name involving a combination of above disciplines) from any of the CFTIs with CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted

(4) For Sensors and Internet of Things:

Qualifying Degree	GATE Requirements
B. Tech., B.E. or B.Sc. (Engineering) in Electrical Engineering/ Electronics and Communication Engineering/ Instrumentation Engineering/ Computer Science and Engineering	Valid GATE score in EE/EC/IN/CS
B. Tech. in Electrical Engineering/ Electronics and Communication Engineering/ Instrumentation Engineering/ Computer Science and Engineering from any of the CFTIs with CPI or CGPA of 8/10 or above	The requirement of valid GATE score is exempted

(5) For Cyber Physical Systems:

Qualifying Degree	GATE Requirements
B. Tech., B.E. or B.Sc. (Engineering) in Electrical Engineering/ Electronics and Communication Engineering/ Instrumentation Engineering/ Computer Science and Engineering	Valid GATE score in EE/EC/IN/CS
B. Tech. in Electrical Engineering/ Electronics and Communication Engineering/ Instrumentation Engineering/ Computer Science and Engineering from any of the CFTIs with CPI or CGPA of 8/10 or above	The requirement of valid GATE score is exempted

(6) For Communication and Signal Processing:

Qualifying Degree	GATE Requirements
B. Tech., B.E. or B.Sc. (Engineering) in Electrical Engineering/ Electronics and Communication Engineering	Valid GATE score in EC
B. Tech. in Electrical Engineering/ Electronics and Communication Engineering from any of the CFTIs with CPI or CGPA of 8/10 or above	The requirement of valid GATE score is exempted

(7) For Data and Computational Sciences:

Qualifying Degree	GATE Requirements
B.Tech., B.E., M.Sc., or equivalent	Valid GATE score (Aerospace Engineering, Computer Science and Information Technology, Electronics and Communication Engineering, Electrical Engineering, Mathematics, Statistics, Engineering Sciences, Mechanical Engineering)
B. Tech. from any of the CFTIs with CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted

(8) For Advanced Manufacturing and Design/Advanced Manufacturing:

Qualifying Degree	GATE Requirements
B.Tech., B.E. or B.Sc. (Mechanical Engineering, Production Engineering, Aerospace Engineering, Mechatronics Engineering)	Valid GATE score (in Mechanical Engineering / Aerospace Engineering / Production and Industrial Engineering)
B. Tech. (Mechanical Engineering, Production Engineering, Aerospace Engineering, Mechatronics Engineering) from any of the CFTIs with CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted

(9) For Mechanical Design:

Qualifying Degree	GATE Requirements
B.Tech., B.E. or B.Sc. (Mechanical Engineering, Production Engineering, Aerospace Engineering, Mechatronics Engineering)	Valid GATE score (in Mechanical Engineering / Aerospace Engineering / Production and Industrial Engineering)
B. Tech. (Mechanical Engineering,	The requirement of valid GATE score is

Production Engineering, Aerospace Engineering, Mechatronics Engineering) from any of the CFTIs with CPI or CGPA 8/10 or above	exempted
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**(10) For Thermofluids Engineering:**

Qualifying Degree	GATE Requirements
B.Tech., B.E. or B.Sc. (Mechanical Engineering, Aerospace Engineering, Chemical Engineering and Power Plant Engineering)	Valid GATE score (in Mechanical Engineering / Aerospace Engineering / Chemical Engineering)
B. Tech. (Mechanical Engineering, Aerospace Engineering, Chemical Engineering and Power Plant Engineering) from any of the CFTIs with CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted

**(11) For Materials Engineering:**

Qualifying Degree	GATE Requirements
B.Tech., B.E. or B.Sc. (Engineering)	Valid GATE score (in Metallurgical Engineering or Mechanical Engineering or Engineering Sciences)
B. Tech. from any of the CFTIs with CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted

**(12) For Chemical Engineering:**

Qualifying Degree	GATE Requirements
B.Tech., B.E., B.Sc. (Engg), M.Sc., or equivalent in Chemical Engineering or allied discipline	Valid GATE score (in any discipline)
B. Tech. (Chemical Engineering or allied discipline) from any of the CFTIs with CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted

**(13) For Infrastructure Engineering with specialization in Environment Engineering:**

Qualifying Degree	GATE Requirements
B.Tech./B.E. or equivalent degree in Civil or Environmental Engineering	Valid GATE score (in any discipline)
B. Tech. in Civil or Environmental Engineering from any of the CFTIs with CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted



(14) For Infrastructure Engineering with specialization in Energy:

Qualifying Degree	GATE Requirements
B.Tech., B.E. or B.Sc. (Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, and Power Plant Engineering)	Valid GATE score (in Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering)
M.Sc. (Physics)	Valid GATE score (in Physics) or equivalent National level Examination
B. Tech. (Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, and Power Plant Engineering) from any of the CFTIs with CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted

#### **D. Financial Assistance**

*M.Tech. (Full-time Regular eligible for Assistantship/Fellowship)/ M.Tech.-Ph.D. (Full-time Regular with Fellowship)* students may be eligible for a monthly stipend in return for 8 hours of work per week of *Teaching or Research Assistantships*. For regular dual degree students, financial assistantship/fellowship will be at par with regular Ph.D. students.

#### **E. Reservation Policy**

The norms of reservation for different categories shall be adopted as laid down by the Ministry of Human Resource Development, Government of India.

#### **F. Important Dates**

Milestone	Date
Last date of filling online application form	20 April 2021
Announcement of short listed candidates for the admission process *	10 May 2021

\*The candidates shortlisted for the admission for different M.Tech. programme under admission category *Full-time Regular eligible for Assistantship/Fellowship* will be announced only on the *COAP 2021 portal*.

#### **G. Whom to contact**

In case of any query, the applicants may contact to the offices of the department, where you are applying to.

Department	Phone No.	Email
Bioscience and Bioengineering	0291-2801202	office_biology@iitj.ac.in
Computer Science and Engineering	0291-2801252	office_cse@iitj.ac.in
Electrical Engineering	0291-2801352	office_ee@iitj.ac.in
Mathematics	0291-2801252	office_mathematics@iitj.ac.in

Metallurgical and Materials Engineering	0291-2801502	office_materials@iitj.ac.in
Mechanical Engineering	0291-2801502	office_me@iitj.ac.in
Chemical Engineering	0290-2801502	office_che@iitj.ac.in
Civil and Infrastructure Engineering	0291-2801502	office_civil@iitj.ac.in