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Admission to M.Tech and M.Tech-Ph.D Dual Degree Programmes, AY 2020-21

Applications are invited for admission to M.Tech and M.Tech-Ph.D Dual Degree programmes in the first semester of 2020-2021.

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.No.	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 MTech-PhD 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 (MTech-PhD) 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 student 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. A student admitted under this category without financial support may be awarded fellowship in the subsequent semester based upon availability of financial resources. All candidates admitted under this category, even without fellowship, will be paying the same fees as applicable to this category.
- (ii) *Full-time Regular without Fellowship:* In campus student 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.
- (iii) *Full-time Sponsored:* In campus student 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.
- (iv) *Part-time:* A part-time student 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.
- (v) *Part-time (online):* A part-time (online) student 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.
- (vi) *Part-time (Project sponsored):* A part-time student 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.

(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 student 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 student 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 student 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) student 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

*For admission to the 2020-21 First Semester commencing in July 2020, this online link will remain active till **20April, 2020**.*

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, candidates may contact the Office of Academics (office_academics_pg@iitj.ac.in) for issues related to online application, Automation (oa_automation@iitj.ac.in) for payment related issues and other general queries may be directed to the offices of the respective departments/school/IDRPs (See Section G of this letter).

Applicants shortlisted for the written test and/or interview will be required to bring the final submitted application form duly signed along with a copy of a valid GATE score card at the time of written examination and/or interview.

All qualified applicants, interested to apply for M.Tech. admission, should register first in the *Common Offer Acceptance Portal (COAP)*. After successful completion of registration at COAP 2020, 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 2020 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 (MTech-PhD) 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.
- (iii) *(For Full time Regular Candidates with financial support)* 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/ 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 with 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
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(3) For Computer Science and Engineering:

Qualifying Degree	GATE Requirements
B.Tech or B.E. (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)	Valid GATE score (in CS/ IT)
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 (in any discipline)
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, 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

(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 CFTIswith CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted
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(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 CFTIswith 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 CFTIswith 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 CFTIswith 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 CFTIswith CPI or CGPA 8/10 or above	The requirement of valid GATE score is exempted

D. Financial Assistance

Full time regular M.Tech./Dual Degree 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/scholarship 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 2020
Announcement of short listed candidates for the admission process	25 April 2020
Date of written test and/or Interview	To be announced

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_bioscienceandbioengineering@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