Indian Institute of Technology Mandi

School of Civil and Environmental Engineering

School of Civil and Environmental Engineering invites applications for admissions in MTech (by Research) and PhD programs in **Civil and Environmental Engineering** domains for the semester commencing from February 2023.

Note: The School of Civil and Environmental Engineering reserves the right to recruit/ not recruit for any of the advertised areas.

Research specializations and eligibility for PhD Admissions:

Sl. No	Specialization	Qualifications for PhD admissions	Remarks / Instructions
1	Geotechnical Engineering	B. Tech in Civil/Mechanical Engineering + M. Tech in Geotechnical/Structural/Environmental /Transportation Engineering/ Solid or Thermo-fluid (Mechanical) Engineering or related areas + GATE Qualified	Select Geotechnical Engineering under specialization
2	Water Resource Engineering	B. Tech in Civil/Agriculture/ Environmental engineering or related areas + M.Tech. in Water Resources/Hydrology/Hydraulics/Hydrogeology/River Engineering/Irrigation/Hydroinformatics/Earth Sciences/Geomatics/Remote Sensing and GIS or related areas + GATE Qualified	Select Water Resource Engineering under specialization
3	Environmental Engineering	B. Tech in Civil/Agriculture/ Environmental engineering/Biotechnology or related areas + M.Tech. in Environmental Engineering/ Irrigation/Water Resources/ Hydrogeology/ Geo-environmental/Biochemical/ Biotechnology/ Agriculture Engineering or related areas + GATE Qualified Or MSc in Environmental science or related areas + NET/GATE Qualified	Select Environmental Engineering under specialization
4	Structural Engineering	B. Tech in Civil Engineering + M. Tech in Structural Engineering or related areas + GATE Qualified	Select Structural Engineering under specialization

Additionally, the candidates with B. Tech degree with exceptionally good academic record may apply for direct admission to regular full time PhD (Fellowship from the Institute) with following conditions:

- B.Tech/BE degree from Centrally Funded Technical Institutes with a minimum CGPA of 7.5 on a 10.0 point scale (or equivalent).

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OR

- B.Tech/BE degree from Non-Centrally Funded Technical Institutes with valid GATE or other equivalent national exam qualification and CGPA of at least 7.5 on a 10.0 point scale (or equivalent).

OR

- B.Tech/BE degree and serving for two years or more in a reputed R&D organisation and having a proven research record.

Applicants for admission to the Ph.D. programme shall be classified under any one of the following categories based on their eligibility and choices. Applicants must mention their admission category in the online form.

- Regular Full Time PhD (Fellowship from the Institute)
- Regular Full Time PhD (Fellowship from CSIR/NET/ICCR/DAE)
- Regular Full Time PhD (Self Sponsored)
- Part Time PhD (Sponsored from Govt/Semi-Govt/National Research Lab/Industry/Public Sector/Reputed Private Sector)
- Part Time PhD (Faculty Employed in Academic Institute at J&K/ Himachal Pradesh)
- Part Time PhD (Staff Employed in IIT Mandi)

Sl. No	PhD Admission Category	Minimum Requirements
1	Regular Full Time PhD (Fellowship from the Institute)	Candidates applying under regular full time category must have qualified GATE / JRF / NET or National Level Examinations conducted by MoE and its agencies and institutes such as IITs/CSIR/UGC/IISc/IISER etc. at least once in their academic career.
2	Regular Full Time PhD (Fellowship from CSIR/NET/ICCR/DAE)	The candidate must have a valid score card for availing the fellowship from the sponsored scheme. OR Candidates having documents proof for the financial supports from CSIR/NET/ICCR/DAE etc.
3	@Regular Full Time PhD (Fellowship from the Sponsored Project)	Candidates must have qualified Gate/JRF/NET or National Level Examinations conducted by MoE and its agencies and institutes such as IITs/CSIR/UGC/IISc/IISER etc. at least once in their academic career. The candidate must submit application against the project funded scholar advertisement and qualify the admission test and criterion as mentioned in the project advertisement.

4	Regular Full Time PhD (Self Sponsored)	The candidate must have at least two years of experience in the R&D section of reputed Industries / National Labratories / IITs / NITs / as JRF/SRF/RA or equivalent. GATE/UGC/CSIR/NET score is waived as they will not get financial assistantship from the institute.
5	#Part Time PhD (Sponsored from Govt/Semi-Govt/National Research Lab/Industry/Public Sector/Reputed Private Sector)	Candidates applying under part time category (Sponsored from Govt/Semi-Govt/National Research Lab/Industry/Public Sector/Reputed Private Sector) must have full time employment experience of two years' in the R&D section of the sponsoring agency. The experience duration should be in continuity of their service. AND The sponsoring organization/Institution must have at least 5 years of its existence. The candidate must produce NOC and sponsorship certificate from their employer. At the time of joining the programme, the selected candidate will have to produce a "Relieving Certificate" from his/her employer that he/she has been fully relieved from the normal duties to complete the course (and qualifier examination, if applicable) at IIT Mandi.
6	Part Time PhD (Faculty Employed in Academic Institute at J&K/ Himachal Pradesh)	The candidates must have 2 yrs of teaching experience with GATE/UGC/CSIR NET score. GATE/UGC/CSIR NET score is waived for those with 5 years of teaching experience. AND Candidate should have permission from the employer for pursuing the Ph.D. program with adequate leave of absence to complete the course work requirements.
7	Part Time PhD (Staff Employed in IIT Mandi)	Candidates applying under part time category PhD (Staff Employed in IIT Mandi) must have completed at least 3 years of service in IIT Mandi and possesses NOC and support documents from their School Chairperson.

Scholar under this category may carry out part of his research work in their sponsoring agency under the supervision of a co-guide also employed in the same organization; and a guide at IIT Mandi.

@ Scholars under project funding category may apply against the below mentioned projects.

Sponsored Project	**Project Title**: Probabilistic Earthquake – Earthquake induced landslide multi-Hazard analysis: Application to Shimla, Mandi, and Manali. **Sponsoring Agency**: IIRS-ISRO **Duration**: 3 Years **PI**: Dr. Maheshreddy Gade **Specialization**: Geotechnical Engineering
	Project Title: Low-cost extensometer-based landslide monitoring and early warning device. **Sponsoring Agency**: DST- Device Development Project **Duration**: 20 months **PI**: Dr. K V Uday **Specialization**: Geotechnical Engineering

	Project Title: Digital Twin development employing Bayesian filters with sub-structured predictor models for aerospace structures applications. **Sponsoring Agency**: ARDB **Duration**: 3 Years **PI**: Dr. Subhamoy Sen **Specialization**: Structural Engineering

After completion of the project duration, the scholar may be converted into institute fellowship subjected to performance of the scholar and institute norms. In case of further information of sponsored project, scholar may contact to respective PI.

Research specializations and eligibility for MTech (Research) Admissions:

Sl. No	Specialization	Qualification for MS (by Research)	Remarks
1	Geotechnical Engineering	B. Tech in Civil/Mechanical Engineering + valid GATE score in Civil/Mechanical Engineering	Select Geotechnical Engineering under specialization
2	Water Resources Engineering	B.E./B.Tech. in Civil/ Environmental Engineering with valid GATE score in Civil/Environmental Engineering	Select Water Resource Engineering under specialization
3	Environmental Engineering	B.E./B.Tech. in Civil/ Environmental/Chemical Engineering with valid GATE score in Civil/Environmental/Chemical Engineering	Select Environmental Engineering under specialization
4	Structural Engineering	B. Tech in Civil Engineering + valid GATE score in Civil Engineering	Select Structural Engineering under specialization

Advertisement for admission to the M.Tech (Research) programme is open for the following categories:

- Regular Full Time M.Tech (Research) (Fellowship from the Institute)
- Part Time M.Tech (Research) (Sponsored from Govt/Semi-Govt/National Research Lab/Industry/Public Sector/Reputed Private Sector)
- Part Time M.Tech (Research) (Faculty Employed in Academic Institute at J&K/ Himachal Pradesh)
- Part Time M.Tech (Research) (Staff Employed in IIT Mandi)

Sl. No	MTech (Research) Admission Category	Minimum Requirements
1	Regular Full Time MTech (by Research) (Fellowship from the Institute)	Candidates applying under regular full time category must have valid score card of the qualifying exam GATE / JRF / NET or National Level Examinations conducted by MoE and its agencies and institutes such as IITs/CSIR/UGC/IISc/IISER etc.
2	@Regular Full time MTech (Research) (Fellowship from the sponsored Project)	Candidates must have valid GATE / JRF / NET or National Level Examinations conducted by MoE and its agencies and institutes such as IITs/CSIR/UGC/IISc/IISER etc. The candidate must submit application against the project funded scholar advertisement and qualify the admission test and criterion as mentioned in the project advertisement.
3	#Part Time MTech (Research) (Sponsored from Govt/Semi-Govt/National Research Lab/Industry/Public Sector/Reputed Private Sector)	Candidates applying under part time category (Sponsored from Govt/Semi-Govt/National Research Lab/Industry/Public Sector/Reputed Private Sector) must have at least two years of experience in the R&D section of the sponsoring agency. The experience duration should be in continuity of their service. AND The sponsoring organization/Institution must have at least 5 years of its existence. The candidate must produce NOC and sponsorship certificate from their employer. At the time of joining the programme, the selected candidate will have to produce a "Relieving Certificate" from his/her employer that he/she has been fully relieved from the normal duties to complete the course (and qualifier examination, if applicable) at IIT Mandi.
4	Part Time MTech (Research) (Faculty Employed in Academic at J&K/ Himachal Pradesh)	The candidates must have minimum 2 yrs of teaching experience. AND Candidate should have permission from the employer for pursuing the MTech (Research) program with adequate leave of absence to complete the course work requirements.
5	Part Time MTech (Research) (Staff Employed in IIT Mandi)	Candidates applying under part time category MTech (Research) (Staff Employed in IIT Mandi) must have completed at least 2 years of service in IIT Mandi and possesses NOC and support documents from their School Chairperson.

#Scholar under this category may carry out part of his research work in their sponsoring agency under the supervision of a co-guide also employed in the same organization; and a guide at IIT Mandi.

@Scholar under project funding category may apply against the below mentioned projects.

Sponsored Project	None

Notes:

- Candidates applying under the PART TIME CATEGORY are encouraged to visit the faculty profile of the institute and identify the potential thesis guide at IIT Mandi. Written consent of the prospective guide is compulsorily to be obtained before applying. No application will be entertained/processed without it. Candidates are advised to contact faculty members in their area of interest, discuss the proposed research plan and write up a brief research proposal. Preparing a good proposal will require reading of some research papers. Research Proposal should be of 2-5 pages in length and include references to the current literature. Candidate should submit their application for the Part Time Admission along with the research proposal and a certificate of sponsorship from their parent institute/organization to se_admissions@iitmandi.ac.in

- **Foreign nationals** can only apply for regular full time PhD/ M.Tech (by Research). Foreign nationals with a degree from Indian universities will be treated on par with Indian national for admission purposes. The foreign nationals with foreign degrees must meet the minimum educational requirement equivalent to the Indian degrees in the relevant discipline as per the current admission advertisement. The candidate should have acceptable score in TOEFL or equivalent unless the medium of instruction for qualifying degree in English. The certificate of equivalence duly authenticated by the Association of Indian Universities (AIU) must be submitted during interviews/admission for the UG/PG degrees obtained from foreign universities.

- B. E./AMIE / Other Equivalent exams are considered as B. Tech.

- Candidates with B. Tech in branches / specializations other than specified in the dropdown list should select others and specify their branch / specialization in the text box provided.

- M. E. / M. S. (by Research) / M.Tech. (by Research) or other equivalent exams are considered as M. Tech.

- If you have your grade in CGPA/CPI, represent your CGPA/CPI out of 10.

- The eligibility criteria mentioned above is minimum and the shortlisting committee(s) may use higher cut-off levels for shortlisting.

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- **More details about eligibility and others regarding MTech (by Research) / PhD can be found at** http://www.iitmandi.ac.in/administration/files/new%20MS_Phd_Ordinance_and_Regulations.pdf
- **The First and/or second preferences shall be considered for shortlisting the received admission applications. Applicants are advised to fill the specialization preference carefully on OAS application portal.**
- **The school reserves the right to recruit/ not recruit for any of the advertised areas.**
- **The interview/test will be in hybrid (both online and offline) mode. The shortlisted candidates may share their preference for the mode of interview/test.**

Application Procedure

Candidates should apply through online only using the link:
http://oas.iitmandi.ac.in/admission

Application Fee for MTech (by Research)/Ph.D. Admission:

Category	Amount in ₹
General/EWS/OBC/OBC (NCL)/Transgender/Foreign Nationals	200
Women/SC/ST/PD	100

Mode of Payment: SBI Collect Portal.

Applicant should submit fee on SBI collect portal of the IIT Mandi (https://www.onlinesbi.com/sbicollect/icollecthome.htm); and submit generated transaction number to the OAS admission application portal. One application fee is valid for the single application. The application fee is non-refundable.

For any queries please contact: se_admissions@iitmandi.ac.in

For any technical issues please contact oassupport@iitmandi.ac.in

Important Notice: Candidates without specialization in the M. Tech should mention the subjects taken by them in the subject column of the qualifications. Alternatively, they can specify the specialization close to their course of study or project. They should also mention the M. Tech thesis title in the additional information column. Candidates, who do not mention the subject names, may not be shortlisted for written test / interview even they fulfill the shortlisting criterion. There may not be any communication in this regard.

Important Dates:

Starting date for filling Online Application: 04/10/2022

Last date for filling Online Application: 31/10/2022

Interview and Test: 06 – 13 December (Both Online and Offline Mode)

Declaration of Shortlisted Candidates &Written test and/or Interview Dates: Published on IIT Mandi website. Shortlisted candidates will be informed by email.

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