

## School of Engineering

School of Engineering invites applications for admissions in MS (by Research) and PhD programs in Mechanical Engineering domain for the semester commencing from August 2022.

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

### Category of PhD Admissions:

School of Engineering offers both Full time and Part time PhD programs for the interested candidates. Applicants for admission to the Ph.D. programme shall be classified under any one of the following categories which will be decided and recommended by the admission committee. Applicants must mention their admission category in the online application form.

- Regular Full Time PhD (Fellowship from the Institute)
- Regular Full Time PhD (Fellowship from CSIR/NET/ICCR/DAE)
- Regular Full Time PhD (Fellowship from the Sponsored Project)
- 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 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	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

	from the Sponsored Project)	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 Laboratories / 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.

\*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 with a minimum CGPA of 8.0 on a 10.0 point scale and having a valid GATE/NET score.

OR

- B Tech degree with two years of work experience in reputed R&D organization and having a proven research record and having a valid GATE/NET score.

# 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 project.

<b>Sponsored Project</b>	<p><b>Project Title:</b> Development and Implementation of Non-Gray Radiation model for the combustion applications</p> <p><b>Sponsoring Agency:</b> ARDB-DRDO</p> <p><b>Duration:</b> 36 months</p> <p><b>PI:</b> Dr Pradeep Kumar</p> <p><b>Specialization:</b> Fluid Thermal</p>
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### Minimum Academic Eligibility for Admission in PhD Programs

#### PhD Programs

**Mechanical Engineering** (Select **Mechanical Engineering** under main area):

Sl. No	Specialization	Qualifications for PhD admissions	Remarks / Instructions
1	Mechanical Design	B. Tech in Mechanical Engineering + M. Tech in Machine Design / CAD / CAE/ Aerospace/ Applied Mechanics or related areas + GATE qualified in Mechanical Engineering	Select <b>Machine Design</b> under specialization
2	Fluid Thermal	B. Tech in Mechanical Engineering or related areas+ M. Tech in Fluid/Thermal Engineering or related areas + GATE qualified in Mechanical Engineering	Select <b>Thermal Engineering</b> under specialization
3	Manufacturing	B.Tech in Mechanical/ Production + M.Tech in Mechanical/ Production / Mechatronics or related areas + GATE qualified in Mechanical Engineering	Select <b>Manufacturing</b> under specialization;
4	Robotics	B.Tech in Electrical, Electronics / Mechanical / Mechatronics / Aerospace + M.Tech/MS in Electrical / Electronics / Mechanical / Mechatronics / Aerospace	Select <b>Robotics</b> under specialization;

#### Category of MS (by Research) Admissions:

Advertisement for admission to the MS (by Research) programme is open for the following categories:

- Regular Full Time MS (by Research) (Fellowship from the Institute)
- Part Time MS (by Research) (Sponsored from Govt/Semi-Govt/National Research Lab/Industry/Public Sector/Reputed Private Sector)

- Part Time MS (by Research) (Faculty Employed in Academic Institute at J&K/ Himachal Pradesh)
- Part Time MS (Staff Employed in IIT Mandi)

Sl. No	MS (by Research) Admission Category	Minimum Requirements
1	Regular Full Time MS (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	#Part Time MS (by 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 They 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.
3	Part Time MS (by Research) (Faculty Employed in Academic Institute 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 MS (by Research) program with adequate leave of absence to complete the course work requirements.
4	Part Time MS (Staff Employed in IIT Mandi)	Candidates applying under part time category MS (by 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.

### Minimum Academic Eligibility for Admission in MS (by Research) Programs

#### MS (by Research) Programs

**Mechanical Engineering** (Select **Mechanical Engineering** under main area):

Sl. No	Specialization	Qualification for MS (by Research)	Remarks
1	Mechanical Design	B. Tech in Mechanical Engineering + Valid GATE score in Mechanical Engineering	Select <b>Machine Design</b> under specialization
2	Fluid Thermal	B. Tech in Mechanical Engineering or related areas + Valid GATE score in Mechanical Engineering	Select <b>Thermal Engineering</b> under specialization
3	Manufacturing	B.Tech in Manufacturing / Materials / Mechanical/ Production + Valid GATE score	Select <b>Manufacturing</b> under specialization;
4	Robotics	B.Tech in Electrical, Electronics, Mechanical, Mechatronics, Aerospace + Valid GATE score	Select <b>Robotics</b> under specialization;

**Notes:**

- Candidates applying under the **PART TIME CATEGORY** 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](mailto:se_admissions@iitmandi.ac.in)**
- **Foreign nationals** can only apply for regular full time PhD/ MS (by Research). Foreign nationals with 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.
- 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) 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.
- **More details about eligibility and others regarding MS (by Research)/ PhD can be found at [http://www.iitmandi.ac.in/administration/files/new%20MS\\_PhD\\_Ordinance\\_and\\_Regulations.pdf](http://www.iitmandi.ac.in/administration/files/new%20MS_PhD_Ordinance_and_Regulations.pdf)**
- **The First preference shall be considered for shortlisting the received admission applications. Applicants are advised to fill the specialization preference carefully on OAS application portal.**
- **The School of Engineering reserves the right to recruit/ not recruit for any of the advertised areas.**
- **Due to the COVID-19 issue, the admission processes may defer from the earlier procedures, subjected to GOI norms.**
- **The program name MS (by Research) may get revised as M.Tech. (by Research) at the time of admission.**

### Application Procedure

Candidates should apply through online only using the link:

<http://oas.iitmandi.ac.in/admission>

### Application Fee for MS (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](mailto:se_admissions@iitmandi.ac.in)

For any technical issues please contact [oassupport@iitmandi.ac.in](mailto: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: 30 March 2022

Last date for filling Online Application: 20 April 2022

Interview and Test: 30 May – 04 June, 2022 (Tentatively Offline)

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