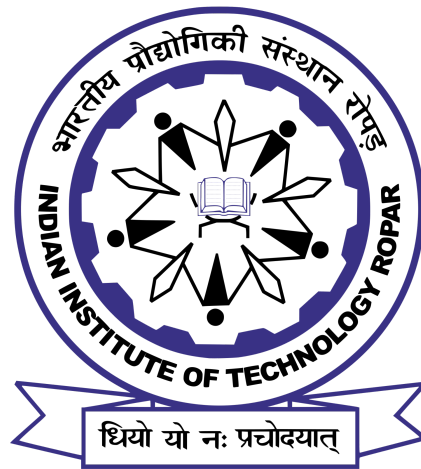


INDIAN INSTITUTE OF TECHNOLOGY ROPAR

Department of Mechanical Engineering

ADMISSIONS-2025



**Information Brochure
Ph.D. Admissions 2025-26
JAN, 2026**

The Department of Mechanical Engineering invites PhD applications for PhD positions in the following project. Please note that we invite applications in the following two streams: 1) Mechanism and Design, 2) Thermal and Fluid Engineering. Note that in the thermal and fluid engineering stream, only the candidates from the reserved category (EWS/OBC/SC/ST) are eligible. In the Manufacturing Engineering stream, we are only looking for Part-time/ ERP Candidates.

In addition to the institute-funded seats, the department also offers project seats funded by external agencies. The details of the available projects can be found in the link below

Link: mech.iitrpr.ac.in/current-openings/phd-project-openings

About the Department:

The Department of Mechanical Engineering is one of the founding departments of the Institute. It is also one of the largest departments of the Institute, housing 23 faculty members with varied expertise and hundreds of undergraduate, postgraduate, and research scholars. The department aspires to be one of the world's top departments. Currently, the department offers a B.Tech. in Mechanical Engineering with minors in various fields. The department also offers Master's Degrees in four disciplines, viz. Manufacturing Engineering (MF), Mechanics and Design (MD), Thermal & Fluids Engineering (TF), and Computational Mechanics. The faculty members in the department can be categorised broadly into the following groups: Design, Manufacturing, and Thermal. The department is organised into these three generic groups for all administrative and academic purposes. The department's main thrust areas are Additive Manufacturing, Bio-Mechanical Engineering, Energy Efficiency and Sustainability, Intelligent Mechanical Systems, and Micro/Nano Engineered Systems.

Research Areas:

Department faculty are involved in various state-of-the-art research and development activities spanning various areas in Mechanical Engineering, listed below:

- [Research Labs](#)

January 2025 ADMISSIONS (ACADEMIC YEAR 2025-26)

Applications are being called for candidates seeking January 2026 admissions (Academic Year 2025-26) to the PhD program.

Last Date of Receipt of Online Applications: 18th November, 2025, 5:30 PM IST

Guidelines to submit the application

1. Please visit the link: [APPLICATION FORM](#)
2. Submit the application ONLINE. After filling the form, take a print of your application and keep the same for your record. A print copy of the application is not required to be submitted.
3. Application Fee:
 - a. Women candidates & SC/ST/PwD category candidates: Rs. 100/-
 - b. All other candidates: Rs. 200/-
4. The fee is to be paid by SB Collect (Online Payment System). Applications without online payment details will not be considered. Fees payment method is as follows:
 - a. Go to onlinesbi.com
 - b. Select SB Collect
 - c. Tick the terms and conditions and continue
 - d. Select state- Punjab
 - e. Select educational institute- IIT Ropar (Type IIT Ropar after giving space in each letter of IIT).
 - f. Select the option for the payment category
 - g. Select the option- Application Fees for PhD admission
 - h. Pay the requisite fee.
5. Application fee is NON-REFUNDABLE.
6. The OBC (Non-Creamy Layer) certificate and Income & Assets certificate [for EWS category] issued within the past one year at the time of admission, in the prescribed format, must be uploaded in the ONLINE application and submitted at the time of interview/admission.
7. Please check the Department admission website (link to be updated) regularly for important announcements and the department website for shortlisting updates and results.
8. The candidates called for a written test/interview should bring with them a printed copy of the application submitted online, along with original and photocopies of relevant certificates/documents uploaded in the online form.
9. Incomplete applications will be rejected.
10. Applicants must submit a legible copy of the documents.

Minimum Eligibility Criteria:*(Table 1)*

Sr. No.	Qualifying Degree	Minimum Performance in Qualifying Degree for General/OBC (Non-Creamy Layer)/EWS Category Candidates	Minimum Performance in Qualifying Degree for SC/ST/PwD category Candidates	Qualification Through National Level Examination Requirements
1.	M.Tech./M.E./M.D. or equivalent	60% marks or 6.00 CGPA on a 10-point scale	55% marks or 5.5 CGPA on a 10-point scale	Nil
2.	M.Sc/MBA/M.A/M.B. B.S. or equivalent	60% marks or 6.00 CGPA on a 10-point scale	55% marks or 5.5 CGPA on a 10-point scale	Qualified GATE/CSIR/UGC-NET/DST-INSPIRE/JEST/NBHM or other national fellowship
3.	B.E./B.Tech. or equivalent four years program	60% marks or 6.00 CGPA on a 10-point scale	55% marks or 5.5 CGPA on a 10-point scale	Qualified GATE/CSIR/UGC-NET/DST-INSPIRE/JEST/NBHM or other national fellowship

Exemptions:

Requirement of qualification in GATE / National level Exam is waived off for the following categories of applicants. Candidates from Centrally Funded Technical Institutes (CFTIs, list is available here: <https://www.education.gov.in/en/technical-education-1>) completed B.Tech./B.E./ Integrated M.Tech./ Integrated M.Sc. programmes (or any other programme of minimum four year duration, admission to which is on the basis of JEE), must obtain a CGPA of 7.5 or above (on a 10 point scale) at the time of graduation, and before they formally register for Ph.D. programme (75% aggregate marks, if marks is the primary mode of evaluation).

Selection Procedure:

Merely satisfying the general eligibility criterion as well as criterion set for each admission category is no guarantee for being called for an interview. Depending on the number of applications received the department may put additional academic performance-based shortlisting criteria. The shortlisted candidates satisfying the shortlisting criterion will be called for an interview. **The interview dates are 24-25 Nov 2025.**

The interviews will be conducted in hybrid mode. The online link for the interview will be shared two days prior to the scheduled date.

Reservation of Seats:

Reservations are applicable to SC/ST/OBC-NCL/EWS/Persons with Disability (PwD) candidates as per Govt. of India rules.

Contact us:

Dept. Office: Email: office-me-1@iitrpr.ac.in, Phone: +91-1881-23-2352, 2353

CATEGORIES OF ADMISSION

Candidates will be admitted to the Ph.D. program of the Institute through an institute selection process under any one of the following categories:

REGULAR FULL-TIME Ph.D.

1. **Institute fellowship:** *Candidates under this category are entitled for Institute Research Assistantship/Fellowship as per Ministry of Education, Govt. of India norms.*
2. **Govt./ Semi Govt. Fellowship Awardees, such as PMRF, CSIR-JRF, UGC-JRF, DST-INSPIRE, DBT, NBHM, PMRF, QIP, DST- WISE PhD, etc. or any other full time fellowship:** *These candidates are financially supported under various Govt./Semi Govt. schemes. The admission procedure and other requirements are the same as applicable to research scholars/institute fellowship.*
3. **Fellowship through Project (FTP):** *The admission procedure and other requirements for research Fellows (JRFs/SRFs) in various projects/schemes in the institute who wish to enroll for the PhD programme are the same as applicable to Institute Research Scholars. They will be paid assistantship/fellowships as per the norms of the project and sanctioned amount. The candidate has to fulfill all the eligibility requirements of the funding agency and the institute criteria.*
4. **Self financed Indian Nationals, including those on Study Leave (SF):** *The candidates admitted under this category are not eligible for any financial support from the Institute (IIT Ropar). Candidates with the provisional DST INSPIRE fellowship award letter may apply under SelfFinance (SF) category. After successful admission, if the candidate subsequently clears the final round of selection of DST INSPIRE, s/he would be allowed to convert from the SelfFinance (SF) to Fellowship Award (FA) category. Candidates who are released from the Government or educational Institutions on study leave for a period not less than three years for doing research work at IIT Ropar, can seek admission under this category. Employer's Letter for Study Leave should be produced at the time of joining, if selected.*
5. **Sponsored Candidate (SW):** *The candidates admitted under this category are not eligible for any financial support from the Institute (IIT Ropar) and are sponsored by their employers. They are expected to be relieved for full time course work and research at the Institute for a minimum period of three years. An appropriate sponsorship letter should be submitted at the time of written test and/or interview.*

PART-TIME Ph.D.

1. External Registration Program (ERP):

This category refers to a candidate employed in an R&D organization/academic institution/industry having adequate research facilities. The research work leading to the Ph.D. degree may be carried out largely in the parent organization of the candidate under a Local Supervisor from the organization but with the overall guidance provided by a faculty member (Institute Supervisor) of the department in which the candidate is registered.

A candidate in this category is a professionally employed person having regular employment in Government Organizations, like MEITY, DRDO, MHA, CSIR, Central Universities (including IIT Ropar regular staff), the employees of National and International reputed private organizations/industries, viz. Reliance, TATA, Birla, Samsung, Nokia, Infosys, GE, similar MNC companies, etc., who would like to pursue the Ph.D. program while continuing the employment at their parent organization. The institute does not provide any financial assistance/fellowship to such a candidate.

Temporary employees, outsourced employees, employees from private universities, start-ups, small enterprises etc are not eligible.

2. *Part-time:* *A research scholar under the Part time PhD Programme will carry out major part or all of his/her research work at IIT Ropar under the supervision of supervisor(s) at IIT Ropar. The feasibility of doing this with sufficient intensity will be an important consideration in admitting the scholar in this category.*

A candidate in this category is a professionally employed person having regular employment in Government Organizations, like MEITY, DRDO, MHA, CSIR, Central Universities (including IIT Ropar regular staff), the employees of National and International reputed private organizations/industries viz. Reliance, TATA, Birla, Samsung, Nokia, Infosys, GE, similar MNC companies, etc., who would like to pursue the Ph.D. program while continuing the employment at their parent organization. The institute does not provide any financial assistance/fellowship to such a candidate.

Temporary employees, outsourced employees, employees from private universities, start-ups, small enterprises etc are not eligible.

3. IIT Ropar regular Staff:

Members of non-teaching staff (working in permanent capacity, including technical and non-technical) may be permitted to join the Ph.D. program under this category. All common rules laid down in the Ph.D. Regulations relating to course work, prosecution of research work under the supervision of a member of faculty, etc. shall be applicable.

Regulations pertaining to all kinds of PhD programs will be common, unless stated otherwise.

Regular Full-time Ph.D.

For the Minimum Eligibility Qualification (MEQ) for admission to Regular Full-time Ph.D programmes refer table:1 below:

Eligibility Requirement for ERP candidates

- (i) *Minimum Eligibility Requirements:* In addition to possessing the academic qualifications mentioned in the table 1 under regular full-time Ph.D program, an applicant should fulfill the following additional requirements also:
- (ii) *GATE or equivalent qualification:* GATE or Equivalent Qualification is not required for admission.
- (iii) *Professional Experience:* Should have completed full time employment of 2 years of service as on the deadline of application.
- (iv) *Organization/Institution:* Organization/Institution must have at least 5 years of its existence for sponsoring candidates to the ERP programme. Only persons engaged in R & D work in Technical / Scientific Institutions/ Industries or R & D Establishments are eligible. The organization should have adequate facilities for carrying out research. All CFTIs/GFTIs will be considered irrespective of their years of existence.
- (v) *Sponsorship/NOC*
Unconditional sponsorship or NOC by the employer is essential and a must at the time of joining. IIT Ropar will not have any financial liability for the candidate throughout the tenure of PhD. The sponsorship certificate must be provided in the format specified at FORMAT-A.

Eligibility Requirement for Part-Time candidates

- (i) *Minimum eligibility requirements:* In addition to possessing the academic qualifications mentioned in the table 1 under regular full-time Ph.D program, an applicant should fulfill the following additional requirements also:
- (ii) *Professional Experience:* The minimum full-time experience required after obtaining the qualifying degree and as on date of application deadline, is given in table 2 below:

(Table 2)

Sr. No.	Qualifications	Work Experience (Post Qualification)
1	M.E./M.Tech./M.S.(R)/M.D. or Equivalent	Nil
2	B.Tech./BE with valid GATE	Nil
3	B.E./B.Tech./M.Sc./M.A./M.B.A./MBBS or equivalent, from CFTIs/Central Universities	1 Year
4	B.E./B.Tech./M.Sc./M.A./MBA/MBBS or equivalent, from institutions other than CFTIs/Central Universities	2 Years

- (iii) *Minimum Eligibility Qualification for these candidates is the same as for full-time candidates, except that the requirement of qualifying in a national examination is waived for serial No. 1, 3 and 4 of above table.*
- (iv) *No Objection Certificate: Part-time candidates are required to submit a “No Objection Certificate” on a proper letterhead from the Head of the Institute/Competent authority in the organization on the specified format given at FORMAT-B.*

If the candidate after joining the PhD program changes the organization, he should inform the Institute immediately and get NoC from the new organization as well.

Eligibility Requirement for IIT Ropar Staff:

- (i) *Minimum eligibility requirements: In addition to possessing the academic qualifications mentioned in the table 1 under regular full-time Ph.D program, an applicant should fulfill the following additional requirements also:*
- (ii) *GATE or equivalent qualification:*
Minimum qualification for these candidates is the same as for regular PhD candidates except that the requirement of qualifying in a national examination (e.g., GATE or equivalent) is waived off.
- (iii) *No Objection Certificate:*
Prior permission/No Objection Certificate (NOC) has to be obtained from competent authority before applying for admission to the program. NOC has to be submitted at the time of submission of application. Institute work should not suffer due to joining the PhD programme by the candidate.
- (iv) *Selection Procedure:*
Short-listed eligible staff will be called for a written exam or interview or both. Final selection is based on the performance of the staff in the written exam or interview or both.
- (v) *Fellowship:*
Members of staff permitted and enrolled for the PhD degree shall not be entitled to institute fellowship.
- (vi) *Duration:*
The minimum period to be spent in the research work registered under the Part-Time Ph.D. degree for staff shall be 4 years. The maximum period admissible for completion of the course work, research work and submission of the thesis, shall, however, remain to be the same as in the case of regular candidates.

International Candidates - Admission to Ph.D

Foreign Nationals are those with foreign passports including those who are Person of Indian Origin (PIO) / Overseas Citizen of India (OCI) card holders.

Foreign nationals can only register as full-time scholars. Foreign nationals with eligible degrees from Indian Universities will be treated on par with Indian nationals for admission purposes with prescribed fee for foreign nationals. Foreign nationals with foreign degrees must meet the minimum educational requirements as specified on the website/admission brochure.

REGISTRATION FOR THE Ph.D. DEGREE

The selected candidates who have submitted the institute fee will be provided the Entry No. and institute email ID after the verification of all their testimonials.

Candidates joining Ph.D programme are required to produce their original marks/grade sheets along with provisional certificates at the time of admission.

Original Documents to be submitted for verification at the time of interview/admission:

- (a) Printed copy of the application form obtained after online registration.
- (b) Mark sheets/Grade cards of all semesters & Course completion certificate / Provisional certificate / Degree certificate beginning from first degree towards proof of qualification.
- (c) Copy of GATE score card or UGC - JRF/NET/CSIR-JRF/ DAE-JEST or other fellowship award letter.
- (d) SC/ST/OBC-NCL community certificate for the candidates belonging to SC/ST/OBC-NCL category issued by the respective State Government. [OBC-NCL candidates should produce the latest valid OBC Non-creamy layer community certificate in the prescribed format obtained after 31/05/2025].
The candidates claiming for EWS (Economically Weaker Sections) reservation should submit a valid Income & Assets certificate in the prescribed format obtained after 31/05/2025.
- (e) Authorised Doctor's Certificate with disability descriptions in the case of Person with Disability (PwD) candidates.
- (f) For Part-time candidates, NOC from the present employer should be submitted as per the prescribed format.

Location and Accessibility

The Institute is located at Ropar, the headquarters of Rupnagar district, Punjab. This institute, with its establishment, joins a string of premier educational institutions in Punjab. The town of Ropar, the district headquarters, is 42 kms from Chandigarh, the capital of Punjab. Rupnagar is well connected by both road (National highway NH21 / NH205) and railways (the Delhi-Ambala-Una railway line passes through Rupnagar).

By Air:

The nearest international Airport is in Chandigarh, about 50 km from Rupnagar. Any visitor wishing to come to Rupnagar/Ropar could take a flight from his/her respective place to Chandigarh, if available, or a flight from Delhi to Chandigarh and then take a taxi from the airport to reach the campus of Indian Institute of Technology Ropar (IIT Ropar), which is approximately one and a half hour journey.

By Train:

There are regular trains running between Delhi and Rupnagar. The Delhi-Ambala-Una railway line passes through Rupnagar. The duration of the journey is around six hours from Delhi.

FORMAT – A: FORMAT OF SPONSORSHIP CERTIFICATE

(Part-time ERP)

We understand that this sponsorship is covered by the following conditions:

- i) The candidate will be continuing in the present place of work till he / she completes the research work.
- ii) Necessary facilities will be provided for the proposed research work of the candidate.
- iii) The Research Supervisor(s) from the Institute will be given access to the facilities necessary for the research work of the candidate in our organization.
- iv) The Joint Research Supervisor/Coordinator will be identified by the candidate at the time of registration in the External Registration PhD programme.
- v) The Joint Research Supervisor/Coordinator from the organization will ensure that half yearly reports are submitted through the Research Supervisor at the Institute to the PG office. Failure to comply with will result in cancellation of registration.
- vi) The organization confirms that the Joint Research Supervisor has completed PhD in Govt. recognized Institution/University. The organization can nominate Coordinator for the candidate in case Joint Research Supervisor is not available in the organization.
- vii) The organization will ensure that the candidate devotes sufficient time to his/her research work so that the submission of thesis will be done within the time frame stipulated by the Institute.
- viii) In the event of any intellectual property generated by the student during his/her proposed research, the Organization agrees to the sharing of IP rights as determined by a Committee constituted by IIT Ropar for this purpose.
- ix) The thesis is a public document, and shall include all the work carried out by the student for the Ph.D. degree. The organization shall agree that sensitive/confidential information will not be included in the problem formulation or, subsequently, during the course of research.
- x) All material in the thesis can be submitted for publication in peer-reviewed journals/ conferences, the organization waives the right to deny permission for publication, for reasons of confidentiality or for any other reason, for any material contained in the thesis.
- xi) Publications: In the case of publications arising from the thesis, only those who have directly contributed to the research work can be listed as authors. In case of any difference of opinion, the decision of the internal committee of IIT Ropar shall be final.

NAME:

DESIGNATION:

ADDRESS:

Signature of the Head of the Organization with the official seal.

Place :

Date :

FORMAT B: FORMAT FOR NO OBJECTION CERTIFICATE

(Only for Part time)

Part-time candidates are required to submit a “No Objection Certificate” on a proper letterhead from the Head of the Institute/Competent authority in the organization clearly stating the following :

- I. The candidate is permitted to pursue studies on a part-time basis.
- II. That his/her official duties permit him/her to devote sufficient time for research.

NAME:

DESIGNATION:

ADDRESS:

Signature of the Head of the Organization with the official seal.

Place :

Date :