



Indian Institute of Technology Indore

Discipline of Mechanical Engineering

Advertisement for PhD Program in Mechanical Engineering Discipline

Discipline of ME invites applications from high calibre, sincere and research-oriented students for admission to the PhD Program. They should possess strong background in ***Mechanical Engineering*** as well as good communication skills both written and oral. The vacancies are available in the following research areas:

Design Specialization

- Rehabilitation robot; Nonlinear control; Parallel mechanisms (Dr. M. Santhakumar, Email: santhakumar@iiti.ac.in)
- Computer modeling of boron- and carbon- based nanomaterials; Nanomechanics and micromechanics of composites; Nanotechnology in engineering; Smart materials and structures (with Dr. Shailesh I. Kundalwal, Email: kundalwal@iiti.ac.in)
- Computational solid mechanics; Fracture mechanics; Mechanical behavior of materials; Metallic glass; Finite element methods (with Dr. Indrasen Singh, Email: indrasen@iiti.ac.in)
- Finite element analysis; Fiber reinforced composites; Fatigue experimental testing (with Dr. Subbareddy Daggumati, Email: subbareddy.daggumati@iiti.ac.in)

Production Engineering Specialization

- Manufacturing; Materials science; Production engineering; Surface engineering; Coating technology (with Dr. Kazi Sabiruddin, Email: skazi@iiti.ac.in)
- Tribological coating synthesis; Solid lubrication (with Dr. Satyajit Chatterjee, Email: satyajit@iiti.ac.in)

Thermal Engineering Specialization

- Thermal engineering (with Dr. Santosh Kumar Sahu, Email: sksahu@iiti.ac.in)

Prospective candidates are strongly encouraged to contact the above faculty members of ME Discipline.

Categories of Admission:

- **FA** (Fellowship Awardee): Fellowship Awardees or those working in a Sponsored Research Project with a faculty from IIT Indore being PI of the project with Scholarship as per the rules of the Funding agency.
- **TA** (Teaching Assistantship): Teaching Assistantship with scholarship as per MHRD guidelines.
- **SWF** (Sponsored full-time) **or SWP** (Sponsored part-time) (Without Institute scholarship): Sponsored from a reputed Industrial or Research organization.
- **EC** (External Category): Officials sponsored by Central Government, State Government, and PSU
- **IS** (Institute Staff, Part-Time only): Without any scholarship from the Institute

Last date: One month from the date of advertisement published.

Eligibility

- [1] Minimum first class* Master degree in the relevant discipline of the Engineering/ Technology, OR
- [2] Minimum first class* Bachelor degree in the relevant Engineering/ Technology discipline from a reputed Institute with a **valid GATE score**, OR
- [3] B. Tech. degree from an Indian Institute of Technology (IIT) with a minimum CPI of 8.0, OR
- [4] Minimum first Class* Master degree in the relevant discipline of Engineering with **valid GATE** qualification OR
- [5] **UGC/CSIR-JRF** qualification OR equivalent fellowship (**DST Inspire** fellowship holder)

* The first class is defined as

- 60 % marks for GEN/OBC (55% for SC/ST) category in aggregate, *OR*
- CPI/CGPA of 6.0 for GEN/OBC (5.5 for SC/ST) 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) on a scale of 8), *OR*
- A first class as specified by the University/Institute awarding the degree.

Application Procedure

- [1] Candidates must apply ONLINE through the website (<http://academic.iiti.ac.in:8080/nregistration.jsp>).
- [2] Application Fee: Rs. 100/- (INR) to be paid through State Bank Collect (<https://www.onlinesbi.com/prelogin/icollecthome.htm>) or through a Demand Draft (DD) drawn in favor of “**Registrar, IIT Indore**” payable at “**Indore.**”
- [3] The hard copy (signed) of the submitted online application along with the following items must be sent to the DPGC Convener at the below-mentioned address for correspondence within one week after the online submission.
 - State Bank Collect receipt (or Demand Draft)
 - Recent photograph
 - Self-attested relevant copies of (i) mark sheets and certificates from bachelor degree onwards, and (ii) award/experience certificates and publications (if any). Additional document for SW candidates: No Objection Certificate, Experience Certificate, last 3 months salary slip and Employer’s PAN card.

- Statement of purpose explaining why the candidate would like to pursue the PhD in the a specific area (maximum one page)
- [4] The candidate must write his/her name, Discipline of Mechanical Engineering and the Application Number on the back side of the Demand Draft.
- [5] The envelope of the application must clearly mention “*Application for Admission to Ph.D. Program in the Discipline of Mechanical Engineering*”
- [6] The date of written test and interview will be communicated to shortlisted applicants via email only. Design Specialization Syllabus will cover the subjects namely, Machine Design, Vibration, Theory of Machine, Strength of Materials, and Applied Mechanics.
- [7] The short-listed candidates must arrange recommendation letters from at least two referees well before appearing interview. Referees shall e-mail the reference letters directly to kundalwal@iiti.ac.in or provide in a sealed envelope.

For any queries, please contact:

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