

# Indian Institute of Technology Indore

## Advertisement for Admission to Ph.D. Program in the Discipline of Mechanical Engineering for Autumn Semester of AY 2017-18

IIT/ Acad/PhD Admissions/2017/Autumn

March 21, 2017

Applications are invited from highly motivated and research-oriented students for the admission to PhD Program in the Discipline of Mechanical Engineering for the Autumn Semester of AY 2017-18 as per the below-mentioned categories of admission and time schedule. Candidates are advised to visit the profiles of the faculty members at <http://www.iiti.ac.in/People/faculty.html> before applying for the PhD Program.

**Categories of Admission:** Admissions are offered to Full-Time PhD program under the following categories

- **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 the reputed Industrial or Research organization.
- **IS (Institute Staff, Part-Time only):** Permanent staff of IIT Indore with minimum work experience of two years at IIT Indore.

**Time Schedule of PhD admission for Autumn Semester of AY 2017-18**

Last date of Online Application through <a href="http://academic.iiti.ac.in:8080/nregistration.jsp">http://academic.iiti.ac.in:8080/nregistration.jsp</a>	30 <sup>th</sup> April 2017
Last date for receiving the <i>hardcopy of online as well as offline application along with the required documents</i>	30 <sup>th</sup> April 2017

### (A) Discipline of Mechanical Engineering

<ul style="list-style-type: none"> <li>• <b>Mechanical Engineering</b></li> </ul>	<p><b>Qualifying Degrees and Examinations (any one of the following criterion)</b></p> <ol style="list-style-type: none"> <li>1. Minimum first class* Master Degree in the relevant branch of Engineering/Technology.</li> <li>2. Minimum first class* Bachelor Degree in engineering or technology from a reputed Institute with a <b>valid GATE score or UGC/CSIR-JRF</b> qualification or equivalent fellowship.</li> <li>3. B.Tech. Degree from an Indian Institute of Technology (IIT) with a minimum CPI of 8.0.</li> <li>4. Minimum first class* Bachelor Degree in engineering or technology from a reputed Institute with a <b>valid GATE score or UGC/CSIR-JRF</b> qualification or equivalent fellowship.</li> </ol>
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\* The first class is defined as

- (i) 60 % marks for GEN/OBC (55% for SC/ST) category in aggregate, **OR**
- (ii) 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).

Department is looking for candidates in following area of interest. However, these are not the exclusive areas.

<b>Mechanical Engineering</b>	<p><b>Design:</b> Planar parallel manipulators, Nano- and Micro-mechanics of composites, Smart structures, Flexoelectricity in nanostructures, Nanotechnology, Computational solid mechanics.</p> <p><b>Industrial:</b> Smart manufacturing, Reliability, Prognostics and health management.</p> <p><b>Production:</b> Mechatronics system design, Tribology, Instrumentation and control systems, Smart materials and structures, Laser based measurements, Hybrid machining and finishing processes, MLQ based and sustainable gear manufacturing, Additive layered manufacturing and coating using micro-plasma transferred arc deposition.</p> <p><b>Thermal:</b> Computational Fluid Dynamics, Heat Transfer in Porous Media, Bluff body flows, Non-Newtonian Fluid Mechanics, Biofluid Mechanics, Bio-heat transfer, Desiccant cooling, Refrigeration and air-conditioning, Metal Hydrides for Hydrogen Storage.</p> <p><b>For more details, kindly visit faculty profiles at <a href="http://me.iiti.ac.in/faculty.html">http://me.iiti.ac.in/faculty.html</a></b></p>
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**Application Fee:** ₹ 100/- to be paid through a Demand Draft (DD) drawn in favour of "Registrar, IIT Indore" and payable at Indore.

### Application Procedure:

- Candidates must apply ONLINE through our website (<http://academic.iiti.ac.in:8080/nregistration.jsp>). This will generate a unique application number for each applicant.
- After Submitting the application online, the same is to be downloaded and the **signed hard-copy along with Demand Draft, recent photograph, Self- attested relevant Certificates, (for SW candidates- NOC, Experience Certificate, last 3 months salary slip and Employer's PAN card)** must be sent to the concerned DPGC Convener at the below-mentioned Address for the Correspondence.
- **The candidate MUST write his/her name, name of the discipline and the Application Number on the reverse side of the Demand Draft.** Any application form without DD will be rejected.
- The **envelope of the application** must CLEARLY mention "**APPLICATION for ADMISSION in PhD Program in <Mech. Engg.> for Autumn Semester of AY 2017-18**"
- In case a candidate wishes to apply in more than one discipline then **separate application must be filled for each discipline.** Duplication of form may lead to the cancellation.

Name of the Discipline	Name of the DPGC Convener	Address for Correspondence
Mechanical Engineering	Dr. Ritunesh Kumar	Mechanical Engg. Dept. Indian Institute of Technology, Indore Simrol Campus, Indore-Omkareshwar Road, Indore –452020 Madhya Pradesh, India

**Recruitment Procedure:** Written test followed by the Interview

### Note:

Shortlisted list of candidates will be intimated through email to appear for recruitment process (written followed by the interview). The recruitment process will probably happen in the **second or third week of May** month. **Applicants are advised to check their email regularly after that last date of application. No enquiry will be entertained related with shortlisting, extension or change of dates of recruitment process.**