



Indian Institute of Technology Indore

Department of Electrical Engineering



Advertisement for Admission to Sponsored Ph.D. Program (Sponsored by L&T Digital Energy Solutions) in Electrical Engineering (EE) for Spring Semester of Academic Year (AY) 2024-25 (IN-PERSON INTERVIEW Under FA Admission Category)

IIT/Acad/PhD Admissions/24-25

September 27, 2024

IIT Indore invites applications from highly motivated and research-oriented students for admission to its PhD program in the Department of Electrical Engineering for the Spring Semester of Academic Year (AY) 2024-25 as per the below-mentioned categories of admission and time schedule. This PhD program is sponsored by L&T Digital Energy Solutions and is aimed to work on research problems of direct relevance to the industry. The focus will be on the following research areas:

- 1) AI Applications in Power Systems
- 2) Power Systems Protection
- 3) Cyber-Resiliency in Power Grids
- 4) Renewable Generation Forecasting
- 5) Hybrid Energy Management and Control System

Candidates can visit the profiles of the faculty members working in related areas listed below before applying.

Categories of admission (for Indian): Refer to the main PhD advertisement available at <https://academic.iiti.ac.in/phdadvt.php>

Time Schedule of PhD selection process:

Last date of online application through https://academic.iiti.ac.in:8443/nregistration.jsp (for Indian applicants)	October 16, 2024 (Wednesday) Latest by 23:59 hrs. IST
Notification to the shortlisted candidates for Interview	October 18, 2024 (Friday)
Dates of PhD selection process (Written Test and/or Interviews)	October 24, 2024 (Thursday)

Minimum Educational Qualifications (MEQs) and Qualifying Examination

Master's degree in Electrical or any other equivalent degree with specialization in the areas of Power Electronics, Power Systems, or Control Systems (with first division as defined by the awarding Institute/University) **AND** having GATE qualification in EE paper.

OR

Four-year Bachelor's degree OR five-year integrated degree in Electrical Engineering OR Electrical & Electronics Engineering (with first division as defined by the awarding Institute/University) **AND** valid GATE qualification in EE paper.

Important Instructions:

1. All eligible candidates, fulfilling the minimum eligibility criteria, must apply online through the website (<http://academic.iiti.ac.in:8080/nregistration.jsp>).
2. After applying online, the signed application form along with the following documents should be sent by email to admission-ee@iiti.ac.in
 - a) Self-attested photocopies/scanned originals of all relevant supporting documents such as **degree certificates, mark sheets from 10th class onwards, date of birth certificate, fellowship award letter, GATE score card etc., that they wish to present before the selection committee.**
 - b) Two recent passport size photographs.
 - c) Receipt of fee (Rs.100/-) paid through SBI i-collect.
 - d) Letters of recommendation duly signed by a minimum of **two referees**, who have known the applicant in a professional capacity, are mandatory for PhD selection process and must be sent directly to admission-ee@iiti.ac.in

The format of the recommendation letter can be found along with this advertisement. If the above documents/certificates and recommendation letters are not received by email before the application deadline, then the candidates may not be considered for the selection process.

3. **Important: DO NOT** send any form or documents by post.
4. Prospective candidates are strongly encouraged to submit online application before **23:59 Hours (IST) on October 16, 2024 (Wednesday)**. The applications will be scrutinized and interview call letter will be sent to shortlisted candidates by **October 18, 2024**.

5. PhD written test and interview will be conducted on **October 24, 2024**. The selection process will take place in person at **Indian Institute of Technology Indore, Simrol, Madhya Pradesh-453552**. Prospective candidates are requested to plan for necessary travel arrangement ahead to avoid any inconvenience at the last minute. No communication in any form regarding the **change of date, request for conducting online interviews**, etc. will be entertained.
6. No TA/DA will be paid for attending the PhD selection process. **Limited hostel accommodation (on payment basis) will be available inside IIT Indore campus**. The candidates can contact the undersigned (admission-ee@iiti.ac.in) for availing the hostel accommodation during their visit at IIT Indore.
7. Candidates who wish to appear for the PhD selection process and fulfill the eligibility criteria may also send their Resume/CV to the faculty member whose area is of interest to them. The areas of interest and detailed profile of faculty members are given below. Candidates are encouraged to visit webpage of faculty members listed below to know more about ongoing research work and areas of interest.
8. Mere fulfillment of the minimum eligibility criteria does not entitle anyone for admission into the PhD program in Department of Electrical Engineering.



Prof. Amod C. Umarikar

Prof. Amod C. Umarikar's research group at IIT Indore works on mainly applications of power electronics in renewable energy systems. The applicants having a strong background in power electronics and power systems would be preferred. The applicants should be highly motivated with an excellent academic record and good programming skills. For more details, please visit the following websites. URL. <https://people.iiti.ac.in/~umarikar/> Research Group: <https://poweriiti.weebly.com>.



Prof. Trapti Jain

Prof. Trapti Jain's research group at IIT Indore works on various operational issues related to smart grid. The applicant has to work on cyber-security in smart grid. The applicants having a strong background in power systems would be preferred. The applicants should be highly motivated with an excellent academic record and good programming skills. For more details, please visit the following websites. URL. <https://people.iiti.ac.in/~traptij/> Research Group: <https://poweriiti.weebly.com>.



Dr. Subhadeep Paladhi

Dr. Subhadeep Paladhi is leading the research in the area of **Power System Protection** in the Department of Electrical Engineering at IIT Indore, with a focus on the growing large-scale integration of converter-interfaced renewable energy sources in power systems. Prior to joining IIT Indore, he was with the University of Strathclyde, Glasgow, UK. Highly motivated candidates with excellent academic records are encouraged to apply and may contact him through spaladhi@iiti.ac.in. For more details, visit: <https://sites.google.com/view/subhadeep-paladhi>.



Dr. Lokesh Kumar Dewangan

Dr. Lokesh Kumar Dewangan specializes in the control and dynamics of HVDC systems/grids. He has completed his PhD from IIT Bombay and was working as post-doctoral researcher at ECN Nantes, France and KU Leuven, Belgium prior to joining the department of electrical engineering at IIT Indore. His major research focuses on modeling, stability analysis, and controller design within multi-vendor power electronics-based future power systems. With these expertises, I offer mentorship and guidance to highly motivated researchers having a background in power electronics and power systems. Join our vibrant academic community at IIT Indore, where collaboration and innovation thrive. For more details, please visit the website: <https://sites.google.com/view/lokeshdewangan/home>.

For any queries, please contact:

DPGC Convener,
Department of Electrical Engineering,
Indian Institute of Technology Indore, Indore - 453552, India
E-mail: admission-ee@iiti.ac.in