



Indian Institute of Technology Indore
Simrol, Khandwa Road, Indore 453 552
Department of Electrical Engineering

IIT Indore

Date: 23rd November 2023

**Advertisement for Admission to Ph.D. Program in Electrical Engineering (EE) under
Visvesvaraya PhD Scheme**

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) 2023-24 under **Visvesvaraya PhD scheme of Ministry of Electronics and Information Technology (MeitY)**.

Time Schedule of Interview Process:

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Last date of online application through https://academic.iiti.ac.in:8443/nregistration.jsp (for Indian applicants) | 29 November, 2023 (Wednesday) Latest by 17.00 hrs. IST |
| Dates of PhD selection process (online written test and/or online interviews) | 30 November, 2023 (Thursday) |

Minimum Educational Qualifications (MEQs) and Qualifying Examination

Master's degree (preferably M. Tech) in Electrical/ Electronics/ Electronics & Communication/ Computer Technology with specialization in the areas of **Communication and Signal Processing (CSP)** or **VLSI Design and Nanoelectronics (VDN)** or any other relevant area with first division as defined by the awarding institute/university having GATE qualification in EE/EC/IN/PH or UGC-NET-LS qualification or UGC/CSIR/DBT - JRF qualification or DST INSPIRE fellowship or Equivalent fellowship.

OR

Four-year Bachelor's degree OR five-year integrated degree in Electrical Engineering/ Electronics and Communication Engineering OR Electrical & Electronics Engineering/ Instrumentation & Control Engineering (with first division as defined by the awarding Institute/University) AND valid GATE qualification in EE/EC/IN/PH or UGC-NET-LS qualification or UGC/CSIR/DBT - JRF qualification or DST INSPIRE fellowship or Equivalent fellowship.

Financial Support for Full-time PhD candidates under Visvesvaraya PhD Scheme:

Fellowship: As per MeitY Visvesvaraya Ph.D. Scheme.

Research Contingency Grant Support: An amount of Rs. 1,20,000 per year for support duration of PhD candidate.



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Instructions:

1. All interested 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 applicants should take a print out of the application form and sign the same. The scanned copy of duly 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, **GATE score card**, **fellowship award letter**, 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.
3. **Important: DO NOT** send any form or documents by post.
4. **Online PhD written test and/or online interviews** shall be conducted on **November 30, 2023 (Thursday)**. **Only shortlisted candidates will be called for online written test and/or online interviews, and the same will be shared by email to respective candidates on 29 November 2023, 19.30 hrs. No emails or communication, in any form, regarding shortlisting process, change of interview date, syllabus of interview, etc. will be entertained.**
5. The areas of interests and detailed profiles of faculty members are given below.
6. Mere fulfillment of the minimum eligibility criteria does not entitle anyone for admission into the PhD program in Department of Electrical Engineering.

Faculty Profiles :



Dr. Sumit Gautam joined the Department of Electrical Engineering at IIT Indore in Dec'21. He has prior working experience in both industry and academia. His research interests pertain to (but not limited to): Simultaneous Wireless Information and Power Transmission (SWIPT), Wireless Energy Harvesting Methods, Wireless Edge-Caching based cooperative networks, Fronthaul load management: 5G-and-beyond/6G Wireless Communications, Unmanned Aerial Vehicles (UAVs), and Intelligent Reflecting Surface (IRS)-assisted SWIPT. Interested candidate(s) with good background in Communications/Signal Processing/Mathematics(Optimization Theory)/Computer Science (good coding skills in MATLAB/Python/C++) or equivalent is/are highly encouraged to apply. For more



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information about his works, please visit: <https://sites.google.com/site/sumitgautamjbp/home>, or kindly write to him at: sumit.gautam@iiti.ac.in. **Currently, he is looking for a PhD candidate under Visvesvaraya PhD scheme in UAV-IRS Integration for Efficient SWIPT in IoT Networks or related areas with good programming knowledge in MATLAB and/or Python.** Interested candidates who are having background in Wireless Communications, Signal Processing for Communications, etc., as well as good in programming skills are encouraged to apply.



Dr. Santosh Kumar Vishvakarma is leading “Nanoscale Devices, VLSI Circuit and System Design” research group at IIT Indore. His research interests are VLSI Circuit and System design including ASIC/SoC Design of Processor Design for Biomedical Application; Energy-Efficient and Reliable SRAM Memory Design; Enhancing Performance and Configurable Architecture for DNN Accelerators; SRAM based In-Memory Computing Architecture for Edge AI; Reliable, Secure Design for IoT Application and Design for Reliability; Silicon Photonics Circuits; and Quantum Logic and Circuits. He has a very strong collaboration in Industry and Academia across India and globe. As of now, 18 PhD scholar has been graduated and 06 Indian patents has been granted from his research group. For details, please visit: <https://www.skvishvakarma.com/>.