



Department of Electronics and Communication Engineering  
Indian Institute of Information Technology Allahabad, Prayagraj

**Admission to the PhD Program 2022**  
**(With Institute/External Fellowship/Working Professionals)**

07-04-2022

Online applications are invited from highly motivated and qualified candidates for admission to the PhD program at IIIT Allahabad. Candidates applying for PhD program are advised to visit the ECE department's website at <https://ece.iiita.ac.in/> for further information about the detailed research areas of the respective Faculty members and the available research facilities in the department.

**Broad Research Areas**

**Communication, Signal Processing and AI**

- 1) MIMO Communication, Wireless Communication, 5G, Wireless Sensor Network
- 2) IoT, Cyber Security, D2D, V2X Communication
- 3) Optical Communication and Networks, RADAR Communication
- 4) Digital Signal Processing, Speech Processing
- 5) Image and Video Processing, Biomedical Signal & Image Processing
- 6) Machine Learning, Artificial Intelligence, Computer Vision

**Microelectronics and VLSI**

- 1) Solid State Devices and Materials: Modeling and Fabrication
- 2) Flexible and Transparent Electronics
- 3) Analog VLSI, Digital VLSI, Mixed Signal VLSI System Design
- 4) Bio-Sensors: Modeling and Fabrication
- 5) Molecular Electronics, MEMS, NEMS 6) Computational Nanoelectronics

**Power, Control and Instrumentation**

- 1) Automatic Control System, Nonlinear Control systems
- 2) Power electronics, Renewable Energy, Smart Grid, AC/DC systems
- 3) Embedded Systems, Electrical Machines, Electrical Measurements

**RF and Microwave**

- 1) Antenna Design for 5G, 6G, IoT etc.
- 2) RF front end circuit design for Microwave and millimeter wave 3) Microwave Remote Sensing.
- 4) Radar system development (Through-the-wall and Ground Penetrating Radar) and RF imaging for stealth applications

1. Fellowship will be provided to the scholars as per the institute norms.
2. The mode of application is online. To apply and for more details regarding eligibility criteria, general guidelines and faculty specific research areas, please visit:

<https://iiita.ac.in/downloads/announcements/uploads/Advertisement%20for%20PhD%20Admission%2021042022258.pdf>

3. The applicant must submit Statement of purpose (SOP) along with the application (500 words max.)
4. The department can put additional shortlisting criteria for the screening of applications.
5. The written test will comprise of questions from general aptitude and fundamentals of ECE.

**Important Dates:**

- **Start Date of submission for Online Application:** 5<sup>th</sup> April 2022
- **Last date of submission for Online Application:** 4<sup>th</sup> May 2022
- **Intimation to shortlisted candidates for Test and/ Interview (Offline mode):** 15<sup>th</sup> May 2022
- **Date of written test and/ Interview (Offline Mode) :** 9<sup>th</sup> June 2022
- **Announcement of List of Selected Candidates for Admission** 15<sup>th</sup> June 2022