

WALK-IN-INTERVIEW FOR ADMISSIONS TO PhD PROGRAMME AT IIT ROPAR

Walk-in Interviews for admission to the Ph.D. program in the Department of Electrical Engineering are scheduled as follows. Interested candidates who are recipients of external fellowship (**CSIR/UGC-JRF/BET-JRF/INSPIRE/NBHM or any other national fellowship**) are requested to visit the **Department of Electrical Engineering, J. C. Bose Block, IIT Ropar Main Campus, Rupnagar, Punjab 140001** for a walk-in Interview on **11 March 2024, 10 AM**.

S. No.	Department	Date of interview	Time	Venue
1	Department of Electrical Engineering	11 March 2024	10 AM	EE conference room

Research Areas:

1. Microelectronics and VLSI Design

Analog, digital, mixed-signal, RF and broadband integrated circuit design; Electronic packaging; Chemical and Biological Sensors; 2-D Material-based Electronics; Multigate Devices; Memristor or Resistive Random Access Memory; Gate all around MOSFET; Semiconductor devices and reliability; Ferroelectric Memory Devices; Spintronic devices for communication, energy harvesting and neuromorphic applications: Device fabrication, high-frequency measurements and simulation; Topological materials for Quantum sensing and Communication: Device fabrication, transport measurements and simulation; Neuromorphic computing: device, circuits and algorithms design

2. Signal Processing and Communications

Image and Video Processing:

Image processing, Deep Learning, computer vision, Distributed Learning, Machine learning and Quantum Machine Learning.

Wireless Communication and Networks; Internet of Things; AI/ML driven Next generation communication systems; UAV networks; Vehicular Communication, Intelligent Transportation Systems, Radar Systems, mmWave Communication and sensing systems, Underwater Smart Mobility, B5G/ 6G Communication

Antennas for Smart RF and millimeter-wave systems, Wireless Power Transmission, Drone/UAV antennas, detection and localization, RF Energy Harvesting.

3. Power Engineering

Control and automation, Renewable Energy integration, High Voltage Power Systems and Equipment, Dielectrics, Smart and Micro-grids; Power System Dynamics and Control, Power Electronics, Electric Machines and Drives, Electric Vehicle Technologies, Power System Optimization

Minimum Eligibility Qualification (MEQs) for admission to Regular Full-time Ph.D programmes

Sr. No.	Qualifying Degree	Minimum Performance in Qualifying Degree for General/OBC (Non-Creamy Layer)/EWS Category Candidates	Minimum Performance in Qualifying Degree for SC/ST/PwD category Candidates	Qualification Through National Level Examination Requirements
1.	M.Tech./M.E/M.D. or equivalent or M.Sc./MBA/M.A./M. B.B.S. or equivalent or B.E./B.Tech. or equivalent four years program	60% marks or 6.00 CGPA on a 10-point scale	55% marks or 5.5 CGPA on a 10-point scale	Candidates must have External Fellowship (CSIR/UGC-JRF/BET-JRF /INSPIRE/NBHM or any other national fellowship)

The department may fix higher cutoff/selection criteria than the MEQs.

Important Note:

Mode of Interview: The walk-in interview will be in physical mode.

- IIT Ropar reserves the right to admit/ not admit for any of the advertised areas and apply appropriate criteria for shortlisting/selection of the candidates.
- The decision of the competent authority in all matters relating to the eligibility of the candidate, written test/interview and admission would be final and binding on all the candidates. In case of any dispute/ambiguity that may occur in the process of admission the decision of the Institute shall be final.
- All the details furnished in the application will be treated as final and no changes shall be entertained. Non submission of valid/required documents and/or incomplete application will lead to summarily rejection.
- Please bring following documents at the time of interview:
 - All your original certificates and also self-attested photo copies of the certificates (from Class X onwards).

- ii. Qualifying certificate of the **CSIR/UGC-JRF/BET-JRF/INSPIRE/NBHM or any other national fellowship)**
- iii. Those who belong to SC/ST/OBC/OBC-NCL/General-EWS category must produce a certificate of the same. Certificates related to OBC-NCL/EWS should be issued in the current financial year as per DOPT format.
- iv. Any other relevant documents (e.g., experience certificate, etc.).
- v. One updated resume & passport size photograph.
- vi. Please download the application format. Fill it, pay the fees, and submit it to the relevant department on the date of interview.

Application Fee: Women candidates & SC/ST/PwD category candidates : Rs. 100/- All other candidates : Rs. 200/- . The fee is to be paid by SB Collect (Online Payment System). Applications without online payment details will not be considered. Fees payment method is as follows:

Procedure for payment of application fee through SB collect:

1. Go to <https://www.onlinesbi.com/>
2. Select SB collect.
3. Tick the terms and conditions and continue.
4. Select state - Punjab.
5. Select educational institute - I I T Ropar (Type I I T Ropar after giving space in each letter of IIT).
6. Select the option for the payment category.
7. Pay the requisite fee.

One application fee is valid for a single application. The application fee is non-refundable.

INDIAN INSTITUTE OF TECHNOLOGY ROPAR

APPLICATION FORM

Personal Details

Full Name (In capital)			
Name of Department applying			
Research Area(s)			
Date of Birth (DD/MM/YY):	Category GEN (SC/ST/OBC/EWS):	Affix a recent passport size photo	
Marital Status (Single/Married):	Gender (Male/Female)		
Nationality			
Present Address for Communication	Permanent Address		
Mobile/Phone No.		Email:	

Details of School/University/Institute Studied (From Matriculation Onward)

S. No.	Degree	Discipline	University/Inst itute	Regular/ Part-time	Year	%Marks /CGPA	Division

Details of External Fellowship (CSIR/UGC-JRF/BET-JRF/INSPIRE/NBHM or any other national fellowship etc.)

Qualifying Examination	Branch	Year	Valid Up to	Percentile	Score	All India Rank	duration of fellowship

Professional Experiences (Teaching/Research/Industrial)

Name of Organization	Designation	Nature of Work	From	To

Research Publication/Patents/Awards/Accomplishments (if any):

Any other Information (use a separate sheet if required):

DECLARATION

I hereby declare that I have carefully read the instructions and particulars supplied to me and that the entries made in this application form are correct to the best of my knowledge and belief. If selected for admission, I promise to abide by the rules and discipline of the Institute. I note that the decision of the Institute is final in regards to the selection. The Institute shall have the right to expel me from the Institute at any time after my admission, provided it is satisfied that I was admitted on false particulars furnished by me or my antecedents prove that my continuance in the Institute is not desirable. I agree that I shall abide by the decision of the Institute, which shall be final.

Place:

Date:

Signature of the Applicant
