

Ph.D. Admissions Announcement: Monsoon-2023
Department of Electrical Engineering

The Department of Electrical Engineering (EED) at Shiv Nadar Institution of Eminence (Deemed to be University), Delhi NCR invites applications for admission to its Full-Time and Part-Time Ph.D. program.

Research Areas:

- IoT system architecture, IoT enabling technologies, IoT communication & networking protocols. IoT for smart agriculture, smart health, and smart cities.
- SIW/ OAM/Active/ MIMO Antenna, active and passive circuit, Sub-terahertz and terahertz antennas, photoconductive antennas, 5G antennas and devices, microwave devices, Metamaterials based antenna and slow wave structures, Planar Traveling wave tubes, Radar based detection for medical purposes.
- Multi-antenna (MIMO) systems for next-generation wireless systems (5G/6G), 5G and beyond, wireless communication, optical wireless communications.
- Machine learning in computer vision and facial expression recognition, machine learning in wireless communication, brain signal processing applications.
- Reliability-aware design of advanced computing architecture; modelling of advanced transistor architectures and on-chip interconnects, and their circuit implications, CAD algorithms for VLSI.
- Semiconductor/MEMS sensors and devices for various applications e.g. RF, biomedical, IoT etc.
- Organic and flexible electronics: organic solar cells, perovskite solar cells, and fundamental studies on charge transport in organic semiconducting materials and devices.
- Transport in semiconductor, TCAD, advanced semiconductor devices, VLSI for smart power applications.
- Electromagnetics, energy systems, photovoltaic power system, power electronics.

Department is also engaged in interdisciplinary work with research groups spanning across schools at Shiv Nadar Institution of Eminence/other institutes and Universities.

For more information, please visit following link to explore the department and research interests:

<https://ee.snu.edu.in/people/faculty>

Eligibility for Full-Time/Part-Time candidate:

Qualifying Degree	Minimum performance in qualifying degree
M.Tech./M.E. or equivalent degree in Electronics & Communication/ Electrical & Instrumentation/ relevant discipline	60 % or 6.5 CGPA from a recognized technical institute or University
M.Sc.* in Physics with specialization in electronics/solid state engineering, M.Sc. Mathematics with specialization in signal processing/ theory of computation.	70% or 7.5 CGPA from a recognized technical institute or University
B.Tech./B.E.* in Electronics & Communication/ Electrical & Instrumentation/ relevant discipline	70% or 7.5 CGPA from a recognized technical institute or University

*M. Sc./ B.Tech./ B.E. candidates with valid GATE / CSIR/UGC-NET/ INSPIRE fellowship will be preferred.

Note:

(i) Applicants waiting for the qualifying examination results are also eligible to apply. However, those who are finally qualified must produce proof of minimum eligibility of marks or an equivalent grade point before taking the admission in the EED Ph.D. program.

(ii) Part Time Ph.D. applicant should be working in the relevant area (Industry/Academic/Research Institutions) for a minimum of 2 years. Candidate is required to produce a No Objection Certificate from the employer at the time of admission.

Selection Process

- Eligible candidates will be called for written test conducted by the department (**online mode**).
- Candidates will be shortlisted and called for an interview based on written test performance. Interviews will be conducted at the Shiv Nadar IoE, Delhi NCR campus (in exceptional cases it can be held online).
- Candidates with a valid GATE score of 95 percentile or higher will be exempted from the written test.
- Eligibility criteria mentioned above are the minimum and applications not meeting the same will be summarily rejected.
- The shortlisted candidates will be entitled for re-imbusement of 3AC train fare (to and fro) against actual ticket for appearing in interview process. For outstation candidates, accommodation in Shiv Nadar IoE campus may be arranged on payment basis. Transport may also be arranged from Greater Noida, Pari Chowk, metro station to for the interview process.
- Please note that candidates meeting the minimum eligibility criteria may still not be shortlisted for the admission process. The shortlisting will be done based on the academic qualification and statement of purpose. Hence, not all application may be shortlisted for written examination.

Syllabus: Mathematical aptitude/reasoning and knowledge in core subjects of Electrical Engineering/ Electronics & Communication Engineering will be tested (refer latest GATE Syllabus of Electrical Engineering and Electronics & Communication Engineering respectively).

Financial Assistantship and Ph.D. Program Fee Details: All full-time Ph.D. students admitted into the program shall receive a doctoral award (teaching assistantship) consisting of full tuition-fee waiver (as per department policy) and a monthly stipend of ₹40,000 for the first two years, and ₹45,000 for the next three years, subject to benchmarked performance. More details can be found at: <https://snu.edu.in/admissions/graduate-programs>

Application Instructions: All interested applicants should apply online by clicking on “**APPLY NOW**” button or on the website. Please follow the instructions carefully and fill mandatory fields. Upload the following documents:

- Passport size colour photograph
- Current CV
- All mark sheets/degree certificates (10th grade onwards)
- National level examination certificate- CSIR, UGC, GATE etc. (If applicable)
- A statement of purpose

Application Fee: Applicant will be required to pay a non-refundable application fee of INR 1200. Application fee can be paid by online payment options during the application submission. No request for refund of application fee will be entertained under any circumstances.

Note that the application is not deemed complete until all the prescribed documents and application fees are received on an online application portal.

Application Deadline:

Events	Date
Last date for the receipt of completed online application form & application fee	July 19, 2023
Written Test (To be conducted in online mode)	July 25, 2023
Interview of the shortlisted candidates only (based on written test cut-off)	July 31, 2023
Final Result Declaration	Aug 8, 2023

The tentative dates are given above, any changes to the dates of the written test and interview will be communicated in due course.

Contacts:

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For further information visit our website www.snu.edu.in

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