



SHIV NADAR UNIVERSITY

School of Engineering

**The Department of
Computer Science and Engineering**

Doctor of Philosophy Programme

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About the Programme

Objectives:

The Ph.D. program is designed to prepare students for highly rewarding careers in academia and research labs. The demand for quality PhDs is increasing at a rapid rate in the country, thereby creating an ever widening gap between the demand and supply.

Depending upon the academic preparation, admitted candidates are exposed to a wide range of core and elective courses with in-depth syllabi. In addition to this, students write a research proposal and start pursuing research that eventually culminates in a Ph.D. thesis. Such an excellent combination of academic excellence in subject matters and top notch research, equips SNU PhDs in CSE with strong knowledge and research skills necessary for pursuing highly productive careers.

Areas of Specializations

The research interests of the current faculty members in Computer Science and Engineering department span the following emerging domains:

- **Theoretical Computer Science**
- **Data Science and Engineering**
- **Artificial Intelligence and Machine Learning**
- **Modeling and Simulation**
- **Security and Privacy**
- **Wireless, Mobile Computing and Networking**

The student is required to work in an area aligned with the current research interests of the faculty in the department. For multi-disciplinary research work, approval of the Departmental Research Committee is required.

Admissions to the Programme

Eligibility

Educational Qualification	Selection process
<p><u>Ph.D. Computer Science and Engineering -Full Time</u> ME / M.Tech. in CSE/IT or equivalent in relevant discipline from a recognized Technical Institute or University with 60% marks or 6.5 CGPA in qualifying degree.</p> <p style="text-align: center;">OR</p> <p>MCA/M.Sc.(CS/IT/ECE/Mathematics/Physics/Statistics/Operational Research) with exceptionally good academic credentials.</p> <p><u>Ph.D. Computer Science and Engineering - Part Time</u> ME / M.Tech. in CSE/IT or equivalent in relevant discipline from a recognized Technical Institute or University with 60% marks or 6.5 CGPA in qualifying degree. The candidate should be working in the area of Computer Science/Information Technology (Industry/Academic Institutions) for a minimum of 2 years and located within 50 km of SNU</p> <p style="text-align: center;">OR</p> <p>MCA/M.Sc. (CS/IT) with exceptionally good academic credentials.</p> <p>For clarification, contact simple.sharma@snu.edu.in</p> <p>Applicants waiting for the qualifying examination results are also eligible to apply.</p>	<p>Shortlisted candidates will be intimated by 15th June 2020 to appear for written tests and interviews as mentioned below.</p>

Important Dates

Last date for the receipt of completed application form & application fee	10 th June, 2020
Notification to shortlisted candidates	15 th June, 2020
Written Tests and Interview	3 rd July, 2020 (at Shiv Nadar University campus)
Declaration of Results	9 th July, 2020

Selection Process

Eligibility criteria mentioned above is the minimum requirement. Written test followed by an interview for shortlisted candidates will be held on 3rd July 2020. Final selections will be based on past academic performance, written examination and interview.

- *Relevant GATE score for M.Sc./MCA candidates seeking admission to Full-time Ph.D program is mandatory for assistantship and is optional for M.Tech. candidates.

*Relevant GATE score in the following areas:

Computer Science and Information Technology, Engineering Sciences, Mathematics, Statistics, Electronics and Communication Engineering and Electrical Engineering

Syllabus for Written Test

The Syllabus for the written test will be as follows:

- **Logical Ability Test**
- **Mathematical Sciences** – Linear Algebra, Probability and Statistics, Calculus, Discrete Mathematics, Elements of Optimization, Elements of Combinatorics, Elements of Number Theory
- **Computer Science** – Programming, Data Structures and Algorithms

Fees Structure, Fee Waivers and Assistantships

Detailed information about the fee structure and the nature of assistantships are available on the website.

All full-time PhD students admitted into the program shall receive a **doctoral research and teaching assistantship consisting of 100% tuition-fee waiver and 70% hostel-fee waiver**. The student shall also receive a **monthly stipend of ₹50,000 for the first two years, and ₹55,000 for the next two years** subject to bench-marked performance. The assistantship is subject to satisfactory performance in the program evaluated continuously and compliance with all University regulations.

SNU does not provide fellowship/assistantship to part-time students.

Application Fees

- Non-refundable* application fees of Rs. 1200 (One Thousand Two Hundred Only).
- Pay by credit/debit card on-line

*Note that the University reserves the right to accept or reject any application based on its departmental screening criteria, hence all applications may not be shortlisted for written examination and/or interview. No requests for refund of the application fee shall be entertained under any circumstances

Application Instructions

All interested applicants shall apply online using the link provided in SNU Website. Please follow the instructions carefully.

- After online submission, take print out of the submitted form for your record.

Please note that the application is deemed to be incomplete until we receive all the necessary prescribed documents and the application fee.

Address for Speed Post:

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