INDIAN INSTITUTE OF TECHNOLOGY DELHI

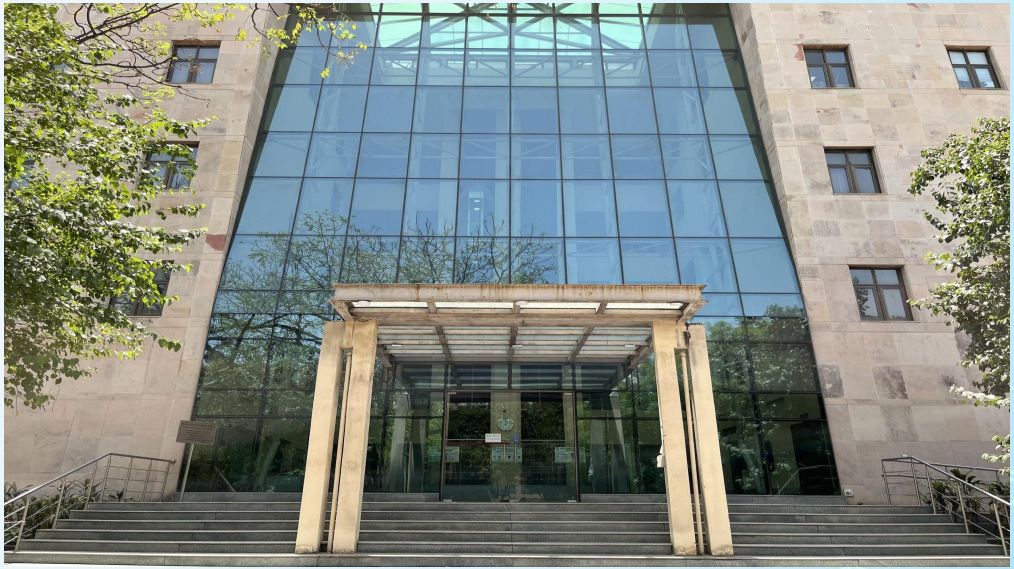


School of Information Technology

Placement Brochure 2023-24

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Amarnath and Shashi Khosla School of Information Technology (SIT), IIT Delhi

About SIT

The **Amar Nath and Shashi Khosla School of Information Technology** was established in 2004, under the aegis of **IIT Delhi**, with an endowment from the distinguished IIT alumnus **Vinod Khosla** (B.Tech., EE 1976). The school aims to foster **interdisciplinary, goal-oriented research**, innovation, and postgraduate education in information technology. It undertakes research in diverse interdisciplinary areas with significant application of information technologies. It has **state-of-the-art laboratories** for all students and faculty members working in related areas.



Programs

M.Tech in Cybersecurity

The interdisciplinary **M.Tech Programme in Cybersecurity** is a Master's program offered to students interested in advanced learning in any area of cybersecurity. The course was introduced to bridge the gap between **industry needs and the required skills** in the domain of **cybersecurity**. This program combines advanced lecture and laboratory coursework along with an **18-month M.Tech thesis project**. The students also take additional elective courses that open avenues for better placements in academia and industry. The course structure has been divided into three specializations:

- System Security and Cyber Forensics
- Cryptography and Cryptanalysis
- Embedded System and Hardware Security



Programs

Master of Science (Research): M.S.(R)

The M.S. (Research) program is a research-oriented Master's program where the credit requirements are lighter in terms of coursework and heavier in terms of research. The course structure is flexible. Students can register for any course with permission from their supervisor.

Doctor of Philosophy: Ph.D.

SIT's ~50 Ph.D. students address various interdisciplinary and application-oriented research topics related to computing. SIT's Ph.D. students are financially supported by prestigious high-value fellowships from government and industry sources such as **Prime Minister's Research Fellowship (PMRF)** and **Google Fellowship** in addition to Institute Assistantship.



Why Hire Us ?

- Our students are from **diverse engineering backgrounds** and are taught by the **best faculty** from the Department of Computer Science and Engineering, Department of Electrical Engineering and Department of Mathematics.

- They **specialize in their areas of interest** with subjects like Network & System Security, Machine Learning & Artificial Intelligence, Embedded Systems & Computer Architecture and Formal Verification.

- They work on **industry-related projects** such as 5G Network Security, Federated Learning, Vehicular Network Security and Artificial Intelligence.



Key Courses

- Advanced Computer Networks
- Advanced Data Structures and Algorithms
- Architecture of High Performance Computers
- Blockchains, Cryptocurrencies and Smart Contracts
- Parallel Programming and Real Time Systems
- Machine Learning and Artificial Intelligence
- Cryptography and Computer Security
- Cyber-Physical Systems
- Hardware Security
- Network and System Security
- Virtualization and Cloud Computing



Lab Facilities

- Secure Hardware System Design Lab
- Cybersecurity Lab
- VLSI Design and Tools Lab
- Penetration Testing Lab





- Architecture, Embedded Computing Lab
- Mobile and Machine to Machine Lab
- Graphics Modeling Lab
- Technology and Development Lab

Research Areas



- Cryptography
- Hardware Security
- Computer Graphics
- Embedded Systems
- Network and Mobile Security
- Security in 5G Network and IoT
- Social Network Analysis
- Natural Language Processing
- Compilers and Operating Systems
- Data Mining and Knowledge Discovery
- Machine Learning and Artificial Intelligence
- Computer Vision and Medical Image Analysis



Contact Information



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