Department of Computer Science and Engineering

Department of Computer Science and Engineering since its establishment in 1982, progressed steadfastly to its present status of being reckoned as a leader in Computer Science and Engineering education. The department is currently having six Computer Laboratories with approximately 25 high-end desktop computers within each laboratory. Besides this the department is equipped with high end servers and related networking equipment to provide the internet connectivity in the whole campus. The department also maintains the wired and wireless connectivity in the institute premises with 1 Gbps internet bandwidth through NKN Project, Government of India.

Department is actively involved in conducting faculty development programmes in the upcoming areas such as AI and Machine Learning, Data Science, Deep Learning, Open Source Technologies, Wireless Networks, Cloud Computing, Cyber Security, MATLAB Programming, etc. for the faculty and staff of Polytechnics and Engineering colleges. The Department also offers Master of Engineering (Regular & Modular) in Computer Science & Engineering for teachers of Polytechnics, Engineering Colleges, Officials of Directorate of Technical Education, Industry Professionals & Fresh Graduates. Further, department also offers Ph.D. programme in the area of Wireless Networks, ML/DL Applications, Network Security, Cloud/ Edge/ Fog Computing, Image processing, etc.

LABORATORIES

- **IBM Software Lab for Emerging Technologies**
- **Software Laboratory**
- **IoT Laboratory**
- **Cyber Security Lab**
- **Research & Innovations Lab**
- **Computer & Network Support Center**

VISION

To be a centre of excellence for promoting education, training and research in the field of Computer Science and Engineering.

MISSION

- To offer continuing education and training programs for the faculty and staff of the technical education system.
- To develop need based curricula.
- To develop instructional material to enhance effectiveness of teaching-learning process.
- To undertake research and development.
- To provide extension and consultancy services to technical education system and industry.

TWO - YEAR M.E. IN COMPUTER SCIENCE AND ENGINEERING PROGRAMMES (REGULAR)

Recognizing the need to provide professionally trained teachers and administrators for the technical education system and also to offer professional development opportunities to working technical and training personnel in the industry, Department of Computer Science and Engineering has started offering Master of Engineering in Computer Science and Engineering (Regular Mode) since 1994. This program is affiliated to Panjab University, Chandigarh and got NBA accreditation for the academic years 2016-17 to 2021-22 (6 years).

QUALIFICATION AND EXPERIENCE FOR ADMISSION

A Bachelor's Degree in Computer Science & Engineering/Electronics Engineering/ Electrical Engineering/ Instrumentation & Control Engineering/Information Technology from a recognized University or its equivalent with at least 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in teaching / industry / research organization. Fresh graduates can also apply.

Sanctioned Strength (including EWS): 23

SALIENT FEATURES OF M.E. COMPUTER SCIENCE AND ENGINEERING

Training Programmes in emerging areas such as AI/ML/Deep Learning, Blockchain Technology, Cyber Security, etc. to equip students with emerging technologies.

The department is having industrial and R&D collaboration with IBM, CSIO, IIT Ropar, IIT Roorkee, IIT Bombay, etc.

JOB OPPORTUNITIES THROUGH ONLINE AND OFFLINE CAMPUS PLACEMENT DRIVE

Students have enrolled for Higher Education (Ph.D.) after completion of M.E. CSE at Institutes of National Importance such as, IIT Ropar, IIT Kanpur, NIT Kurukshetra, NIT Srinagar, CSIO, Chandigarh, Punjab Engineering College, Chandigarh, etc.

Students are placed in various technical institutes as Faculty, such as, Guru Jambeshwar University Hisar; Punjab Engineering College, Chandigarh; KIET Group of Institutions, Ghaziabad; iNurture, Bengaluru; etc.

Students are placed in industries like Infosys Bengaluru; Data Scientist, Business Intelligence, Healthians, Gurugram; Node JS Developer at Mysense Technologies, etc.

Student Entrepreneurs Initiatives like Hash Logic Infosec Pvt. Ltd., Mohali; Eklavya Academy, Nawanshahr, etc. Other placements like Commonwealth Bank of Australia, Bengaluru
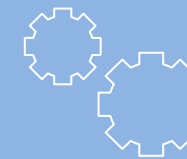
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Email Id: cseoffice@nitttrchd.ac.in, academiccell@nitttrchd.ac.in

For detailed information about the programme, click here

AREAS OF RESEARCH

- **AI/Machine Learning and Deep Learning**
- **Wireless Communications & Networks**
- **Cryptography & Cyber Security**
- **Recommender Systems**
- **Cloud / Edge/ Fog Computing**
- **Image Processing**
- **Information Retrieval**

SOFTWARE TOOLS AVAILABLE

- **MATLAB**
- **STATISTICA**
- **NetSim Simulator**
- **Turnitin and many more**