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Department of Computer Science and Engineering



**NATIONAL INSTITUTE OF
TECHNICAL TEACHERS TRAINING
AND RESEARCH**

**Sector 26, Chandigarh – 160019
INDIA**

Phone No 0172-2759769/687



VISION

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

MISSION

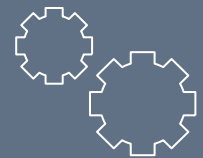
- To offer continuing education and training programs for the faculty and staff of the technical education system.
- To develop need based curricula.
- To develop instructional material to enhance effectiveness of teaching-learning process.
- To undertake research and development.
- To provide extension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



Brief Profile

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. All laboratories are equipped with high end computers along with required software. 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 as well as residential campus. Various software related to Multimedia, Web Application Development, Network Simulation, Digital Image Processing, Cloud Computing, Databases and other Application software are available with the department.

Department is actively involved in conducting short term training programmes in the upcoming areas such as Big Data Analytics, Machine Learning, Python Programming, Cyber Security, Penetration Testing and Malware Analysis, Cloud Computing, MATLAB Programming, Scilab 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. In the year 2020, the department started ME CSE (Specialization in IOT). Further, department also offers Ph.D. programme in the area of Image processing, Wireless Network, Mobile Adhoc Networks, Network Security, Cloud Computing etc.



LABORATORIES

- Software Lab
- Cyber Security Lab
- IBM Software Lab for Emerging Technologies
- Research & Innovations Lab
- Computer Network and Support Centre
- IoT Lab



AREAS OF RESEARCH

- Wireless Communications & Networks
- Cryptography & Cyber Security
- Advance Algorithms
- Machine Learning and Data Mining
- Image Processing
- Virtual Learning
- Open Source Technologies
- Cloud computing

ACTIVITIES OF THE DEPARTMENT

LONG TERM PROGRAMMES

Department offers the following programmes duly approved by AICTE and affiliated to Panjab University, Chandigarh.

- **Ph.D. Programme**
- **M.E. (Computer Science and Engg.) (Regular/Modular mode)**
- **M.E. (Computer Science and Engg.) with Specialization in IoT (Internet of Things) (Regular)**

SHORT TERM PROGRAMMES

Department offers need-based and customized short term courses of one/two week duration for the faculty and technical staff of Engineering colleges and Polytechnics. The training programmes are offered are:

- **Machine Learning**
- **Big Data Analytics**
- **Python Programming**
- **Internet of Things**
- **Linux Administration**
- **Cyber Security**
- **Matlab/Scilab Programming**
- **Wireless Networks**
- **Mobile / Cloud Computing**
- **Cyber Crimes and Forensic Tools**
- **Multimedia/ Web Technologies**

SOFTWARE DEVELOPMENT

Department develops software for the requirements at the Department and Institute level. The various projects completed are as:

- **Online Training Management System**
- **NITTTR, Chandigarh Technology Enabled Learning (NCTEL)**
- **Online Feedback Tool**
- **Website Design and Development**
- **Software Development for various consultancy projects**



ON GOING SPONSORED PROJECTS

1. **AICTE Share and Mentor Institutions (Margdarshan) Scheme**

NETWORK ADMINISTRATION

Department maintains and coordinates internet services to entire institute, i.e.,

- **Wired and Wireless connectivity**
- **1 Gbps Internet Connectivity provided through NKN Project, Government of India**
- **Maintenance of computer and other peripherals and intranet server.**

INSTRUCTIONAL MATERIAL DEVELOPMENT

Department has produced a large number of instructional materials both print and non-print, for the benefit of faculty, students etc.