



## Computer Science and Engineering Department

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# At a glance (Established in 1982)

## Computer Science & Engg. Department



# MAJOR ACTIVITIES

01

**Masters in Engineering Programs**

02

**Ph.D. Programs (QIP – Engg. & Poly./Direct)**

03

**Faculty Development Programs (FDPs)**

04

**Consultancy Services**

# MASTERS IN ENGINEERING PROGRAMS

- ✓ M.E. - CSE (Regular) – Since 1994 (**Awarded Full Accreditation by NBA, Delhi for 5 years + 1 Year Extension** )
- ✓ M.E. - CSE (Modular) - Since 2005
- ✓ **M.E (CSE) with specialization in IoT** - Since 2020



# PH.D. PROGRAMS (QIP – ENGG. & POLY./DIRECT)

## Research Areas:

- ✓ Cyber Security
- ✓ Cloud/Fog Computing
- ✓ NextG Wireless Networks
- ✓ Image Processing
- ✓ Internet of Things
- ✓ Machine Learning and AI
- ✓ Data Analytics



*Research Center: Panjab University Chandigarh, J.C. Bose University of Science & Technology Faridabad,  
I.K. Gujral PTU Jalandhar.*

# FACULTY DEVELOPMENT PROGRAMS (FDPS)

**FDPs are conducted in the upcoming areas: (both in Contact Mode and ICT Mode)**

- Cyber Security
- Cloud, Fog and Edge Computing
- Data Science
- Preparing Institutions for Accreditation (NBA and NAAC)
- Machine Learning & AI
- Internet of Things (IoT)
- Big Data Analytics
- Blockchain Technology
- Many more...

**Target Group:** Faculty and Technical Staff of Engineering College & Polytechnics

# CONSULTANCY SERVICES

- ✓ Tailor-made Training Programmes for Industry Professionals
- ✓ Web Applications and Mobile App Design & Development
- ✓ Curriculum Design and Development

# INFRASTRUCTURE

- IoT Lab (Sponsored by AICTE, New Delhi)
- Cyber Security Lab (Sponsored by MeitY, GoI)
- Research and Innovation Lab
- IBM Software Lab for Emerging Technologies
- Green & Smart Data Centre
- Computer Hardware and Network Support Centre
- ICT Based Smart Class Rooms



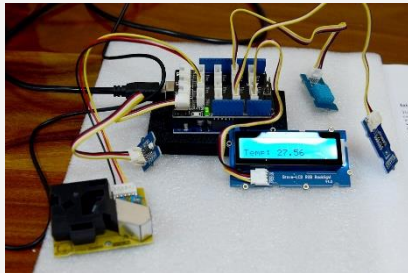
# LABORATORY FACILITIES



**Software Laboratory**



**IBM Supported Laboratory/ ME Classroom**



**Internet of Things (IoT) Laboratory**

# LABORATORY FACILITIES



**Cyber Security Laboratory**



**CCNA and Computer Hardware Laboratory**



**Research and Innovation Laboratory**



# GREEN & SMART DATA CENTER





# FACULTY CHAMBERS





# DEPARTMENTAL LIBRARY



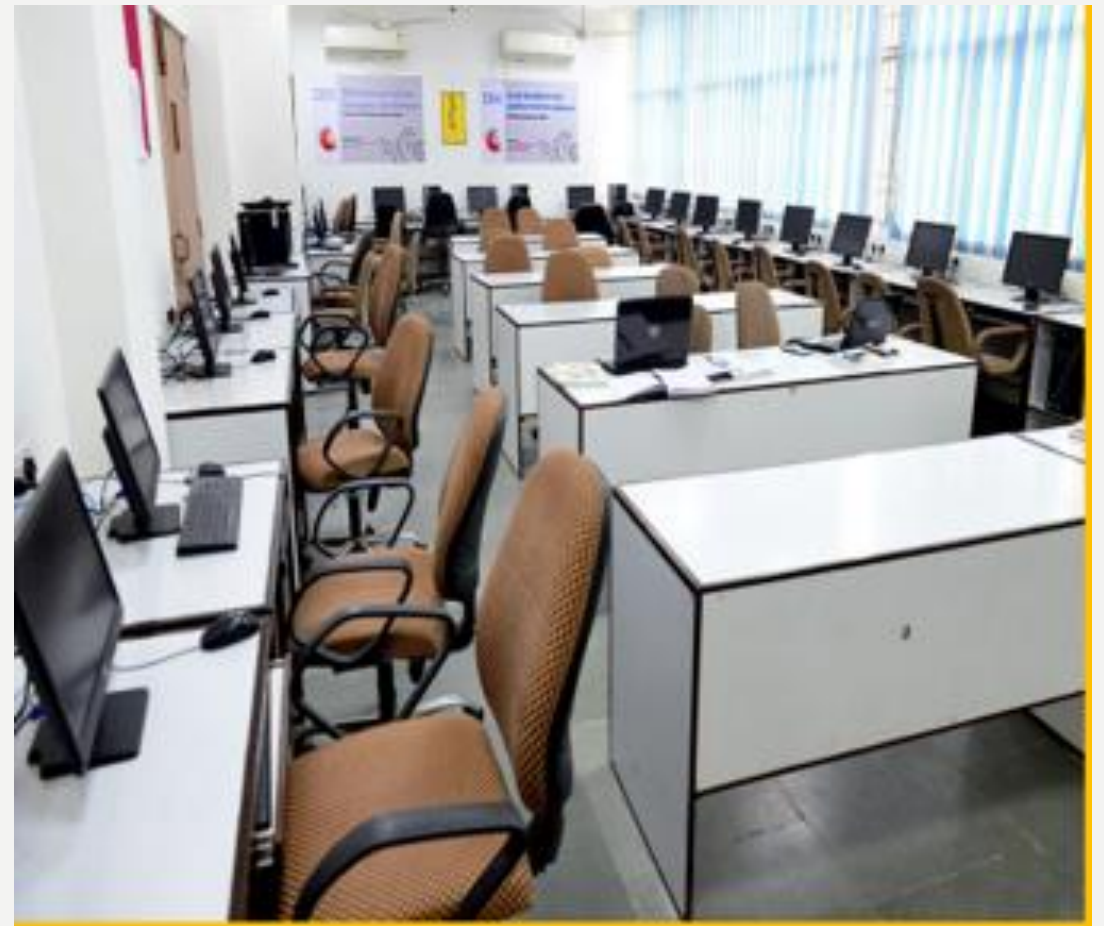
**APPROX. 550 NO OF BOOKS  
PH.D. & M.E. THESIS REPORTS**

# A GLIMPSE OF TRAINING SESSION IN PROGRESS IN CYBER SECURITY LAB





# IBM SOFTWARE LAB FOR EMERGING TECHNOLOGIES



# COMPUTER HARDWARE & NETWORK SUPPORT CENTER



Cutter



OTDR



Splicing Machine



Power Meter and Source Meter



# A GLIMPSE OF EXPERT DELIVERING LECTURE IN ICT BASED SMART CLASS ROOM





# INSTITUTE WEBSITE: WWW.NITTTRCHD.AC.IN

## (DESIGNED & DEVELOPED BY CSE DEPARTMENT)



National Institute of Technical Teachers Training & Research, Chandigarh  
(Ministry of Education, Government of India)

राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान, चंडीगढ़  
(शिक्षा मंत्रालय, भारत सरकार)

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M.E. admission 2021 [New](#)

M.E. Semester Fee Submission

### Operational Plan

OPlan 2021-22 [New](#)

### Extension Services

6 Weeks/6 Months Industrial Training for Students

Online Skill Courses

### Awards & Achievements

NITTTR, Chandigarh wins Overall Trophy during 12th Inter-NITTTR Sports Meet-2019  
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[Click to view all Awards ->](#)



One-day event on 'ACHIEVING DREAM OF SELF RELIANT INDIA BY INCULCATING CULTURAL VALUES'

### VISION

- To be a lead resource institute for promoting excellence in technical education system.

### MISSION

- To offer continuing education and training programs for the faculty and staff of the technical education system.
- To develop need-based curricula for technical education programs.
- To develop instructional material to enhance effectiveness of teaching-learning process.
- To undertake research and development in engineering &

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# NCTEL : AN ONLINE TEACHING-LEARNING PORTAL

(DESIGNED & DEVELOPED BY CSE DEPARTMENT)



## NITTTR Chandigarh Technology Enabled Learning ( NCTEL )

NITTTR Home

HOME

Development Team

IRDT, Kanpur

Contact Us

Feedback

### Departments

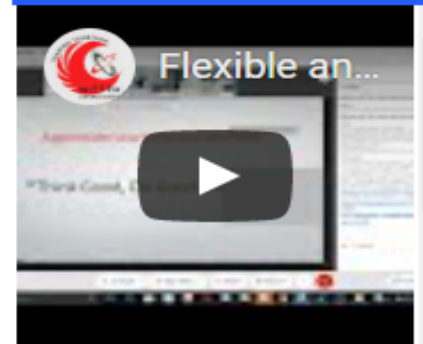
- Applied Sciences
- Civil Engineering
- Computer Science & Engg.
- Curriculum Development
- Education & Educational Mgt.
- Educational Television Centre
- Electrical Engineering
- Electronics & Comm. Engg.
- Entrepreneurship Development
- Mechanical Engineering
- Media & Cont. Education Centre

### About NCTEL

NITTTR, Chandigarh Technology Enabled Learning (NCTEL), an idea conceived by Prof. (Dr.) M. P. Poonia, the Director of the institute is a step forward to integrate technology to the Teaching Learning (T-L) system marching with the MHRD, Govt. of India mission on Teachers & Teaching. It was implemented under the guidance of Dr. S.S. Pattnaik and Dr. C. Ramakrishna. The e-resources of the institute are now made available to one and all, not only at the national level but also in the global domain to create a dent in the ICT implementation on teaching-learning. NCTEL saw the day- light to physically realize this dream. This technology enabled learning system aims to enhance the reach and the quality of technical education in the country while preaching to the faculty members to adopt technology in T-L to cope up with the challenges posed in the global scenario. At its infant state, the NCTEL is a baby with 300 videos, encompassing the horizon of core engineering departments of the institute and the induction training programmes. But the contributions of other departments and centers of this institute in terms of the video films are also being uploaded.

Panning over the time-line, in the year 1985, the institute realized the need of mass media and developed a studio and became the national support system to run the Tech Vision Channel of Gyanvani. The institute also proved its potential in the MHRD-ISRO joint mission of Edusat by running the satellite based programmes in a national beam (AICTE Beam). The penetration of IP based technology to the Teaching-Learning system was felt with time. The growing need for quality teachers to meet faculty requirement in exponentially growing number of technical institutions poses a challenge to the system. Therefore, under the leadership of Prof. M. P. Poonia, the Director of the institute the institute started ICT based training programme from September, 2012. The institute penetrates the unreached region by integrating Social Network, Video Conferencing & Face-to-Face mode of communication.

### Eminent Personalities



Dr. S.S. Pattnaik



## **Open for collaboration in:**

- ✓ **R&D /Consultancy Project Proposals**
- ✓ **Ph.D./M.E. Thesis Guidance**
- ✓ **Organising Joint FDPs**



# Link for Virtual Tour of the Department

<https://youtu.be/Fb-1B0P043U>

