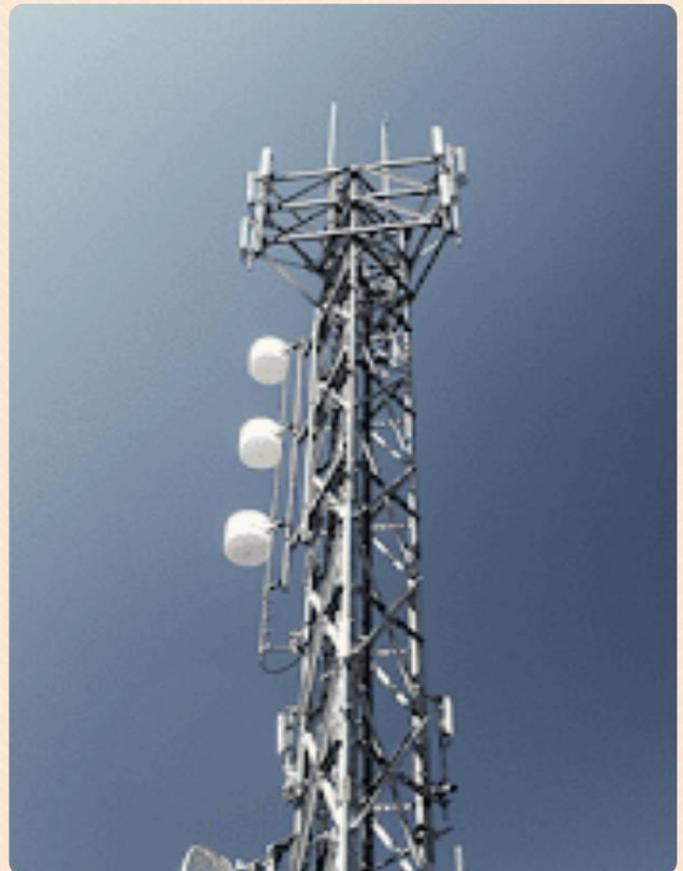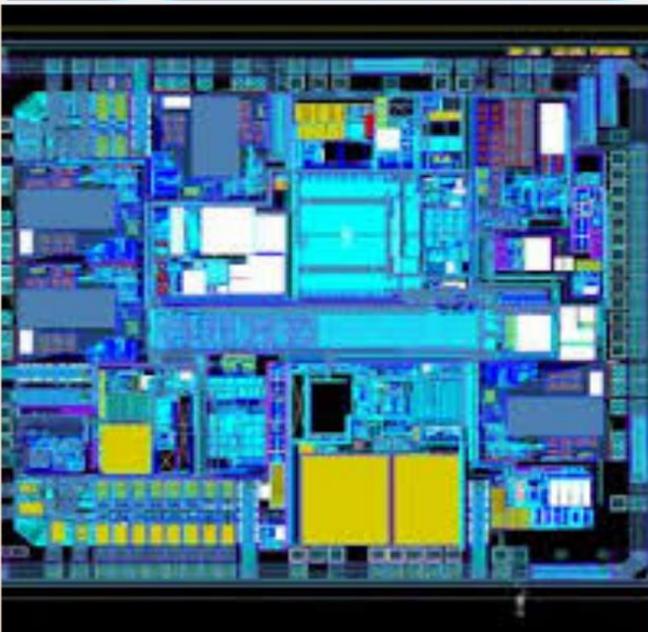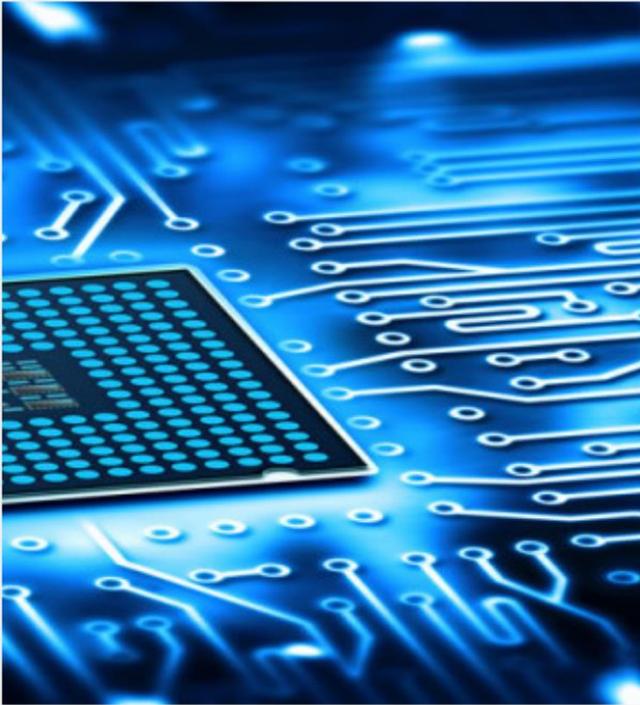# e-Magazine under Student Chapter
"ELECTROVYOMIC"

ECE DEPARTMENT

www.nitttrchd.ac.in

JUNE'21 to DEC'21

Vision

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

Department Overview

The Department aims to provide quality education in the domain of Electronics and Communication Engineering through a periodically updated curriculum, effective teaching-learning process, state-of-the-art laboratory facilities, and collaborative ventures with the industries.

The laboratories of the department are well equipped with sophisticated equipment and professional EDA tools in the fields of Communication Engineering, Control and Embedded Systems, VLSI design, Digital Signal Processing, and Image Processing. The department emphasizes the development of hands-on skills of the students to complement their theoretical knowledge. As such, the department organizes periodically conferences, training programs, and workshops to train students with the latest technologies apart from the prescribed curriculum.

The department has a vibrant learning environment where all the students and faculty members nurture the spirit of innovation, and creativity and contribute effectively to the advancement of technologies.

The department offers need-based and customized Short Term Staff Development Programs of one- or two-week duration at the Regional and National Level for the faculty and technical staff of Polytechnics and Engineering Colleges in the newly emerging areas to fulfill the objectives and mission of the Institute. The areas offered for short term courses are –

- Wireless LANs & Computer Networks
- Advanced VLSI Design
- Digital Signal Processing
- Wireless & Mobile Communication
- Digital & Data Communication,
- Embedded & Digital System Design
- Artificial Neural Networks & Fuzzy Logic
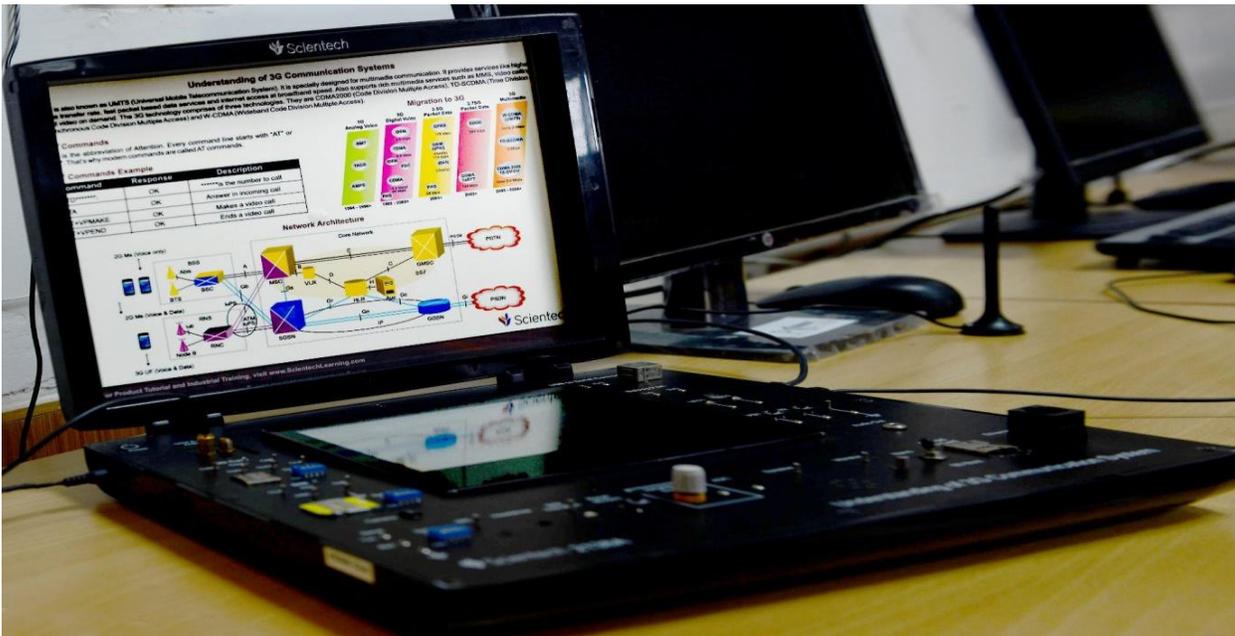- Optical Fibre Communication
- Image Processing

Faculty Profile

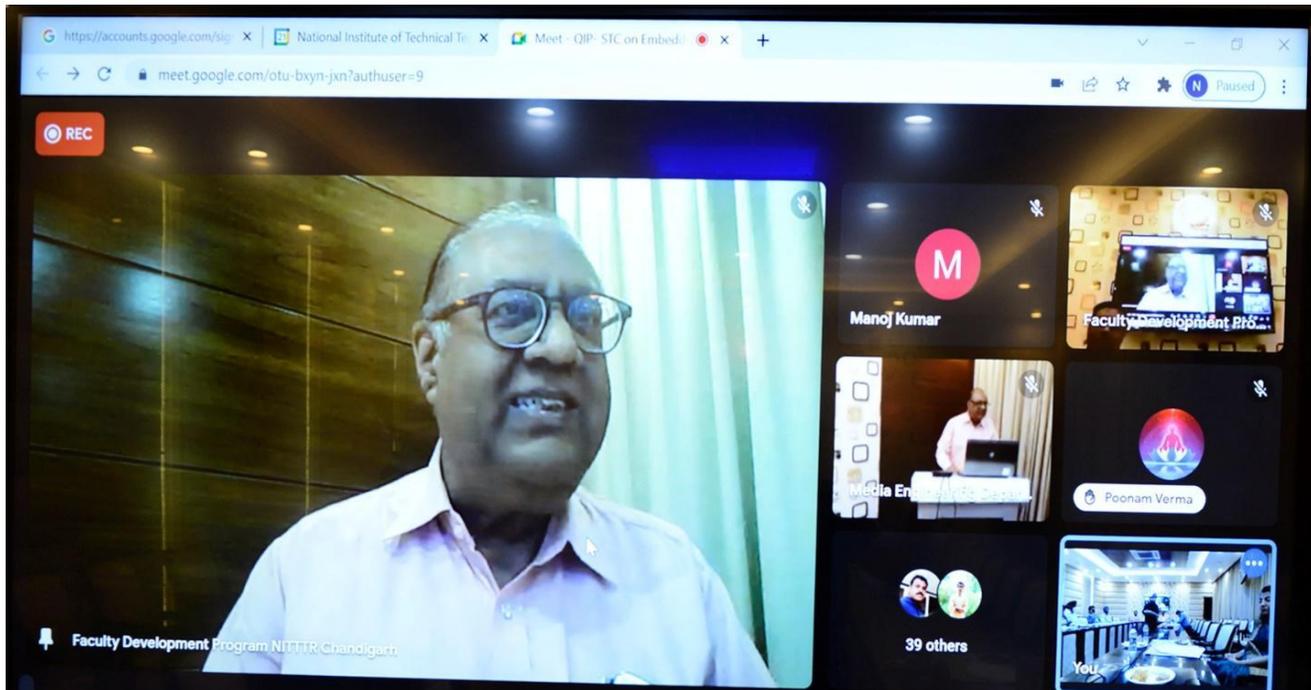| Sr. No.	Name of the Faculty	Designation/Qualifications	Specialization	Photograph
1.	Dr. Sandeep Singh Gill	Professor & Head Ph.D. (Eltx. & Comm. Engg.)	VLSI Design, Soft Computing Techniques Engineering	
2.	Dr. Amod Kumar	Professor Ph.D. (Electronics & Comm. Engg.)	Digital Signal Processing, Digital Image Processing, Soft Computing Biomedical Engineering	
3.	Dr. Balwinder Singh Dhaliwal	Associate Professor Ph.D. (Electronics & Comm. Engg.)	Antenna (Fractal, MIMO), ANN, Digital Signal Processing, Soft Computing.	
4.	Dr. Balwinder Raj	Associate Professor Ph.D. (VLSI)	Nanoelectronic Devices and Circuits, Nanotechnology and energy based devices, VLSI Design, VLSI & Embedded System Design, Modeling and Simulation, FPGA Based Design, Artificial Intelligence and Its Applications.	
5.	Dr. Kanika Sharma	Assistant Professor Ph.D. (Engg.)	Embedded System Design, Digital System Design, Wireless Sensor Network	
6.	Dr. Garima Saini	Assistant Professor Ph.D. (Engg.)	Advanced Digital Communication; Wireless & Mobile Communication, Antenna	
7.	Dr. Rajesh Mehra (Joint Faculty in ECE)	Professor & Head, CDC Ph.D. (Engg.)	VLSI Design; Advanced Digital Signal Processing, and Embedded Design	
8.	Dr. Meenakshi Sood (Joint Faculty in ECE)	Associate Professor, CDC Ph.D.(ECE)	Curriculum Development, Digital Signal Processing & Image Processing, Machine Learning, Nature Inspired Algorithms, Soft Computing Techniques, Women Empowerment, Energy harvesting and storage, Artificial Intelligence and Its Applications, Biomedical engineering, Antenna(Plana, Metamaterial, Fractal).	

Lab Activities

Performing MATLAB simulation in VLSI Lab

Students get introduced to a 5G communication system using Scientech 5G equipment
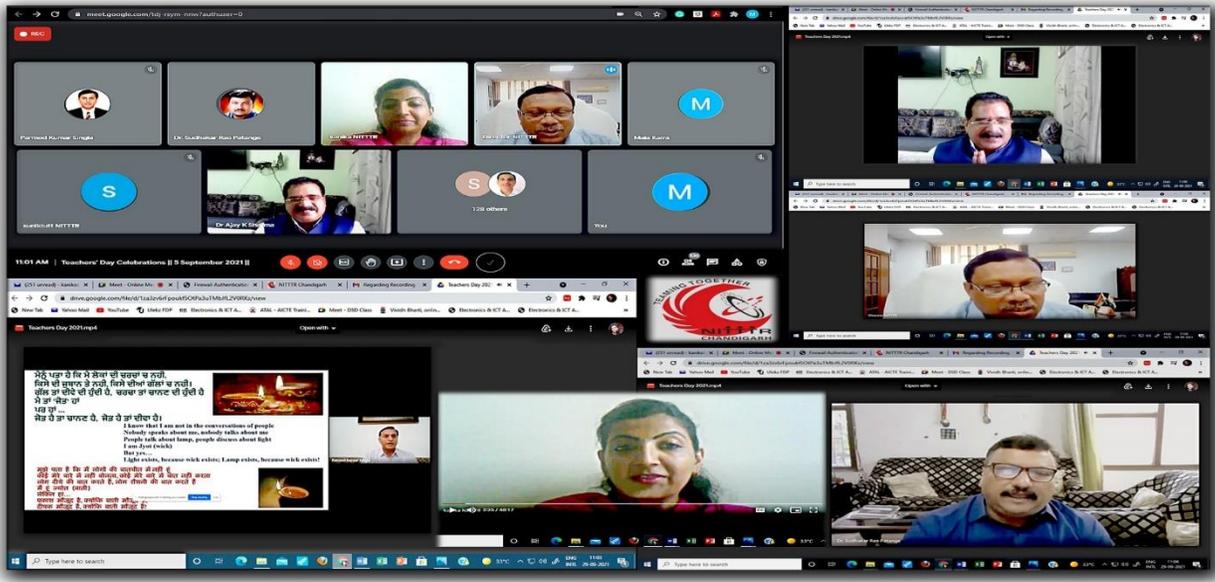
Lectures/Seminars

A session on digital image processing with the application in the medical field is presented by Dr. Amod Kumar

An online session on image processing and remote sensing.

Extra – Curricular Activities

Celebrating teachers' day with an online interactive session.

ME(ECE) scholars Shivam Bansal, Prajjwal Rohela and Atul Kulkarni taken part in TechSpardha 2021 a national level technical competition.

Editor's Team: -

OUR
TEAM

Dr. Kanika Sharma
Asst. Prof, ECE Deptt.

Pushparaj
Ph.D. Scholar, ECE Deptt.

Shivam Bansal
M.E,ECE Deptt.

Saurabh
M.E Scholar,ECE Deptt.

Rachit Lodhi
M.E Scholar,ECE Deptt.