



## Vision of ECE Department

To produce skilled, socially –sensitized and globally competitive professional engineering graduates in the area of Electronics and Communication Engineering.

## Mission of ECE Department

1. To provide quality and contemporary education through innovative teaching-learning process and effective resource utilization.
2. To develop responsive and socially sensitive engineer through research oriented practices.
3. To promote industrial collaboration for providing practical exposure leading to industry ready engineering graduates.
4. To open new vistas of learning for students through international collaborations.
5. To provide conducive environment through pre placement training and professional development activities for providing ample opportunities of placements, higher studies and entrepreneurship.

## ECE DEPARTMENT ORGANIZED EVENT ON “ELECTROMAGNETIC FIELDS & ANTENNA DESIGNING USING CST STUDIO SOFTWARE”

ECE Department organized a virtual session on “Electromagnetic fields & Antenna designing using CST Studio Software” on January 18, 2023. Mr. Yogesh Shriram Solunke, EMAG Application Engineer, VIAS 3D was the expert for this session. Both faculty and students participated in the learning process and grabbed the opportunity to be part of skilled world dedicated to high frequency range data communication. The expert demonstrated the design of antenna using CST Studio Software considering various aspects of electromagnetic interference and the probable application areas.



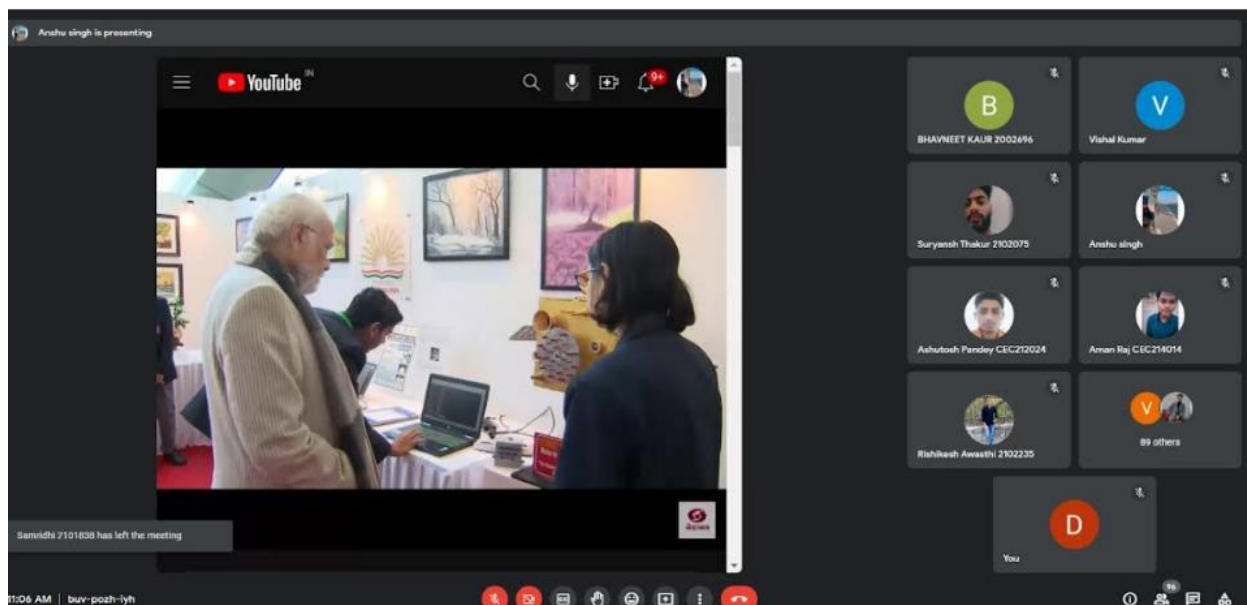


## ECE DEPARTMENT ORGANIZED “PARIKSHA PE CHARCHA – 2023”

Pariksha Pe Charcha is a part of the larger movement - ‘Exam Warriors’ - led by Hon’ble Prime Minister Narendra Modi, to create a stress-free atmosphere for youngsters, the interaction every youngster waits for. It is an annual event held every year since 2018. During the event held on 27<sup>th</sup> January 2023, Hon’ble PM interacted with students, teachers and parents from across the country and shared valuable tips on how to take board and entrance exams in a relaxed and stress-free manner.

Hon’ble Prime Minister highlighted on:

- "You are smarter than gadgets. Use it wisely" while talking on excessive use of social media.
- Students should balance hard work and smart work to excel in life.
- “Cheaters can pass exam, not life”.
- Promoting digital fasting for one day a week.
- "Be focused on hard work and the pressure of family will be non-existent” while talking on societal pressure.





## INDUSTRIAL VISIT TO PUNCOM

An industrial visit to Punjab Communication Limited, Mohali was organized by ECE Department for the students of 4<sup>th</sup> semester on 9<sup>th</sup> February 2023. The primary objective of the event was to make students aware of the concept of telecommunication system, working of communication channel, devices and methods used for communication medium. Students learnt practical aspects related to Voice/Data Multiplexers, Power Plants, Optical/Transmission Equipment, PLCs and their major field of usage in telecommunications, networking and in broadband needs of major organizations.



## INDUSTRIAL VISIT TO IISER MOHALI

Electronics and Communication Engineering Department organized an Industrial visit to IISER Mohali for B.Tech. students on 13th Feb 2023. This event was organized to give knowledge to students about the start-ups & research initiatives that are being supported by Government. In addition to this, various laboratories that are being set up in IISER were demonstrated & practical exposure was given to students





to work in their research labs. In this event, students came to know about various government schemes that help entrepreneurs to setup their start ups and government schemes for increasing the number of women entrepreneurs in India. Students also got practical exposure of the Laser lab, Femto second lab, Nano scale detection, NMR research facility, Spectroscopy Lab and Incubation centre.



## **INDUSTRIAL VISIT TO NIELIT ROPAR**

ECE Department organized an Industrial visit to NIELIT Ropar for students of B.Tech. on 20<sup>th</sup> February 2023. The industrial visit was scheduled for the students to enlighten them about the practical industry experience. The learnings from the visit include the evolution in the field of electronics in the past few years and to get an insight about the AI and IoT. It was indeed a great opportunity to learn and upskill from the real work environment. The students were encouraged to work on projects and solve real life



problems. Notably, the backend of all the government hospitals, electricity and water bill processing is now known to the students. The students got an small about the practical industry exposure, to increase the employability coefficient by learning new skills, something above the textbooks.



## INDUSTRIAL VISIT TO C-DAC, MOHALI

ECE Department organized Industrial visit to CDAC, Mohali on 13<sup>th</sup> February 2023 for B.Tech students. The primary objective of the visit was to make students aware of the concept of telecommunication system, latest techniques in cyber security, health monitoring systems. Students came to know about design of VLSI Systems, ASIC IP development, microprocessor, microcontroller, DSP hardware and software technologies, which form the key building blocks in many industrial and strategic technology areas.





## **FACULTY ACHIEVEMENTS**

- Dr. Dinesh Arora got Best Innovator Award 2023 at Innovator's Talk organized by Innovators Era.
- Ms. Nidhi Chahal contributed research paper on "Apple Leaf Disease Detection Using Collaborative ML/DL and Artificial Intelligence Methods: Scientometric Analysis", International Journal of Environmental Research and Public Health, Feb 2023.
- Dr. Ramanpreet Kaur contributed research paper on "Gaussian Approximation based WCDMA and OFDMA System Performance Investigation for Various Fading Channels", IEEE Xplore, March 2023.



## STUDENTS ACHIEVEMENTS

- ECE Students got 1<sup>st</sup> prize in Science day Competition held on 28<sup>th</sup> Feb 2023 at CGC Landran.



- ECE Students participated enthusiastically in various sports events and won laurels in 17<sup>th</sup> Annual Athletic meet on 14<sup>th</sup>-15<sup>th</sup> February held at CGC Landran.

## PATENTS

- Patent filed on “Attendance Management System for Educational Organization” by Ms. Ashima Kalra with Application no. 202311013624.
- Patent filed on “Automated garbage waste management system” by Dr. Pooja Sahni, Ms. Rachna Manchanda, Dr. Sukhdeep Kaur, with Application no. 202311013626.

## CHIEF EDITOR MESSAGE

This newsletter is intended to be published quarterly in a year. This inaugural issue is a brief account of the important events held up to March 2019. It is expected that wide support for this mission will be provided through the reader's valuable suggestions and comments. This is only a small step towards a long journey. This issue of newsletter should inspire all of us for a new beginning enlighten with hope, confidence and faith in each other in the road ahead.

**Chief Editor: Ms. Ashima Kalra**  
**Student Editor :Kashish , Shivom Sharma**