



Vision of ECE Department

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

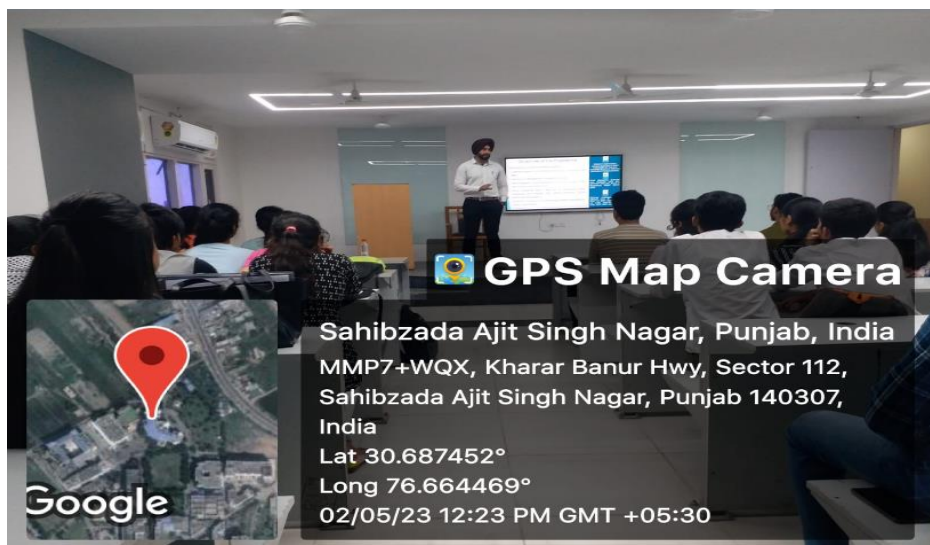
Mission of ECE Department

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.

SEMINAR ON “WORK BASED LEARNING”

Electronics and Communication Engineering department organized an awareness seminar for the students on “Work based learning” in association with CDAC Mohali, MeitY, Govt. of India on 2nd May 2023. Mr Gaganpreet Singh, Project Officer, CDAC Mohali, counseled the students about the program.

Work based learning program gives students an opportunity to do their internship on the ongoing projects of CDAC where eligible students are paid stipend during their internship period. The program focuses on providing opportunity to enhance professional skills by acquiring hands on practical experience, technical knowledge, analytical thinking, real time working, problem solving, reasoning, ideation skills, etc. by working on real world cutting edge national projects centered around niche technologies in premier organizations of MeitY, Government of India.





HANDS-ON WORKSHOP ON “MACHINE LEARNING WITH PYTHON”

Techcomm Professional Society of ECE Department and its III Cell organized Hands-on Workshop on “Machine Learning with Python” in association with Solitaire Infosys, Mohali on 2nd May 2023. Mr. Praduman Kumar, Software Developer, Solitaire Infosys, interacted with students on Basics of Python, GUI Programming, Backend execution, Web designing and Real time applications. Students gained hands-on practical knowledge on python and its implementation.



EXPERT LECTURE ON CYBER SECURITY

The Department of Electronics and Communication Engineering and its III Cell organized expert lecture on “Cyber Security” on 03rd May 2023. The speaker of the event- Mr. Abhishek Thakur and Mr. Shivam Chaturvedi, CEO & Co-Founder of Ascella Infosec Opc. Pvt. Ltd., Mohali interacted with students about various cyber security protocols, issues and optimum security. Students were made aware of various



Career opportunities in the field of cyber security and its importance in our society. Students also understood the hacking terminologies and motive behind these terminologies.



CENTRE OF EXCELLENCE - VIRTUAL INSTRUMENTATION ORGANIZED FDP ON “HANDS-ON PRACTICES ON LABVIEW”

The ECE Department of CEC-CGC Landran is equipped with Center of Excellence (CoE)-Virtual Instrumentation. The CoE is equipped with various National Instruments (NI) Hardware and LabVIEW (Laboratory Virtual Instruments Engineering Workbench) software that provides the platform for training, interdisciplinary research, projects and industrial solutions. This provides opportunities to enhance the knowledge and skills at a professional level.

One of the events that were conducted through Centre of Excellence was 5-days Faculty Development Program in collaboration with NITTTR, Chandigarh and VVDN Technologies, Gurugram from 1st May to 5th May 2023. Dr. Lini Mathew from NITTTR Chandigarh and Er. Nitesh Pradhan from VVDN Technologies focused on the Introduction of LabVIEW Software and its applications in various fields of Electronics and Communication Engineering. The FDP marked its beginning with the inauguration on 1st May followed by sessions on LabVIEW Programming— Editing, Debugging, Charts and Graphs, Use of strings and File I/Os and introduction to Real Time Data Acquisition. The participants also enhanced their knowledge on



use of NImyDAQ and NImyRIO, Hands on Circuit Design and Implementation using NImyDAQ and Hands on Application Development using NImyDAQ and NImyRIO. The FDP was attended by faculty members from CEC-CGC Landran, CGC Jhanjeri, Amity University and Chitkara University. The FDP was concluded on 5th May, 2023 with the vote of thanks and felicitation of experts by Dr. Vinay Bhatia, Professor & Head, ECE Department. The participants also shared their valuable feedback regarding FDP and learnt the applications of LabVIEW in key areas of Electronics and Communication Engineering such as Signal and System, Image Processing, Digital Signal Processing, Control System and Instrumentation.



FACULTY ACHIEVEMENTS

- Dr. Tarun Singhal, Dr. Ankur Singhal, Dr. Vinay Bhatia, published research paper on “Si dot Single Electron Transistor for Internet of Nano Things”, Elsevier-Materials Today: Proceedings, May 2023.
- Ms. Nidhi Chahal, Dr. Pooja, Dr. Sukhdeep were awarded for their contribution on Patent filing and granting on World IPR Day 2023 celebrated at CGC Landran, Mohali.



STUDENTS ACHIEVEMENTS

- Sidhi Sinha got 2nd position in Campus Ambassador internship during ZEITGEIST 23 at IIT Ropar.
- Balram Kumar participated in Poster presentation on EE-RSF Research Day at IIT Ropar in April 2023.

PATENTS

- Patent filed on “Food wastage monitoring and management device for hostels” by Dr. Abhishek Sharma with CBR no. 25527.
- Patent filed on “Automated Sapling Plantation Device” by Dr. Abhishek Sharma with CBR no. 25526.
- Patent filed on “Feeding assistive device for Toddlers” by Dr. Ramanpreet Kaur with CBR no. 25527.
- Patent filed on “Sleep paralysis detection and prevention system” by Dr. Ramanpreet Kaur , Dr. Simarpreet, Ms. Preeti, Dr. Pooja with CBR no. 25525.

CHIEF EDITOR MESSAGE

This newsletter is intended to be published quarterly in a year. 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: Dr. Ashima Kalra
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