



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.

INDUSTRIAL VISIT TO AMBER GROUP, RAJPURA ON 4 OCT,2023





The visit aimed at sensitizing the students for better technical knowledge enhancement . Amber Enterprises India Ltd, Rajpura is a pioneer in Technology for Manufacturing residential air conditioners. Students got the knowledge about latest design and manufacturing of air-conditioning and Heat exchanger. It aims to include research and development in the field of HVAC. This visit provided a strong relationship between Industry and Academia by creating technical awareness about HVAC sector.Students learned about latest design and manufacturing of air-conditioning and Heat exchanger.It was an educative and fruitful visit, with immense exposure to the real world techniques and ongoing industrial research work benefitting the students of ECE Department. On the whole, the visit was quite beneficial for the students as they got practical exposure to the HVAC sector and also helped them enhance their technical skills.

FACULTY DEVELOPMENT PROGRAM ON “IOT AND ITS APPLICATIONS”





A 5-day Faculty Development Program on “IoT and its Applications” was organized by Electronics and Communication Engineering Department in association with NITTTR Chandigarh from 6th November to 10th November 2023. This programme was intended to provide the participants a common platform to share the knowledge, experience and innovation in the areas related to basics and advances in Internet of Things in Engineering and Technology and also provided an opportunity to interact with eminent personalities working in these areas. Experts from renowned institutes like NITTTR Chandigarh, CSIO-CSIR Chandigarh imparted knowledge on topics IoT systems, Architectures, Challenges, Communication protocols and industrial requirement, Real time applications with problem solving approach. At the end of the program, the participants from different engineering domains enhanced their knowledge on the basics and advance in the field of Internet of Things and find new directions for further research.

FDP ON “ADVANCEMENTS IN WIRELESS COMMUNICATION: UNDERSTANDING AND IMPLEMENTING 5G TECHNOLOGY”





A 5-day Faculty Development Program on “**Advancements in Wireless Communication: Understanding and Implementing 5G Technology**” was organized by Electronics and Communication Engineering Department from 11th December 2023 to 15th December 2023. This programme was intended to provide the participants a common platform to share the knowledge, experience and innovation in the areas related to basics and advances in Wireless Communication and 5G technology. It also provided an opportunity to interact with eminent personalities working in these areas. Experts from renowned institutes like NITTTR Chandigarh, CCET-Chandigarh, PEC-Chandigarh, UIET, Kurukshetra University imparted knowledge on topics like emergence of 5G technology, architecture and challenges, Industrial IOT, Massive IOT, Natural Language Processing, Federated learning, hybrid soft computing algorithms, Artificial Neural Network (ANN), BSS (Blind Source Separation) techniques. At the end of the program, the participants from different engineering domains enhanced their knowledge on the basics and advance in the field of Wireless Communication and 5G technology and find new directions for further research

RESEARCH PUBLICATIONS

Many of our Faculty members have published research papers in SCI and SCIE Journals. Or book chapters with CRC press, Taylor Francis.

- Ashima Kalra, “Applications of artificial intelligence across Industry 4.0”, CRC Book Chapter, Taylor Francis.
- Ashima Kalra, “Nature Inspired Computing for Optimization”, CRC book Chapter, Taylor Francis.

STUDENT ACHIEVEMENTS

- Suhel Sharma, won Brownz medal in Badminton in Punjab technical University Inter college tournament, Jalandhar , 20-21 September 2023



ELECTRIC FLASH

VOLUME -7, ISSUE -4, OCT-DEC 2023



- Saloni Kashyap, B Tech ECE has got ISTE best student award.



- Simarleen Maan has got 2nd position in PTU Inter-Zonal elocution competition; 1st position in District level Debate competition (Mohali); 1st position - The Eloquent Speaker TPP GD competition - I'm the One



ELECTRIC FLASH

VOLUME -7, ISSUE -4, OCT-DEC 2023





- Bhupinder, 5th sem has got gold medal and trophy in PTU cross country event from 12th oct -13th oct 2023.



FACULTY/STUDENT CERTIFICATIONS

- ECE faculty have got 30 + MOOC Swayam certification.
- Students have also got 45 Swayam certifications (45) and 200 + multiple MOOC course certifications.

PATENTS



Many faculty members along with students have filed various patents.

1. Water Rescue Assistive System, Dr. Pardeep Gaur
2. Automated Fencing Installation System, Dr. Simarpreet Kaur
3. Anti-Glare Light Shielding Apparatus For Vehicles, Dr. Pardeep Gaur

PLACEMENTS

- We have got 42 offer letters and 33 uniquely placed .
- Highest package 7 LPA in TCS and Cubastion.

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
Student Editor: Shiv Om Sharma,
Kashish