



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 PUNJAB COMMUNICATION LIMITED ON 15.2.2024



The department of Electronics and Communication Engineering organized an industrial visit to **Punjab Communications Limited** on **15.02.2024** for the students of **ECE 4th semester** along with the one faculty member of ECE department Dr. Ankur Singhal. The event was organized to



provide students a platform to learn about the manufacturing process of various electronics and communication equipment through a visit to Puncom, Mohali which is India's premier Telecom and IT equipment and solution Provider Company having successfully supplied and implemented a host of state-of-the-art Telecom, Software and integrated turnkey solutions across the country. They learned how various undergoing projects of the company uses the various electronic components & communication equipment. Further, students learned how the industry works on the different communication channel and different project during the limited period of time. Students came to know about Voice/Data Multiplexers, Optical/Transmission Equipment and PLCC.

INDUSTRIAL VISIT TO CS SOFT SOLUTIONS LIMITED,
MOHALI ON 27.2.24

Electronics & Communication Engineering Department organized an industrial visit to CS Soft Solutions Pvt. Ltd., Mohali for the students of **ECE 6th semester** on 27.2.24 along with the one faculty member of ECE department Dr. Ashima Kalra. . CS Soft Solutions Pvt. Ltd established in the year 2009 is a growing IT Solutions firm and website Development Company, with one simple objective - to provide our clients with state-of-the-art online services so that they can focus on their core competencies and achieve success. They provide IT Services like Website Designing, Development, Mobile App Development, Digital Media Marketing, and Lead Generation to Overseas Clients. The visit was planned to give the students information about how the business operates and to give them a chance to develop, organize, and participate in active learning experiences. They gained insightful knowledge about UI design, mobile application, web development, enterprise application, and digital marketing through the visit along with tips on support and maintenance. Students got guidance for the various new technologies and languages. They experienced real time working of the company environment facilities. Students came to know about the professional work culture and interacted with the highly trained professionals there.





INDUSTRIAL VISIT TO TERAFACT TECHNOLOGIES PVT. LIMITED, PU INCUBATION CENTER, CHANDIGARH ON 29.2.24

ECE department has organized an industrial visit to TERAFACT technologies Pvt. Limited, Chandigarh dated 29.2.24 for the students of **ECE 6th semester** along with the accompanying faculty member of ECE department Dr. Ashima Kalra and Mr. Shankarlal. The company is a DPIIT recognized start up with the aim to prepare the youth for Industry 4.0. They provide state-of-the-art “Smart Manufacturing and Industry 4.0” Lab setups that serve as a vital learning resource for students, blue-collar workers and community at large, driving innovation, infrastructure development and better placements. Students got guidance for the various new technologies smart manufacturing, industry 4.0, Internet of thing(IOT) and digital twin. They got to know about augmented reality (AR),Virtual Reality(VR) and Mixed Reality which can enhance any real-world environment by making it interactive. It provides an extensive hands-on experience of industry grade hardware, software and latest technologies to the youth, enabling them to get hands-on experience of technologies such as IoT, AR/VR, smart automation, Digital Twin etc, that are driving smart manufacturing and industry 4.0.



INDUSTRIAL VISIT TO NIELIT ,ROPAR ON 7.3.24

The department of Electronics and Communication Engineering organized an industrial visit to National Institute of Electronics and Information Technology, ROPAR on **07.03.2024** for the students of **ECE 4th & 6th semester** along with the one faculty member of ECE department. Dr. Ankur Singhal. The primary objective of the visit was to get an insight of practical industry experience to the students to make them aware about backend of all the government bodies working out there. The students learnt about the new emerging technology AIOT = AI+IOT, made from the duo of AI and IOT. The students visited the highly advanced AI lab, communications lab and electronics labs. The students got a small insight about the practical industry exposure, to increase the employability coefficient by learning new skills, something above the textbooks. 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.



INDUSTRIAL VISIT TO PUNJAB COMMUNICATION LIMITED ON 27.2.24

The department of Electronics and Communication Engineering organized an industrial visit to **Punjab Communications Limited** on **27.02.2024** for the students of **ECE 4th semester** along with the accompanying faculty member of ECE department Dr. Pradeep Kumar Gaur. The event was organized to provide students a platform to learn about the manufacturing process of various electronics and communication equipment through a visit to PUNCom, Mohali which is India's premier Telecom and IT equipment and solution Provider Company having successfully supplied and implemented a host of state-of-the-art Telecom, Software and integrated turnkey solutions across the country. Students got a first-hand exposure about the manufacturing of telecommunication equipment. They learned how various undergoing projects of the company uses the various electronic components & communication equipment. Further, students learned how the industry works on the different communication channel and related project/communication card delivery to Indian railways and other clients; in the allotted short span



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of time. Students came to know about Voice/Data Multiplexers, Optical/Transmission Equipment and PLCC.



INDUSTRIAL VISIT TO INDUSTRIAL VISIT TO PUSHPA GUJRAL SCIENCE CITY KAPURTHALA ON 18.3.24



The Electronics and Communication Engineering Department organized an enriching educational trip to Pushpa Gujral Science City Kapurthala .Pushpa Gujral Science City in collaboration with IK Gujral Punjab Technical University has organized 'Inno-Tech' contest on 18 th and 19 th March, 2024.This event invites



participants to showcase their project work through an engaging and informative display. It fosters creativity, communication and knowledge sharing among participants.

This outing provided an exceptional opportunity for our students to delve into the realms of science and technology. One of the highlights of this trip was the Robotics Competition, where our students showcased their engineering skills and creativity. This competition not only encouraged innovation but also fostered teamwork and problem-solving abilities among the participants. Moreover, the students had the privilege of exploring an array of captivating scientific models. From the intricate workings of rockets and satellites to the intriguing principles of magnetism and electricity which ignited their curiosity. They had the chance to witness these complex concepts come to life through interactive displays and demonstrations, making their learning experience both engaging and memorable. The trip to Pushpa Gujral Science City Kapurthala was a significant step in broadening the horizons of our students and nurturing their passion for electronics, communication, and the wonders of science. It not only reinforced classroom knowledge but also inspired them to dream big and consider the limitless possibilities that the world of science and technology has to offer.

SEMINAR ON INNOVATIVE TRENDS IN ELECTRONICS: EXPLORING RESEARCH OPPORTUNITIES IN INDIA AND ABROAD ON 16.2.24



Event has organized by TPS (Techcomm Professional Society) in collaboration with IIC which provides us knowledge about advancements, emerging technologies and transformative trends within the field. The event was organized on (16thFeburary,2024) from 11:00a.m. onwards in C.V. Raman Block-1 CGCLandran .The objective is to provide a platform for participants to gain valuable insights, knowledge and inspiration regarding the latest advancement and transformative trends within the field of research. The technical aspects is to enhance the technical and innovative skills, and to build teamwork & leadership skills, to solve the technical problems using logical solutions in the projects and to make student to get internships and scholarship under professors of reportative institution.The expert knowledge and engaging presentation sparked meaningful discussion among



participants on emerging technologies and industry trends. Students will be able to understand the technique of research by searching their ideas internet.

WORKSHOP ON “VIRTUAL LABS”

IN COLLABORATION WITH IIT DELHI ON 27.3.24

The Techcomm Society of Department of Electronics and Communication Engineering CEC-CGC Landran, organized a workshop on Virtual Labs in collaboration with IIT Delhi for the faculty and students. The programme commenced with the welcome address by Dr. Bhawna Tandon, SPOC Virtual labs. She stated that Virtual Labs provide remote access to simulation-based labs in various disciplines of science and engineering. This will provide an opportunity for students to get exposure to conducting complex experiments virtually and gain the confidence to perform the real experiments proficiently. During this programme, Mr. Chirag Dey (Sr. Executive Trainer) and Mr. Shivam Yadav (Field Engineer) from IIT Delhi provided training on the Virtual Lab Platform. They informed that virtual labs are anytime, anywhere labs that are developed in self-learning modes and facilitate innovative experimentation in the fields of science and engineering. The IIT Delhi team demonstrated the process of conducting different experiments on the virtual labs and showcased how to use different learning tools available on this platform.



STC ON “FREE SIMULATORS FOR ECE LAB PRACTICES”

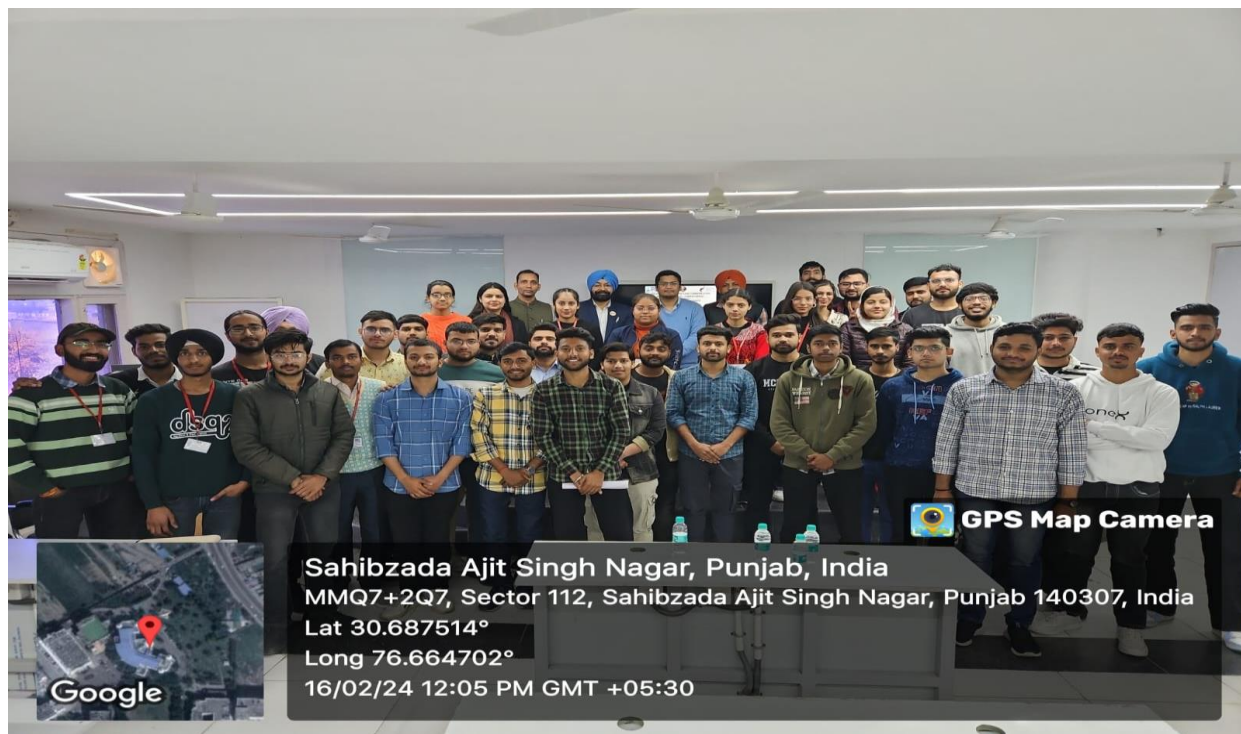
11.3.24-15.3.24

A 5-day Faculty Development Program on Free Simulators for ECE Lab Practices” was organized by Electronics and Communication Engineering Department in association with NITTTR



Chandigarh from 11th march 2024 to 15th March 2024. The workshop provided intensive training in a range of software including SIM 8085, EdSim8051, Tinker cad, PCB designing, Multisim, Digital Lab Simulator, Scilab, Virtual Lab Simulator, and Node-RED. Participants engaged in hands-on sessions, mastering essential skills in electronic circuit simulation, microcontroller programming, PCB design, and various aspects of digital and analog electronics. The workshop aimed to equip attendees with practical knowledge and expertise to effectively utilize these tools in their academic pursuits and professional endeavors. Expert instructors facilitated the sessions, ensuring a conducive learning environment and fostering collaboration among participants. At the conclusion of the workshop, participants expressed satisfaction with their enhanced understanding and proficiency in utilizing the aforementioned software tools, thus reflecting the success and impact of the program.

ECE DEPARTMENT ORGANIZED SEMINAR ON INNOVATIVE TRENDS IN ELECTRONICS:
EXPLORING RESEARCH OPPORTUNITIES IN INDIA AND ABROAD ON 16.2.24



Event has organized by TPS (Techcomm Professional Society) in collaboration with IIC which provides us knowledge about advancements, emerging technologies and transformative trends within the field. The event was organized on (16thFebruary, 2024) from 11:00a.m. onwards in C.V. Raman Block-1 CGC Landran. The objective is to provide a platform for participants to gain valuable insights, knowledge and inspiration regarding the latest advancement and transformative trends within the field of research. The technical aspects is to enhance the technical and innovative skills, and to build teamwork & leadership skills, to solve the technical problems using logical solutions in the projects and to make student to get internships and scholarship under professors of reportative institution. The expert knowledge and engaging presentation



sparked meaningful discussion among participants on emerging technologies and industry trends. Students will be able to understand the technique of research by searching their ideas on internet.

STUDENTS ACHIEVEMENTS

- Mohak Anand, ECE got First position with cash prize 6000/- in event “Clash royale” organized by Indian Institute of management(IIM),Visakhapatnam.



- Mohak Anand, ECE got 1st position with cash prize 5000/- in event “Clash royale” organized by IIT Indore.





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- ECE Students **Avinash Kumar**, Nicky Kumari and Vishal Kumar got 1st prize in 'Inno-Tech' contest on 18th and 19th March, 2024 organized by Pushpa Gujral Science City in collaboration with IK Gujral Punjab Technical University.



- Students Lokesh and Kirat Mehta participated enthusiastically in various sports events and won gold medal and silver medal in Annual sports Athletic meet at CGC Landran on 13.2.24-17.2.24





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➤ Kirat Mehta, ECE student rewarded with best Athlete Men in sports meet organized by IKGPTU on 13.3.24-15.3.24.



Best Athlete Men- Kirat Mehta CEC, Landran

PATENT GRANT





पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India
पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमवाली का नियम 74) | (Rule 74 of The Patents Rules)

आवेदन सं. / Application No.	201711004802
फाइल करने की तारीख / Date of Filing	10/02/2017
पेटेंटी / Patentee	chandigarh group of colleges (CGC)
अविष्कारकों का नाम /Name of Inventor(s)	1.Ms. Nidhi Chahal 2.MS. PUJA SHARMA 3.MR. ASHUTOSH KUMAR SINHA 4.MR. ADITYA RAJ SINGH JASROTHIA 5.Ms. Sakshi Sharma

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित "SYSTEM FOR MONITORING STRUCTURAL HEALTH OF BUILDING" नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख फरवरी 2017 के दसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled "SYSTEM FOR MONITORING STRUCTURAL HEALTH OF BUILDING" as disclosed in the above mentioned application for the term of 20 years from the 10th day of February 2017 in accordance with the provisions of the Patents Act, 1970.


नियंत्रक ऑफ पेटेंट्स
 Controller of Patents

Date of Grant : 15/03/2024

नियं. - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे नवर रखा जाता है, फरवरी 2019 के दसवें दिन को और उसके पचास प्रत्येक वर्ष में उत्ती विन देव सेधी।
 Note. - The fees for renewal of this patent, will fall / has fallen due on 10th day of Februarv 2019 and on the same



Patentee- Chandigarh group of colleges (CGC)

Application Number- 201711004802

Patent Number- 527021

Date of Patent- 10/02/2017

Title- SYSTEM FOR MONITORING STRUCTURAL HEALTH OF BUILDING

Inventors: Ms. Nidhi Chahal, MS. PUJA SHARMA, MR. ASHUTOSH KUMAR SINHA, MR. ADITYA RAJ SINGH JASROTIA, Ms. Sakshi Sharma,

Grant date: 15/03/2024

PLACEMENT

ECE students got placed in many companies like UNO Minda Limited, Pavna Industries Ltd (Pavna Group), Ghaziabad Precision Products Pvt.Ltd, American Chase LLP and Tech Mahindra Ltd. with highest package of 5.21 LPA.

CHIEF EDITOR MESSAGE

This newsletter is intended to be published quarterly in a year. This issue is a brief account of the important events held up to March 2024. 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 : Mehak , Ishnoor