



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.

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One-week (6-day) AICTE Training and Learning Academy (ATAL) -sponsored Faculty Development Program (FDP) on “LabVIEW for IoT Applications in Healthcare” from 4th Nov to 9th Nov 2024

The banner features the AICTE logo on the left and the ATAL logo on the right. In the center, it reads: **AICTE TRAINING AND LEARNING(ATAL) ACADEMY SPONSORED FACULTY DEVELOPMENT PROGRAMME (FDP) ON “LABVIEW FOR IOT APPLICATIONS IN HEALTHCARE”**. Below this, there are two rows of circular portraits of the speakers. The first row includes Dr. G. Kulanthaivel, Dr. Jaspal Singh, Dr. Sunil Singla, Mr. Ajay Godara, and Dr. Parikshit Sahatiya. The second row includes Dr. Vinay Bhatia, Mr. Vasantha Kumar V, Mr. Nitesh Pradhan, and Mr. Yashwant Rana. At the bottom, it states: **ORGANISED BY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING CHANDIGARH ENGINEERING COLLEGE-CGC, LANDRAN, MOHALI**. The dates **4TH NOV – 9 TH NOV, 2024** are displayed on the right side.

ATAL -FDP on “LabVIEW for IoT Applications in Healthcare”

The Department of Electronics and Communication Engineering (ECE) at Chandigarh Engineering College (CGC), Landran, Mohali, organized a one-week (6-day) AICTE Training and Learning (ATAL) Academy-sponsored Faculty Development Program (FDP) on “LabVIEW for IoT Applications in Healthcare” from November 4th to 9th, 2024, in physical mode. The FDP was attended by 35 participants from institutions such as D.A.V College Ambala, UIET Kurukshetra, CGC Landran, BBSBEC Fatehgarh Sahib, Lovely Professional University Jalandhar, Chandigarh College of Engineering Mohali, and Chandigarh University. The program commenced on November 4th, 2024, at 9:00 AM in the Seminar Hall of Block 1 at CGC Landran, with an inaugural lecture by the Chief Guest, Dr. G. Kulanthaivel, Professor of Electronics and Communication Engineering and Dean (International Affairs) at NITTTR, Chennai. Eminent speakers, including Dr. Parikshit Sahatiya from BITS Pilani Hyderabad, Mr. Nitesh Pradhan (Assistant Manager at VVDN Technologies), Mr. Ajay Kumar Godara (Founder and Director of Enovate Skill), Mr. Yashwant Rana (Field Application Engineer at VVDN Technologies), Dr. Sunil Singla from TIET Patiala, and Mr. Vasantha Kumar V (Project Lead at Mew Technology, Bangalore), conducted various technical sessions throughout the FDP. To enhance participant’s understanding of real-world IoT applications in healthcare, an industrial visit was organized on the 5th day at the Centre for Development of Advanced Computing (CDAC) Mohali, an R&D organization under the Ministry of Electronics



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and Information Technology (MeitY). The FDP concluded with a Valedictory Session addressed by the Chief Guest, Mr. Deepak Wasan, Executive Director of NIELIT Chandigarh/Ropar, and the Guest of Honour, Dr. Sarwan Singh, Joint Director at NIELIT Chandigarh/Ropar.



Inaugural Ceremony of ATAL –FDP



Welcome of Chief Guest Dr. G. Kulanthaivel, NITTTR, Chennai by Campus Director, Dr. P.N. Hrisheeksha



Group photograph of participants (ATAL –FDP)

Technovate Event on 16.10.24

The Department of Electronics and Communication Engineering at Chandigarh Engineering College organized the “Technovate” event under the Electronic Project Club (EPC), featuring exciting and engaging competitions such as Hack-X-Plosion, Giga-Debate, Quiz-Quest, and Fire of Battles on 16.10.2024. A total of 77 students participated and competed equally across all four categories. The primary objective of hosting these intellectual events and sessions was to foster innovation, teamwork, academic excellence, and strategic thinking, inspiring students to grow both academically and personally by challenging them to step beyond their comfort zones.



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Inaugural Ceremony of Technovate event under EPC



Giga Debate Competition(Technovate)



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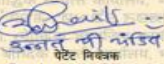
Patent Grant

Application Number- 201811011912; Patent Number- 553900

Date of Patent Grant- 5/11/2024

Title- MULTIFUNCTIONAL SERVICE SYSTEM FOR HOUSING SOCIETY,

Inventors: Ashima Kalra , Sonia Jindal , Bhawna Tandon, Ashish Debnath, Akash Dutta, Darpan Kochar, Rishabh Batta

		
पेटेंट कार्यालय, भारत सरकार		
The Patent Office, Government Of India		
पेटेंट प्रमाण पत्र		
Patent Certificate		
(पेटेंट नियमावली का नियम 74)		
(Rule 74 of The Patents Rules)		
पेटेंट सं. / Patent No.	553900	
आवेदन सं. / Application No.	201811011912	
फाइल करने की तारीख / Date of Filing	29/03/2018	
पेटेंटी / Patentee	Chandigarh Group of Colleges	
आविष्कारकों का नाम / Name of Inventor(s)	1.Ashima Kalra 2.Sonia Jindal 3.Bhawna Tandon 4.Ashish Debnath 5.Akash Dutta 6.Darpan Kochar 7.Rishabh Batta	
प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित MULTIFUNCTIONAL SERVICE SYSTEM FOR HOUSING SOCIETY नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2018 के उन्नीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।		
It is hereby certified that a patent has been granted to the patentee for an invention entitled MULTIFUNCTIONAL SERVICE SYSTEM FOR HOUSING SOCIETY as disclosed in the above mentioned application for the term of 20 years from the 29th day of March 2018 in accordance with the provisions of the Patents Act, 1970.		
अनुदान की तारीख / Date of Grant	05/11/2024	
		
पेटेंट नियंत्रक		
Controller of Patents		

Patent Grant Certificate: MULTIFUNCTIONAL SERVICE SYSTEM FOR HOUSING SOCIETY



Patent Filed

1. **Abhishek Sharma, Vishal Kumar Sahni, Paras,** Dr. Ashima Kalra “System To Enable Offline Data Transfer in Internet of Things Applications”.
2. **Bhavneet Kaur,** Dr. Bhawna Tandon “Automated Caliper for Dimension Measurement”
3. **Mayank, Khushi , Mehak sachdeva, Kamya, Sahil Kumar,** Dr. Ashima Kalra, Dr. Dinesh Arora, “Medi ATM,”
4. **Ashish Singh, Anup Kumar,** Dr. Abhishek Sharma, Dr. Dinesh Arora, “A Gesture based drone control system”.
5. **Nishant Anand, Prince Rana, Sahil Kumar,** Dr. Abhishek Sharma, Dr. Dinesh Arora, “RFID BASED AUTHENTICATION SYSTEM”.
6. **Hitesh,** Nidhi Chahal, “GSM Based Prepaid Energy Meter”.

Faculty Certifications-SWAYAM/COURSERA

The ECE department obtained online certifications in various courses from platforms such as AWS, Coursera, Google, and SWAYAM during October to December 2024.

1. Dr. Vinay Bhatia with **SWAYAM certification** in Course of Digital Logic and Circuit Simulations in July–Oct 2024.
2. Dr. Varsha Sood achieved **Foundations of Project Management Coursera certification** in month of Nov. 2024



SWAYAM ONLINE COURSE CERTIFICATION
(Funded by the MoE, Govt. of India)



This certificate is awarded to

DR VINAY BHATIA

for successfully completing the course

Digital Logic and Circuits Simulations

with a consolidated score of **92** %

Online Assignments	23.33/25	Proctored Exam	69/75
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Total number of candidates certified in this course: **175**

Aug-Oct 2024
(8 week course)


Dr. Ashutosh Mohan,
Coordinator, B.H.U., Varanasi



Roll No: INI24MA02S254900242

To verify the certificate



No. of credits recommended: 2 or 3

SWAYAM-Faculty Certification



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Coursera -faculty Certification

STUDENT s Certification-SWAYAM –NPTEL/COURSERA Certification

- The ECE department achieved approximately **50+ student MOOC certifications** from various online certification platforms, including Coursera, Udemy, AWS, FutureLearn, SkillUp, AWS Educate, Great Learning, GUVI, and others, during the months of October to December 2024.
- The ECE department achieved **20 student certifications through the SWAYAM** platform.



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to
ANKIT KUMAR
for successfully completing the course

Programming, Data Structures and Algorithms using Python

with a consolidated score of **78** %

Online Assignments	25/25	Proctored Exam	52.5/75
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Total number of candidates certified in this course: **2068**



Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2024
(8 week course)



M. Vignesh
Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



swayam

Roll No: NPTEL24CS78S343900010

To verify the certificate



No. of credits recommended: 2 or 3



Skill India
कौशल भारत - कुशल भारत



Student certification-SWAYAM



Student achievements

- Kirat Mehta from 5th semester ECE secured 3rd position, IKGPTU INTER COLLEGE FOOTBALL COMPETITION held on 10 Oct 2024.



3rd position in IKGPTU INTER COLLEGE FOOTBALL COMPETITION

- Sonam from 5th semester ECE secured 3rd position in Javelin Throw (women) in Intercollegiate Athletic meet, IKGPTU-2024.



3rd position in Javelin Throw (women) in Inter College Athletic meet , IKGPTU-2024.



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- Abhay Sharma from 4th sem ECE achieved Inter college level 3rd position.



3rd position in Inter College Level





Publications

1. Kaur, R., Kaur, J., Kaur, S., Kaur, G., Bhatia, R., & Kumar, P. (2024). A method for eco-friendly transactions. In *2024 IEEE 5th India Council International Subsections Conference (INDISCON)* (pp. 1–6). Chandigarh, India.
2. Kalra, A. (2024). Precision agriculture: Fuzzy logic or deep neural network models for robust crop disease. In *AI and Data Analytics in Precision Agriculture for Sustainable Development* (Springer, Accepted October 2024).
3. Kaur, G., Kaur, S., & Bhatia, V. (2024). Dual port UWB MIMO dielectric resonator antenna with airplane-shaped defective ground structure. *Wireless Personal Communications* (Accepted).
4. Kaur, J., Kaur, S., & Bhatia, V. (2024). A kite-shaped antenna array for dual-band applications. In *Proceedings of the IEEE Third International Conference on Artificial Intelligence, Computational Electronics and Communication System (AICECS 2024)* (Presented December 2024).

Placement

ECE students have secured 17 job offers, with 10 students placed in reputed companies such as Altruist Technologies Pvt. Ltd, Movidu Technology, and Logicapt Informatics Pvt. Ltd, achieving a highest package of 7 LPA.

Sr No	Roll No	Name	Company	Package (LPA)	Profile
1	2102086	Vaibhav Gupta	Logicapt Informatics Pvt. Ltd	5	Patent Analyst
2	2101959	Bhupinder Kaur	Logicapt Informatics Pvt. Ltd	5	Patent Analyst
3	2101964	Diksha	Movidu Technology	7	Business Development
4	2101994	Lakshay Vats	Movidu Technology	7	Business Development
5	2237723	Abhishek	Movidu Technology	7	Business Development
6	2237731	Manirattan	Movidu Technology	7	Business Development
7	2101978	Harshita Srivastava	Altruist Technologies Pvt Ltd.	4.8	Graduate Engineer Trainee - Telecom Infrastructure
8	2101998	Mamta	Altruist Technologies Pvt Ltd.	4.8	Graduate Engineer Trainee - Telecom Infrastructure
9	2102013	Nicky Kumari	Altruist Technologies Pvt Ltd.	4.8	Graduate Engineer Trainee - Telecom Infrastructure
10	2237732	Ranjit Kumar	Altruist Technologies Pvt Ltd.	4.8	Graduate Engineer Trainee - Telecom Infrastructure



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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 from Oct to Dec 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
Associate Professor-ECE

Student Editor: Mehak , Sahil Rohella