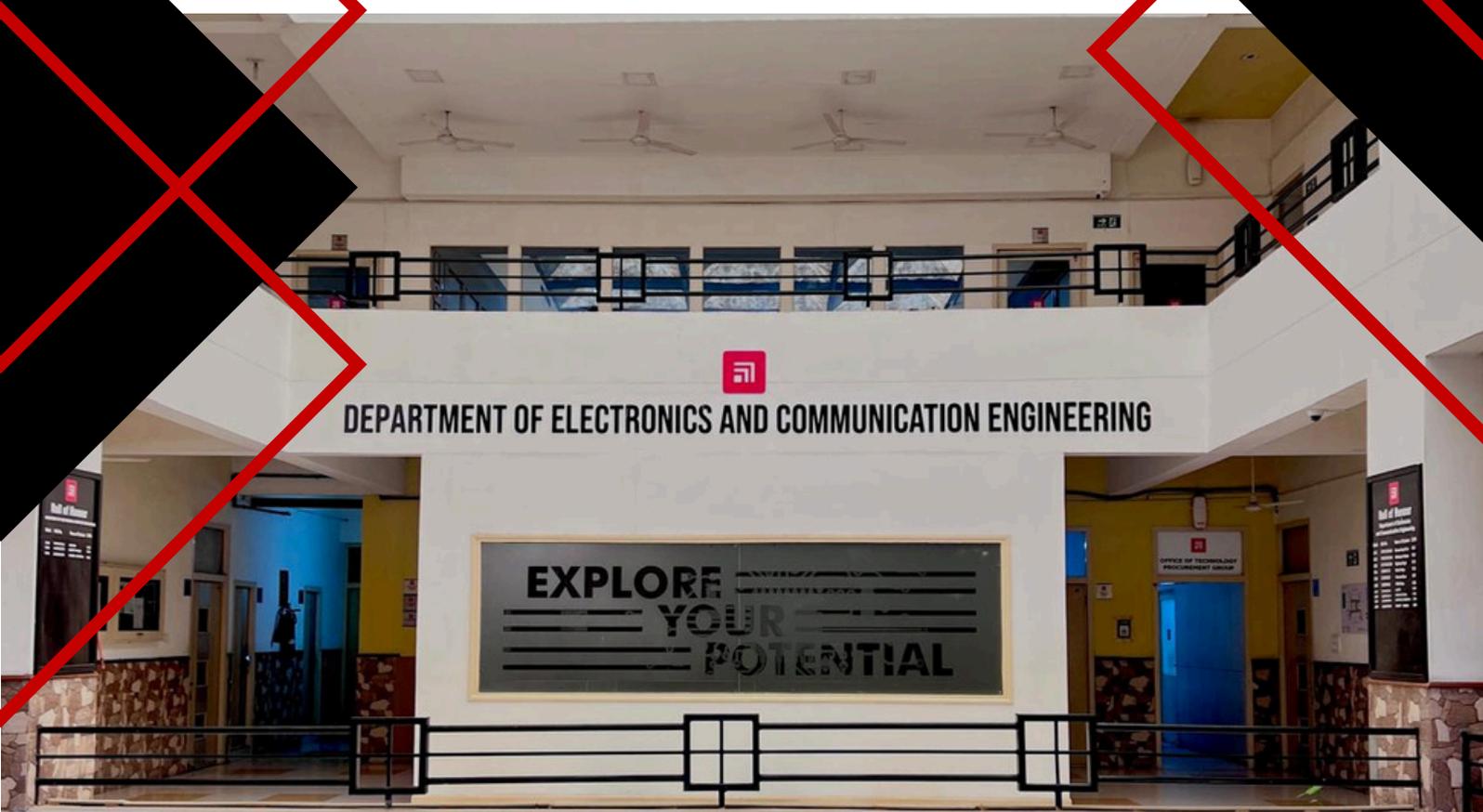


ELECTRO- BULLETIN

**VOL 12 . ISSUE 2
APRIL-JUNE, 2025
DEPARTMENT OF ECE**




DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**EXPLORE
YOUR
POTENTIAL**

 **Engineer Your Dreams**



ABOUT ECE DEPARTMENT

The Electronics & Communication Engineering (ECE) department at Chitkara University offers a future-ready curriculum aligned with emerging industry trends. It provides specialized tracks in IoT, VLSI, and Embedded Systems with a focus on technologies like Industry 4.0, Machine Learning, and Deep Learning. The program emphasizes hands-on, experiential learning through cutting-edge labs and high-tech facilities. Strategic partnerships with leading companies such as NXP, Texas Instruments, and Micron ensure students gain industry-relevant training. The department aims to produce professionals capable of building robust electronics and communication systems to solve real-world engineering challenges.

VISION

To be recognized as a centre of excellence in Electronics and Communication Engineering education and research, fostering innovation and advancing sustainable technological progress to address societal needs.

MISSION

M1: To provide globally competitive education in Electronics and Communication Engineering, fostering creativity, critical thinking, and lifelong learning.

M2: To cultivate a culture of innovation and research through strategic collaboration with industry and academia, leveraging emerging technologies.

M3: To instill ethical values, professional integrity, and leadership skills that empower graduates to serve and uplift society.

M4: To prepare students to solve complex engineering challenges and contribute to sustainable technological advancement.

PROGRAM EDUCATIONAL OBJECTIVES

PEO I: The graduating students would be able to make choice to go for a professional career in core technical domain or to pursue higher studies in the field of Electronics and Communication Engineering and other related areas and succeed in their academic and research careers.

PEO II: The graduating students would be able to solve socially relevant engineering problems by designing/developing the products with the help of acquired multidisciplinary knowledge.

PEO III: The graduating students would exhibit a good command over interpersonal communication skills, leadership and teamwork, and possess ethical values in their chosen professional careers.

PEO IV: The graduating students will be equipped to serve society starting at the national level, gradually expanding their impact to the international stage through the application of technical skills, professional competence, and exposure gained during their engineering education.

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DR. SHIVANI MALHOTRA

(Dean and Professor)
**Department of Electronics and
Communication Engineering,
Chitkara University ,Punjab**
shivani.malhotra@chitkara.edu.in



FROM THE DEAN'S DESK

A glimpse of activities held in our department during APRIL-JUNE, 2025 has been presented in the current edition, showcasing the talent and creativity of our young minds and the thoughtfulness and positivity of their youthful days. We ensure to remain optimistic and hopeful, empowering aspirations and hopes of our students as they pursue their academic journey.

Furthermore, this edition serves as a testament to the vibrant and dynamic community that thrives within our department, where collaboration and support are paramount. The collective efforts of our students, faculty, and staff contribute to an environment that nurtures excellence and fosters a lifelong love for learning. Together, we continue to shape a brighter future, empowering our students to become the leaders and change-makers of tomorrow.

MEDICAL CAMP JAN SWASTHYA MISSION: HEALTH FOR ALL

CHITKARA UNIVERSITY | **CHITKARA PHARMACY** | **Park Hospitals** | **गणित**

MEDICAL CAMP

Jan Swasthya Mission: Health for All

08th April, 2025 | **Venue:** Chitkara College of Pharmacy, Fleming Block extension, Ground Floor
10:00 AM Onwards

Organising Secretaries:
Prof. (Dr.) Rajwinder Kaur
 NSS School Officer and Assistant Dean | Pharm. D. (Academical)
 Chitkara College of Pharmacy, Chitkara University, Punjab
Levish Matta
 NSS Faculty Co-Ordinator
 Department of Electronics and Communication Engineering
 Chitkara University, Punjab

Convener and Chairperson:
Dr. Shivani Malhotra
 Professor and Dean
 Department of Electronics and Communication Engineering,
 Chitkara University, Punjab
Dr. Thakur Gurjeet Singh
 Professor and Dean
 Chitkara College of Pharmacy,
 Chitkara University, Punjab

Organized by:
 Department of Electronics and Communication Engineering & Chitkara College of Pharmacy

In collaboration with:
 National Service Scheme Department & Park Healing Touch Hospital (Ambala)

The Department of Electronics and Communication Engineering, Chitkara University, in collaboration with Park Healing Touch Hospital, organized a free **medical camp** on campus exclusively for students and staff. Aimed at promoting preventive healthcare, the camp offered check-ups including blood pressure, blood sugar, eye and dental tests, orthopaedic consultations, and general health assessments. Free prescribed medicines were distributed based on diagnoses. The event witnessed enthusiastic participation, fostering awareness about early detection and healthy living. A key highlight was the commendable contribution of NSS volunteers, who managed registrations, guided attendees, and coordinated with medical professionals, ensuring smooth operations throughout the day. Their teamwork and dedication were instrumental in the event's success. Beyond medical support, the camp served as an educational platform to encourage proactive health practices and combat lifestyle diseases. This impactful initiative exemplified the university's commitment to community well-being and student-driven service, leaving a lasting impression on all participants.



EXPERT TALK ON FASTER, SMARTER, BETTER: A DIVE INTO VEDIC MATH

The Department of Electronics and Communication Engineering, Chitkara University, Punjab, hosted an expert talk titled **“Faster, Smarter, Better – A Dive into Vedic Math”** on 9th April 2025. Delivered by Dr. Tania Bose, the session explored Vedic Mathematics—an ancient system promoting mental agility through simplified problem-solving methods. Dr. Bose engaged students with techniques like rapid multiplication, smart times-table tricks, and shortcuts for division and determinants. Designed for engineering students, the session blended theory with hands-on problem-solving, quizzes, and active student participation. Attendees tackled challenges on the board and explored real-time applications of Vedic methods. The interactive format fostered enthusiasm, curiosity, and confidence among learners. A Q&A session wrapped up the event, which received highly positive feedback.

CHITKARA UNIVERSITY

Expert Talk on
Faster, Smarter, Better
A Dive into Vedic Math

Resource Person
Dr. Tania Bose
Professor, Department of Applied Sciences
Chitkara University, Punjab

9th April, 2025
2:00 pm onwards
Einstein Hall, Galileo Block, Ground Floor

Faculty Coordinator
Dr. Swapandeep Kaur
Assistant Professor, DECE, CUIET
Chitkara University, Punjab

Convener
Dr. Shivani Malhotra
Dean, DECE, CUIET
Chitkara University, Punjab

Co-Convener
Dr. Isha Gupta
Academic Head, DECE, CUIET
Chitkara University, Punjab

Organised By:
Department of Electronics and Communication Engineering
CUIET, Chitkara University, Punjab

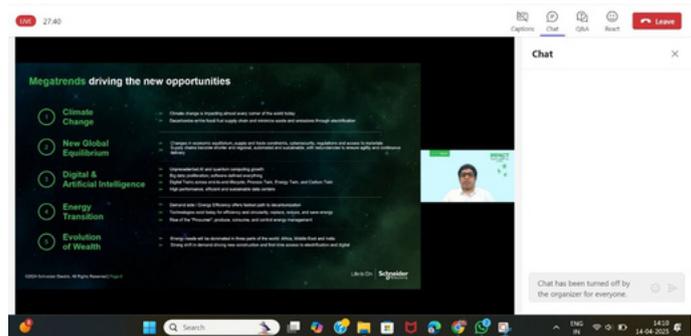
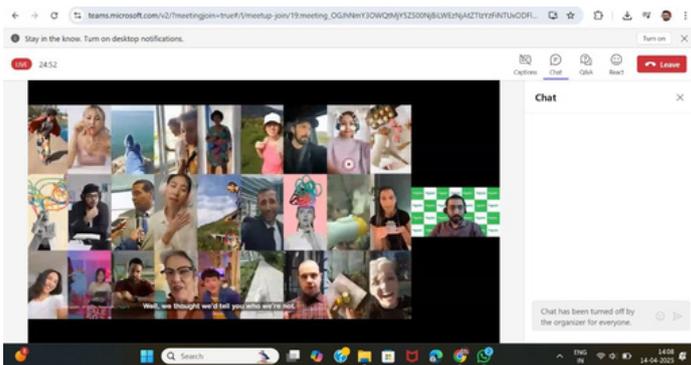
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Last Date of Registration: 6th April, 2025



DECODING SCHNEIDER ELECTRIC: YOUR GUIDE TO PRE-PLACEMENT SUCCESS

On 18 April 2025, the DECE hosted a session led by Ms Vaishali Shukla, Senior Manager (HR) at **Schneider Electric**, for ECE students. She outlined Schneider Electric's global commitment to sustainability and its pivotal role in digital transformation. The talk emphasized innovations in energy management and industrial automation, spotlighting technologies like AI, ML, IoT, and cybersecurity. Ms Shukla highlighted opportunities for ECE graduates in embedded systems design, power electronics, industrial control, IoT integration, and firmware development. She also described the company's inclusive culture rooted in curiosity, purpose, and collaboration. Roles such as R&D engineer, embedded software developer, and automation specialist were discussed. Additionally, she shared practical guidance on Schneider's gamified assessments, interview strategies, and resume-building tips to aid students in their pre-placement journey



CHITKARA UNIVERSITY

DECODING SCHNEIDER ELECTRIC

Your Guide to Pre-Placement Success

Resource Person
Vaishali Shukla
Senior Manager HR
Schneider Electric.

14th April, 2025
2:00 PM Onwards

Link: Microsoft Teams
Mode: Online

Faculty Coordinator
Dr. Preeti Sharma,
Associate Professor, DECE
CUIET, Chitkara University, Punjab

Convener
Dr. Shivani Malhotra
Dean (DECE)
CUIET, Chitkara University, Punjab

Dr. Isha Gupta
Academic Head (DECE)
CUIET, Chitkara University, Punjab

Organised By:
Department of Electronics and Communication Engineering
CUIET, Chitkara University, Punjab

BUILD AND BATTLE IN CIRCUIT VERSE

The IE(I) Student Chapter, in collaboration with the Department of Electronics and Communication Engineering, Chitkara University, Punjab, organized a technical event titled **“Build and Battle in Circuit Verse”** on 15th April 2025. The event began with an engaging session on Digital Electronics and Counters by Dr. Shaminder Kaur, aimed at strengthening students’ theoretical foundations. Participants were then challenged to design functional digital devices using CircuitVerse, a browser-based, open-source logic simulator supporting real-time testing and collaborative circuit design. A total of 22 teams enthusiastically participated, applying concepts in a time-bound competition. Judging was based on Logical Accuracy, Creativity, and Speed. Team Bit Busters claimed the First Prize, while Team Digital Verse secured Second. The event highlighted technical skill, innovation, and teamwork, offering hands-on exposure to digital design tools. It successfully blended theory with practice, encouraging critical thinking and better preparing students for real-world engineering applications and future industry or academic endeavors.



NLP UNPLUGGED: PLAY, LEARN, UNDERSTAND

NLP Unplugged: Play, Learn, Understand

was a beginner-friendly, interactive session held on 16th April 2025 at Chitkara University, Punjab, led by Dr. Rashpinder Kaur. Designed to demystify Natural Language Processing (NLP), the event used games, storytelling, and role-play to explore how machines understand human language. Rather than traditional lectures, the session emphasized creativity and engagement, encouraging students to interact with AI-powered tools like Siri, Alexa, chatbots, and translators. Through hands-on activities, participants gained foundational insights into NLP concepts without needing prior coding experience. The session fostered critical thinking and curiosity in a fun, supportive atmosphere. It also highlighted the accessibility and relevance of AI beyond technical circles, showcasing how creative methods can make complex technologies intuitive and inspiring. Participants left with greater confidence, a sense of discovery, and an eagerness to explore the vast potential of AI and NLP.

CHITKARA UNIVERSITY

NLP Unplugged
PLAY, LEARN, UNDERSTAND

Resource Person
Dr. Rashpinder Kaur
Associate Professor, DECE, CUIET
Chitkara University, Punjab

16th April, 2025
9:30 AM Onwards
Pierre Hall, Architecture Block

Faculty Coordinator
Dr. Diksha
Assistant Professor, DECE, CUIET
Chitkara University, Punjab

Convener
Dr. Shweta Malhotra
Dean, DECE, CUIET, Chitkara University, Punjab

Co-Convener
Dr. Amik Kumar
Assistant Professor, DECE, CUIET
Chitkara University, Punjab

Organised By:
Department of Electronics and Communication Engineering
CUIET, Chitkara University, Punjab

THE PRIZE POOL WILL BE AWARDED TO THE WINNERS

Scan for Registration



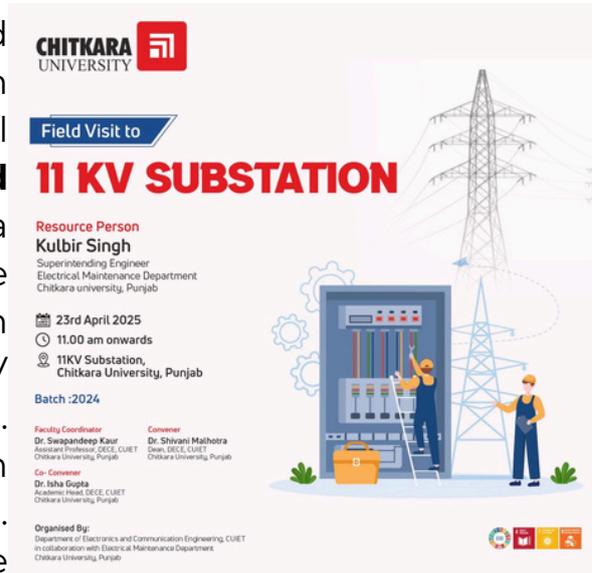
ENGINEERING YOUR CAREER: THE FUTURE OF AUTOMOTIVE EMBEDDED SYSTEMS

On 17th April 2025, the Department of Electronics and Communication Engineering at Chitkara University hosted a session titled **“Engineering Your Career: The Future of Automotive Embedded Systems,”** led by Mr. Kunal Gupta, Founder of Gettobyte Technologies Pvt. Ltd., New Delhi. The session focused on the transformative impact of embedded systems in the automotive industry, exploring their role in advancing safety, performance, and sustainability. Mr. Gupta introduced students to cutting-edge innovations including Advanced Driver Assistance Systems (ADAS), Vehicle-to-Everything (V2X) communication, and Over-the-Air (OTA) software updates. He discussed how embedded systems are revolutionizing electric mobility and energy-efficient vehicle designs. The session emphasized real-world applications and career paths, offering practical insights into essential skills, certifications, and industry expectations. Participants engaged actively, gaining a deeper understanding of the evolving landscape of automotive technology. This knowledge-sharing platform proved instrumental in guiding students toward future-ready careers in embedded systems and intelligent transportation.



FIELD VISIT TO 11 KV SUBSTATION

The Department of Electronics and Communication Engineering, in collaboration with the Electrical Maintenance Department, organized a **field visit to the 11KV Substation** at Chitkara University for ECE batch 2024 students. The visit covered the High Tension Vacuum Circuit Breaker room, showcasing four 11KV VCBs, with one serving as a master switch. Students learned about emergency alarm systems and real-time electricity monitoring. The control room highlighted power usage across departments and solar energy contributions, with 70% of electricity from substations and 30% from solar panels. Students observed oil-cooled transformers, diesel generators, and campus power distribution strategies. Safety protocols and equipment were also demonstrated. The visit provided practical exposure aligned with classroom learning and sparked student interest in future technical explorations.



CHITKARA UNIVERSITY

Field Visit to
11 KV SUBSTATION

Resource Person
Kulbir Singh
Superintending Engineer
Electrical Maintenance Department
Chitkara University, Punjab

23rd April 2025
11.00 am onwards
11KV Substation,
Chitkara University, Punjab

Batch :2024

Faculty Coordinator:
Dr. Sripaldeep Singh
Assistant Professor, DECE, CUET
Chitkara University, Punjab

Co-Convener:
Dr. Ishu Gupta
Academic Head, DECE, CUET
Chitkara University, Punjab

Convener:
Dr. Shikha Malhotra
Dean, DECE, CUET
Chitkara University, Punjab

Organised By:
Department of Electronics and Communication Engineering, CUET
In collaboration with Electrical Maintenance Department,
Chitkara University, Punjab



INNOVATIVE TEACHING PEDAGOGIES: ENHANCING ENGAGEMENT AND OUTCOMES



On 24th April 2025, the Teaching Learning Centre (TLC) of the Department of Electronics and Communication Engineering, CUIET, Chitkara University, hosted a session titled **“Innovative Teaching Pedagogies: Enhancing Engagement and Outcomes”**. Facilitated by Prof. Lipika Gupta, the session focused on integrating Artificial Intelligence (AI) tools to transform traditional teaching into more engaging, personalized, and data-driven practices. Participants were introduced to AI-powered platforms such as intelligent tutoring systems, adaptive learning tools, and automated grading solutions. Real-time demonstrations and interactive discussions enabled faculty to explore how these technologies support differentiated instruction, streamline administrative efforts, and enhance student performance insights. The session also highlighted the ethical considerations of AI in education and promoted a balance between automation and human-centric teaching. Faculty expressed enthusiasm about incorporating AI into their instructional strategies, reflecting a strong commitment to pedagogical innovation. This initiative reinforced TLC’s dedication to fostering 21st-century teaching excellence through technology, continuous learning, and reflective educational practices

INDUSTRY FOCUSED DIGITAL DESIGN HACKATHON USING ARTIX 7 NEXYS DDR4



The **Six-Hour Digital Design Hackathon** challenged Batch 2022 students to apply theoretical knowledge in real-time using FPGA and the ARTIX 7 NEXYS DDR4 platform. Participants implemented a 4-bit signed calculator with keyboard input and dual output systems—UART terminal via Tera Term and graphical VGA display—emphasizing hardware-software integration. The Verilog-coded calculator core handled signed arithmetic operations with optimized speed and accuracy. Students demonstrated interface-level programming to link user input and output systems, showcasing real-world usability. Aligned with SDG Goals 4, 8, 9, 16, and 17, the event promoted innovation, ethical competition, and collaborative learning. Through rapid prototyping and system design, the hackathon provided an engaging, high-impact platform for developing future-ready engineers capable of turning concepts into meaningful implementation.



INNOVATE'25 – TECHNICAL EXHIBITION OF IOT SYSTEMS AND VLSI DESIGNS



INNOVATE'25:

Technical Exhibition of IoT Systems and VLSI Designs

Convener:
Dr. Shivani Malhotra
Dean, DECE, CUIET
Chitkara University, Punjab

Faculty Coordinator:
Gurjinder Kaur
Associate Professor, DECE, CUIET
Chitkara University, Punjab

Dr. Garima Chopra
Associate Professor, DECE, CUIET
Chitkara University, Punjab

Co-Convener:
Dr. Isha Gupta
Academic Head, DECE, CUIET
Chitkara University, Punjab

2nd May, 2025 | 9:30 AM Onwards
AWaDH Lab, Edison Ground Floor

Organised By:
Department of Electronics and Communication Engineering
CUIET, Chitkara University, Punjab

On 2nd May 2025, the Department of ECE, in collaboration with E-BUZZ Club, organized **Innovate'25—an exhibition of IoT systems and VLSI designs** for Batch 2022. Twenty-two teams participated, showcasing hands-on innovation and applied engineering skills. Projects spanned smart IoT applications and advanced VLSI designs. Faculty judges evaluated entries on relevance, execution, teamwork, and presentation. The event encouraged peer learning, faculty interaction, and project refinement through feedback. Coordinated by Ms. Gurjinder Kaur and Dr. Garima Chopra, Innovate'25 highlighted the value of practical learning, creativity, and collaboration, inspiring students to push boundaries in modern electronics.



UNLOCKING THE POWER OF C++ STANDARD TEMPLATE LIBRARIES

CHITKARA UNIVERSITY

Expert Talk

Unlocking the Power of C++ Standard Template Libraries

Resource Person

Dr. Harsimran Jit Kaur
Professor, DECE, CUIET
Chitkara University, Punjab

2nd May, 2025
11:00 AM Onwards
LH-3, First Floor, Edison Block

Convenor:
Dr. Shivani Malhotra
Dean, DECE, CUIET
Chitkara University, Punjab

Faculty Coordinators:
Dr. Deepti Prit Kaur
Professor, DECE, CUIET
Chitkara University, Punjab

Dr. Meenu Garg
Associate Professor, DECE, CUIET
Chitkara University, Punjab

Organised By:
Department of Electronics and Communication Engineering
CUIET, Chitkara University, Punjab

On May 2, 2025, the Department of ECE at Chitkara University hosted **“Unlocking the Power of C++ STL,”** led by Prof. Harsimran Jit Kaur. Forty-seven first-year students from Batch 2024 explored STL components such as vectors, lists, and deques. Prof. Kaur introduced dynamic, object-generic programming through hands-on coding exercises and discussions on real-life applications. Active-learning methods like think-pair-share and a Kahoot quiz encouraged deep engagement and concept retention. Students developed critical thinking and problem-solving skills by linking theory to practice. The session empowered attendees with foundational STL knowledge, strengthening their programming confidence for advanced software development.



REVOLUTIONIZING ASSESSMENT FROM GRADES TO GROWTH

CHITKARA UNIVERSITY | Centre for Global Education

Revolutionizing Assessment

From Grades to Growth

Resource Person
Dr. Harsimran Jit Kaur
Professor, DECE
CUIET, Chitkara University, Punjab

7th May, 2025
10:00AM to 12:00PM
Eureka Lab, Edison Block

Organised By:
Teaching Learning Centre
Department of Electronics and Communication Engineering
CUIET, Chitkara University, Punjab

On 7th May 2025, the Teaching Learning Centre, Department of Electronics and Communication Engineering, CUIET, Chitkara University, hosted a session titled **“Revolutionizing Assessment: From Grades to Growth.”** Led by Prof. Harsimran Jit Kaur, the session promoted a shift from traditional grading to formative, student-centric assessment models. It emphasized reflective learning and skill development, integrating interactive tools like Kahoot, Mentimeter, and FigJam. Through live demos and hands-on activities, faculty explored dynamic strategies that foster engagement, feedback, and growth mindset. The initiative aligned with the university’s mission to enhance teaching through innovation and empower educators with transformative evaluation practices.



PROTOTYPE SHOWCASE 2025



CHITKARA UNIVERSITY

AWaDH IIT Ropar-TIF

PROTOTYPE Showcase 2025

Resource Person
Aatif Jamal
 Senior Manager, IIT Ropar TIF (AWaDH)

20th May, 2025
9:30 AM Onwards
 AWaDH Lab, Ground Floor, Edison Block

Convener
Dr. Shivani Malhotra
 Dean, DECE, CUET
 Chitkara University, Punjab

Co-Convener
Dr. Isha Gupta
 Academic Head, DECE, CUET
 Chitkara University, Punjab

Faculty Coordinator
Gurjinder Kaur
 Associate Professor, DECE, CUET
 Chitkara University, Punjab

Dr. Amit Kumar
 Associate Professor, DECE, CUET
 Chitkara University, Punjab

Organised By:
 Department of Electronics and Communication Engineering
 CUIET, Chitkara University, Punjab

On 20th May 2025, the Department of ECE, in collaboration with AWaDH Lab (EDC, Chitkara University), hosted an event titled **“Prototype Showcase 2025”** to celebrate engineering creativity and innovation. Twenty-four first-year teams from Batch 2024 presented functional prototypes demonstrating hands-on skills and problem-solving. Projects were evaluated by Mr. Aatif Jamal (AWaDH, IIT Ropar-TIF) based on innovation, execution, and relevance. Faculty leaders offered mentorship and feedback, enriching the learning experience. Coordinated by Ms. Gurjinder Kaur and Dr. Amit Kumar, the event concluded with prizes for outstanding entries, including Load Carrying Vehicle, Hologram Orbiter, Papermate with STM32, and Gesture-Controlled Drone. The showcase reinforced the value of experiential learning and inspired students to pursue engineering excellence through practical implementation.



EMPOWERING EDUCATION THROUGH AUGMENTED REALITY: A HANDS-ON FDP ON AR APPLICATION DEVELOPMENT



The Department of Electronics & Communication Engineering, Chitkara University, Punjab, organized a five-day Faculty Development Program titled **“Empowering Education Through Augmented Reality”** from May 26–30, 2025. The FDP aimed to equip faculty with conceptual and practical knowledge of AR and basic VR. Participants gained hands-on experience in AR application development using Unity, AR Foundation, and Vuforia through live demos, real-time coding, and collaborative projects. Led by experts like Dr. Amanpreet Kaur and team, and guided by Dean Dr. Shivani Malhotra, the program drew enthusiastic faculty participation, enabling them to integrate immersive technologies into their teaching practices effectively.



UNLOCKING ECE POTENTIAL IN THE EV INDUSTRY: A SESSION WITH EULER MOTORS



UNLOCKING ECE POTENTIAL IN THE EV INDUSTRY

A Session with Euler Motors

Resource Person

Adesh Dubey

Head (HR), Euler Motors.

Faculty Coordinator

Dr. Preeti Sharma,

Associate Professor, DECE
CUIET, Chitkara University

EV

Mode: Offline

7th June 2025

10.30 AM Onwards

Sun Hall



Organised By:

Department of Electronics and Communication
Engineering, CUIET, Chitkara University, Punjab

The Department of ECE organized a **pre-placement session with Mr. Adesh Dubey, HR Head at Euler Motors**, for Batch 2022. He highlighted the company's role in India's EV transition, especially in last-mile logistics. The session emphasized roles for ECE students in embedded software, hardware design, validation, and testing. Mr. Dubey discussed technologies like motor control, battery management, and telematics, showcasing real-world applications of ECE skills. He also stressed learning opportunities and career growth in the EV industry. The talk provided students with a strategic overview of technical demands, environmental impact, and promising career prospects in sustainable commercial mobility.



COMPUTATIONAL TECHNIQUES USING MATLAB: FROM BASICS TO RESEARCH



Five-Day Faculty Development Program on Computational Techniques Using MATLAB: From Basics to Research

23rd to 27th June 2025 10:00 AM Onwards

SCOPE

- Equip participants with the concepts of eigenvalues and eigenvectors and their applications in solving scientific and engineering problems.
- Introduce various interpolation techniques for estimating values from data and their importance in numerical analysis.
- Demonstrate real-world applications of interpolation in fields such as engineering, image processing, and data science.
- Guide participants in effective research paper writing and patent drafting to promote innovation and academic communication.

RESOURCE PERSONS

Dr. Reetu Malhotra

Professor
Department of Applied Sciences,
Chitkara University, Punjab

Dr. Mamatha Sandhu

Professor
Department of Electrical Engineering,
Chitkara University, Punjab

Registration Fee: Rs.100
Register Before 21st June 2025

- Participants must bring their laptops.
- Participants e-certificates will be provided.



ORGANISED BY

Department of Electronics and Communication
Engineering, Chitkara University, Punjab.



CONVENER

Dr. Shivani Malhotra
Professor & Dean, DECE,
Chitkara University,
Punjab

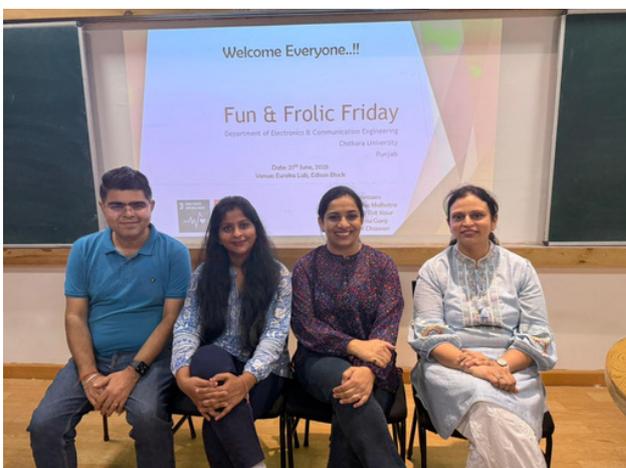
CO-CONVENER

Dr. Amanpreet Sandhu
Professor, DECE, Chitkara
University, Punjab,
9872981108

The Department of Electronics and Communication Engineering, Chitkara University, Punjab, successfully organized a five-day Faculty Development Program (FDP) titled **“Computational Techniques Using MATLAB: From Basics to Research”** from 23rd–27th June 2025 at Faraday Hall, Edison Block. The program attracted faculty from within and beyond the university, aiming to bridge the gap between theoretical concepts and research-based applications. Participants explored MATLAB fundamentals including coding, data visualization, matrix operations, interpolation methods, and real-world implementations. The sessions, conducted by Dr. Reetu Malhotra and Dr. Mamatha Sandhu, emphasized interactive learning and practical engagement. The event received high praise for its structured delivery, expert insights, and collaborative environment. It reinforced the department’s commitment to continuous faculty development and research excellence.



FUN & FROLIC FRIDAY: A DAY OF JOY, ENERGY, AND TOGETHERNESS



The Department of Electronics and Communication Engineering, Chitkara University, Punjab, hosted **“Fun & Frolic Friday” on 27th June 2025 at Eureka Lab, Edison Block.** Designed to offer a break from routine, the event promoted wellness, laughter, and faculty bonding. Activities included Zumba-based stretches, Count Swap: English to Hindi, Tongue Twisters, and the Books-on-Head Race—all of which sparked joyful participation and camaraderie. The event was coordinated by Dr. Priyanka Malhotra, Dr. Deeptiprit Kaur, Dr. Meenu Garg, and Dr. Sunil Dhawan, with spirited support from the FBuzz Club. Refreshments provided by the FBuzz team added to the warm and lively atmosphere. The event received overwhelming appreciation from faculty members for its thoughtful planning and joyful vibe. Special thanks were extended to Dr. Shivani Malhotra, Dean, for her continuous encouragement and support. Overall, the event was a delightful success, celebrating community, positivity, and workplace well-being.

STUDENT ACHIEVEMENTS



सेमी - कंडक्टर लेबोरेटरी
Semi-Conductor Laboratory

Ministry of Electronics & Information Technology

इलेक्ट्रॉनिक और सूचना प्रौद्योगिकी मंत्रालय

Govt of India / भारत सरकार

SCL:HRDD:8001:May2025:01

July 04, 2025

सेक्टर - 72, सा. अ. सि. नगर - 160071

Sector 72, S.A.S. Nagar -160 071

(चण्डीगढ़ के समीप) पंजाब, भारत

(Near Chandigarh) Punjab, India

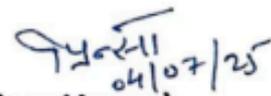
टेलीफोन / Phone : (0172)-229-6000, 6100, 6200, 6300, 6400

फैक्स / Fax : 0172- 2237410

वेबसाइट / Website : www.scl.gov.in

CERTIFICATE

This is to certify that Mr. Prateek Thapar (Roll No.2310994545) B.E. Electronics and Communication Engineering student of Chitkara University, Rajpura, Punjab has completed his Internship Training successfully, as part of his B.E. Curriculum on the topic of "Signal and Power Integrity for IC Package Design and 6-Layer PCB Development for SEE Testing of NanoSat SoC" from June 06, 2025 to July 04, 2025 at Semi-Conductor Laboratory.



(Prinsa Verma)

Dy. Head - HRDD

डॉ प्रिंसा वर्मा / Dr. Prinsa Verma

उप प्रमुख, मानव संसाधन विकास विभाग (एचआरडीडी)

Dy. Head, Human Resource Development Division (HRDD)

सेमी-कंडक्टर लेबोरेटरी / Semi-Conductor Laboratory

इलेक्ट्रॉनिक और सूचना प्रौद्योगिकी मंत्रालय /

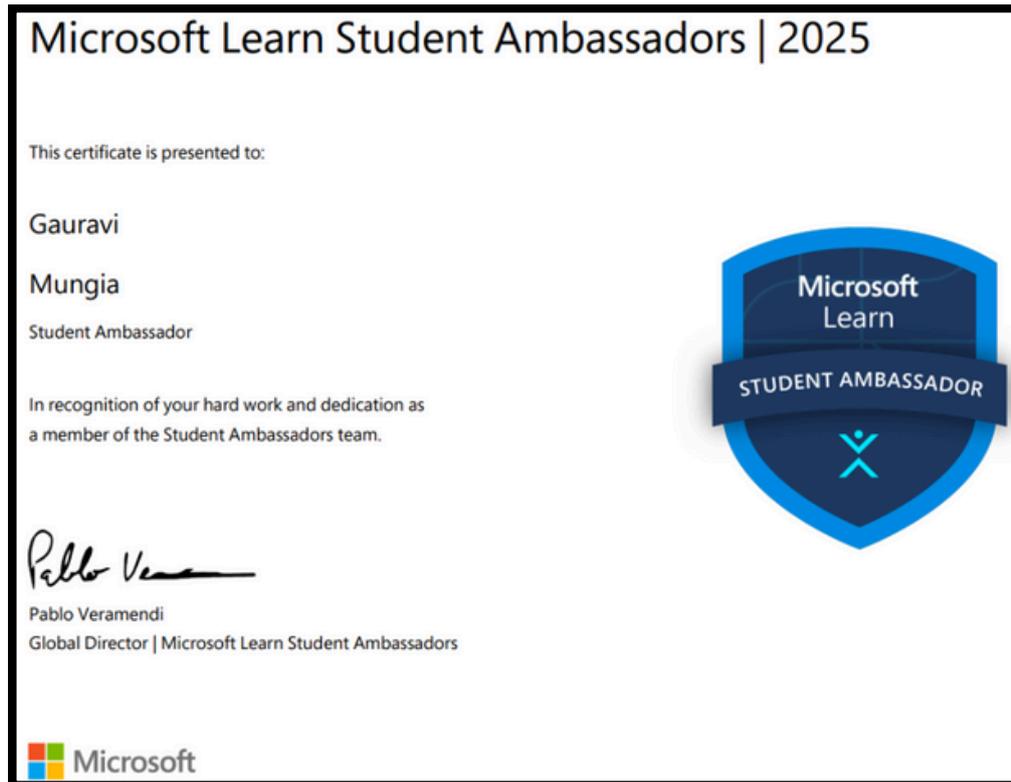
Ministry of Electronics & Information Technology

भारत सरकार / Govt. of India

सेक्टर-72, सा.अ.सि. नगर / Sector-72, S.A.S. Nagar-160071

Prateek Thapar Completed his internship from Semi-conductor Laboratory, Mohali on "Signal and Power Integrity for IC Package Design and 6-layer PCB development for SEE testing of NanoSat SOC

STUDENT ACHIEVEMENTS



Gauravi Mungia has been recognized as a Microsoft Learn Student Ambassador 2025 for her dedication and contributions as a valued member of the global Student Ambassadors team.



Nimran Kaur successfully completed a 4-week virtual internship in C++ Programming at CODSOFT from May 5 to June 5, 2025, earning praise for her exceptional skills and impactful contributions to various projects.

STUDENT ACHIEVEMENTS



Kritika Rai and Jaskeerat Kaur secured Third position as part of team Tech Titans in the technical event "NLP Unplugged: Play, Learn, Understand", showcasing exceptional gameplay, interactive storytelling, and teamwork at Chitkara University, Punjab on April 16, 2025.

FACULTY ACHIEVEMENTS

PUBLICATIONS

Sharma, Gaurav, Jonnala Sai Maneesh Kumar, Sandeep Kumar, A. Anitha, and Vivek Kanwar. "PLA material based development and advancement of low cost 3D printer using Fused Deposition Method." Materials Today: Proceedings 103 (2024): 358-365.

Chopra, Garima, and Suhaib Ahmed. "Ris-assisted integrated sensing and communication: applications, challenges and usecase scenario." Discover Applied Sciences 7, no. 7 (2025): 650.

Goel, Raghav, **Sharma, Gaurav**, A. Anitha, Manish Kumar Singla, Bharti Sharma, and Heranmoy Maity. "Computational Intelligence Approach of IoT in Real Time Smart Agriculture Monitoring." In 2025 Devices for Integrated Circuit (DevIC), pp. 57-62. IEEE, 2025.

Malhotra, Shivani, and Manish Sharma. "Design and analysis of CPW-fed multiband antenna for bluetooth and X-band applications with SAR analysis on human head phantom." Wireless Networks (2025): 1-13.

PATENTS

Name of the Patent: Ternary Inverter

Inventor: **Kulsbhushan Sharma**

Patent Status: Published

FACULTY ACHIEVEMENTS



CUIET secured 2nd position in the North Zone of the IETE Students Forum (ISF) Awards. Out of 593 entries from prestigious colleges and universities across the nation, 23 were shortlisted for the final round – and the top 2 from each zone were awarded.

Dr. Shivani Malhotra (Dean, ECE) and **Dr. Lipika Gupta** (Professor, ECE) proudly received the award on behalf of the University on 28th June at Ajay Kumar Garg College of Engineering, Ghaziabad.



FACULTY ACHIEVEMENTS



Dr. Shivani Malhotra and Dr. Preeti Sharma were honored with the Best Research Author Award in the Research Publications category at the Research Excellence Awards held at Chitkara University.



Dr. Kulbhushan Sharma was honored with the Best Research Author Award in the Research Publications category at the Research Excellence Awards held at Chitkara University.

FACULTY ACHIEVEMENTS



Dr. Amit Kumar was awarded the Most Funded Research Award in the Extramural Funding category at the Research Excellence Awards held at Chitkara University.



Dr. Lipika Gupta was honored with the Best Research Author Award in the Research Publications category at the Research Excellence Awards held at Chitkara University.

FACULTY ACHIEVEMENTS



Dr. Deeptiprit Kaur was awarded the Most Funded Research Award in the Extramural Funding category at the Research Excellence Awards held at Chitkara University.



DR AMIT KUMAR

Assist. Prof, DECE, Chitkara University

ACEI Ambassador IEEE Region 10

Dr. Amit Kumar has been selected as an Entrepreneurship Ambassador under the IEEE Region 10 Adhoc Committee on Entrepreneurship and Innovation (ACEI)

FACULTY ACHIEVEMENTS



Dr. Gaurav Sharma was awarded as India's top 15 mentor in the event SBI College Youth Ideathon by Think Startup at IIT Delhi during 5-6 April, 2025.



FACULTY ACHIEVEMENTS



Dr. Gaurav Sharma secured India's top 10 winner position among 1000+ teams across the country in SBI College Youth Ideathon by Think Startup at IIT Delhi during 5-6 April, 2025.

FACULTY ACHIEVEMENTS



Dr. Deepti Prit Kaur, Dr. Amanpreet Sandhu, Dr. Harsimran Jit Kaur, and Dr. Priyanka Malhotra have completed the IUCEE Felter-Brent Effective Teaching and Learning Course 2024-25, comprising 12 webinars and assignments led by renowned educators Dr. Richard Felder and Dr. Rebecca Brent.

FACULTY ACHIEVEMENTS



Dr. Shivani Malhotra, successfully completed a One-Week Online Short-Term Programme on "AI/IoT-Driven Cybersecurity, Blockchain and its Applications", organized by NIT Warangal under the Malaviya Mission Teacher Training Programme from June 18 to June 24, 2025.



Dr. Swapandeeep Kaur successfully completed 100% of the self-paced training courses "MATLAB Onramp" on May 7, 2025, and "Programming Constructs" on May 20, 2025, offered by MathWorks Training Services.

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