

NEWSLETTER

Department of Computer Engineering



The Department of Computer Engineering at COMSATS University Islamabad, Lahore Campus, drives academic and professional excellence. Working in seamless alliance, our departmental committees foster an environment of continuous growth. This synergy of rigorous instruction, industry partnerships, and vibrant extracurricular engagement ensures students are technically proficient and ready for the global engineering landscape.

Fall 2025

As we step into this new semester, remember: "The capacity to learn is a gift; the ability to learn is a skill; the willingness to learn is a choice." Approach this term with curiosity, dedication, and a commitment to excellence. Engineering is a demanding path, but your perseverance will be the bedrock of your professional success.

KEY EVENTS

- ▶ **Seminars**
- ▶ **Workshops**
- ▶ **Strategic Industrial Partnerships**
- ▶ **Research & Faculty Highlights**
- ▶ **Welcome Party**
- ▶ **Student Week**

Message from the Head of the Department

I am delighted to extend a warm welcome to all of you as part of the vibrant community within the Department of Computer Engineering (CE) at COMSATS University Islamabad, Lahore Campus. Our department is proudly recognized both nationally and internationally, consistently ranked among the top CE departments globally.

At CE, we are dedicated to excellence in education and research, offering a range of programs designed to equip our students with the necessary theoretical knowledge and practical skills to thrive in today's fast-evolving technological world. We currently offer a bachelor's program (BSCE), two master's programs (MSCE and MSAI), and a doctoral program (PCE), each designed with an emphasis on innovation, industry relevance, and cutting-edge research.

Our faculty members, who are highly qualified and deeply engaged in groundbreaking research, are at the forefront of fields such as renewable energy, artificial intelligence, internet of things (IoT), smart grids, machine learning, cybersecurity, system-on-chip (SoC) design, robotics, and machine vision. We take pride in offering state-of-the-art laboratory facilities that provide our students with invaluable hands-on learning experiences, ensuring that they are well-prepared to meet the demands of industry.

We believe in fostering a well-rounded education that goes beyond the classroom. Our department used to participate in a variety of activities, including technical workshops, project exhibitions, sports competitions, and cultural events. These activities are designed to encourage personal growth, teamwork, and leadership skills among our students. Additionally, our students had the opportunity to participate in industrial visits, giving them firsthand exposure to real-world engineering challenges and solutions. These trips provided valuable insights into industry practices and allowed students to engage with professionals in their field, further strengthening our commitment to bridging the gap between academia and industry.

Our focus on Outcome-Based Education (OBE) ensures that the quality of learning is measured by the real-world outcomes of our students. This approach shifts the focus from simply covering course content to ensuring that students achieve key competencies by the end of their studies. All of our undergraduate programs are accredited at level II by the Pakistan Engineering Council (PEC), a testament to our high standards in education.

We are also committed to continuous improvement in education by integrating the latest industry trends into our curriculum. Regular seminars, guest lectures, and workshops are held to keep students up-to-date with the rapidly changing technological landscape.

I invite you all to explore the vast opportunities within our department. Whether you are a prospective student or an industry partner, we are here to support you in every step of your academic or professional journey. Our goal is to create an inclusive and nurturing environment where students can excel and reach their full potential.

Dr. Muhammad Naeem Awais
Head of Department
Computer Engineering
COMSATS University Islamabad, Lahore Campus



Seminars

FYP Roadmap Seminar

The Collaboration and Outreach Committee (COC) committee in alliance with Project Advisory Committee (PAC) has organized a seminar titled “FYP-Roadmap: Proposal, Development Execution” on September 17, 2025, in the MSI Lab, B-Block. The session was led by Dr. Jehangir Arshad, Assistant Professor of Computer Engineering, who served as the guest speaker. The seminar provided students with a comprehensive overview of the Final Year Project (FYP) process, guiding them through each stage from crafting a well-structured proposal to methodical project development and successful execution.



Workshops

Chip Designing Workshop

The **Collaboration and Outreach Committee (CoC)** successfully organized a seminar with title **“Chip Designing”** on **7th October, 2025**. The session was held in the Graduate Lab of A Block (Room No. A-12) and attended by final year students. The guest speaker, **Engr. Zohaib Hassan** - a distinguished alumnus of the department and currently associated with the **R&D Centre at Omnivision Technologies, Oslo, Norway** delivered an insightful talk highlighting the latest developments, design methodologies, and research opportunities in the field of chip design.



Cloud Observability Talk

The Department of Computer Engineering, in collaboration with the IEEE Lahore Section and the IEEE Student Branch CUI Lahore, organized a talk titled **“The Future of Cloud Observability: Beyond Logs and Metrics with eBPF”** on **Friday, 21st November 2025, from 10:00 am to 12:00 pm**. The session was delivered by Dr. Syed Hassan Jamil from Asia Pacific University (APU), Malaysia. This event aligned with the ongoing efforts of the International Office (Principal Seat) to establish long-term collaboration with APU.



Strategic Industry Partnerships

MOU Signing

CUI, Lahore Campus and NESPAK have officially signed a **Memorandum of Understanding (MoU)** to strengthen industry-academia linkages and create meaningful opportunities for students, faculty, and professionals. The ceremony took place in the office of **Dr. Muhammad Naeem Awais**, Head of the CE Department, on **September 16, 2025**.



Industrial Visit at NetSol

The **Collaboration and Outreach Committee** of the Computer Engineering Department organized industrial visits for the students of **Batch FA24-BCE** in December 2025. The visit was conducted at **NetSol**.



Strategic Industry Partnerships

Industrial Visit at US Apparel

The Collaboration and Outreach Committee of the Computer Engineering Department organized industrial visits for the students of Batch FA24-BCE in December 2025. The visit was conducted at **US Apparel**.



Strategic Industry Partnerships

Industrial Visit at DTI (Descon Technical Institute)

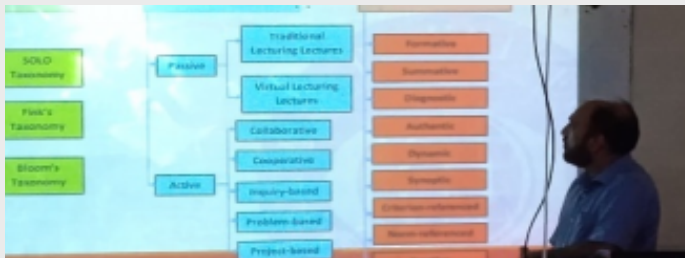
COC organized a series of Industrial trips in September 2025. First visit was conducted on 23 September and 2nd was conducted on 30 September. These visits were arranged for the students of FA22BCE, where they had the opportunity to visit Descon Technical Institute (DTI). The purpose of these visits was to bridge the gap between theoretical learning and practical exposure. They were introduced to the training facilities, including workshops, labs, and skill development centers. The instructors highlighted the importance of hands-on training, industrial safety practices, and technical expertise in preparing students for real-world challenges.



Research & Faculty Highlights

Faculty Training:

Dr. Muhammad Naeem Awais, HoD CE Department, presented the key highlights of the FDA “**Train the Trainer**” Workshop to all faculty members of the Computer Engineering Department on October 29, 2025.



Research Publications:

Huang, Guan-Long, Hua-Feng Li, Zi-Yu Pang, Ming-Feng Xu, Xiao-Chuan Fang, Rui-Sen Chen, Qiang Shao et al. "A Beam-Steerable Conformal Waveguide Slot Array Based on a Mechanical Tunable Phase Shifter." *IEEE Antennas and Wireless Propagation Letters* (2026).

Tamoor Khan, Muhammad, Hassaan Saleem, Malka Rania Iqbal, Muhammad Shahzaib Shahid, Abbas Javed, Muhammad Nadeem, and Saleem Akhtar. "Enhancing thermal comfort and sustainability in building energy management through edge machine learning-enabled smart controllers." *Journal of Ambient Intelligence and Smart Environments* 17, no. 3 (2025): 376-391.

Ahmad, Masood, Rosmiwati Mohd-Mokhtar, Muhammad Usman Iqbal, Muhammad Farooq-i-Azam, and Sadaqat Ali. " H_{∞} Based Fault Detection Observer Design for Three-tank System with Parametric Uncertainty." *Pakistan Journal of Engineering and Technology* 8, no. 2 (2025): 39-47.

Welcome Party

The Event Management Committee (EMC) of the Computer Engineering Department organized a welcome party for the **FA25-BCE batch on December 11, 2025**. The celebration took place at the campus football ground and was highly successful. Students took part enthusiastically in various planned activities, including music and games, demonstrating strong teamwork and discipline. During the event, the Head of Department addressed the audience, acknowledging the dedication of the organizing committee and student volunteers. The program concluded with the presentation of certificates to **ACE members** in appreciation of their contributions.

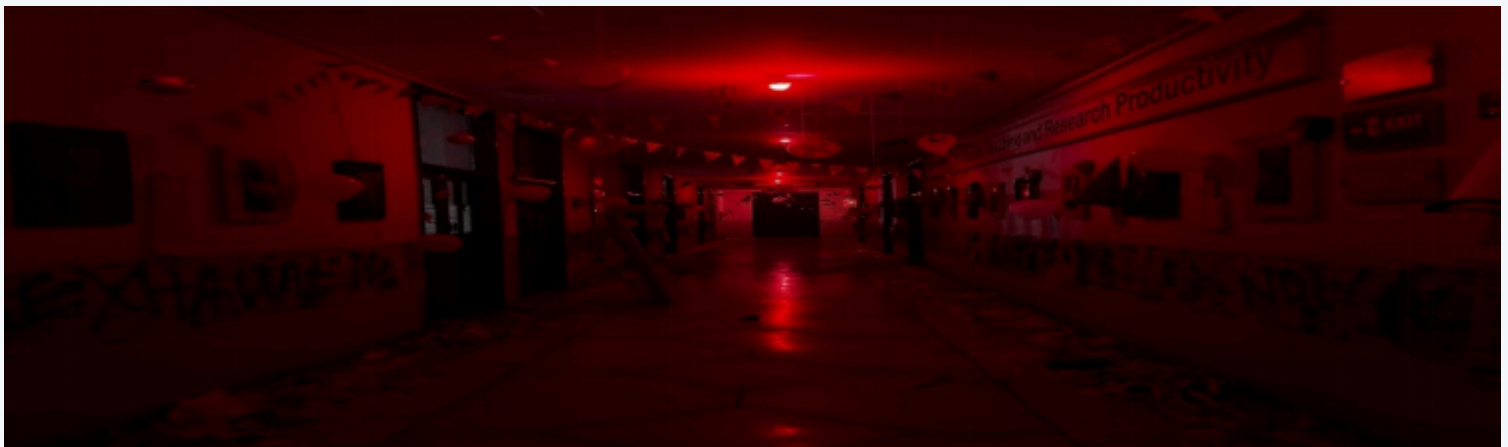


Student Week

The Event Management Committee (EMC) of the Computer Engineering Department organized two events during the Student Week of Fall 2025. Both events were conducted in collaboration with the student society **Ambassadors of Computer Engineering (ACE)**.

1. The Departmental Cipher (Escape Room Challenge)

An immersive, spooky-themed puzzle hunt held in the MSI Lab. Teams of four raced against time to solve a series of interconnected riddles. The event was designed to test logic, collaboration, and problem-solving skills in a high-energy environment. The event was a major success, attracting the maximum capacity of registered teams. The competitive atmosphere was electric, and feedback from participants highlighted the unique and intellectually stimulating nature of the challenge.



2. E-Support Tournament

A **competitive gaming tournament** featuring two of the most popular titles, **Tekken and FIFA**. The event provided a platform for students to showcase their gaming talents in a structured, competitive format, complete with a single elimination bracket to determine the champions. The tournament drew in a large number of competitors and spectators, creating a vibrant and social atmosphere in the B-Block classrooms. It successfully brought together students from different batches with a shared passion for gaming, strengthening community bonds within the department.



The Student Week events organized by **ACE** were a resounding success. They not only provided entertainment but also achieved core objectives of enhancing student engagement and building a stronger, more connected departmental community. The high level of participation and the positive reception have laid a strong foundation for future ACE initiatives.

**Departmental Promotion Committee
Department of Computer Engineering
COMSATS University Islamabad,
Lahore Campus**



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