

ELECTRICAL ENGINEERING NEWSLETTER 2026



The Electrical Engineering building at COMSATS University Islamabad, Lahore Campus

ISSUE 01 | SEPTEMBER 2025 – JUNE 2026

Bringing you workshops, research, and industry highlights from the EE Department.

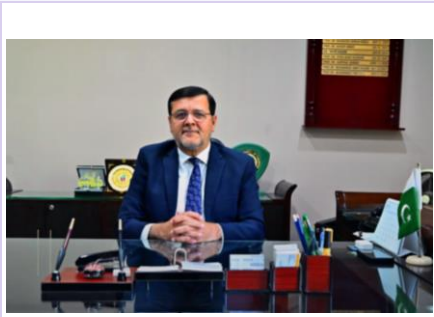
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MESSAGE FROM THE DIRECTOR**Lahore Campus**

Prof. Dr. Qaisar Abbas
Director, Lahore Campus

Greetings from COMSATS University Islamabad (CUI), Lahore Campus!

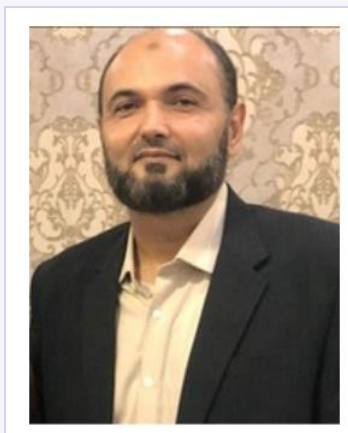
I welcome you to the COMSATS University Islamabad (CUI), Lahore Campus, one of the leading campuses of the COMSATS. Our esteemed institution caters to the pragmatic, practical and moral aspects of learners with the strong realization to make its alumni a functional part of society. By taking advantage of their newly acquired skill set and quality learning, our undergraduates and graduates as independent and critical thinkers have stood up to local and international challenges and acclaimed awards in nearly all walks of life.

Our departments of Computer Sciences, Management Sciences, Chemical Engineering, Electrical Engineering, Physics, Humanities, Architecture and Design, Mathematics and Statistics make up an amazing resource pool that has served the nation with its concerted effort and multi-disciplinary approach. I believe that the need based, research oriented, solution based and innovative teaching-learning ambiance created here is a way forward for our education system that needs to bridge up the gap between the theory and the practice, address the societal demands, and reclaim its recognizable space in the comity of academia.

I hope that the symbiotic relationship between the teacher and the taught, the administration and the academia will lead our institution to the new heights of fame and glory. I, as Director, look forward to the opportunity to provide you with this enriching teaching-learning experience.

Best regards,

Prof. Dr. Qaisar Abbas
Director, Lahore Campus

MESSAGE FROM THE HOD (Head Of Department)**Department of Electrical Engineering**

Dr. Mirza Tariq Hamayun
Head of the Department

As a Head of Electrical Engineering (EE) Department, it is my pleasure to welcome you to a department that thrives on innovation, excellence, and a commitment to shaping the future of Technology. Whether you are a prospective student, researcher, or industry partner, you will find a vibrant and dynamic community here at the EE Department, dedicated to advancing knowledge and solving real-world challenges.

We take pride in providing an environment that fosters creativity, critical thinking, and collaboration. Our state-of-the-art laboratories and research facilities allow students to engage in practical learning, while our partnerships with leading industries, which are also members of our Industrial Advisory Board, open doors to exciting career opportunities. Apart from the curriculum, the EE department regularly arranges workshops, seminars, industrial visits, and internships for the students to bridge the gap between theoretical knowledge and practical applications, exposing them to real-world challenges, and fostering industry connections, ultimately preparing them for successful careers. Our graduates are making significant contributions worldwide, and we are proud of the impact they continue to create. Currently at the EE Department, we are offering programs like BS Electrical Engineering (BEE) with specialization streams of Computer, Robotics and Control, Power, Electronics, Telecommunication, and Electric Vehicles (in the pipeline), MS Electrical Engineering (MSEE), MS in Energy Systems Engineering (MSESE) and PhD in Electrical Engineering (PEE). Keeping in view the latest market trends, Artificial Intelligence is a mandatory course for the new intake of the BEE program.

Outcome-Based Education (OBE) is a growing trend to equip engineering students with creative skills to solve real-world problems. The OBE-based education focuses on what students can do after learning rather than just what they know. Our BEE program is based on the OBE system to produce competent engineers to fulfill modern industrial demands. As a testament to our excellence in engineering education, all the batches of BEE program are accredited at level-II by the Pakistan Engineering Council (PEC).

Our faculty members are not only accomplished researchers but also passionate educators and mentors. Their expertise spans key areas such as renewable energy, artificial intelligence, robotics, machine learning, fault tolerant control, antenna design, signal processing, applied electromagnetics, computer networks and Hybrid Electric Vehicles (EVs), etc. — fields that are shaping the future.

We look forward to seeing you excel!

Dr. Mirza Tariq Hamayun
Head of the Department

Bringing You Workshops, Research, and Industry Highlights from the EE Department

Workshop Highlights

From LaTeX research-writing to sensors and actuators, the department's CPD sessions kept faculty and students building practical, publishable skills throughout the year.

Industry Engagement

Students toured Descon, Pak Elektron, Nishat Chunian and Orient Electronics, and met recruiters from Fatima Group — connecting classroom theory to real industrial practice.



Faculty and students attend the “Mastering Research Writing with LaTeX” workshop, Power Lab (P-3).

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Attendees learned template management, automated citations, equation formatting, and collaborative tools like Overleaf — earning 0.5 CPD points.

EE DEPARTMENT • CUI LAHORE

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Research Achievements — 3 publications

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Industrial Visits — Descon, PEL, Nishat Chunian, Fatima Group & Orient Electronics



COMSATS University Islamabad, Lahore Campus.

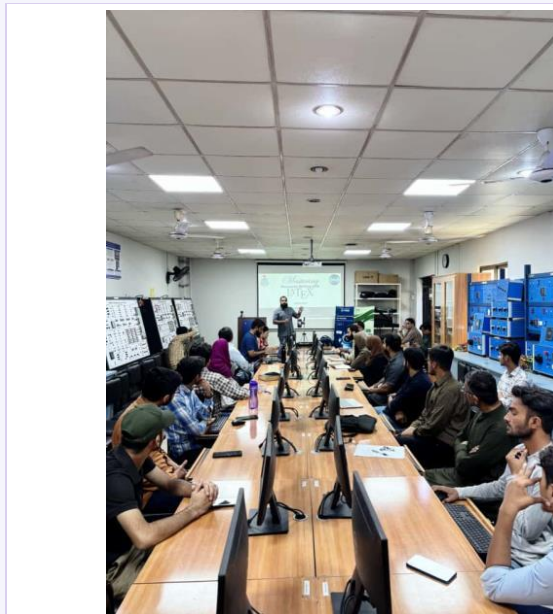
OCTOBER 2025

Mastering Research Writing with LaTeX

The Department of Electrical Engineering successfully organized a workshop titled “Mastering Research Writing with LaTeX,” conducted by Dr. Kamal Shahid, Assistant Professor at Punjab University. The session provided participants with practical insights into writing research papers, theses, and academic reports using LaTeX. Attendees learned about template management, automated citations, equation formatting, and collaborative tools like Overleaf, earning 0.5 CPD points.



Mastering Research Writing official session poster.

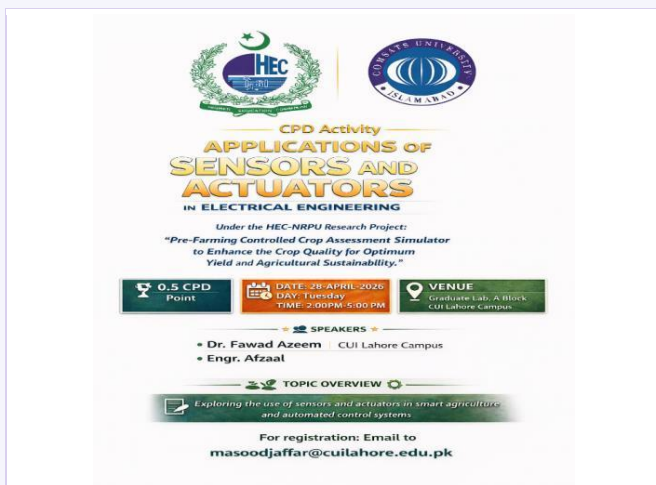


participants and faculty during the hands-on LaTeX session in Power Lab (P-3).

APRIL 2026

Applications of Sensors and Actuators in Electrical Engineering

A Continuing Professional Development (CPD) activity was successfully conducted by the Electrical Engineering Department on 28 April 2026 in the Graduate Lab, Block A, COMSATS University Islamabad, Lahore Campus. Dr. Fawad Azeem conducted a workshop on the applications of sensors and actuators in electrical engineering.



CPD activity poster “Applications of Sensors and Actuators,” under the HEC-NRPU research project



Applications of Sensors and Actuators in Electrical Engineering
Dr. Fawad Azeem presenting the crop-assessment simulator.

NOVEMBER 2025

Faculty Get-Together (Fish Party)

The faculty of the EE Department organized a warm and delightful get-together (Fish Party), held in the University Cafeteria on 20th November 2025, to promote a sense of community, strengthen interpersonal connections, and provide an opportunity for informal interaction among colleagues. The gathering was well attended by faculty members, who participated enthusiastically and contributed to the friendly and cheerful environment.

The event began with a group photo session outside the cafeteria, capturing the presence of all participants. These photographs reflect the unity, cooperation, and cordial relations among the faculty members. Once seated inside, everyone enjoyed engaging conversations and light-hearted moments. The informal setting allowed participants to relax, share experiences, and refresh themselves beyond the routine academic schedule. The serving of freshly prepared fried fish added to the charm of the gathering and was thoroughly enjoyed by all attendees.



Faculty members gather for a group photo outside the University Cafeteria.



Colleagues enjoy informal conversation during the Fish Party.



STUDENT WEEK FA25

The department's IEEE Student Branch and Computer Engineering Department jointly celebrated Student Week ("PULSE 25"), opening the festivities with a ribbon-cutting ceremony attended by faculty and students.



The PULSE 25 opening ceremony and entrance decoration outside the Electrical Engineering Department.



The PULSE 25 opening ceremony

RESEARCH ACHIEVEMENTS

H. A. Zidan, H. U. Manzoor, F. Azeem, T. Manzoor, "Evaluation of Electric Vehicle Retrofitting Challenges Through a Design, Operation, and Charging Infrastructure Assessment Framework," Energy Science & Engineering, 2025.

Sarwar, A., Usman, M., Hussain, M. et al., "AI-powered deep ultraviolet laser diode design for resource-efficient optimization," Journal of Computational Electronics 24, 136 (2025).

H. A. Zidan, H. U. Manzoor, F. Azeem, T. Manzoor, "Evaluation of Electric Vehicle Retrofitting Challenges Through a Design, Operation, and Charging Infrastructure Assessment Framework," Energy Science & Engineering 13 (2025).

3

PUBLICATIONS FEATURED

2025–26

REPORTING PERIOD

5

INDUSTRIAL VISITS

INDUSTRIAL VISIT, EE DEPARTMENT

Descon Training Institute & Descon — 30 September 2025

Around 50 students from the Fall-22 and Fall-23 batches of Electrical Engineering visited Descon Training Institute (DTI) and Descon. The students attended an engaging training session focused on technical skill development and industry practices. The visit provided valuable exposure to real-world applications, bridging academic learning with professional industrial experience.



students and faculty on site at Descon Training Institute



students attend a technical training session during the visit.

Pak Elektron Limited (PEL) — 17 February 2026

Around 40 students from the Fall-22 and Fall-23 batches of Electrical Engineering visited Pak Elektron Limited (PEL) for an industrial tour. Students were introduced to various manufacturing and production processes, gaining insights into the practical implementation of electrical and electronic systems. The session also highlighted modern industrial practices and quality-control standards followed at PEL, helping bridge the gap between academic learning and industry practice.



Students during the industrial tour at Pak Elektron Limited.

Nishat Chunian Pvt Ltd — 17 February 2026

A group of around 50 students from the Fall-22 and Fall-23 batches, including female students, visited Nishat Chunian Pvt Ltd for an industrial tour. Students were given an overview of the company's operations and modern industrial processes, particularly related to energy systems and manufacturing practices, observing real-time industrial workflows and how theoretical engineering concepts are applied at scale.



Students observing operations during the Nishat Chunian visit.

INDUSTRIAL VISIT, EE DEPARTMENT (CONTINUED)

Fatima Group E2L/GTE Drive 2026 24 February 2026

Fatima Group visited the campus to conduct its E2L/GTE Drive 2026 for students of the Electrical Engineering department. The session began with an orientation, followed by an assessment process for eligible students. The drive offered Trainee Engineer opportunities for the Fall-22 batch and internship opportunities for the Fall-23 batch, giving students the chance to engage with industry professionals and explore career prospects.



Orientation and assessment sessions during the Fatima Group E2L/GTE Drive.

FYP Strategic Guidance Seminar 25 February 2026

A Final Year Project (FYP) Strategic Guidance Seminar was organized for the Fall-23 batch of Electrical Engineering students. The session was arranged by the IEEE Student Branch in collaboration with the Project Advisory Committee at COMSATS University Islamabad, Lahore Campus. The seminar provided guidance on selecting impactful FYP topics, choosing supervisors, and understanding evaluation criteria, helping students prepare effectively and align their work with professional and industry standards.



Students attend the FYP Strategic Guidance Seminar by Prof Dr Mujtaba Hussain Jaffery.

Orient Electronics Industries 13 May 2026

An industrial visit to Orient Electronics Industries was organized for the Fall-22 and Fall-23 batches of Electrical Engineering students at COMSATS University Islamabad, Lahore Campus. The visit provided students with valuable exposure to real-world industrial practices, manufacturing processes, and the practical application of electrical and electronic engineering concepts in industry.

It also offered an opportunity for students to interact with industry professionals, gain insight into modern technologies and production systems, and better understand the professional and industrial requirements relevant to their field.



Students and faculty gather outside Orient Electronics Industries during the visit.

Thank you for reading

Department of Electrical Engineering • COMSATS University Islamabad, Lahore Campus

COMMITTEE MEMBERS

This issue of the Electrical Engineering Newsletter was brought together by the following committee members.

**With Thanks**

The committee thanks every faculty member, student volunteer, and department office that contributed photos, write-ups, and coordination for this issue.

Department of Electrical Engineering • COMSATS University Islamabad, Lahore Campus