

COMPUTER SCIENCE Department

NEWSLETTER

SPRING

2025



COMSATS

UNIVERSITY ISLAMABAD
LAHORE CAMPUS



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DR. ASAD HUSSAIN

MESSAGE FROM
DIRECTOR

Assalam-u-Alaikum!

“ I welcome you all on the behalf of the Computer Science Department. In comparison to other disciplines, our students are getting more skillful in modern technology. We see our students as excellent programmers, researchers and analysts in the future. We are well aware of everyday breakthroughs in modern technology and thus are committed to equip them with advanced competencies to manage the growing needs of sciences and technologies. Our highly qualified faculty members ensure that you have a solid technical grasp on different subjects to apply this.”



MESSAGE FROM HOD



DR. FAROOQ AHMAD

Assalam-u-Alaikum! During the Fall 2024 semester, we have achieved several milestones that reflect our dedication, as highlighted in this newsletter. Our faculty members are engaged in cutting-edge research, our students are excelling in their academic and extracurricular pursuits, and our collaborative projects are making a tangible impact in computing.

As we progress through this semester, I am reminded of our department's unwavering commitment to excellence in computing education. Our vision is to be the leading computing department, dedicated to promoting excellence in teaching and preparing our graduates to become technically competent professionals. We aim to equip our students with the skills and knowledge necessary to make significant contributions to the knowledge economy and the scientific development of our country.

We are proud to see our graduates stepping into pivotal roles in the industry, embodying the technical prowess and innovative spirit that our department strives to introduce. Their successes are a testament to the quality of education and rigorous training they receive here.

Looking ahead, we remain committed to fostering an environment that encourages innovation, critical thinking, and continuous learning. We will continue to enhance our curriculum, expand our research initiatives, and strengthen our industry partnerships to ensure that our students are well-prepared to meet the challenges of the ever-evolving tech landscape.

Thank you for your dedication and hard work. Together, we will continue to advance the frontiers of computing and contribute to the scientific and economic growth of our nation.

Events

Orientation

Comprehensive orientation sessions were arranged for the newly admitted students in BS(CS) and BS(SE) programs in the computer science department for the Spring 2025 semester on February 10, 2025. The event was held in the N Block, at COMSATS University Islamabad, Lahore Campus. Esteemed faculty members including worthy Director and all Heads of Academic Departments, and relevant officials from the administration graced the occasion to welcome the new students.

The students were given a detailed presentation by senior faculty members of the CS department on rules, regulations, and campus environment and facilities. Senior faculty along with the batch advisor welcomed the new students and provided valuable advice, encouraging them to put in their best efforts to excel in their studies. Orientation day provided an opportunity to enlighten the students about the university rules and regulations and other related matters.

After the presentation, the concerned batch advisors interacted with the students and parents and took them on campus tour to familiarize students with various academic and administrative blocks and other campus facilities.

Orientation sessions statistics.

Spring 2025:

BS (CS) – 3 sections

BS (SE) – 3 sections

BS (AI) – 1 section



Computer Science Alumni CEO Club

The Computer Science Department's Industry Liaison Committee invited ten CEOs of software companies to the campus on February 27, 2025, to explore collaboration opportunities. Companies agreed to support the establishment of a Student Chapter at COMSATS University Islamabad, Lahore Campus, to promote the software development activities. Companies also agreed to provide training and internship opportunities to the students of COMSATS University Islamabad, Lahore Campus.

Dr. Farrukh Zeshan and his team welcomed the CEOs and Mr. Asad Ur Rehman, President of the Alumni Association. Prof. Dr. Syed Asad Hussain, Former Director, along with Dr. Farooq Ahmad, Head of Computer Science Department, and Dr. Farrukh Zeshan, Convener of the Industry Liaison Committee, had tea with the guests. The CEOs and Dr. Farooq Ahmad signed the Memorandum of Understanding (MoU). Mr. Mohsin Mehdi hosted the CEOs' talk with students on industry-academia collaboration. At the end, the CEOs received souvenirs from Prof. Dr. Syed Asad Hussain.



Events

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COMPUTER SCIENCE
ALUMNI CEO CLUB

**USAMA BIN KHURSHEED**
CEO: COREVATO

**BILAL ASLAM**
CEO: VERDANT SOFT

**SAEED AHMAD**
CEO: THIRTYNORTH DEV

**HAMZA NADEEM**
CEO: SEVEN STACKS

**ROBEEL HASSAN**
CTO: VERDANT SOFT



Events



Meeting of CEO FirstPassAI with Industry Liaison Committee CS Department

On April 11, 2025; Ehtshan - CEO FirstPassAI visited the CS department. Dr. Farrukh, Mr. Shahid Bhatti and Mr. Akhzar Nazeer welcomed him. During the meeting different collaboration details were discussed and it was finalized that in May their team will visit for mock interviews. Their team will also suggest the plan of improvement to the students. Dr. Farrukh Zeshan (In-charge ILC) presented a souvenir to Mr. Ehtshan on his visit to the Department of Computer Science, COMSATS University Lahore.



CodeNinja Visit - Hiring for Internship

CodeNinja a renowned software company visited the department of Computer Science on the invitation of Industry Liaison Committee on May 21, 2025 to hire talented senior student for their 3-4 months paid internship program (11 positions for COMSIAN CS students).



CureMD Hiring Visit for Web Development Bootcamp

CureMD, one of the leading software companies visited the CS department on May 22, 2025 to hire senior students for their Upcoming Web Development Bootcamp (8-week paid Bootcamp). They were looking to engage passionate and capable students from CS and SE departments through an on-campus hiring drive.



NoCode AI - A Training Workshop for CS Students

On Monday 26th May 2025, the Industry Liaison Committee of the Department of Computer Science, invited Mati-ur-Reham, an industry expert for a hands-on training workshop titled “No-Code AI: Hands-On Training”. Mr. Nadeem Ghafoor Chaudhary, a senior member of the Industry Liaison Committee presented a shield to the guest speaker.



PITB Delegation Visit to Offer Career Opportunities

IA delegation from the Punjab Information Technology Board (PITB) visited the Department of Computer Science on June 3, 2025 on the invitation of the Industry Liaison Committee, in a collaborative effort to strengthen academia-industry ties and explore career avenues for graduating students. During the visit, Mr. Mamoon, Program Manager for Training at PITB, provided a comprehensive overview of the various training and capacity-building programs offered by PITB, aimed at equipping graduates with the practical skills and industry readiness required in today's competitive job market.

The session focused on:

- PITB's tech training tracks and bootcamps
- Industry recognized certification opportunities
- Insights on bridging the skill gap between academia and industry
- Strategies to enhance students' employability

Mr. Mamoon also discussed ongoing efforts by PITB to facilitate job placements in top-tier software companies in Lahore. He emphasized the role PITB can play in mentoring, training, and connecting students with high-demand roles in software engineering, data science, cybersecurity, and emerging technologies.



Final Year Project Exhibition – Spring 2025

The Department of Computer Science held its Final Year Project Exhibition on July 14, 2025. The event featured multiple evaluation teams, each comprising three members: two internal faculty members from the Computer Science department and one external evaluator from either industry or academia. Throughout their final year, students dedicated themselves to turning innovative ideas into practical solutions that address real-world community challenges. They showcased their work through presentations, live demonstrations of their web or mobile applications, and poster displays. A poster competition was also organized to help students further develop essential skills such as design, communication, and public speaking.

The department's focus on excellence was also evident in the evaluation of final year projects. A total of 86 groups from the BS Computer Science and BS Software Engineering programs presented their final year projects. Following the successful completion of the evaluation process, the top three teams from each program were selected as position holders.

The FYP Evaluation Day concluded with a prize distribution ceremony, graced by the Head of the Computer Science Department, Dr. Farooq Ahmad. The ceremony began with an inspiring address by Dr. Farooq Ahmad, who congratulated the students on successfully completing their Final Year Projects and academic programs. It was a moment of well-deserved recognition for the students' hard work and commitment throughout their educational journey. Following the speeches, certificates were awarded to the winning teams in acknowledgment of their exceptional work. Supervisors of the winning projects were also honored with certificates, recognizing their valuable guidance and support. The event served as a meaningful tribute to both the students and their mentors.





OBE Workshop 2025

On 18 August 2025, Computer Science Department organized a one-day faculty workshop on Outcome-Based Education (OBE) in Seminar Room, Block A. Dr. Wajahat Mehmood Qazi discussed about OBE.



News

First Position in Mobile Application Development at SOFTECH'25

Students of Computer Science department secured 1st Position in Mobile Application Development and 2nd Position in Game Jam competitions at SOFTEC'25. SOFTEC, the Software Exhibition and Competition, is an annual event at FAST National University Lahore held on 25th -27th April, 2025. Several teams from the most prestigious institutes of Pakistan participated in the competition. Students of Computer Science department performed the tasks with excellence.

Team Alpha Members:

- Areeb Rashid (SP22-BCS-021)
- Hunain Hamza (SP22-BCS-024)
- Abdullah Ahmed (SP22-BCS-045)

Congratulations to the winning students. Department is proud of them.



News

PhD Graduates Spring 2025

Mr. Khalid Mahmood (Registration No. CIIT/SP19-PCS-010/LHR) has successfully defended his doctoral thesis. The title of his thesis is “Evolution of Anti-patterns in Client Services”. Mr. Khalid Mahmood started his PhD under the supervision of Dr. Ghulam Rasool.

Mr. Rafaqat Alam Khan (Registration No. CIIT/SP18-PCS-001/LHR) has successfully defended his doctoral thesis. The title of his thesis is “A Robust Framework for the Detection of Fire and Smoke in Complex Surveillance Environments using Deep Learning”. Mr. Rafaqat Alam Khan started his PhD under the supervision of Dr. Usama Ijaz Bajwa.

Following are the publications from the faculty of Computer Science

- Naheed Akhtar, Mubbashar Saddique, Paul L. Rosin, Xianfang Sun, Muhammad Hussain, Zulfiqar Habib (2025), "A three-level benchmark dataset for spatial and temporal forensic analysis of videos", Machine Vision and Applications, pp: 1-22, Vol: 36, Issue: 86, ISSN: 0932-8092 (Print), 1432-1769 (Online), DOI: <https://doi.org/10.1007/s00138-025-01704-w>, Impact Factor: 2.4 (External URL)
- Sara Younas, Allah Bux Sargano, Lihua You, Zulfiqar Habib (2025), "Attention-Based Inception-Residual CNN: Skin Cancer Diagnosis with Attention-Based Inception-Residual CNN Model", Information, pp: 120, Vol: 16, Issue: 2, ISSN: 2078-2489 (Online), DOI: <https://doi.org/10.3390/info16020120>, Impact Factor: 2.4 (External URL)
- Rahima Tanveer, Muhammad Ziad Nayyer, Muhammad Hasan Jamal, Imran Raza, Claude Fachkha, "Next-generation cloudlet federation for Internet of Things in healthcare: Enhancing response time and energy efficiency", Computer Communications, Volume 232, 2025.
- Syed Abu Huraira Hussain, Imran Raza, Syed Asad Hussain, Muhammad Hasan Jamal, Tauseef Gulrez, Ali Zia, "A mental state aware brain computer interface for adaptive control of electric powered wheelchair", Scientific Reports, Volume 15, 2025.
- Ehtesham Hashmi, Amna Altaf, Muhammad Waqas Anwar, Muhammad Hasan Jamal, and Usama Ijaz Bajwa, "BI-SENT: bilingual aspect-based sentiment analysis of COVID-19 Tweets in Urdu language." PloS One, Volume 20, Issue 6, 2025.
- Muhammad Junaid Anjum, Muhammad Shoaib Farooq, Tariq Umer, Momina Shaheen "Disaster identification scheme based on federated learning and Cognitive Internet of Vehicles", Journal: Computer Communications, Impact Factor: 4.5, DOI: <https://doi.org/10.1016/j.comcom.2025.108216>
- Muhammad Junaid Anjum, Fatima Tariq, Momina Shaheen, Saman Safdar "Identification of Diseases caused by non-Synonymous Single Nucleotide Polymorphism using Machine Learning Algorithms" , Journal: VFAST Transactions on Software Engineering. DOI: <https://doi.org/10.21015/vtse.v12i4.1984>
- Fatima Tariq, Ayesha Afzaal, Muhammad Junaid Anjum, Faria Kanwal, Komal Bashir, Momina Shaheen, "Security and Privacy Preservation in Smart Cities During Security Surveillance: A Mapping Study", Journal: Applied Computational Intelligence and Soft Computing, DOI: <https://doi.org/10.1155/acis/6727022>
- Amber, Adnan Ahmad, Furkh Zeshan (2025), "Leveraging Dynamic Fuzzification to Mitigate Fraudulent Profiles on Social Networking Platforms", Social Network Analysis and Mining, Impact Factor: 2.30
- Muhammad Ahmed, Adnan Ahmad, Furkh Zeshan, Hamid Turab (2025), "Blockchain Consensus Protocols: A Taxonomic Framework and Challenges", IET Cyber-Physical Systems: Theory & Applications, Impact Factor: 1.50
- Fawad, Muhammad, Ghulam Rasool, and Muhammad Bilal Riaz (2025), "Refactoring Android Source Code Smells from Android Applications", IEEE Access, pp: 14122 - 14150, Vol: 13, Issue: 1, ISSN: 2169-3536, DOI: 10.1109/ACCESS.2025.3529687, Impact Factor: 3.4

Publications

Following are the publications from the faculty of Computer Science

- T. Hassan, I. Hussain, H. M. Haque, H. T. Mirza, M. N. Ali, B. S. Kim (2025), "Semantic Knowledge Based Reinforcement Learning Formalism for Smart Learning Environments", CMC-Computers, Materials & Continua, Vol: (accepted), ISSN: 1546-2226, Impact Factor: 1.7
- A. Bilal, H. T. Mirza*, A. S. Khan, A. Ahmad, I. Hussain, S. Z. Ali (2025), "Who Dominates Generative AI? Analyzing User Feedback to Identify Common Use Cases and Areas for Improvement in ChatGPT, Copilot and Gemini", Knowledge and Information Systems, Springer, ISSN: 0219-1377, Impact Factor: 3.1
- A. Bilal, H. T. Mirza, A. Ahmad, I. Hussain, A. Raza, H. Garay, J. Alemany, I. Ashraf (2025), "On the Correlation Between Google Play Store Application Icons and Downloads", The Computer Journal, Oxford University Press, The British Computer Society, ISSN: 0010-4620, Impact Factor: 1.5
- A. Bilal, H. T. Mirza*, A. Ahmad, I. Hussain, A. S. Khan (2025), "Unveiling functional aspects in google play education app titles and descriptions influencing app success", Automated Software Engineering, Springer, pp: 1-35, Vol: 32, Issue: 23, ISSN: 0928-8910, DOI: <https://doi.org/10.1007/s10515-025-00497-6>, Impact Factor: 2.3
- Jawad Shafi, Amir Hussain, Rao M. Adeel Nawab, & Madiha Rasool (2025), "Multi-label document classification for Urdu: corpus and methods", Language Resources and Evaluation (LRE), DOI: <https://doi.org/10.1007/s10579-025-09861-0>, Impact Factor: 2.0
- H. Rizwan Iqbal, M. Sharjeel, Jawad Shafi, Usama M, Agha Ali R. (2025), "Urdu Sentential Paraphrased Plagiarism Detection Using Large Language Models", ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP), Impact Factor: 2.0
- H. Rizwan Iqbal, M. Sharjeel, Jawad Shafi, Usama M, Agha Ali R. (2025), "Urdu paraphrased text reuse and plagiarism detection using pre-trained large language models and deep hybrid neural networks", Multimedia tools and Applications , pp: 1-23 , Vol: 1, Issue: 2025, ISSN: 1573-7721, DOI: <https://doi.org/10.1007/s11042-025-20862-7>, Impact Factor: 3.0
- Danish Vasan, Junaid Akram, Mohammad Hammoudeh, Adel F Ahmed (2025), "An Advanced Ensemble Framework for defending against obfuscated Windows, Android, and IoT malware", Applied Soft Computing, Vol: Volume 173, DOI: <https://doi.org/10.1016/j.asoc.2025.112908>
- Chaudhry, M. T., Yousafzai, A., Zia, A., Abid, S. A., & Ahmad, F. (2025), "Deadline-aware workload scheduling for edge-enhanced iot devices: A blockchain-enabled approach to incentive-based computing", Peer-to-Peer Networking and Applications
- Afzal, Z., Yousaf, M., Amin, N., Younas, M., Tayyab, M., & Yasin, M. F. (2025), "Emergence of self-sustaining states in the two-population neural field model triggered by a comprehensive external input", The European Physical Journal Plus

Publications

Following are the publications from the faculty of Computer Science

- Rizvi, S. T., Ghafoor, S., Farooq, A., Chaudhary, M. T., & Seadawy, A. R. (2025), "Optical soliton for stochastic Biswas–Milovic equation with parabolic law nonlinearity", *Modern Physics Letters B*
- Muhammad Yousaf, Farwa Khalid, Muhammad Usman Saleem, Abdul Karim Shahid, & Hamayun Khan, (2025), ""A Deep Learning-Based Enhanced Sentiment Classification and Consistency Analysis of Queries and Results in Search Using Oracle Hybrid Feature Extraction"", *Spectrum of Engineering Sciences*, pp: 99–121, Vol: 3, Issue: 3, ISSN: 3007-3138
- Sana Rizwan, Hafiz Faizan, Muhammad Zain, Fasih Ur Rehman, Rehan Rabbani Baig (2025), "Designing AI-Powered Website Builder Using the DSDM Framework", *European Journal of Science, Innovation and Technology* (ISSN 2786-4936)
- Sana Rizwan, Hassan Jamal, Asadullah, Rehan Rabbani Baig (2025), "Risk Identification and Mitigation for Diabetes Prediction and Control System in Healthcare Software", *SSRG International Journal of Computer Science and Engineering (IJCSE)* (E-ISSN 2348-8387)
- Arsalan, **T. Umer**, R. A. Rehman, A. M. Abdelmoniem and S. Mumtaz, "Toward Collaborative Intelligence in Digital Twin-based Federated Deep Reinforcement Learning: Applications, Case Studies and Challenges," in *IEEE Network*, doi: 10.1109/MNET.2025.3592547.(IF.6.3)
- S. Sabir, G. Rasool, **T. Umer**, N. Kraiem and Y. Nam, "An Ontology-Enabled Approach for the Detection of Software Design Smells," in *IEEE Access*, vol. 13, pp. 129056-129073, 2025, doi: 10.1109/ACCESS.2025.3590267.(IF.3.4)
- A. Arooj, Q. Z. Ahmed, M. S. Farooq, **T. Umer**, N. Aslam and T. Alade, "Unraveling the Smart Charging Technologies, Energy Sources, and Regulatory Standards for EVs," in *IEEE Access*, vol. 13, pp. 108148-108167, 2025, doi: 10.1109/ACCESS.2025.3579428. (IF.3.4)
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- A. Arsalan, **T. Umer**, R. A. Rehman and B. -S. Kim, "Next-Gen Internet of Drones: Federated Learning and Digital Twin Synergy for Energy-Efficient Task Allocation and Seamless Service Migration," in *IEEE Access*, doi: 10.1109/ACCESS.2025.3558439.(IF:3.4)
- Adnan, Iqra, **Tariq Umer**, Ahmad Arsalan, Maryam M. Al Dabel, Ali Kashif Bashir, and Arooj Ansif. "Data driven vehicular heterogeneity based intelligent collision avoidance system for Internet of Vehicles (IoV)." *Digital Communications and Networks* (2025).(IF: 7.5)

Newsletter TEAM



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Assistant Prof.



Ms. Humera Faisal
Assistant Prof.



Mr. Amaid Zia
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Ms. Zeenat Afzal
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