

# ***Newsletter 2025***

## ***Department of Statistics***

*COMSATS University Islamabad – Lahore Campus*  
*Academic, Research & Student Highlights*

### *Events:*

- *2<sup>nd</sup> One-Day Symposium on Data Handling and Statistics*
- *Workshop on Power BI*
- *Seminar on Generative AI for Data Analysis*
- *OBE Training*
- *Flood Relief Camp*
- *Seminar on Use of Data in the Modern World*
- *World Statistics Day*
- *Workshop on LinkedIn*
- *Data & Skill Fest*
- *Data Fest 2025*
- *Student Week – Fall 2025*
- *Convocation 2025*
- *PhD Dissertation Defense Presentation*
- *Closing Ceremony of Internship – PBS*
- *ICoAIMS 2025*
- *1st International Conference on Statistics and AI*
- *ICSS-2025*



# Messages of Leadership

## Message of the Rector, CUI



Dear students and faculty,

I am thrilled to extend a warm welcome to you to COMSATS University Islamabad (CUI), a hub of innovation, learning, and academic excellence. As the Rector of this esteemed institution comprising seven campuses in Pakistan, it is my privilege to invite you to join CUI, where knowledge knows no bounds, and possibilities are limitless.

At COMSATS University, we take pride in fostering an environment that encourages creativity, critical thinking, and a passion for lifelong learning. Our commitment to academic rigor is complemented by a dedication to nurturing well-rounded individuals who are not only equipped with technical skills but also possess a strong sense of ethics and social responsibility.

As you navigate through our website, you will discover a wealth of information about our diverse academic programs, cutting-edge research initiatives, and the vibrant student life at our lush green campuses, which defines the COMSATS experience. Whether you are a prospective student, a current member of the academic community, or a visitor seeking insight into our institution, we hope that you find the information you seek and that it sparks your curiosity to explore further.

COMSATS University Islamabad is more than just an academic institution; it is a community of scholars, learners, and professionals dedicated to making a positive impact on society. Our commitment to excellence extends beyond the classroom, with a focus on instilling values that prepare our graduates to face the challenges of the modern world with confidence and resilience.

We are also deeply committed to inculcating in our graduates the essential skills and professional talent that help them to meet the needs of the fourth industrial revolution, as well as impart industry and market-relevant education, which is globally recognized.

As you embark on your journey with COMSATS University Islamabad, I encourage you to embrace every opportunity for growth and discovery. Our faculty, staff, and administration are here to support you in realizing your academic and personal goals. I am sure you will be overwhelmed by the achievements, faculty, and infrastructure of CUI, and give us your valuable feedback, which will help us build true professionals and global leaders in thinking.

Thank you for choosing COMSATS University as your educational partner. Together, let us build a future guided by knowledge, innovation, and a shared commitment to excellence and positive impact.

**Prof. Dr. Raheel Qamar**

## **Message from the Director, Lahore Campus**



It gives me great pleasure to welcome you to COMSATS University Islamabad (CUI), Lahore Campus, one of the premier and rapidly progressing campuses of COMSATS University Islamabad. Our institution is firmly committed to excellence in higher education, research, and innovation, with a clear focus on nurturing individuals who are not only academically competent but also ethically grounded and socially responsible.

At CUI Lahore Campus, we emphasize critical thinking, independent learning, and the practical application of knowledge. Our undergraduate and graduate programs are designed to equip students with modern skills and a strong academic foundation, enabling them to confidently face local and international challenges. The success and achievements of our alumni across various professional fields reflect the effectiveness of our

academic environment and teaching standards.

The campus comprises a diverse range of disciplines, including Computer Sciences, Management Sciences, Chemical Engineering, Electrical Engineering, Physics, Humanities, Architecture and Design, Mathematics, and Statistics. These departments collectively form a strong academic and research base, fostering interdisciplinary collaboration and innovation while contributing meaningfully to national development.

We strongly believe in a need-based, research-oriented, and solution-focused teaching-learning approach that bridges the gap between theory and practice. Our goal is to respond effectively to societal and industrial demands while maintaining high academic standards and global relevance.

I am confident that the collaborative relationship between students, faculty, and administration will continue to strengthen our institution and lead it toward greater academic excellence and recognition. As Director, I look forward to providing you with a supportive and enriching learning experience at COMSATS University Islamabad, Lahore Campus.

**Prof. Dr. Muhammad Amir Rashid**

## Message of the HOD, Statistics



I am pleased to welcome you to the Department of Statistics at COMSATS University Islamabad (CUI), Lahore Campus. The department plays a vital role in supporting a wide range of academic programs across the campus and is committed to delivering quality education and research in the field of statistics and data sciences. We offer a Bachelor of Science (BS) in Statistics, a Master of Science (MS), and a PhD program in Statistics, as well as a Master of Science in Data Analytics, catering to the growing demand for skilled statisticians and data professionals.

Statistics is a fundamental discipline that plays a crucial role in decision-making across diverse fields, including science, engineering, business, economics, healthcare, and social sciences. Recognizing its importance, the Department of Statistics is committed to providing students with a solid foundation in modern statistical theory, complemented by hands-on practical training in applying statistical methods to real-world problems. Our curriculum is regularly updated to reflect recent theoretical advancements and emerging industry requirements.

Our faculty members are highly qualified, research-oriented, and actively engaged in scholarly activities across various areas of statistics and data analytics. Their diverse expertise enables them to provide effective academic guidance, mentorship, and research supervision to students at all levels. The department encourages a culture of inquiry, critical thinking, and innovation, ensuring a productive learning environment.

In addition to theoretical knowledge, we place strong emphasis on practical skills by offering comprehensive training in leading statistical and data analysis software, including SPSS, STATA, R, SAS, Python, and other relevant tools. This practical exposure equips our students with the competencies required to excel in today's data-driven world and enhances their employability in both academic and industrial sectors.

I am confident that the Department of Statistics at COMSATS University Islamabad, Lahore Campus will continue to provide outstanding academic services, produce competent graduates, and make meaningful contributions to society through education, research, and professional engagement.

**Dr. Muhammad Noor Ul Amin**

## Message of the Editor



Greetings!

It is with great pride that I present the 2025 edition of the Department of Statistics Newsletter at COMSATS University Islamabad, Lahore Campus. This year's publication reflects a dynamic transformation in our academic and professional landscape, driven by the growing influence of statistics, data science, and big data analytics across disciplines.

The department has evolved into a vibrant hub of innovation, where traditional statistical theory meets modern analytical tools and AI-powered methodologies. From Power BI workshops and Generative AI integration to Outcome-Based Education (OBE) training and DataFest participation, our students and faculty have actively embraced the future of data-driven decision-making.

These initiatives demonstrate our commitment to equipping learners with practical skills, interdisciplinary exposure, and global relevance. Our participation in national and international conferences, such as ICoAIMS in Malaysia and ICSS in Sargodha, highlights the department's expanding academic footprint and its role in shaping the future of applied statistics and industrial analytics.

This newsletter also celebrates our students' achievements in sports, community service, and research presentations—showcasing the holistic development we strive for. Whether it's winning the Sports Week Trophy, leading flood relief efforts, or excelling in Beaconhouse Sports, our students continue to inspire with their dedication and versatility.

As we move forward, the Department of Statistics remains committed to fostering a culture of inquiry, innovation, and impact. We aim to prepare graduates who are not only statistically sound but also capable of navigating the complexities of the digital age with confidence and purpose.

I extend my heartfelt appreciation to all contributors and hope this edition serves as a source of pride, reflection, and motivation for our entire academic community.

**Nasir Inayat**

# Academic Events

The following successful events conducted by the Department of Statistics for the year 2025 show what potential the department has for academia.

## **2<sup>nd</sup> One-Day Symposium on Data Handling and Statistics**



The 2<sup>nd</sup> One Day Symposium on Data Handling and Statistics brings together researchers, professionals, and students to explore contemporary techniques in data management and statistical analysis, fostering an environment of academic collaboration and professional engagement.

The symposium serves as a platform for knowledge exchange, practical insights, and informed discussions on emerging trends in data-driven decision-making, promoting innovation and the effective application of statistical methodologies across diverse fields.



## Workshop on Power BI (5<sup>th</sup> May 2025)

Students participated in an interactive workshop on Power BI, gaining hands-on experience in data visualization and business intelligence tools to enhance analytical skills.



The poster features logos for COMSATS Statistical Society, COMSATS University Islamabad, the Microsoft Learn Student Ambassador program, and the social media handle @csts\_lahore. The main title is 'INTRODUCTION TO DATA VISUALIZATION USING POWER BI YOUR FIRST DATA DASHBOARD'. Two speakers are featured: Mr. Furqan Ahmad, Beta Microsoft Learn Student Ambassador, and Dr. Noor ul Amin, Head of Department, Department of Statistics.

### Leveraging Generative AI for Efficient Data Analysis



This initiative focuses on the strategic integration of generative AI tools to optimize data processing workflows, improve analytical precision, and extract meaningful insights from complex and large-scale datasets. By enabling faster and more accurate analysis, generative AI supports informed decision-making across various academic and professional domains.

By automating advanced analytics and intelligent data interpretation, this approach offers a modern and efficient model for data analysis. It underscores the vital role of AI-driven methods in solving real-world problems and driving innovation.

The workshop also provided insights into real-world applications of Power BI, enabling students to transform raw data into meaningful dashboards and reports for informed decision-making. Through practical exercises and expert guidance, participants developed a clearer understanding of data-driven storytelling, further strengthening their ability to analyze trends, interpret insights, and apply business intelligence techniques in academic and professional contexts.

## Seminar on Generative AI for Data Analysis (28<sup>th</sup> April 2025)

The seminar on Leveraging Generative AI for Efficient Data Analysis, held on April 28, 2025, at COMSATS University Islamabad, Lahore Campus, provided students with a practical introduction to AI-driven approaches in data science. Conducted by Dr. Javed Iqbal, an Oracle Certified Professional, the workshop covered the basics of Generative AI, prompt engineering, and the use of AI tools for data cleaning, statistical analysis, visualization, and reporting. Participants engaged in interactive sessions that demonstrated how AI can simplify workflows and improve efficiency, while also discussing its ethical implications and growing importance in academic and professional settings. The event attracted students from Statistics, Data Science, and Computer Science, leaving them motivated to apply these techniques in their studies and future careers.



## Empowering Professionals: Dr. Main Muhammad Farooq Leads OBE Training Session (22<sup>nd</sup> July 2025)

Dr. Riffat, Dr. Tajamal, Dr. Farooq, and Mr. Nasir successfully spearheaded the OBE Excellence Training, demonstrating outstanding leadership and expertise. Her guidance empowered participants to achieve higher standards of performance and professional growth.



Dr. Farooq spearheaded a comprehensive Outcome-Based Education (OBE) training session, providing professionals with advanced skills, practical knowledge, and valuable insights to enhance their academic and professional effectiveness.

Under his leadership, the training fostered an engaging and empowering learning environment, encouraging active participation, collaboration, and the practical application of concepts for all attendees.

Furthermore, the session emphasized the alignment of curriculum design, assessment strategies, and learning outcomes with international accreditation standards. Participants gained a clearer understanding of implementing OBE frameworks in their institutions, enabling them to improve teaching quality, student learning experiences, and continuous improvement practices, thereby contributing to academic excellence and sustainable professional growth.

In addition, the training session served as a valuable platform for professional networking and the exchange of best practices among participants from diverse academic backgrounds. Through interactive discussions and real-world examples, attendees were encouraged to reflect on their current practices and adopt innovative approaches to teaching and evaluation, reinforcing the long-term impact of OBE on educational quality and institutional development.



# Community Engagement

## **Flood Relief Camp Led by Dr. Muhammad Ismail, Supported by Nasir Inayat (22<sup>nd</sup> Sep 2025)**

Under the leadership of Dr. Ismail and with the support of Nasir Inayat, a dedicated Flood Relief Camp was successfully organized to provide essential aid and support to communities affected by the recent floods. The initiative focused on delivering immediate relief, including food, medical assistance, and other necessary resources, to those in urgent need.

This effort exemplified the values of compassion, teamwork, and a strong commitment to social responsibility. It highlighted the importance of coordinated action and community engagement in addressing natural disasters and supporting vulnerable populations.



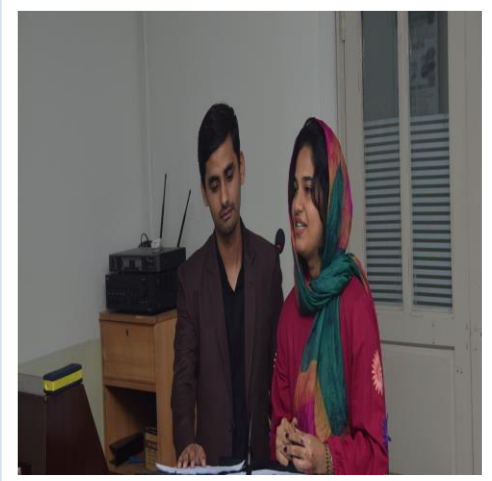
The success of the Flood Relief Camp reflects the unwavering dedication of everyone involved and underscores the positive impact that organized, community-driven initiatives can have during times of crisis. Such efforts not only provide immediate assistance but also strengthen community resilience, foster solidarity, and inspire continued commitment to social welfare and humanitarian service.

Moreover, the Flood Relief Camp highlighted the importance of coordinated planning, volunteer engagement, and resource management in effectively addressing emergencies. By bringing together students, faculty, and local volunteers, the initiative showcased the power of collective action and civic responsibility, setting a strong example for future community service projects and reinforcing the role of educational institutions in supporting society during critical times.

# Seminar on Use of Data in the Modern World

As part of the lead-up to Data Fest 2025, the Department of Statistics at COMSATS University Islamabad, Lahore Campus, organized a seminar titled "Use of Data in the Modern World & Data Fest – 2025" on 15th October 2025. The event featured Dr. Syed Wasim Abbas, Director of the Pakistan Bureau of Statistics, Lahore, as the guest speaker.

The session provided students with valuable insights into the evolving role of data in modern society. Dr. Abbas shared his expertise on how data informs policy, drives innovation, and shapes decision-making across sectors. The seminar also served as a motivational and preparatory platform for students gearing up for Data Fest 2025, reinforcing the importance of statistical literacy and analytical thinking.



# World Statistics Day (20<sup>th</sup> Oct 2025)

The Department of Statistics at COMSATS University Islamabad (CUI) proudly observed World Statistics Day, highlighting the importance of statistics in understanding and shaping the world around us. The event aimed to raise awareness about the role of statistics in decision-making, research, and societal development.

Students actively participated in the celebrations, showcasing their enthusiasm and appreciation for the field of statistics. They prepared and presented informative play cards, illustrating key statistical concepts, trends, and contributions to various domains. This interactive approach not only demonstrated their learning but also engaged the campus community in the significance of data and statistical analysis.



## Workshop on LinkedIn

As part of the celebrations, the Department of Statistics also organized a workshop-seminar titled "*From Classroom to Career*", featuring Mr. M. Waqar Siddique, Business Advisor and Digital Growth Strategist, as the guest speaker. The seminar addressed critical themes such as employment challenges despite good grades, hiring trends, the value of experience, and the role of AI in resume writing. Held on 22nd October 2025, the session provided students with practical insights into transitioning from academic life to professional careers.

The activities conducted during the event emphasized the practical applications of statistics in everyday life, research, and policymaking. Faculty members encouraged students to explore innovative ways of using data for problem-solving, reinforcing the department's commitment to fostering critical thinking and analytical skills among its learners.

Through such initiatives, the Department of Statistics continues to promote awareness, learning, and appreciation for the discipline, inspiring students to pursue excellence in statistical research and its application for the betterment of society.



## Data & Skill Fest

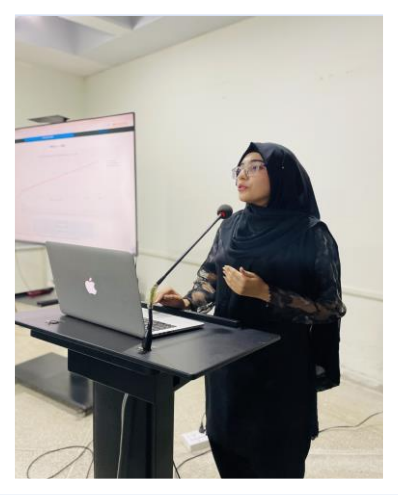
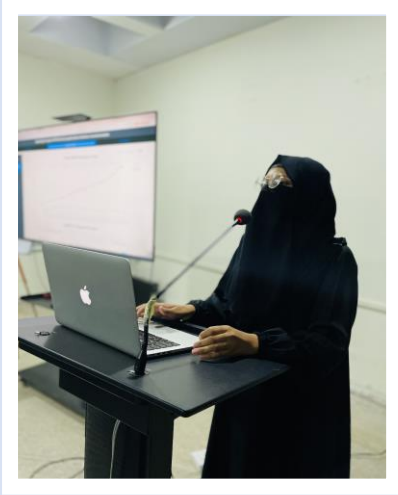
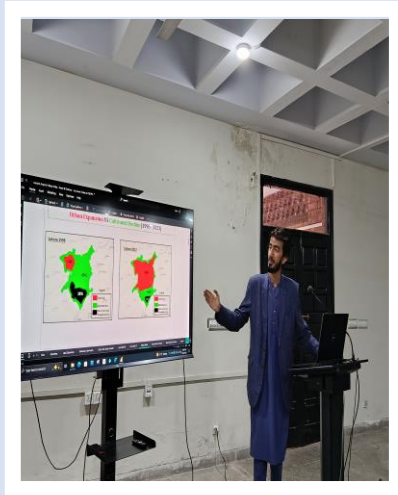
The Skill Fest at COMSATS University Islamabad, Lahore Campus, provided a vibrant platform for students to showcase their diverse talents, creativity, and innovative abilities. Students enthusiastically participated by setting up stalls, presenting projects, and demonstrating a wide range of skills—from technical innovations to artistic and entrepreneurial endeavors. The event fostered an environment of learning, exploration, and collaboration.

Each stall reflected the unique ideas and hard work of the students, allowing visitors to interact, ask questions, and gain practical insights into the showcased skills. This hands-on experience not only highlighted individual and team accomplishments but also encouraged peer learning and knowledge sharing among students from different departments.

The Skill Fest was more than an exhibition; it was a celebration of creativity, talent, and the spirit of collaboration. By providing opportunities for students to express their abilities, the event reinforced the importance of practical skills alongside academic knowledge, inspiring participants and attendees to innovate, excel, and contribute meaningfully to their fields.



Alongside the Skill Fest, the Department of Statistics also organized a **Data Fest Practice Session** on the same day (23rd October 2025). This preparatory event was designed to equip students for their upcoming participation in the national-level **Data Fest 2025**, hosted by the Pakistan Bureau of Statistics.



# Data Fest (11<sup>th</sup> November 2025)

COMSATS University Islamabad, Lahore Campus, proudly participated in Data Fest 2025, organized by the Pakistan Bureau of Statistics. The event served as a dynamic platform celebrating innovation, analytics, and the transformative power of data. It brought together students, professionals, and researchers to explore emerging trends, showcase skills, and demonstrate how raw data can be turned into meaningful insights.

Our students represented the university with enthusiasm and professionalism, presenting their projects and analytical skills to a diverse audience. Through interactive displays and presentations, they highlighted the practical application of statistical techniques, data visualization, and data-driven decision-making, reflecting the strong academic foundation provided by the Department of Statistics at CUI Lahore Campus.

The Data Fest encouraged participants to engage with the latest tools, technologies, and methodologies in data analysis. It provided an opportunity for students to network with professionals, gain exposure to real-world data challenges, and understand the growing role of data in shaping policies, industries, and research initiatives.

By participating in this prestigious event, COMSATS Lahore Campus reaffirmed its commitment to excellence in statistical education and analytics. The experience not only showcased the talent and innovation of our students but also inspired them to continue exploring new avenues in the field of data science and analytics.

Moreover, participation in DataFest provided COMSATS Lahore Campus with a valuable platform to engage with leading academics, industry professionals, and peer institutions from across the country. The event fostered meaningful collaboration, encouraged knowledge exchange, and exposed students to real-world data challenges, further strengthening their analytical, problem-solving, and teamwork skills. Such national-level exposure plays a crucial role in preparing students to meet the evolving demands of the data-driven industry with confidence and professionalism.



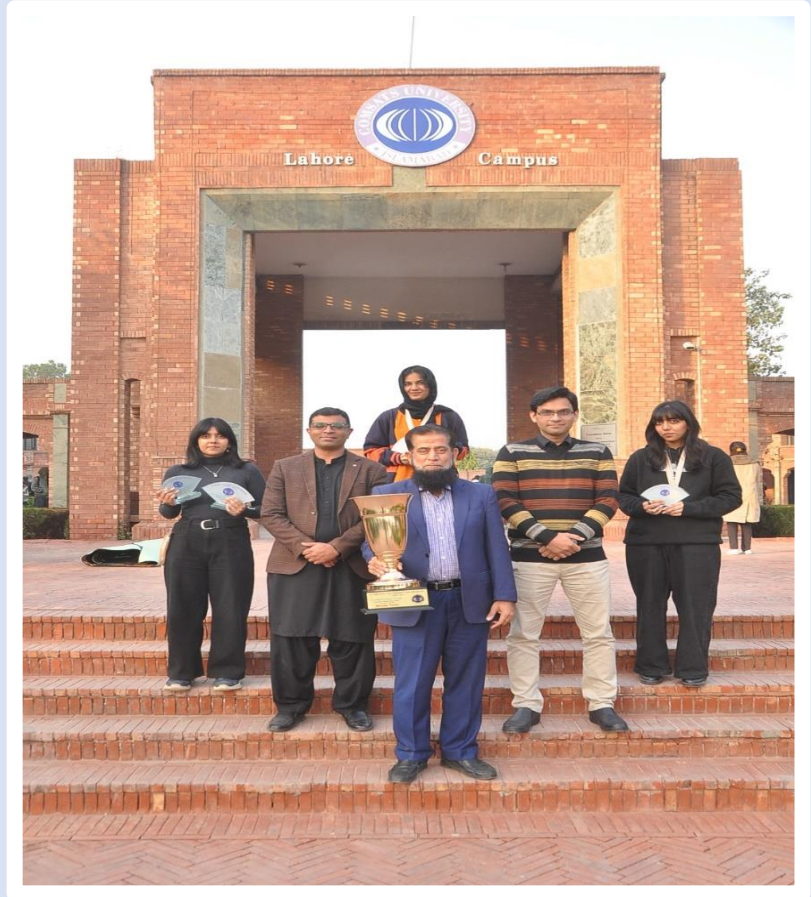


## Student Week – Fall 2025

The Fall 2025 edition of Student Week at COMSATS University Islamabad highlighted student achievements, fostered meaningful connections, and provided a vibrant platform for students to showcase their talents. The week-long celebration brought together creativity, energy, and collaboration, encouraging students to engage in diverse activities and demonstrate their skills both academically and beyond.

During the Fall 2025 edition of Student Week, the Department of Statistics distinguished itself by winning the Sports Week Trophy, showcasing its athletic talent, teamwork, and competitive spirit. Students from the department actively participated in various sporting events, demonstrating determination, skill, and enthusiasm throughout the week.

This achievement highlights the department's commitment not only to academic excellence but also to holistic development, encouraging students to balance their studies with extracurricular and athletic pursuits. Winning the trophy has set a benchmark for future participation and continues to inspire other departments to engage actively in university events.



## Rania Shines in Beaconhouse Sports: Gold and Silver in Table Tennis, (18 – 19 Oct 2025)

Among the outstanding achievements this season, Rania distinguished herself at Beaconhouse Sports, held on 18–19 October 2025. Competing with skill and determination, she secured gold and silver medals in table tennis, demonstrating exceptional talent and a strong competitive spirit.

Her performance on the court was a testament to her dedication, hard work, and perseverance, reflecting the discipline and focus required to excel in both sports and academics. Rania's achievements highlight the importance of commitment and practice in achieving excellence. By setting such a remarkable example for her peers, Rania continues to inspire the university community to embrace challenges, pursue their passions, and strive for success in all areas of life, reinforcing the value of balancing academic pursuits with extracurricular excellence.



Furthermore, Rania's success at Beaconhouse Sports has brought pride and recognition to the institution, underscoring the university's commitment to nurturing well-rounded individuals. Her accomplishments reflect the supportive environment provided by the university, which encourages students to excel beyond the classroom. Through achievements like these, the institution continues

to promote a culture of excellence, resilience, and holistic development, motivating students to actively participate in sports and other co-curricular activities alongside their academic journey.



# Convocation 2025

Convocation 2025 marks a significant milestone for COMSATS University Islamabad, celebrating the academic excellence and hard work of our graduates. The ceremony recognizes the dedication, perseverance, and achievements of students who have completed their educational journeys, reflecting the high standards of learning and scholarship upheld by the university.

The event also symbolizes the transition of graduates into professional and scholarly pursuits, encouraging them to apply their knowledge, skills, and values to make meaningful contributions to society. Convocation 2025 serves as a moment of pride, inspiration, and reflection for students, families, and the entire academic community.

Convocation 2025 stands as a proud and memorable occasion, celebrating the accomplishments of our graduates and their journey of dedication, learning, and growth. It marks not only the culmination of their academic endeavors but also the beginning of new opportunities, responsibilities, and contributions to society, inspiring the entire university community to strive for excellence and impact.



## PhD Dissertation Defense Presentation – Mr. Mashhood

Mr. Mashhood successfully presented and defended his doctoral research before the examination committee, marking a significant milestone in his academic journey. The presentation highlighted the depth of his research, the clarity of his methodology, and the relevance of his study to contemporary developments in the field.

During the defense, Mr. Mashhood effectively addressed questions and feedback from the committee, demonstrating not only his command over the subject but also the originality and rigor of his work. His research reflects a meaningful scholarly contribution and offers valuable insights that can advance understanding in his area of study.

The successful defense of his doctoral research stands as a testament to Mr. Mashhood's dedication, perseverance, and commitment to academic excellence. It also serves to inspire peers and junior researchers to pursue rigorous and impactful research in their respective disciplines.



## Sajjad's PhD defense under the supervision of Dr. Ismail

Sajjad led the defense on the website project, incorporating insights and detailed guidance provided by Dr. Ismail, ensuring a comprehensive and well-informed presentation.



# Closing Ceremony of Internship – Pakistan Bureau of Statistics

The closing ceremony marked the successful completion of the internship program at the Pakistan Bureau of Statistics, acknowledging the dedication and learning outcomes of the interns. It served as a formal platform to reflect on professional growth, experiences gained, and future aspirations. During



the ceremony, each intern presented their internship project in the form of dashboards, research findings, and PowerPoint presentations, showcasing the skills they had developed throughout the program. These projects highlighted practical applications of statistical methods, data visualization, and forecasting techniques, demonstrating the interns' ability to connect classroom knowledge with real-world data challenges. Faculty and PBS officials appreciated the quality of work and encouraged students to continue refining their expertise for future academic and professional endeavors. The event concluded with certificate distribution and words of encouragement, leaving the interns motivated to contribute meaningfully to the field of statistics and data science.



# Conferences

## **5<sup>th</sup> International Conference on Applied & Industrial Mathematics and Statistics (ICoAIMS 2025) 23 – 24 May 2025**

Dr. Muhammad Noor-ul-Amin attended the 5<sup>th</sup> International Conference on Applied & Industrial Mathematics and Statistics (ICoAIMS 2025), held on 23–24 May 2025 at The Pearl Kuala Lumpur Hotel, Kuala Lumpur, Malaysia. During the conference, he presented his research article entitled “Machine Learning-based Parameter-free Adaptive EWMA Control Chart to Monitor Production Process Dispersion.” The presented work focuses on integrating machine learning techniques with statistical process control to develop a flexible and efficient adaptive monitoring scheme for production process dispersion.

In addition to his research presentation, Dr. Noor-ul-Amin also served as a session chair, contributing to the academic management of the conference and facilitating scholarly discussions among international researchers. His participation reflects the department’s active engagement in high-quality international research forums and its commitment to advancing applied statistics and industrial data analytics.



## LCWU Hosts 1<sup>st</sup> International Conference on “Statistics and AI: Bridging the Gap with Data-Driven Innovations.” (3 – 5 Dec 2025)

Dr. Muhammad Noor-ul-Amin, Head of the Department of Statistics, COMSATS University Islamabad, Lahore Campus, participated as a panelist in the Inauguration Ceremony of the First International Conference on “Statistics and AI: Bridging the Gap with Data-Driven Innovations”, organized by the Department of Statistics, Lahore College for Women University (LCWU) on 3rd December 2025.

During the panel discussion, Dr. Noor-ul-Amin shared his insights on the evolving role of statistics in the era of artificial intelligence and highlighted the importance of integrating statistical foundations with data-driven and AI-based methodologies. His contribution emphasized the need for interdisciplinary collaboration to address emerging challenges in research, industry, and policy-making.



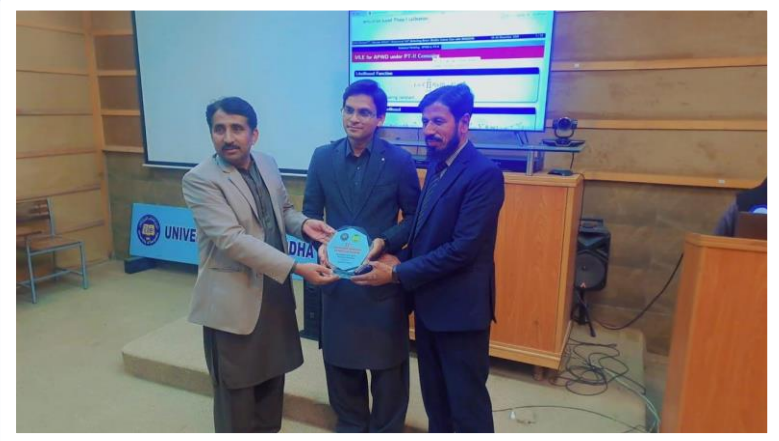
The participation reflects the department’s continued engagement in promoting advanced research and dialogue on statistics and artificial intelligence at national and international platforms.

Furthermore, such representation at a prestigious international forum strengthens academic ties between institutions and fosters knowledge exchange among scholars, researchers, and practitioners. Dr. Noor-ul-Amin’s involvement not only enhanced the visibility of COMSATS University Islamabad, Lahore Campus, but also reaffirmed the department’s commitment to staying at the forefront of advancements in statistics and artificial intelligence, encouraging faculty and students alike to actively contribute to innovation-driven research and professional discourse.



# 22<sup>nd</sup> International Conference on Statistical Sciences (ICSS-2025) 15 – 16 Dec 2025

Dr. Muhammad Noor-ul-Amin, Head of the Department of Statistics, COMSATS University Islamabad, Lahore Campus, participated in and chaired a technical session at the 22nd International Conference on Statistical Sciences (ICSS-2025), held on 15–16 December 2025. The conference was jointly organized by the Department of Statistics and the Department of Mathematics, University of Sargodha, in collaboration with the Islamic Countries Society of Statistical Sciences (ISOSS).



As a Session Chair, Dr. Noor-ul-Amin facilitated academic discussions, evaluated research presentations, and contributed to the overall scholarly quality of the conference. His role reflects the department's active engagement in national and international statistical forums and its commitment to academic leadership and research excellence.

Moreover, the conference provided a valuable platform for researchers, academicians, and practitioners to share recent advancements, innovative methodologies, and practical applications in the field of statistical sciences. Dr. Noor-ul-Amin's active participation enabled meaningful exchange of ideas, fostering collaboration among institutions and promoting the integration of theoretical and applied statistics to address contemporary research challenges.

Additionally, his role at ICSS-2025 enhanced the visibility and academic standing of COMSATS University Islamabad, Lahore Campus, within the national and international statistical community. Such contributions underscore the department's dedication to continuous professional development, research dissemination, and the promotion of a strong research culture that inspires both faculty and students to engage in high-impact scholarly activities.

## Faculty Publications – 2025

### **Dr. Muhammad Ismail**

1. Amjad, N., Ismail, M., & Ali, Z. (2025). Development of Kling–Gupta Hybrid Weighted Ensemble for Improving Future Projections of Drought Characterization Under Different Climate Change Scenarios. *Pure and Applied Geophysics*, pp. 1–20.
2. Sajjad, M., Faizi, S., & Ismail, M. (2025). Correlation Coefficient Estimation in Intuitionistic 2-Tuple Fuzzy Linguistic Environment Using Dice and Cosine Similarity Measures. *International Journal of Fuzzy Systems*, pp. 1–11.
3. Sultan, A., Faizi, S., Ismail, M., Raza, S. M. M., & Mohamud, L. A. (2025). Smart Decision Support for Employee Satisfaction: A Hesitant Fuzzy Linguistic Regression Model Applied to Tech Startups. *Journal of Statistical Theory and Applications*, pp. 1–21.
4. Sajjad, M., Ismail, M., Rehman, A., & Mahmood, T. (2025). Generalized and open selection approaches for the population mean: accounting for non-response and measurement error in single-phase sampling. *Journal of Statistical Theory and Applications*, pp. 1–18.
5. Ali, A., Ismail, M., & Farooq, M. (2025). Construction of a New Bivariate Mixture Lindley Power Function Distribution with Functional Shape Parameter Utilizing Non-Identical Distributions via Conditional Approach. *Symmetry*, 17(3), 353.

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### **Dr. Muhammad Noor-ul-Amin**

1. Sharma, P., Lata, A., Yadav, S. K., & Noor-ul-Amin, M. (2025). Family of Estimators for Estimating Population Median using Auxiliary Information in Survey Sampling. *Journal of Reliability and Statistical Studies*, pp. 343–370.
2. Aslam, M. U., Xu, S., Rasheed, Z., Noor-ul-Amin, M., Hussain, S., & Waqas, M. (2025). Improved fuzzy control charts for monitoring defined health ranges using trapezoidal fuzzy numbers. *Expert Systems with Applications*, 278, 127310.
3. Kazmi, M. W., & Noor-ul-Amin, M. (2025). Integrating machine learning based EWMA control charts for multivariate process monitoring. *Computers & Industrial Engineering*, 204, 111131.
4. Noor-ul-Amin, M., Zahid, R., Emam, W., Yasmeen, U., & Khan, I. (2025). Estimation of mean with EEWMA statistic under ranked based sampling. *Communications in Statistics – Simulation and Computation*, pp. 1–28.
5. Shabbir, N., Noor-ul-Amin, M., & Hanif, M. (2025). Dynamic Sample Size Based EWMA Control Chart Using Piecewise Linear Function. *Quality and Reliability Engineering International*.
6. Abbasi, A. R., Ahmadini, A. A. H., Alatrash, M. I., Noor-ul-Amin, M., & Rahimi, J. (2025). Conditional expected approach based on monitoring the mean of type-I censored Weibull lifetimes. *Scientific Reports*, 15(1), 6884.
7. Abbasi, A. R., & Noor-ul-Amin, M. (2025). Adaptive sample size strategies for process dispersion using EWMA control chart. *Quality and Reliability Engineering International*, 41(1), 510–531.



## Dr. Aamir Sanaullah

1. Aamir Majeed Chaudhary, Aamir Sanaullah, Muhammad Hanif and Prayas Sharma (2024). Efficient and robust estimators for the population mean of non-normally distributed and contaminated data. Proceedings of the National Academy of Sciences, India Section A: Physical Sciences.
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## **Closing Note from the Chairperson of the Department**



As we conclude this edition of the Department of Statistics Newsletter, I would like to take a moment to reflect on the collective efforts, achievements, and progress highlighted throughout these pages. The year 2025 has been marked by academic growth, active research engagement, student success, and meaningful community outreach—each of which reflects the dedication and commitment of our faculty, students, and staff.

The events, conferences, publications, and student accomplishments featured in this newsletter demonstrate the department's continued focus on academic excellence, innovation, and relevance in a rapidly evolving data-driven world. Our emphasis on modern statistical methodologies, data analytics, artificial intelligence, and outcome-based education

remains central to our mission of preparing competent graduates and contributing impactful research to society.

I extend my sincere appreciation to all faculty members for their academic leadership, research contributions, and mentorship; to our students for their enthusiasm, discipline, and achievements; and to the editorial team for their dedicated efforts in compiling this newsletter. Your collective commitment has been instrumental in strengthening the academic and professional standing of the Department of Statistics.

As we move forward, we remain committed to fostering a culture of inquiry, collaboration, and continuous improvement. I am confident that, together, we will continue to build upon these achievements and contribute meaningfully to academia, industry, and society.

**Dr. Muhammad Ismail**

**Chairperson**

**Department of Statistics, CUI-Lahore**

# Editorial Committee

Meet the Editorial Committee of this edition, whose dedication and efforts made this newsletter possible.



**Editor: Nasir Inayat**



**Co-Editor: Syed Ali Taqi**



**Associate Editor: Ali Haider**



**Associate Editor: Maheen Azeem**

Editorial Committee and all team members who contributed their time, effort, and expertise to bring this newsletter to life. Their dedication, creativity, and meticulous attention to detail ensured the production of a high-quality publication that effectively highlights the achievements, events, and initiatives of our university community. This newsletter stands as a testament to their hard work and commitment to keeping our readers informed and engaged.



## **Department of Statistics**

**COMSATS University Islamabad, Lahore Campus**

**Defence Road, Off Raiwind Road, Lahore**

**Tel: +92 345 4818094**

