



# LGU NEWSLETTER

July, 2025 | Vol 2 Issue 7

## LGU Launches New AI Lab

## LGU & UTAR Strengthen Global Academic Ties

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**INTERNSHIP  
UNDERWAY  
AT LGU**

LGU  
FACULTY  
SHINE IN TOP  
JOURNALS



**FIRE**  
*Security  
Demo at*  
LGU

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# ISPR Summer Internship Energizes LGU Campus

Lahore, July 2025 – The ISPR Summer Internship Program 2025 is underway at Lahore Garrison University, bringing together students eager to gain practical experience in media and strategic communication. The six-week program, which began on July 14 and will conclude on August 22, is held on campus every Monday, Wednesday, and Friday from 10:00 AM to 2:00 PM. The initiative is part of ISPR's nationwide youth engagement drive, taking place in over 30 cities across Pakistan. At LGU, students from Mass Communication, Media Studies, International Relations, Strategic Studies, Peace & Conflict Studies, Journalism, Film & TV Production, Computer Science, and Political Science are participating. So far, participants have attended sessions on national and international media dynamics, defense communication strategies, and interacted with senior journalists and communication experts. The program is giving students valuable insights and exposure beyond the classroom.



# Zuberi's Lecture Equips Military Police to Fight Complex Financial Crimes



On July 21, 2025, Associate Dean Kaukab Jamal Zuberi delivered a lecture on white-collar crime at the Military Police School in Dera Ismail Khan, aimed at enhancing military police personnel's investigative skills for complex financial crimes. Zuberi covered financial fraud, corruption, and cybercrime, offering techniques and strategies for effective investigation. The Military Police School prioritizes training to tackle emerging threats, and Zuberi's session significantly contributed to this goal. Participants appreciated his clear explanations and had the chance to ask questions, making the lecture a valuable addition to their training and expected to enhance their investigative capabilities.







# FDP SESSION EXPLORES CASE METHOD TEACHING

Lahore Garrison University hosted a session on "Case Method Teaching" as part of its Faculty Development Programme on July 29, 2025. Over 60 faculty members from various departments attended the event at Iqbal Auditorium, led by Prof. Dr. Arif Jawaid. The session aimed to enhance classroom engagement and student learning, showcasing LGU's dedication to professional development for educators.

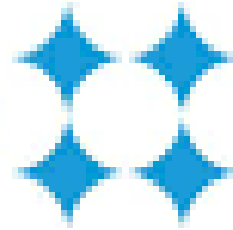


## From Concept to Creation

# LGU's New GAIL Lab Puts AI into Students' Hands

Lahore Garrison University (LGU) officially launched its new AI initiative on June 27, 2025, by hosting the introductory GAIL (Generative Artificial Intelligence Lab) Workshop.

The event, led by Head of the Computer Science Department Dr. Arfan Ali Nagra and Program Director Muhammad Mugees Asif, welcomed students into the dynamic world of AI. The workshop focused on the practical applications of artificial intelligence and how the new GAIL program will provide students with the tools and resources to transform their innovative ideas into tangible projects. The successful session marks the beginning of a series of hands-on workshops and AI-powered learning opportunities at LGU. Students are encouraged to stay tuned for future events as the university continues to expand its commitment to cutting-edge technology education.



## LGU STRENGTHENS GLOBAL TIES WITH SUCCESSFUL FACULTY EXCHANGE AT UTAR, MALAYSIA

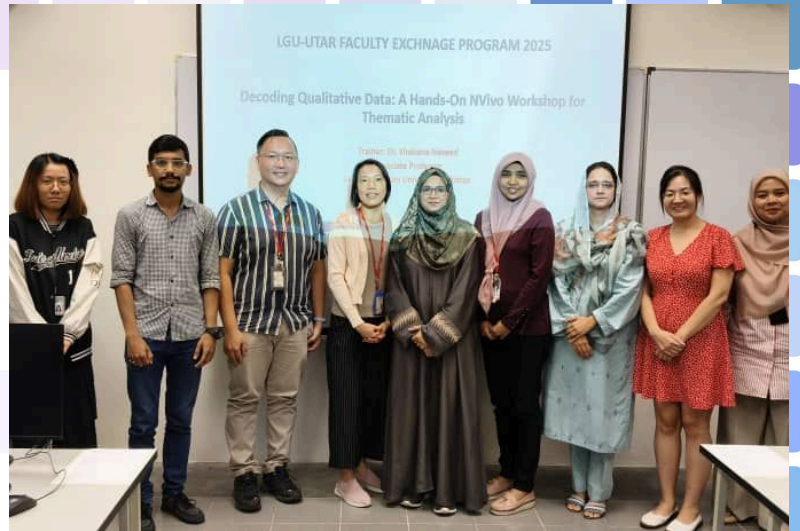
### An Interactive Workshop for Mastering NVivo in Thematic Analysis

Lahore Garrison University (LGU) has successfully completed a two-week faculty exchange at the University Tunku Abdul Rahman (UTAR) in Malaysia, reinforcing its commitment to international collaboration. Dr. Shabana Naveed and Dr. Aiza Hussain Rana represented LGU in a series of key academic activities.



During their visit, the team conducted a hands-on NVivo workshop, delivered guest lectures, and held meetings to discuss future joint ventures. The discussions laid the groundwork for joint research projects, PhD co-supervision, and student exchange programmes. Plans were also made for upcoming webinars and technical workshops to ensure continued engagement.

The success of the exchange was attributed to the unwavering support from the leadership of both institutions. The LGU team praised UTAR's vibrant and globally oriented academic environment and thanked its faculty members for their insightful contributions. This partnership represents a major step forward in building collaborative higher education between the two universities.



# Dr. Aisha Khalid Boosts LGU's Grant-Writing Prowess at Interdisciplinary Workshop

Lahore Garrison University (LGU) announces Dr. Aisha Khalid's participation in a three-day funded workshop, "Bridging Ideas: Crafting Grant Proposals for Interdisciplinary Research," held from July 30 to August 1, 2025. Organized by Aga Khan University, the University of Washington, and the University of Agriculture, Faisalabad, the workshop focused on equipping participants with skills for developing study designs for transdisciplinary vector-borne disease projects. Dr. Khalid gained hands-on experience in sample size calculation, grant proposal writing, and project reporting. Her involvement underscores LGU's commitment to high-impact interdisciplinary research and enhancing faculty capabilities in securing competitive grants.



# OUR FACULTY'S RESEARCH ACHIEVEMENTS (2024-25)

We are delighted to share their publications in renowned international journals with impressive impact factors.

8.6

HAFIZ MUHAMMAD QADIR

Lecturer, Software Engineering

**JOURNAL OF BIG DATA**

Optimizing learning outcomes: a deep dive into hybrid AI models for adaptive educational feed back



7.1

MR. MUHAMMAD WAQAS

Senior Lecturer, Chemistry

**MATERIALS TODAY SUSTAINABILITY**

Metal-organic frame work-based robust and advanced materials for the absorptive and photocatalytic mitigation of non-steroidal anti-inflammatory drugs from water



4.2

DR. ALVINA RAFIQ BUTT

Assistant Professor, Physics

**ENVIRONMENT, DEVELOPMENT AND SUSTAINABILITY**

Synthetic Performance of Silver/Polyacrylic acid doped  $ZrO_2$  Nanostructure for dye degradation and bactericidal behavior with molecular docking analysis.



3.8

DR. TAHIR ALYAS

Associate Professor, Computer Science

**SCIENTIFIC REPORTS**

Intelligent waste sorting for urban sustainability using deep learning



# EXCELLENCE PUBLISHED: LGU'S TOP RESEARCH FEATS (2024-25)

3.6

**DR. GHULAM MUHAMMAD**

**Assistant Professor, Mathematics,  
FRACTAL AND FRACTIONAL**

Granular Fuzzy Fractional Continuous -Time Linear  
Systems: Roeser and Fornasini- Marchesini Models



3.5

**DR. ALI HAIDER KHAN**

**Assistant Professor, Software Engineering  
PEERJ COMPUTER SCIENCE**

A new approach of anomaly detection in shopping  
center surveillance video for theft prevention based  
on RLCNN model

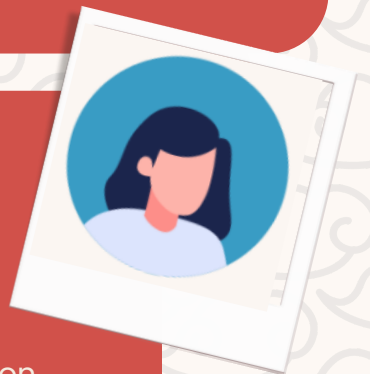


2.1

**FARZANA SIDDIQUE**

**Assistant Professor, Physics  
LASERS IN MEDICAL SCIENCE**

A Comparative Efficacy Assessment of Advanced  
Deep Learning Models for Brain Tumor Segmentation



2.0

**DR. ABDUL KHALIQ ALVI.**

**Assistant Professor, Management Science  
SAGE OPEN**

Does relationship of knowledge Management  
practices with Eco-innovation Matter? A Mediating  
Analysis Evidence from ICT Sector



# EXCELLENCE PUBLISHED: LGU'S TOP RESEARCH FEATS (2024-25)

1.9

**DR. MUHAMMAD NADEEM**

**Assistant Professor, Mathematics,  
JOURNAL OF FUNCTION SPACES**

A unified approach to image recognition and cryptography via flexible weak inverse property Quasigroups



1.5

**MUHAMMAD NAEEM ASLAM**

**Lecturer, Mathematics  
MODERN PHYSICS LETTERS**

A novel heuristic-based physics-informed neural networks (H-PINNs) based analysis of boundary stresses on magneto hydrodynamics convective flow in a convergent /divergent channel



1.1

**DR. HAFIZ MUHAMMAD BILAL**

**Assistant Professor, Mathematics  
RICERCHE DI MATEMATICA**

Expected N F-number of disjoint union of finite copies of complete graph



Research isn't just about breakthroughs; it's about looking closer, thinking deeper, and finding better ways.

Well done, team!



# NEW INNOVATIONS IN FIRE SAFETY DEMONSTRATED AT LAHORE GARRISON UNIVERSITY

Lahore Garrison University recently hosted a fire safety demonstration featuring advanced extinguishing technologies from a Fire Fighting Company, led by Hafiz Abdullah. The event showcased two innovative self-activating fire suppression devices. The first was a self-activating fire extinguisher ball that deploys automatically within 3 to 5 seconds upon flame contact, releasing fire-retardant powder effective against various fire classes. With a maintenance-free shelf life of five years, these devices could help prevent small fires from escalating, especially in densely populated urban areas like Lahore, where fire incidents are increasing.



# The fire extinguisher ball is designed to automatically deploy within 3 to 5 seconds upon contact with flames.



The self-operating Dry Chemical Powder (DCP) extinguisher system enhances fire safety by auto-activating upon heat exposure, effectively extinguishing flames without human intervention.

Demonstrated successfully at Lahore Garrison University, it provides 24/7 protection in high-risk areas like kitchens and electrical rooms, requiring no training for use. These systems can reduce damage and risks to lives, underscoring their significance in urban fire safety strategies in Lahore and beyond.





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