



PASTIC

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FIVE DAYS SUMMER RESEARCH WEEK ON DATA ANALYSIS AND AI TOOLS

The Pakistan Scientific and Technological Information Centre (PASTIC) successfully hosted the 2025 Summer Research Week from August 18 to 22 at its National Centre in Islamabad. The five-days intensive training workshop focused on research design, academic writing, data analysis, and modern AI tools, drawing participation from over 25 researchers, faculty members, and postgraduate students from leading institutions including QAU, NUST, COMSATS, IIU, Bahria University, and Karachi University.

The workshop was designed to equip researchers from diverse academic backgrounds with essential skills in both qualitative and quantitative research methods, using industry-standard tools such as SPSS, NVivo, Mendeley, WEKA, and LaTeX.



Dr. M. Usman conducting a technical session of the five days summer research week on data analysis and AI tools.

Dr. Muhammad Usman conducted sessions on research overview, quantitative data analysis, AI fundamentals and academic writing with hands-on exercises in SPSS, WEKA and LaTeX tools. He was facilitated by Ms. Rabia Zafar, a PASTIC alumn. Dr. Maryum Ibrar led a session on research ethics, plagiarism, and citation management using Mendeley, while Dr. Irfanullah Arfeen (QASM, QAU) delivered training on qualitative analysis using NVivo.



Principal System Analyst, Mr. Saifullah Azim distributing training certificates amongst the participants.

The event concluded with a formal closing ceremony and certificate distribution. Speaking at the closing session, participants expressed high appreciation for the initiative and urged for its continuation in the future. They praised PASTIC's efforts in fostering a scientific and research-oriented culture across academic institutions in Pakistan.

The workshop was part of PASTIC's ongoing mission to enhance national research capacity and promote the adoption of modern data science and AI tools across all disciplines.

WEBINAR ON "AI & DATA SCIENCE FOR ALL SCIENCES"

A significant webinar on "AI & Data Science for All Sciences" was held on August 26, 2025 at the Video Conference Room, Govt College Women University Faisalabad. The event was organized by the PASTIC, the Pakistan Science Foundation (PSF), and The Learning Resource Centre, Government College Women University Faisalabad (GCWUF). Fifty participants participated from University and surroundings organizations.

The session was chaired by Prof. Dr. Saima Akram, Convener of the Library Committee, GCWUF. At the beginning of the session, Mr. Saifullah Azim, Principal System Analyst, PASTIC, presented a brief introduction of PASTIC services, highlighting the role of the organization



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in promoting scientific knowledge dissemination, research support facilities, and access to digital resources for the academic and research community across Pakistan.

The keynote was delivered by Dr. Muhammad Usman, Database Administrator, PASTIC National Center, Islamabad. He provided valuable insights into the integration of AI and Data Science across sciences, discussing practical applications, data-driven research approaches, and future opportunities for interdisciplinary collaboration.



A significant webinar on “AI & Data Science for All Sciences” was held on August 26, 2025

In her concluding note, Prof. Dr. Saima Akram appreciated the collaboration of PASTIC Faisalabad and the efforts of the Learning Resource Centre, GCWUF, for arranging this timely session.

Two-Days Introductory Training Workshop on “Basic Research Data Analysis Using R & Stata”

PASTIC Regional Office Peshawar, in collaboration with the Office of Research, Innovation and Commercialization (ORIC) and Sarhad University of Science and Information Technology (SUIT), organized a two-day hands-on training workshop on “Basic Research Data Analysis Using R & Stata” on August 26–27, 2025 at Sarhad University of Science and Information Technology (SUIT). A total of 32 participants, including 16 faculty members and students from SUIT as well as researchers from other Higher Education Institutions across KP, benefited from the training. The workshop enhanced participants' research capacity through practical exposure to statistical computing, data management,

coding fundamentals, and the application of statistical models using R software.

Dr. Zahid Rauf (Director, Forest Products Research Division, Pakistan Forest Institute) served as the resource person, while Dr. Ghazala Ali Khan Additional Director, PSF–PASTIC highlighted PASTIC-PSF facilitation and services for researchers nationwide.

The opening and closing sessions were graced by Prof. Dr. Zafar Iqbal (Dean, Health Sciences, SUIT) and Prof. Dr. Saleem ur Rehman (Vice Chancellor, SUIT), respectively.



Group photo from the two-day workshop on “Basic Research Data Analysis Using R and Stata” at SUIT.

PASTIC AND CLE-KICS UET LAHORE CONVENED STRATEGIC ONLINE MEETING

An online meeting was convened on August 13, 2025, between officials from PASTIC and the Center for Language Engineering (CLE), Al-Khawarizmi Institute of Computer Science (KICS), UET Lahore. The meeting was approved by the Director General, PASTIC, and aimed to explore synergies between PASTIC, Islamabad and CLE, KICS-UET Lahore on August 13, 2025 collaborative pathways for strengthening journal indexing activities at the national level.

The session began with a warm welcome by Mr. Saifullah Azim, Principal System Analyst, PASTIC, followed by participant introductions. Dr. Maryum Ibrar, Additional Director (STI), presented PASTIC's mandate and services through a live demo, while Dr. Sana Shams, Principal Manager Research at CLE, showcased the Tehqeeqat



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platform and highlighted CLE's research achievements. Discussions centered on the integration and enhancement of journal indexing platforms including PSA, NDA, and Tehqeeqat, with shared concerns regarding sustainability and data continuity post-project completion.

Key outcomes included agreements to jointly pursue initiatives in natural language processing (NLP), metadata enrichment, and multilingual indexing. Action items were defined, including data sharing, scheduling of a follow-up meeting in September 2025, and drafting a Memorandum of Understanding (MoU) to formalize future collaboration. The meeting concluded with a vote of thanks, reaffirming both institutions' commitment to advancing Pakistan's research infrastructure through strategic partnerships.

Online Zoom meeting between PASTIC and UET Lahore to explore synergies with CLE, KICS-UET.

EVENT/ WEBINAR /MEETING ATTENDED

a. Prof. Dr. Mohammad Akmal, Chairman of the Pakistan Science Foundation, paid an official visit to PASTIC National Centre, Islamabad on August 28 2025.

During the visit, the Chairman reviewed the major sections of the organization, where he was briefed on their functions and ongoing initiatives. In a subsequent meeting, the Director General of PASTIC presented a detailed overview of the PASTIC services for the research community and introduced the officers heading the key sections.

The Chairman highlighted the significance of leveraging Artificial Intelligence to further

enhance digital resources and ensure their efficient dissemination. He also emphasized the vital role of digital and social media in disseminating scientific information, particularly in local languages, to maximize outreach and impact. On this occasion, the Director General presented two recently published books by PASTIC to the Chairman.



Dr. Muhammad Akmal, PSF Chairman, led a meeting on PASTIC National Centre activities in Islamabad.

b. Ms. Rida Noor, Section Officer (Coordination), and Ms. Huma Naimat, Section Officer (F&A), Ministry of Science and Technology (MoST), Islamabad, visited the Pakistan Scientific and Technological Information Center (PASTIC), Islamabad on August 20, 2025.



MoST delegation, including Ms. Rida Noor and Ms. Huma Naimat, visited PASTIC National Centre, Islamabad.

During the visit, the MoST team was given a tour of various sections at PASTIC, where officers briefed them on the Center's key initiatives and services for the scientific community of Pakistan. The briefing highlighted PASTIC's



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wide range of informational and library resources, printing and publication facilities, as well as its capacity-building programs designed to support and empower researchers across the country.

c. Dr. Maryum Ibrar, Additional Director (STI), attended an online training session on “From Research to Publication: An overview on IEEE Publication Process” organized by IEEE on August 7, 2025.

d. Dr. Maryum Ibrar, Additional Director (STI), attended an online training session on “Navigate the World of Research: Mastering Web of Science Core Collection for High-Impact Discoveries” on August 26, 2025.

e. Ms. Afsheen Tariq, Assistant Director (STI), and Mr. Kashif Farooqui, Data Control Assistant (DCA), PASTIC Sub-Centre Karachi (PSCK), attended a seminar on “Recent Earthquake Events in Karachi: Causes, Impacts, and Mitigations” held on August 6, 2025. The event was jointly organized by the Department of Geology, University

of Karachi, and SIGMITE, Karachi.

f. Pakistan Science Foundation, with the assistance of PASTIC Sub-Centre Karachi (PSCK), conducted the written test of students for the “International Junior Science Olympiad (IJSO) 2025” for the Karachi region on August 22, 2025 at PASTIC Sub-Centre Karachi.



PSCK Officers monitoring the IJSO 2025 test



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