

Muhammad Asif

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Profile Description

I'm a post-graduate student. I'm a passionate & self-motivated engineer with excellent & diversified experience. I possess strong interpersonal & analytical skills, enabling me to adopt new ideas & technologies quickly. I consider myself a very motivated & driven individual with a passion for continuous growth & learning throughout my career. I adapt quickly to challenges & have great problem-solving abilities. I believe in maintaining a positive & collaborative work Ethic. I'm confident in my ability to contribute to the success of a company, team, or organization. I'll be happy to bring my diverse skill set to make a meaningful impact in my role.

Professional Experience

- Internship at "Oregano Pizza" Multan, Pakistan. (May 2025 to July 2025)
- Appointed as Research Assistant (RA) Support Staff in a Higher Education Commission (HEC)-NRPU-funded Short-term Research Project at the Department of Agricultural Engineering Bahauddin Zakariya University (BZU) Multan, Pakistan. (2023-25)
- Internship at "Water Management Training Institute (WMTI)", Lahore, Pakistan. (July 2022 to August 2022)

Research Experience

- "Experimental and Modelling Study for Irrigation and Fertigation Strategies for Wheat and Cotton in Multan, Pakistan" (2023-25)
- "Quantifying Evapotranspiration with Lysimeters: Methodological Advances and Challenges" (2024)
- "Sprinkler Irrigation: A Sustainable Solution for Water-Efficient and Eco-Friendly Rice Cultivation" (2025)
- "Research on Evapotranspiration Estimation of Field Crops Through Innovative Portable Mini-Lysimeter for Improving Water Productivity" (2023-25)
- "Fruit ripeness detection using Artificial Intelligence (AI)" (2023)
- "Design of Roof Top Rain Water Harvesting for District, Multan" (2022)

National Conference (CCWR-2024) Publication

- **National Conference on Climate Change & Water Resources (CCWR-2024)**
"Proceeding of the National Conference on Climate Change & Water Resources (CCWR) Bridging the Gap for SDG6" organized by Department of Agricultural Engineering Bahauddin Zakariya University (BZU) Multan in collaboration with Center for Water Informatics & Climates Resilience (CWC), Institute of Management Sciences (IMS) Peshawar.
- **Publication of a paper at the National Conference (CCWR-2024)**
Title: "Quantifying Evapotranspiration with Lysimeters: Methodological Advances and Challenges"

Student Membership

- Pakistan Engineering Council (PEC) Registered Engineer (RE)
- American Society of Agricultural and Biological Engineers (ASABE) Student Member
- American Society of Civil Engineers (S.M.ASCE) Student Member
- Pakistan Engineering Congress Student Member

Academic Education

- **Master in Business Administration (MBA)** (2024-2026)
(Human Resource Management (HRM))
Institute of Banking and Finance (IBF)
Bahauddin Zakariya University (BZU) Multan, Pakistan
- **M.Sc Agricultural Engineering** (2023-2025)
(Irrigation & Drainage (I&D))
Department of Agricultural Engineering
Bahauddin Zakariya University (BZU) Multan, Pakistan
- **B.Sc Agricultural Engineering** (2019-2023)
Department of Agricultural Engineering
Bahauddin Zakariya University (BZU) Multan, Pakistan
- **Intermediate: FSc (Pre-Engineering)** (2017-2019)
Punjab Group of Colleges (PGC) Multan
- **Matric: (Science)** (2015-2017)
La Salle Higher Secondary School Multan

Skill

- Human Resources Management
- Sales & Marketing
- Problem-Solving
- Time Management
- Teamwork
- Project Management
- Critical thinking
- Microsoft Office

Pakistan Engineering Council (PEC)

Continuing Professional Development (CPD)

(48 CPD)

- “Sustainability, Advanced concept, opportunities, and solutions”
- “The NEH (Nawaz, Ensore, Ham) Algorithm and its Applications (NEH-the most cited research by a Pakistani Researcher)”
- “City on the Move Seminar: Lahore Transport Week” NESPAK (2 CPD)
- “Generative AI Application Developer” organized by PEC in collaboration with Pak Angels Silicon Valley US, iCodeGuru & Aspire Pakistan. Generative AI training course, Dec. 2024 - Jan. 2025 (6 weeks)
- “Professional Ethics” (1 CPD)
- “The Role of Engineers in Safe and Sustainable Operations” (1 CPD)
- “Digital Transformation in Engineering” (1 CPD)
- “Emotional Intelligence and Stress Management” (1 CPD)
- “Overview of FIDIC Conditions of Contract” (1 CPD)
- “Procurement and Contract Management” (1 CPD)
- “The Role of Pumped Storage Hydropower in Advancing Energy Transition in Pakistan” (1 CPD)
- “Public Policy: Concepts, Issues & Challenges Engineer’s Perspective” (1 CPD)
- “Six Sigma techniques in Total Quality Management (TQM)” (1 CPD)
- “Digitalization of Electricity Grids Smart Metering and Energy Monitoring in Pakistan” (1 CPD)
- “Potential of Hydrogen as Energy Source for Industry in Pakistan” (1 CPD)
- “Leadership Skills for Engineers” (1 CPD)
- “Process Safety and Risk Management in Chemical Engineering” (1 CPD)
- “Industrial Automation & Smart Manufacturing” (1 CPD)
- “Water Resource Management & Climate Adaptation” (1 CPD)
- “Entrepreneurship for Engineers” (1 CPD)
- “Mastering Digital Tools for Engineering Works” (1 CPD)
- “The Ideal way forward (Leadership)”
- “Mineral Potential of Pakistan” (1 CPD)
- “Using Tools for Quality & Productivity” (1 CPD)
- “Smart Grid Technologies in Energy Sector in Pakistan” (1 CPD)
- “Health, Safety, and Environment (HSE) Management in Construction Industry” (1 CPD)
- “Engineering Applications of Agile Methodology”
- “Project Team Building in Engineering Project” (1 CPD)
- “Machine Learning and Knowledge Management in Construction Industry” (1 CPD)
- “Overview of FIDIC Conditions of Contract” (1 CPD)
- “Modeling Water in Context of Pakistan Head Catchments” (1 CPD)
- “Development of Pumps Storage Hydropower in Current Scenario in Pakistan”
- “Risk Assessment in Engineering Industry” (1 CPD)

- “Paradigm shift in Healthcare; The Evolving Role of Biomedical Engineers” (1 CPD)
- “The Cloud Computing AWS Implementation for Database Management” (1 CPD)
- “Artificial Intelligence in Engineering Applications, innovations & Future Trends” (1 CPD)
- “Enhancing Engineer’s Communication & Presentation Skills” (1 CPD)
- “Ethical Hacking & Cybersecurity for Industrial Control System” (1 CPD)
- “Scientific Paper Writing: Guidelines and Tips” (1 CPD)
- “The NEH (Nawaz, Ensore, Ham) Algorithm and Its Applications” (1 CPD)
- “Talent Meets Purpose! Unblock your inbuilt Strengths & Elevate your Career” (1 CPD)
- “Digital Transformation 4.0 In Healthcare A SWOT Analysis for Biomedical Engineers” (1 CPD)
- “Opportunities & Challenges of Solar PV for Distribution Companies in Pakistan” (1 CPD)
- “Smart Engineering with IoT and Cloud Integration” (1 CPD)
- “Construction OHS Code 2025: Need, Framework & Implementation for Effective Compliance” (1 CPD)
- “Project Planning & Time Management” (1 CPD)
- “Reliability Engineering of Complex Systems” (1 CPD)
- “Islamic Banking for Engineering and Technical Sector” (1 CPD)
- “Rainwater Harvesting Provisions For Building Code Of Pakistan” (1 CPD)
- “Designing Cloud Solutions With AWS” (1 CPD)
- “Green Building design and construction” (1 CPD)
- “The Data-Driven Engineering: From Data to Decision Making” (1 CPD)

Higher Education Commission (HEC)

- “Literature Review with IEEE Xplore Digital Library” organized by HEC in collaboration with IEEE.
- “Incorporating IEEE Xplore resources into your teaching: A dedicated session for lecturers” organized by HEC in collaboration with IEEE.
- “Navigating Scopus Metrics to select Journal for Publication” organized by HEC in collaboration with Elsevier.
- “Introducing Scopus AI for Researchers” organized by HEC in collaboration with Elsevier.
- “The World of Scopus APIs” organized by HEC in collaboration with Elsevier.
- “Students Ambassador Orientation and Training HEC” organized by HEC.
- “Understanding Research Metrics and Elsevier’s Science Direct” organized by HEC in collaboration with Elsevier.
- “Exploring research that tackles the United Nations (UN) Sustainable Development Goals (SDG’s) and evidencing progress” organized by Elsevier.
- “Introducing the Students Ambassador program and Selecting Students HEC” organized by HEC.
- “Exploring wider economic Impact through industry/Academic collaboration and ways to measure its value in innovation” organized by Elsevier.
- “How to find high impact journals to read & publish” organized by HEC in collaboration with Elsevier.
- “Essential of writing a research article for high impact journals” organized by HEC in collaboration with Elsevier.
- “Becoming an International Editor HEC” organized by HEC.
- “Enhance your research & academic journey by learning all about Springer Nature e-resources accessible through HEC” organized by HEC in collaboration with Springer Nature.
- “Publishing Open Access with IEEE” organized by HEC in collaboration with IEEE.
- “How to Effectively use Science Direct Read & Publish Quality” organized by HEC in collaboration with Elsevier.
- “Researcher’s guide for using civil engineering resources” organized by HEC.
- “Wiley’s Journals: How they can Help Researchers and How to be Successful in your Publication Process – HEC” organized by HEC.
- “Editor’s role in international journals MEA” organized by HEC.
- “Accessing Wiley Journals and Publication Tips for Authors and Researchers - HEC Pakistan” organized by HEC.
- “Latest Developments in Scientific Publishing Landscape & Publishing ethics” organized by HEC in collaboration with Elsevier.
- “How to become a case author HEC?” organized by HEC.
- “Publishing Open Access with Wiley” organized by HEC.
- “Enhance your research & academic journey by learning all about Springer Nature e-resources” organized by HEC in collaboration with Springer Nature.
- “Search Strategies to Supercharge your Research Experience” organized by HEC in collaboration with IEEE.
- “Introducing Science Direct AI” organized by HEC in collaboration with Elsevier.
- “AI Trends in Higher Education” organized by HEC.
- “Unlock New Value with ScienceDirect AI” organized by HEC in collaboration with Elsevier.
- “AI in action: R&D perspectives on tools, myths and real-world impact” organized by HEC in collaboration with Elsevier.

- “Mapping Multiple Dimensions of Educational Inequity and Impact on Holistic Student Development” organized by HEC in collaboration with Center for Learning and Teaching (CLT) Forman Christian College (FCC) (A Chartered University).
- “Institutional Support Systems for Equity” organized by HEC in collaboration with Center for Learning and Teaching (CLT) Forman Christian College (FCC) (A Chartered University).
- “Inclusive Pedagogies and Transformative Learning” organized by HEC in collaboration with Center for Learning and Teaching (CLT) Forman Christian College (FCC) (A Chartered University).
- “Campus-Community Engagement for Impact” organized by HEC in collaboration with Center for Learning and Teaching (CLT) Forman Christian College (FCC) (A Chartered University).
- “Measuring Impact and Sustaining Change” organized by HEC in collaboration with Center for Learning and Teaching (CLT) Forman Christian College (FCC) (A Chartered University).
- “Designing Green: Leveraging Life Cycle Assessment for Sustainable Chemistry” organized by HEC in collaboration with Elsevier.
- “Role of AI in Open Access Publishing” organized by HEC.
- “Importance of Project Management” organized by HEC.
- “Emerging Skills for Career Success and Project Management” organized by HEC.
- “Master the Art of Open Access Publishing with Wiley” organized by HEC.
- “Avoiding Common Pitfalls in Social Science Manuscripts: What Editors Often Reject and Why” organized by HEC in collaboration with Elsevier.

Coursera

- “AI for Everyone” offered by Deep Learning AI.
- “Introduction to Digital Marketing” offered by International Business Machines (IBM).
- “Work Smarter with Microsoft PowerPoint” offered by Microsoft.
- “The World of Classroom Assessment and Testing” offered by Higher Education Commission, Pakistan.
- “Suicidality & Psychological Aid in Context of Pakistan” offered by Higher Education Commission, Pakistan.
- “Statistical Analysis of Data for Researchers” offered by Higher Education Commission, Pakistan.
- “How to write a research paper” offered by Higher Education Commission, Pakistan.
- “IoT for Everyone” offered by Higher Education Commission, Pakistan.
- “Branding and Customer Experience” offered by IE Business School.
- “From Brand to Image Creating High Impact Campaigns That Tell Brand Stories” offered by IE Business School.
- “Basics of Management” offered by Higher Education Commission, Pakistan.
- “Management and financial accounting” offered by Macquarie University, Sydney Australia.
- “Generative AI: Introduction and Applications” offered by International Business Machines (IBM).
- “Generative AI: Prompt Engineering Basics” offered by International Business Machines (IBM).
- “Generative AI for Human Resources (HR) Professionals” offered by International Business Machines (IBM) and Skill Up EdTech.
- “Work Smarter with Microsoft Excel” offered by Microsoft.
- “Compensation and Benefits” offered by HR Certification Institute (HRCI).
- “Coping with Anxiety and Fear” offered by Higher Education Commission, Pakistan.

- “Advances in Nanomaterials for Thermo- and Photocatalysis for Environmental and Energy Applications”
- “Recent Insights Into Fusarium Mycotoxins”
- “Advanced Materials for Energy Applications - Nanomaterials 2023 Young Investigator Award Ceremony”
- “Nanoarchitectonics with Molecular and Materials Science: Materials for Energy, Environment, Bio, and Others (2nd Edition)”
- “The 2nd International Electronic Conference on Machines and Applications”
- “Advanced Materials for Solid-State Hydrogen Storage”
- “International Asteroid Day”
- “Environmental and Workplace Sustainability of the Industrial Processes”
- “Exploring Critical Gaps in the Environmental Dimension of Antimicrobial Resistance”
- “Optical Sensing for Chemical and Biological Applications”
- “The Place of Offshore Renewable Energy in the Transition for a Low Carbon Future”
- “Advances in Luminescent Materials”
- “X-Ray Absorption Spectroscopy for the Characterization of Nanostructured Materials”
- “Wearable Electrochemical Sensors”
- “Recent Progress in Semiconductor Devices”
- “Perovskite-Inspired Materials for Photovoltaics From Design to Devices”
- “The Utilization of Stochastic Reconstruction in Estimating, Diagnosing, and Extending Hawkes Process Models”
- “Chromogenic Technologies for the Energy Transition”
- “Influential Papers in Logistics”
- “The 7th International Electronic Conference on Water Sciences”
- “Drones for Rural Development II”
- “Smart Transportation and Urban Planning for the Underserved”
- International Journal of Environmental Research and Public Health (IJERPH) “Health Effects of Airborne Pollution”
- “Global Antibiotic Resistance: From Clinical to Environmental Impacts”
- “Subsurface Characterization / Monitoring Using Multiscale Geophysical Methods”
- “The 4th International Online Conference on Crystals”
- “Shifting From Legionella Species to L.pneumophila Monitoring and Control, What Are the Benefits and Why Is It Important?”
- “MDPI English Reviewer Club 2024”
- “Deep Neural Networks and their Future Direction”
- “Reframing Strategies for a Low-Carbon Future in Agricultural Systems”
- “MDPI World Habitat Day 2024”
- “Methods for Preventing Biofilm Formation and Treating Infections Caused by Biofilm Formed on Biotics or Abiotic Surfaces”
- “Evolutionary Game Theory - Games Best Paper Award and Outstanding Reviewer Award Ceremony”
- “Bayesian Networks and Their Real-World Applications for Decision Making”

- “Advancing Sustainability Cutting-Edge Technologies and International Policies”
- “MDPI World Food Day Webinar 2024”
- “Computational Methods for Fluid Flow”
- “The 1st International Online Conference on Photonics”
- “Organic Synthetic Chemistry — Webinar celebrating obtaining our first journal impact factor (IF 1.4)”
- “The 1st International Online Conference on Bioengineering”
- “The 8th International Electronic Conference on Water Sciences”
- “Computational Modelling of Functionally Graded Materials and Structures”
- “The 4th International Electronic Conference on Brain Sciences”
- “Advances in Multiphase Electric Drives and Control”
- “Nanotechnology Applications in Sensors Development”
- “Machine Learning in Biomedical Engineering”
- “Green Hydrogen for Clean Steels: Decarbonization of Hard to Abate Industry”
- “The 5th International Electronic Conference on Foods”
- “Environmental Catalysis in Air Pollution Control”
- “MDPI Dark Matter Day 2024”
- “Stochastic Processes and Applications”
- “The 2nd International Electronic Conference on Actuator Technology”

Academic Awards & Honors

- “Business Communication & AI for Professional” course offered by organized by LUMSx in partnership with Roshan Kal Academy and ilmX authorized by Lahore University of Management Sciences (LUMS) and PepsiCo.
- Webinar on “AI for Professional” organized by PepsiCo and Roshan Kal Academy in collaboration with LUMSx.
- Ten-week course on “English for Career Development” program led by American specialist Kody Salzburn from July 21 to September 12, 2025 in collaboration with the United States (US) Embassy Islamabad and Lincoln Corners NUST.
- In one-day training, Department of Agricultural Engineering & CNH Industrial (CNHI) Member of Organizing Committee on One Day Training Workshop on “Principles of Efficient Tractor Operation; Environmental Impact of Diesel Exhaust, Its Remedies, & EPA Standards” held at the Department of Agricultural Engineering BZU, Multan.
- “Impact of Climate change on Agriculture (yield of wheat, cotton, and rice) for Early (2010-2039) & Mid (2040-2069) Century Scenarios: Interventions and Adaptions” organized by Plant a New Life (PNL) by Professor Dr Syed Aftab Wajid at the University of Agriculture Faisalabad (UAF).
- In a Poster Competition on “Water and Sanitation Hygiene (WASH) Achieving Sustainable Development Goal 6”. by the governance of urban water & sanitation held at the Department of Agricultural Engineering BZU, Multan.
- One Week Training Workshop On “Laser Land Levelling” (WMTI, Lahore)
- “Entrepreneurial Aspirations for Agricultural Engineers under Regional Plan 9” a seminar held at the Department of Agricultural Engineering BZU, Multan.
- In WaterAid (World Water Day), a poster competition on “Accelerating Change - Water is Life” was held at the Department of Agricultural Engineering BZU, Multan.
- “Let it flow, let it flow!” Stage Zero approach to river restoration (Stage Zero approach for geomorphological design and assessment of channels)
- “Future problems faced by young Engineers” a seminar held at the Department of Agricultural Engineering BZU, Multan.
- “Harnessing nature of wastewater” (The passive & low-input wastewater systems utilize cutting-edge technology, providing benefits for wastewater treatment)
- One-day hands-on training of “3D scanner for Reverse Engineering of Agricultural Machinery Design & Drone Spraying technology” by Agricultural Mechanization Research Institute (AMRI) organization held at the Department of Agricultural Engineering BZU, Multan.
- “What’s mud got to do with it?” (Reservoir sedimentation & dam removal using HEC-RAS & other tools)
- “Stakeholders dialogue on Women Development & Agricultural Mechanization in Pakistan” held at Department of Agricultural Engineering BZU, Multan.
- “AI tools for flood assessment & modelling” (Using AI-based GIS tools to assess flood impacts & improve flood modelling efficiency)
- NOAH Business Applications Institute presents “From Wood to Code: Boarding the Technological Ark” (To understand the significance of business applications)
Webinar on "Pervious Concrete - Can it mitigate some effects of climate change?"
- “Structures in the Marine Environment” (Assessing the design & impacts of offshore wind structures in the marine environment, including fixed bottom & floating wind turbine generators)
- “What is UX/UI? (User Experience & User Interface)” hosted by Anika Ijaz & Rimsha Nadeem (UX/UI Designer & Data Analyst) organized by University Hub Pakistan (UHP) at the University of Agriculture Faisalabad (UAF)
- “Computer hardware for hydraulic modeling” (Purchasing advice & compelling insights regarding computer hardware best fit for hydraulic modeling)

- “Advancing Coastal Resilience” (Navigating the future of coastal protection solutions, empowered by numerical modelling)
- “Empowering Growth; Self Awareness, Decision Making, Resilience” hosted by Anika Ijaz & Dr. Ahmad Mohi-ud-din (DVM, MPhil Parasitology & Career counselor) organized by University Hub Pakistan (UHP) at the University of Agriculture Faisalabad (UAF)
- “Sediment transport modeling applications” (2D & 3D sediment transport modelling approaches in coastal, estuarine, & riverine environments)
- Webinar on “Making Concrete Sustainable & Moving Towards Net Zero”
- “Ocean energy” (How much energy is available from waves & tides, and what prevents us from harvesting it?)
- “Highly Efficient Irrigation Systems (HEIS): Designing Factors, Installation and Field Experiences” organized by Department of Agricultural Engineering at BZU, Multan
- “National e-Conference on Recent Advances in Engineering, Technology & Applied Sciences–2023 (RAETAS-2023)” organized by Society Towards Advancement of Rural Education in association with Maharana Pratap School of Pharmacy, Lucknow
- “Integrated catchment and receiving water modeling” (A presentation on the application of a new tool that seamlessly integrates processes on catchment & three-dimensional water quality modeling)
- United Nations Association of Pakistan (UNAP) organized “Mastering 5S and Kaizen, the Toyota Way Program 2023” in partnership with Toyota Indus Motor Company
- Webinar on “Creating New Age Infra to Be Corrosion Free and Provide Major-Maintenance Free Life (M.F.L)”
- “Vermi-composting and Sustainable Agriculture” hosted by Dr. Zubair Aslam (Founder of Vermi-composting & Associate Professor at the Department of Agronomy) organized by University Hub Pakistan (UHP) at the University of Agriculture Faisalabad (UAF)
- Webinar on “Cloud Data Engineering” hosted by Mr. Lokesh Shukla (Corporate trainer & certified Azure Data Engineer)
- “Clean me a river: reversing riparianism” (Why rivers do not make good borders & how the principles of riparianism undermine river health)
- Webinar on "Single Day Masterclass with Python" by Manideepak Choudhry, Assistant Professor, Department of IT, KGISL Institute of Technology, Coimbatore organized by Athena Global Education
- Webinar on “Innovations in water management: the future of the Murray-Darling Basin”
- “Real-time flood forecasting” (Faster flood model simulations revolutionize real-time flood forecasting & intelligence)
- Webinar on “MS Excel Essentials” by Nithin Kurien organized by Athena Global Education
- Webinar on “Statistical Methods for Analytics using MS EXCEL” by Dr. Babu Muvva, Professor & Consultant organized by Athena Global Education
- Webinar on “Designing Effective Employee Training & Development Program” by Sopheng Tep, Deputy Director at Department of Training (in charge of Training & Development) Ministry of Culture & Fine Arts (MCFA), Cambodia organized by Athena Global Education
- “The salt of the earth” (Desalination: Challenges for ocean water & groundwater applications)
- Webinar on “Leadership Lessons for NGOs on Culture, Innovation, and Governance” by Dean Black, Executive Director of the Royal Canadian Air Force (RCAF) Association organized by Athena Global Education
- Course “Sale Management” provided by Great Learning Academy
- Course “Azure” provided by Great Learning Academy

- Webinar on “[Bookkeeping Essentials: Building a Strong Financial Foundation](#)” by Ankita Shrikrishna Jawalkar, Finance Faculty, UniAthena organized by Athena Global Education
- Webinar on “[Non-Tiled Flooring](#)”
- One-day training seminar on “[Prospects of modern tractor & Agriculture Mechanization in Pakistan](#)” organized by Department of Agricultural Engineering by CNH Industrial (CNHI) & Pakistan Adam Motors (PAM) held at the Department of Agricultural Engineering BZU, Multan.
- “[Wave modelling with SWAN](#)” (Dive into the fundamentals of wave transformation modelling, paving the way for mastering SWAN software)
- “[Advances in scour assessment](#)” (To apply empirical methods for assessing scour at bridges & bends)
- “[Water quality model validation using mass balance analysis](#)” (Unlocking the flow: revolutionizing water management through flux-based modeling for unparalleled environmental insight)
- “[Water change social affects in Northern Murray–Darling Basin \(NMDB\)](#)”(The effects of different levels of water flows – from floods to droughts – have on rural communities in the northern basin)
- Masterclass on “[Generative AI for business Innovation](#)” by Prof. Dr. Tiemo Wambsganss Director of Human-Centered AI-based System (HAIS) Lab Bern University of Applied Sciences Switzerland.
- National Stakeholder’s Conference “[Food value addition sector & its impact on Economic growth of Pakistan](#)” organized by the Department of Food Science & Technology BZU Multan.
- “[Advances in dam breach assessment](#)” (To learn how past mistakes & advances in modelling are improving our ability to estimate dam failure parameters & impacts)
- “[Agricultural Engineering Leadership in Water Policy Planning & Management: Ensuring Efficient Water Use](#)” seminar held at the Department of Agricultural Engineering BZU, Multan.
- Three days training programme on “[Global Warming and Significance of De-Carbonization](#)” organized by the Department of Agricultural Engineering BZU, Multan.
- “[Model running with automation](#)” (The art of efficient model running – from planning to execution - with the help of tools, tips and tricks)
- “[3D hydraulic modelling essentials](#)” (Enhance your hydraulic modelling capabilities by exploring 3D concepts with worked examples using free software like OpenFOAM)
- “[Effective Communication for Leaders Strategies to Inspire and Influence](#)”
- “[Better irrigation pump screens save money and time](#)” (Irrigation tech: screens, farmers & fish-friendly design)
- “[The Future of Business Innovation and Digital Transformation](#)”
- “[Improve SWMM models with GIS tools](#)” (Empower storm water management with EPA SWMM: Open-source, flexible, & globally trusted hydrology & 1D modelling)
- “[Engaging students using multimodal techniques](#)” organized by British Council
- British Council’s ASEAN English Teacher “[Helping teachers to learn](#)” organized by British Council
- “[Water delivery data science](#)” (Innovative data science projects enhancing water delivery through demand forecasting & anomaly detection, driving efficiency, reliability, & operational improvements across irrigation districts)
- “[Connections, Services and Pressure Testing](#)” organized by ASCE.
- “[Animal Waste and Structural Facilities](#)” organized by ASABE.
- “[Tools and Technologies for Global Collaboration in Agricultural and Biological Engineering Workshop](#)” organized by ASABE.
- Conferences “[Drought Resilience](#)” organized by International Water Management Institute (IWMI)
- “[UNCCD's Intergovernmental Working Group \(IWG\) on Drought - Results and Perspectives from 5 continents](#)”

- "Meet a scientist network event for policy makers, practitioners and scientists"
- "Governance in Action: Strategies for Improved Drought Risk Management"
- "Earth Observations and Artificial Intelligence for Drought Management: Opportunities to Scale Impact"
- "Towards actionable information to foster drought resilience-lessons from across scales"
- "Drought and Ecosystems in Arid Environments"
- "Drought Resilience in a Changing Climate: From Monitoring to Action"
- "Empowering Youth to Foster Progress in a Drought Resilience Future"
- "Drought Monitoring and Early Warning for Food Security"
- "Disseminating Drought Status and Outlooks Regionally and Globally"
- "Droughts in Transboundary Basins: Insights from the 3rd SDG 6.5.2 Report and beyond"
- "From Global to Local: Addressing the Drought and Displacement Nexus for Resilient Communities"
- "UNCCD & IDMP Communities of Learning and Practice: collaborative approaches to drought management and resilience"
- "Impact-based drought prediction – from science to practice. What's needed and what's possible?"
- "South Asia, MENA, and Southern Africa Regions: Leading the Way in Drought Adaptation"
- "The International Drought Resilience Observatory Unveiled: Revolutionizing Global Drought Resilience"
- "Gender and Social Inclusion in Drought Management: Policy and Practice"
- "The current state of Drought Monitoring in South America – progress and perspectives"
- "Global Report on the Economics of Drought –benefits of proactive investments to improve Drought readiness"
- "Best practices for private sector and civil society participation"
- "Private sector involvement in Drought finance: the enablers and approaches for Drought resilience"
- "Drought Forecasting, Monitoring and Resilience-Building in East Africa"
- "Catalyzing Drought Action through Technical Exchange across Countries and Agencies"
- "The Global Drought Atlas – a perspective on Drought risks and resilience"
- "Uncovering the Link: Drought, Malnutrition, and Other Health Outcomes"
- "Remote Sensing for Water, Investment, and Agribusiness in Africa!" organized by International Water Management Institute (IWMI)
 - "India Water Week" IWMI-GIZ WASCA MGNREGA tool to revolutionize Natural Resource Management organized by International Water Management Institute (IWMI)
 - "7th International Water Conference on Global Experiences in Best Practices for Achieving Sustainable Groundwater Use" organized by International Water Management Institute (IWMI)
 - "Northern Ghana Stakeholder Engagement Workshops 2024" part of the EU-funded Resilience Against Climate Change-Social Transformation Research & Policy Advocacy initiative, in Bolgatanga organized by International Water Management Institute (IWMI)
 - "High-Resolution Climate Change Downscaling for Resilient Nature-Based Water Solutions in the MENA region" organized by International Water Management Institute (IWMI)
 - International Conference The inaugural Baku Climate Action Week 2024 "Watershed: Making Progress on Water Challenges" organized by International Water Management Institute (IWMI)

- “3-Days Agricultural Machinery Training for Female Farmers & Agricultural Graduates” organized by Sojhal Savail Farmer Foundation (SSFF) & Farmer Development Organization (FWO) held at the Department of Agricultural Engineering BZU, Multan.
- Women's and Gender Studies Association of the Philippines (WSAP) International Conference “BPfA 30 and Beyond: Looking Back and Moving Forward” in partnership with the Southern Luzon State University.
- Conference on Pakistan Water & Energy Expo 2024 “SAFECONOMY – Reinventing the Textile Circular Economy” funded by the SMEP program and FCDO Procurement (The Foreign, Commonwealth, and Development Office).
- “Desalinating brackish water”
- “Literature Review with Litmaps”
- “Monitoring, Evaluation, Accountability, Learning (MEAL) Essentials”
- “Unify your flood modelling” (Unify your flood modelling, whether using TUFLOW, HEC-RAS, SWMM or Flood Modeller)
- “Water research capability in Australia”
- “Build confidence in CFD modelling with FLOW-3D HYDRO” (3D water modelling through an easy-to-use interface and pre-loaded model templates).
- “Nature-based solutions as a means for Sustainable Agriculture”
- “Development and Implementation of Climate-Smart Agriculture Technologies Insight from Atlantic Canada” organized by the University of Prince Edward Island, Canada held at the Department of Agricultural Engineering BZU, Multan.
- “ISO TC 347 Data-Driven Agrifood systems. Supporting the world’s Agrifood system through data standardization” organized by ASABE.
- “Financial Planning Fundamentals for Engineering Professionals” organized by ASABE.
- Scientific Workshop on "Energy-Efficient Temperature and Humidity Control for Agricultural Greenhouses/ Applications" organized by the Department of Agricultural Engineering, Bahauddin Zakariya University (BZU), Multan.
- A hands-on 4-day workshop on “Entrepreneurship & Startup Success” organized by the Institute of Banking and Finance in collaboration with Oric, held at Bahauddin Zakariya University (BZU), Multan.
- ASPIRE Pakistan Ideas Hunt Training Sessions, “Where and What are Good Ideas” and “Making Commercial Sense” organized by ASPIRE Pakistan.
- “3-day Nawai Zaraat Exhibition and Conference 2025” organized by Bahauddin Zakariya University (BZU), Multan.
- “Financial Literacy Week 2025” organized by the Institute of Banking and Finance in collaboration with all banks, held at Bahauddin Zakariya University (BZU), Multan.
- "Climate Action Summit-2025: Pakistan's NDCs and Green Taxonomy-Pathways to Sustainability." organized by the Department of Agricultural Engineering, Bahauddin Zakariya University (BZU), Multan.
- One-day seminar on “Efficient use of Super Seeder & Zero Tillage Technology” in collaboration with Agricultural Mechanization Research Institute (AMRI) held at the Department of Agricultural Engineering BZU, Multan.
- RISE 2030 - SDGs for Leadership Fellowship (Batch 1), a 2-day transformational training on “Sustainable Development Goals (SDGs) & Purpose-Driven Leadership”, held on 14th & 15th June 2025, demonstrating commitment to sustainable action and global impact.
- One-day webinar on “Enhancing Water Productivity through Precise Evapotranspiration Monitoring” organized by Department of Agricultural Engineering, BZU Multan under HEC NRPU Project titled “Research on Evapotranspiration Estimation of Field Crops through Innovative Portable Mini-Lysimeter for Improving Water Productivity”

- Webinar on “Quantitative Methods Using SPSS” of the Research Methodology Course 2025 organized by Center for Learning and Teaching (CLT) Forman Christian College (FCC) (A Chartered University).
- “Conducting and Publishing Systematic Reviews” of the Research Methodology Course 2025 organized by Center for Learning and Teaching (CLT) Forman Christian College (FCC) (A Chartered University).
- “Nurturing Care Through Positive Bonding and Emotional Growth” organized by Yes! You Can Global Foundation.
- “Road to UN Water Conference 2026: Co-Creating a Transformative Water Agenda for the People” hosted by the Water Youth Network.
- “Innovative Leadership: How to Unlock the New World” organized by Yes! You Can Global Foundation.
- Two-day webinar on “Sustainable Development Goals (SDGs) Fellowship Program” organized by Yes! You Can Global Foundation.
- Pakistan Water Week 2025 – International Conference from Scarcity to Sustainability: Collaborative Pathways for Water, Food, and Climate Resilience
 - “From Vulnerability to Resilience: Climate Action Against Floods”
 - “Innovations and Institutional Policy Pathways for Accelerating Inclusive Water Governance in Pakistan”
 - “The Future of Water: Accelerating AI-Driven Solutions for Irrigation through Partnerships and Innovation”
 - “Ensuring Urban Water Security: Implementation of Water Sensitive Cities Concept”
 - “Groundwater Governance: Integrating Monitoring into Sustainable Management Approaches”
 - “Climate-Responsive Social Protection Systems: Potential and Prospects for Pakistan”
 - “Indus and Beyond: Shaping the next era of irrigation in Pakistan”
 - “An Accelerated Collaboration to Improve Water, Sanitation, and Hygiene (WASH) Services”
 - “Achieving Food Security: Drought Forecasting and Management Systems”
 - “Climate Smart Water Management for Resilient Food and Water Systems”
 - “Policy Dialogue on Gender Equality and Social Inclusion for Resilient Water, Energy and Food (WEF) Systems”
 - “Sustainable Future with Water-Energy-Food Nexus and Data-driven Technologies”
 - “Pre-COP 30 - UN Climate Change Conference”
 - “Parliamentarians Shaping Pathways for Water, Food, and Climate Resilience Through Inclusive Reforms”
 - “Water Accounting - A Pathway to Smarter and Sustainable Water Management”
 - “Climate Resilient Agriculture in Water Stressed Region: Opportunities and Challenges”
 - “Policy to Practice- Journey of Balochistan Water Legislation”
 - “Enhancing Water Productivity across the Indus and Ganges Basins: Pathways to Sustainable Food and Water Systems”
 - “Early Warning Systems (EWS) for Enhancing Forest Fire Risk Management and Watershed Resilience in Arid and Semi-Arid Regions”
 - “From Stories to Scale-Up: Youth-Led Climate Pathways for a Water-Secure Future”
 - “Hydro-Economic Modeling for Effective Climate Smart Water Management”
 - “Financing Resilience: Pakistan’s Loss and Damage Pathways”
 - “Smart Solar Irrigation: Leveraging Digital Tools for Sustainable Groundwater Management in Pakistan”
 - “From Crisis to Story: Media’s Role in Communicating Water and Climate Challenges”
- International seminar on title “Climate-Resilient Agriculture 4.0: From Digital Tools to Autonomous Intelligence for Sustainable Farming” Prof. Dr. Norma Alias from University Technology Malaysia as the Keynote Speaker organized

by the Department of Agricultural Engineering, Bahauddin Zakariya University (BZU), Multan in collaboration with CASPAM (BZU).

- “Build a foundation to build AI agents and extend Microsoft 365 Copilot” organized by Microsoft.
- “Choose a custom AI agent development path” organized by Microsoft.
- “Choose the best Microsoft 365 Copilot extensibility path for your scenario” organized by Microsoft.
- “Introduction to developing AI agents” organized by Microsoft.
- “Introduction to Microsoft AI agent solutions” organized by Microsoft.
- “Building the Microsoft Frontier AI Firm with Autonomous Agents” organized by Microsoft.
- “Drive AI transformation in your organization” organized by Microsoft.
- “Transform your business with AI” organized by Microsoft.
- “Drive business value with AI solutions” organized by Microsoft.
- “Explore the business value of generative AI solutions” organized by Microsoft.
- “Scale AI in your organization” organized by Microsoft.
- “Embrace responsible AI principles and practices” organized by Microsoft.
- “Create business value with AI” organized by Microsoft.
- “Leverage AI tools and resources for your business” organized by Microsoft.
- “Drive business value with AI using Microsoft Foundry Tools” organized by Microsoft.
- “Drive business value with Microsoft Copilot solutions” organized by Microsoft.
- “Build effective generative AI solutions in your organization” organized by Microsoft.
- “Understand the foundations of generative AI for business leaders” organized by Microsoft.

Reference

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