Dr. Shahbaz Nasir Khan

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PERSONAL INFORMATION

Pakistan Engineering Council # AGRI/3343

Office Address Department of Structures and Environmental

Engineering, Faculty of Agricultural Engineering and Technology, University of Agriculture, Faisalabad,

Punjab, Pakistan

EDUCATION

ACADEMIC QUALIFICATIONS

Ph.D. Agricultural Engineering (2021) University of Agriculture, Faisalabad, Pakistan

Thesis title: "Development of constructed wetlands to reuse textile industrial effluent for wastewater irrigation by using phytotechnologies"

M.Sc. (Hons.) Agricultural Engineering (2013) University of Agriculture, Faisalabad.

Thesis title: "Using borehole and resistivity data for designing skimming well"

B.Sc. Agricultural Engineering (2011) University of Agriculture, Faisalabad.

PROFESSIONAL EXPERIENCE APPOINTMENTS

1. Assistant Executive Engineer (Lab. Engineer) in the Department of Irrigation and Drainage, Faculty of Agricultural Engineering and Technology, University of Agriculture Faisalabad, Punjab, Pakistan.

Duration September 2013 to- September 2014 (01 year)

2. Lecturer (Permanent/Regular) in the Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, University of Agriculture Faisalabad, Punjab, Pakistan.

Duration : September 2014 to August 2024 (10 years)

3. Assistant Professor (Permanent/Regular) in the Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, University of Agriculture Faisalabad, Punjab, Pakistan.

Duration: 22, August 2024 to date

- **Guest Editor** of Special Issue on" Global Water Risks Across Shared River Corridors in Transboundary Basins", of Water Journal.
- Reviewer of MDPI journals i.e. WATER, APPLIED SCIENCES and POLLUTANTS

- Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan
- Elected **Councillor** Academic Staff Association 2022-24 from Faculty of Agricultural Engineering and Technology, University of Agriculture Faisalabad.
- Working as **Tutor** in Tutorial Management Group under the guidance of Senior Tutor
 Office, University of Agriculture Faisalabad.
- Working as **Internship Coordinator** in Department of Structure and Environmental Engineering, University of Agriculture Faisalabad.
- Working as Convener PLO Assessment Committee under Outcome Based Education
- Member of University **Outreach Committee** from Faculty of Agricultural Engineering and Technology.

MEMBERSHIP OF PROFESSIONAL BODY

- Registered Engineer and lifetime member of the Pakistan Engineering Council, Islamabad, Pakistan.
- 2. A Member of the Foundation of Agricultural Engineers

TEACHING (11 years)

Post Graduate Courses Taught (M.Sc. / Ph.D. Engineering)

- 1. Public Health Engineering
- 2. Water Supply and Wastewater Collection System
- 3. Environmental Management and Impact Assessment
- 4. Special Problem
- 5. Seminar

Undergraduate Courses Taught (B.Sc. Engineering)

- 6. Water Supply and Sewerage
- 7. Water Pollution Control
- 8. Environmental Impact Assessment
- 9. Agricultural Pollution and Control
- 10. Environmental Management Systems in Industry
- 11. Senior Project Design I & II
- 12. Project and Report I & II

PUBLICATIONS

Research articles Published in (2025)

- 1- Shahbaz Nasir Khan, Anjum L, Arshad A, Ali S, Aleem M, Nasir A. Nature-Based Solution for Wastewater Treatment and Reuse Using Phytoremediation with Floating Plants. Water. (2025). (IF 3.1)
- **2-** Hammad Hussain, Sonia Arshad, **Shahbaz Nasir Khan**, et al., Thermal Pyrolysis of Wasted High-density Plastic into Valuable Fuels Using Statistically Derived Kinetic Rate Constants. Cleaner Chemical Engineering. (2025).

Research articles Published in (2024)

- **3-** Aleem, M., **Shahbaz Nasir Khan***, Akbar, M.U. et al. Ten Billion Tree Tsunami Project Reveals Climate Change Mitigation and Precipitation Increase in Khyber Pakhtunkhwa Province, Pakistan. Earth Syst Environ (2024). https://doi.org/10.1007/s41748-024-00533-7 (IF 5.3)
- **4-** Arshad, Muhammad Jawad, Sikandar Ali, **Shahbaz Nasir Khan,** Arfan Arshad, Jinping Liu, Faisal Mumtaz, Muhammad Mohsin Waqas, Barjeece Bashir, and Rao Husnain Arshad. 2024. "Multispectral Assessment of Net Radiations Using Comprehensive Multi-Satellite Data" Water 16, no. 23: 3378. https://doi.org/10.3390/w16233378

International Reviewed Journal with Impact Factor (Published)

- 5- Tayyab, Muhammad, Rana Ammar Aslam, Umar Farooq, Sikandar Ali, Shahbaz Nasir Khan, Mazhar Iqbal, Muhammad Imran Khan, and Naeem Saddique. "Comparative Study of Geospatial Techniques for Interpolating Groundwater Quality Data in Agricultural Areas of Punjab, Pakistan." Water 16, no. 1 (2023): 139. (IF 3.4)
- 6- Anwar, Saba, Qamar Abbas Syed, Asad Ullah, Mehwish Arshad, Shahbaz Nasir Khan, and Muhammad Iftikhar Hussain. "Detection of heavy metals using atomic absorption and emission spectroscopy in drinking water of Faisalabad, Pakistan: microbial safety and quality status assessment." Toxin Reviews 43, no. 1 (2024): 1-17. (IF 3.8)
- 7- Rabeea Noor, Arfan Arshad, Muhammad Shafeeque, Jinping Liu, Azhar Baig, Shoaib Ali, Aarish Maqsood, Quoc Bao Pham, Adil Dilawar, **Shahbaz Nasir Khan**, Duong Tran Anh and Ahmed Elbeltagi. "Combining APHRODITE Rain Gauges-Based

- Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan
 - Precipitation with Downscaled-TRMM Data to Translate High-Resolution Precipitation Estimates in the Indus Basin." Remote Sensing 2023 (IF 5.349)
- 8- Rana Ammar Aslam, Sangam Shrestha, Muhammad Nabeel Usman, Shahbaz Nasir Khan, Sikander Ali, Muhammad Shoib Sharif, Muhammad Waqas Sarwar, Naeem Saddique, Abid Sarwar, Mohib Ullah Ali, and Arfan Arshad. "Integrated SWAT-MODFLOW Modeling-Based Groundwater Adaption Policy Guidelines for Lahore, Pakistan under Projected Climate Change, and Human Development Scenarios". Atmosphere 2022 (IF 3.1)
- 9- Ahsan Saif Ullah, Haroon Rashid, **Shahbaz Nasir Khan,** Muhammad Umar Akbar, Arfan Arshad, Md. Masudur Rahman and Shumaila Mustafa. "A Localized Assessment of Groundwater Quality Status Using GIS-Based Water Quality Index in Industrial Zone of Faisalabad, Pakistan" Water 2022 (IF 3.52)
- 10-Muhammad Umer, Shahbaz Nasir Khan, Arfan Arshad, Rana Ammar Aslam, Hafiz Muhammad Safdar Khan, Haroon Rashid, Quoc Bao Pham, Abdul Nasir, Rabeea Noor, Khaled Mohamed Khedher and Duong Tran Anh "A modified approach to quantify aquifer vulnerability to pollution towards sustainable groundwater management in Irrigated Indus Basin" Environmental Science and Pollution Research 2022 (IF 4.22)
- 11-Shahbaz Nasir Khan, Abdul Nasir, Haroon Rashid and Zubair Aslam "A comparative study of wastewater quality analysis in major textile industrial zones of Faisalabad for irrigation use". Pakistan Journal of Agricultural Sciences. 2021 (IF 0.748)
- **12-**Muhammad Shafeeque, Arfan Arshad, Ahmed Elbeltagi, Abid Sarwar, Quoc Bao Pham, **Shahbaz Nasir Khan**, Adil Dilawar, and Nadhir Al-Ansari "Understanding temporary reduction in atmospheric pollution and its impacts on coastal aquatic system during COVID-19 lockdown: a case study of South Asia". GEOMATICS, NATURAL HAZARDS, AND RISK. 2021 (IF 3.33)
- **13-** Arfan Arshad, Saddam Hussain, Farhan Saleem, Muhammad Shafeeque **Shahbaz Nasir Khan**, Muhammad Sohail Waqas. "Unprecedented reduction in airborne aerosol particles and nitrogen dioxide level in 1 response to COVID-19 pandemic lockdown over the Indo-Pak region". Geophysical Research Letters. 2020 (IF 4.74)
- 14- Hafiz Muhammad Safdar Khan, Shahbaz Nasir Khan, Hafiz Ihsan ul Haq Khan, Haroon Rashid, Abdul Nasir and Adeel Mehmood. "Development and Performance Evaluation of Light Duty Hydraulically Operated Biomass Briquettes Forming Machine for Domestic Use". Journal of Mechanical Engineering Research and Developments. 2021 (HEC Y Category)

International Reviewed Journal without Impact Factor

15- Anam Maqsood, Haroon Rashid, Shahbaz Nasir Khan, Abdul Nasir, Nafeesa Aman, Ahsan Saif Ullah, Ahmad, Rana Ammar Aslam, Hafiz Muhammad Safdar Khan, Muhammad Akbar. "Wastewater Characterization of Chiniot Drain and Evaluation of Groundwater Contamination Using Water Quality Index (WQI) and GIS Techniques". Pollutants 2023.

- Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan
- **16-**Muhammad Imran, **Shahbaz Nasir Khan**, Saba Abid and Hafiz Muhammad Safdar Khan. "Performance Evaluation of Natural Coagulants for Wastewater Treatment". Science Heritage Journal, 2023.
- 17- Yousaf Hassan, Shahbaz Nasir Khan, Hafiz Muhammad Safdar Khan, Rana Ammar Aslam, Touseef Ahmed Babar, and Abdul Nasir "Evaluation of Treatment of Domestic Wastewater using Eicchornia Crasssipes and Pistia Stratiotes by Phytotechnologies" Environmental Contaminants Reviews (ECR) 2021.
- **18-**Rana Noman Saleem, **Shahbaz Nasir Khan**, Hafiz M. Safdar khan, Abdul Nasir. "Productivity Comparison of Conventional and Single Slope Solar Still with Internal Reflectors: An Overview". Earth Sciences Pakistan. 2021
- 19- Muhammad Asadullah, **Shahbaz Nasir Khan**, Hafiz M. Safdar, Rana Ammar Aslam, Imran Shaukat. "Sustainability and Development of Aquaponics System: A Review". Earth Sciences Pakistan. 2020
- **20-**Muhammad Auranzaib, **Shahbaz Nasir Khan**, Muneeb Ahmad, Muhammad Touseef, Abdul Nasir. "Developing Guidelines for Environmental Impact Assessment of Kashmir Underpass Project in Faisalabad". Engineering Heritage Journal. 2020
- 21- Touseef Ahmad Babar, Shahbaz Nasir Khan, Hafiz Muhammad Safdar Khan, Abdul Nasir, and Muhammad Umar. "Water Supply Scheme System Design for Peri Urban Areas of Punjab using EPANET". Pakistan Journal of Geology. 2020
- **22-**Haroon Rashid, Ch. Arslan, **Shahbaz Nasir Khan**, Wastewater Irrigation, Its impacts on environment and health risk assessment in peri urban areas of Punjab Pakistan- A review. Environmental Contaminants Reviews (ECR) 2018
- **23-** Arfan Arshad, Sikander Ali, **Shahbaz Nasir Khan**, Muhammad Riaz, Sufyan Arshad, Ch. Arslan, Shafqat Noor Design of floating wetland for treatment of municipal wastewater and environmental assessment using emergy technique Proceedings of the International Academy of Ecology and Environmental Sciences 2017

List of Books/Proceedings/Monographs/Manuals/Book Chapters

- 1. Muhammad Usman Farid, Atta Ullah, Abdul Ghafoor, **Shahbaz Nasir Khan**, Mazhar Iqbal, Furqan Muhayodin, Abdul Shabbir, Chaudhry Arslan and Abdul Nasir. "Air Pollution and Clean Energy: Latest Trends and Future Perspectives" Intech Open Publications 2023
- 2. Abdul Rehman Zahoor, **Shahbaz Nasir Khan**, Arfan Arshad, and Rana Ammar Aslam. "Emerging Technologies for Water Supply, Conservation and Management: Remote Sensing and GIS Based Techniques for Monitoring and Conserving Water on Newly Developed Farmlands" Springer Nature 2023
- 3. Manual for EPANET 2.0, Touseef Ahmed Babar and Shahbaz Nasir Khan
- 4. Easy way to learn GIS, Shahbaz Nasir Khan, and Prof. Dr. Allah Bakhsh

List of Abstracts/Conference Proceedings

- 1. Muhammad Sami Altaf, **Shahbaz Nasir Khan**, Abdul Nasir, Moeez Noor, Abubakar Shafique, Manan Aleem, Hassan Tariq. Water, Sanitation and Hygiene (WASH): Emphasizing the Value of Water in Promoting Sustainability. 8th International Water Conference (2024).
- 2. Wardah, **Shahbaz Nasir Khan**, Abdul Nasir, Rana Mansoor Hamza and Yasir Abbas. Water, Sanitation and Hygiene issues in Pakistan: Contribution of Engineers in Sustainable Development. 8th International Water Conference (2024).
- 3. Moeez Noor, **Shahbaz Nasir Khan**, Abubakar Shafique, Sami Altaf, Yasir Abbas. Climate Change Adaptability, Water Governance & GLOF's: Effect of GLOF's on Climate Change. 8th International Water Conference (2024).
- 4. Mansoor Hamza, **Shahbaz Nasir Khan**, Wardah, Hassan Tariq, Haram Afzal. Adapting to Climate Change by Mitigating GLOFs in Pakistan. 8th International Water Conference (2024).
- 5. Abubakar Shafique, **Shahbaz Nasir Khan**, Abdul Nasir, Moeez Noor, Muhammad Sami Altaf, Manan Aleem. Water Productivity: Water, Energy, Food Nexus & Hydro Diplomacy Sustainable Strategies of Water and Energy Use for Agricultural Products. 8th International Water Conference (2024).
- 6. Aliza Mehboob, **Shahbaz Nasir Khan**, Abdul Nasir, Yasir. Reduced Security Risks from Climate Change through Sustainable Agriculture in Pakistan. 8th International Water Conference (2024).
- 7. Maryam, **Shahbaz Nasir Khan**, Muhammad Jawad Arshad. A17-Enhancing Climate Resilience change in Agricultural crops. Proceedings of the National Conference on Climate Change and Water Resources (CCWR) Bridging the Gap for SDG6 (2024).
- 8. Abdul Rehman Zahoor, **Shahbaz Nasir Khan**, Arfan Arshad, Rana Ammar Aslam, Atta Ullah, Muhammad Shahbaz, Muhammad Jawad Arshad, Saqib Ali. A18-Investigation of Water Scarcity Dynamics in Anthropogenic region (South Asia). Proceedings of the National Conference on Climate Change and Water Resources (CCWR) Bridging the Gap for SDG6 (2024).
- 9. Muhammad Moaeez Noor, **Shahbaz Nasir Khan**, M. Abubakar Shafique, Sami Altaf, Manan Aleem, Ali Raza, Ali Hasnain. A35-Water Policy & Governance Challenges & Practices of Water Governance. Proceedings of the National Conference on Climate Change and Water Resources (CCWR) Bridging the Gap for SDG6 (2024).
- 10. Mannan Aleem, **Shahbaz Nasir Khan**, Muhammad Ahmad Akram, Muhammad Maaz Tanveer, and Muhammad Abubakar Shafique. A60-Data, Models and Tools for Water Resources and Climate Change. Proceedings of the National Conference on Climate Change and Water Resources (CCWR) Bridging the Gap for SDG6 (2024).
- 11. Muhammad Ahmad Akram, **Shahbaz Nasir Khan**, Mannan Aleem and Muhammad Hassan Ali. A61-Innovative Technologies for Agricultural Water Conservation and Management. Proceedings of the National Conference on Climate Change and Water Resources (CCWR) Bridging the Gap for SDG6 (2024).
- 12. Hasan Tariq, **Shahbaz Nasir Khan**, Muhammad Abubakar Shafique. A93-[Water Policy and Governance] [WATER SECURITY IN CHANGING WORLD]. Proceedings of the National Conference on Climate Change and Water Resources (CCWR) Bridging the Gap for SDG6 (2024).
- 13. Mansoor Hamza, **Shahbaz Nasir Khan**, Muhammad Abubakar Shafique, Wardah, Muhammad Abdullah, Anam Ali. ICGWARM-3-SMM-7. Geo-Spatial Techniques for Soil Monitoring and Management. Proceedings of the International Conference on

- Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan
 - "Geo-informatics for Water and Agricultural Resource Management (ICGWARM)" (2024).
- 14. Yasir Abbas, Muhammad Zaman, **Shahbaz Nasir Khan**, Muhammad Adnan Shahid. ICGWARM-3-SMM-9. GIS Uses for Monitoring Soil Quality in Chiniot and Assessing PH and EC for Crop Productivity. Proceedings of the International Conference on "Geo-informatics for Water and Agricultural Resource Management (ICGWARM)" (2024).
- 15. Muhammad Abubakar Shafique, Shahbaz Nasir Khan, Abdul Nasir, Mansoor Hamza, Muhammad Ammad Bin Ayub, Muhammad Maaz Tanveer, Muhammad Ahmad Akram, Mannan Aleem, Muhammad Moaeez Noor and Danyal Tariq. ICGWARM-3-SMM-10. Resources Inventories and Management Using Remote Sensing and Geospatial Techniques. Proceedings of the International Conference on "Geoinformatics for Water and Agricultural Resource Management (ICGWARM)" (2024).
- 16. Mannan Aleem, Shahbaz Nasir Khan, Danyal Tariq, Muhammad Ammad Bin Ayub, Muhammad Maaz Tanveer, Muhammad Abubakar Shafique and Muhammad Ahmad Akram. ICGWARM-4-CCM-2. Geo-informatics for Precision Agriculture and Climate Resilience. Proceedings of the International Conference on "Geo-informatics for Water and Agricultural Resource Management (ICGWARM)" (2024).
- 17. Muhammad Abubakar Shafique, **Shahbaz Nasir Khan**, Abdul Nasir, Mansoor Hamza, Muhammad Ammad Bin Ayub, Muhammad Maaz Tanveer, Muhammad Ahmad Akram, Mannan Aleem, Muhammad Moaeez Noor and Danyal Tariq. ICGWARM-4-CCM-8. Geo-informatics for Crop Classification and Monitoring. Proceedings of the International Conference on "Geo-informatics for Water and Agricultural Resource Management (ICGWARM)" (2024).
- 18. Yasir Abbas, **Shahbaz Nasir Khan** and Muhammad Zaman. ICGWARM-5-CYE-1. Integration of Remote Sensing and Advanced Crop Models to Improve Crop Yield Estimation: a review. Proceedings of the International Conference on "Geo-informatics for Water and Agricultural Resource Management (ICGWARM)" (2024).
- 19. Wardah, Abdul Nasir, **Shahbaz Nasir Khan,** Mansoor Hamza, Tayyaba Saleem and Muhammad Umer Saleem, Muhammad Abdullah, Anam Ali. ICGWARM-5-CYE-11. Application of Remote Sensing in Mapping Rice Area and Yield Forecasting. Proceedings of the International Conference on "Geo-informatics for Water and Agricultural Resource Management (ICGWARM)" (2024).
- 20. Muhammad Moaeez Noor, **Shahbaz Nasir Khan**, Ali Raza, Muhammad Abubakar Shafique, Sharoon Aftab, Shoaib Sarwar and Saffi-Ur-Rehman. ICGWARM-8-FM-6. Geo-informatics for Flood Monitoring and Management. Proceedings of the International Conference on "Geo-informatics for Water and Agricultural Resource Management (ICGWARM)" (2024).
- 21. Danyal Tariq, Shahbaz Nasir Khan, Mannan Aleem, Muhammad Ahmad Akram, Muhammad Ammad Bin Ayub and Muhammad Maaz Tanveer. ICGWARM-8-FM-7. Integration GIS and Hydrological Modelling for Proactive Flood Management and Strengthening Boundaries for Resilient Riverine Communities. Proceedings of the International Conference on "Geo-informatics for Water and Agricultural Resource Management (ICGWARM)" (2024).
- 22. Muhammad Ahmad Akram, **Shahbaz Nasir Khan**, Mannan Aleem, Muhammad Ammad Bin Ayub, Muhammad Maaz Tanveer, Muhammad Abubakar Shafique and Danyal Tariq. Floodplain Inundation Mapping and Early Warning for Indus River Basin Using Sentinel-1 SAR Data. ICGWARM-8-FM-9. Proceedings of the International Conference on "Geo-informatics for Water and Agricultural Resource Management (ICGWARM)" (2024).

Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan

23.

- 24. Jevan Bahadar, **Shahbaz Nasir Khan**, Abdul Nasir, Muhammad Abubakar Shafique, Muhammad Moaeez Noor and Umer Maqsood. Mitigating climate change effects on fodder and livestock through innovative approaches. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 25. Asif Ali, **Shahbaz Nasir Khan**, Hasan Tariq. Climate-resilient feed production: Balancing economic sustainability and environmental stewardship in the face of climate change. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 26. Wardah, **Shahbaz Nasir Khan**, Mansoor Hamza, Yasir Abbas. Impact of climate change on fodder and livestock productivity. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 27. Ali Raza, Abdul Nasir, **Shahbaz Nasir Khan,** Mansoor Hamza, Yasir Abbas, Haram Afzal. Fodder production in climate shift paradigm. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 28. Mansoor Hamza, **Shahbaz Nasir Khan**, Ali Raza, Tayyaba Saleem, Muhammad Umer Saleem, Ana Javaid, Wardah. Sustainable fodder production in Pakistan. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 29. Asif Ali, **Shahbaz Nasir Khan**, Nimra Noor. Sustainable fodder production strategies for a warming world. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 30. Muhammad Abubakar Shafique, **Shahbaz Nasir Khan**, Abdul Nasir, Muhammad Moaeez Noor, Sami Altaf, Mannan Aleem, Umer Maqsood. Essential nutrients for fodders in Pakistan. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 31. Muhammad Moaeez Noor, **Shahbaz Nasir Khan**, M. Abubakar Shafique, Sami Altaf, Manan Aleem, Umer Maqsood. Significance of fodder for animals' health. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 32. Mannan Aleem, **Shahbaz Nasir Khan**, M. Moaeez Noor, M. Sami Altaf, Muhammad Abubakar Shafique, M. Hassan Ali. Enhancing fodder nutritional value by mitigating antinutritional effect of Tannin. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 33. Yasir Abbas, **Shahbaz Nasir Khan**, Ali Raza, Wardah, Beenish Ghous, Bint-e-Zahra. Improving fodder processing and conservation techniques for sustainable livestock nutrition and agricultural productivity in Pakistan. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 34. Muhammad Sami Altaf, **Shahbaz Nasir Khan**, M Abubakar Shafique, Mannan Aleem, Muhammad Moiz Noor, Umer Maqsood. The role of agricultural engineers in the dairy industry. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production" (2023)
- 35. **Shahbaz Nasir Khan**, Muhammad Shahzaib and Muhammad Umer Farooq. "Integrate Building Information Modelling (BIM) in Location and Transportation Analysis in the

- Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan
 - LEED Certification Process". International Conference on Sustainable Development in Civil Engineering. 2023.
- 36. Zahoor, Abdul Rehman, **Shahbaz Nasir Khan**, Arfan Arshad, and Rana Ammar Aslam. "Remote Sensing and GIS Based Techniques for Monitoring and Conserving Water on Newly Developed Farmlands." In Emerging Technologies for Water Supply, Conservation and Management, pp. 83-107. Cham: Springer International Publishing, 2023.
- 37. Abdul Rehman Zahoor, **Shahbaz Nasir Khan**, Arfan Arshad, Rana Ammar Aslam, Atta Ullah and Saqib Ali. Remote Sensing and GIS approaches for integrated water management and sustainable food production in urbanizing regions. International Conference on Sustainable Development in Civil Engineering. 2023.
- 38. Abdul Rehman Zahoor, **Shahbaz Nasir Khan**, Arfan Arshad, Rana Ammar Aslam, Atta Ullah and Saqib Ali. Sustaining agricultural resilience and mitigating emissions for global food security in a changing climate. International Conference on Sustainable Development in Civil Engineering. 2023.
- 39. Sibtain Yaseen, **Shahbaz Nasir Khan**, Syed Muhammad Ali Hadi, Muhammad Haseeb, Muhammad Hassan Rafique, and Rushda Mujahid. Technology adoption and dissemination for improving agriculture. International Conference on Sustainable Development in Civil Engineering. 2023.
- 40. Yasir Abbas, **Shahbaz Nasir Khan**, Rao Muhammad Arif Saeed, Wardah and Namal Saeed. Development of modern poultry farms in Pakistan, International Conference on Sustainable Development in Civil Engineering. 2023.
- 41. Abdullah Khalid, **Shahbaz Nasir Khan**, Saira Shehzadi, Umair Ali, Saad Abid, Zain Ul Abidin. Agro Chemicals application and its impact on Environment, International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 42. Hasan Tariq, **Shahbaz Nasir Khan**, Saad Abid, Zain Ul Abidin, Umer Maqsood. Impact of Climate change on Ecosystem. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 43. Murtaza Ahmed and, **Shahbaz Nasir Khan.** Preparation of Compost using Kitchen Waste. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 44. Fakhar Abbas, **Shahbaz Nasir Khan**, Abdullah Khalid, Asif Ali, Saad Abid, Zain Ul Abidin. The role of CFCs in Ozone Layer Depletion. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 45. Umair Ali, **Shahbaz Nasir Khan**, Asif Ali, Saad Abid, Saad Abid, Abdullah Khalid. Scope of AI and Robotics in Agriculture. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 46. Ahmed Aslam, Rana Ammar Aslam, **Shahbaz Nasir Khan.** Impact analysis of climate change on water resources. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 47. Anum Haider and, **Shahbaz Nasir Khan.** Women-Led Climate Resilience. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 48. Saad Abid, **Shahbaz Nasir Khan**, Muhammad Waqar Akram, Hasan Tariq, Abdullah Khalid, Fakhar Abbas. Application of Robotics in Precision Agriculture. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).

- Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan
- 49. Fakhar Abbas, **Shahbaz Nasir Khan**, Rana Ammar Aslam, Ch Arslan, Muhammad Usman Farid, Mazhar Iqbal, Aliza Mehboob. Scope of Hbv Hydrological Model in Flood Forecasting. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 50. Abdul Rehman Zahoor, **Shahbaz Nasir Khan**, Arfan Arshad, Rana Ammar Aslam, Atta Ullah and Umer Maqsood. Remote sensing and GIS Approaches for Effective Water Management and Preservation in Newly Established Agricultural Lands. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 51. Abdul Rehman Zahoor, **Shahbaz Nasir Khan**, Rana Ammar Aslam, Muhammad Shahbaz, Atta Ullah, Arfan Arshad. Assessing Climate Change Impacts on Key Industrial Cities in Pakistan using Downscaled Aura OMI Satellite, Agriculture, and Environmental Proxies. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 52. Ahtisham ul Haq Zafar and, **Shahbaz Nasir Khan.** Reuse of Plastic Waste in Road Construction. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 53. Sheeza Hameed, Mubashra Iftikhar, Umer Maqsood, Amina Tariq, Afshan Sehar and **Shahbaz Nasir Khan.** Impact of Climate Change in Global Food Security. International Conference on Precision and Sustainable Agriculture under Climate Change (IPSAC-2023).
- 54. Jeven Bahadur, **Shahbaz Nasir Khan**, Abdul Nasir, Muhammad Abubakar Shafique, Muhammad Moaeez Noor and Umer Maqsood. Mitigating Climate Change effects on fodder and livestock through innovative approaches. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 55. Asif Ali, **Shahbaz Nasir Khan**, Hasan Tariq. Climate-resilient feed production: Balancing economic sustainability and environmental stewardship in the face of climate change. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 56. Wardah, **Shahbaz Nasir Khan**, Mansoor Hamza, Yasir Abbas. Impact of Climate change on fodder and livestock productivity. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 57. Ali Raza, Abdul Nasir, **Shahbaz Nasir Khan,** Mansoor Hamza, Yasir Abbas, Haram Afzal. Fodder production in climate shift paradigm. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 58. **Shahbaz Nasir Khan,** Mansoor Hamza, Ali Raza, Tayyaba Saleem, Muhammad Umer Saleem, Ana Javed, Wardah. Sustainable Fodder production in Pakistan. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 59. Asif Ali, **Shahbaz Nasir Khan**, Nimra Noor. Sustainable Fodder production strategies for a warming world. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 60. Muhammad Abubakar Shafique, **Shahbaz Nasir Khan**, Abdul Nasir, Muhammad Moaeez Noor, Mannan Aleem, Umer Maqsood. Essential nutrients for fodders in Pakistan. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 61. Muhammad Moaeez Noor, **Shahbaz Nasir Khan**, Muhammad Abubakar Shafique, Sami Altaf, Manan Aleem, Umer Maqsood. Significance of fodder for animals' health.

- Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan
 - International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 62. Manan Aleem, **Shahbaz Nasir Khan**, Muhammad Moaeez Noor, Sami Altaf, Muhammad Abubakar Shafique, Muhammad Hassan Ali. Enhancing fodder nutritional value by mitigating antinutritional effect of Tannin. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 63. Yasir Abbas, **Shahbaz Nasir Khan**, Ali Raza, Wardah, Beenish Ghous, Bint-e-Zahra. Improving fodder processing and conservation techniques for sustainable livestock nutrition and agricultural productivity in Pakistan. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 64. Muhammad Sami Altaf, **Shahbaz Nasir Khan**, Muhammad Abubakar Shafique, Mannan Aleem, Muhammad Moaeez Noor, Umer Maqsood. The role of Agricultural engineers in dairy industry. International Conference on "Fodder Production in Climate Shift Paradigm: Better Nutrition for Dairy Production." (2023)
- 65. Leveraging precision agricultural tools for food security. Mansoor Hamza, **Shahbaz Nasir Khan**, Ana Javid, Tayyaba Saleem and Muhammad Umer Saleem. International Conference on Sustainable Development in Civil Engineering. 2023.
- 66. Ali Abbas, **Shahbaz Nasir Khan**, Mussawar Hussain, Asad Abbas, Huda Ghazanfar, Ali Danial, and Ali bin khalid. Plastic Waste Pollution: Its Sources, Impacts and Mitigation Measures. International Conference on Interdisciplinary Research Innovations, PARS campus, University of Agriculture, Faisalabad, 2022.
- 67. Asad Abbas, **Shahbaz Nasir Khan**, Ali Abbas, Mussawar Hussain, Huda Ghazanfar, Ali bin Khalid, Ali Danial, and Ushra Kramat. Climate Change and Biodiversity. International Conference on Interdisciplinary Research Innovations, PARS campus, University of Agriculture, Faisalabad, 2022.
- 68. Huda Ghazanfar, **Shahbaz Nasir Khan**, Musawar Hussain, Bushra Karamat, Ali Abbas, Asad Abbas, Ali Danial and Ali bin Khalid. Biodiversity conservation through climate change adaptation strategies. International Conference on Interdisciplinary Research Innovations, PARS campus, University of Agriculture, Faisalabad, 2022.
- 69. Huzaifa Bin Abid, **Shahbaz Nasir Khan**, Syed Asfar Hussain Shah, Hammad Shahid, Mohsin Waqar, and Awais Zafar. Role of Carbon Dioxide in Climate Change. International Conference on Interdisciplinary Research Innovations, PARS campus, University of Agriculture, Faisalabad, 2022.
- 70. Mohsin Waqar, **Shahbaz Nasir Khan,** Awais Zafar, Hammad Shahid, Huzaifa Bin Abid, Jamshaid Ali, and Syed Asfar Ali. Vertical Profiling of Air Pollution in Urban and Metro Cities. International Conference on Interdisciplinary Research Innovations, PARS campus, University of Agriculture, Faisalabad, 2022.
- 71. Muhammad Haseeb, **Shahbaz Nasir Khan**, Syed Ali Hadi, Muhammad Hassan Rafique, Abdul Moiz, and Rushda Mujahid. Sewage Sludge and its Application. . International Conference on Interdisciplinary Research Innovations, PARS campus, University of Agriculture, Faisalabad, 2022.
- 72. Mussawar Hussain, **Shahbaz Nasir Khan**, Ali Abbas, Huda Ghazanfar, Bushra Kramat, Asad Abbas, Ali bin Khalid and Ali Daniyal. Increasing Population: A threat to Environmental Sustainability. International Conference on Interdisciplinary Research Innovations, PARS campus, University of Agriculture, Faisalabad, 2022.
- 73. Rushda Mujahid, **Shahbaz Nasir Khan**, Abdul Moiz, Muhammad Hassan Rafique, Syed Ali Hadi, and Muhammad Haseeb. Recycling and Reuse of Building Material in Construction. . International Conference on Interdisciplinary Research Innovations, PARS campus, University of Agriculture, Faisalabad, 2022.

- Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan
- 74. Syed Asfar Hussain Shah, **Shahbaz Nasir Khan**, Awais Zafar, M. Hammad Shahid, Huzaifa bin Abid, and Mohsin Waqar. The Impact of Electricity Generation on the Environment. International Conference on Interdisciplinary Research Innovations, PARS campus, University of Agriculture, Faisalabad, 2022.
- 75. Asad Abbas, **Shahbaz Nasir Khan**, Ali Abbas, Musawar Hussain, Huda Ghazanfer, Ali bin Khalid, Ali Danial and Bushra Kramat. Climate Change and Biodiversity. International Conference on Interdisciplinary Research Innovations, PARS campus, University of Agriculture, Faisalabad, 2022.
- 76. Huzaifa Bin Abid and **Shahbaz Nasir Khan.** Climate Change- A Potential Threat to Maritime Security. 7th International Water Conference at Riphah University, Islamabad 2022.
- 77. Asad Abbas, **Shahbaz Nasir Khan**, Ali Abbas, Ali Danial, Mussawar Hussain, and Ali bin Khalid. Glacial Lake Outburst Floods and Climate Change in Pakistan . 7th International Water Conference at Riphah University, Islamabad 2022.
- 78. Sameen Fatima, **Shahbaz Nasir Khan**, Abdul Nasir and Umer Maqsood, Green technology for wastewater treatment. PSHS, International Horticulture Conference, Institute of Agricultural Sciences, Punjab University Lahore, 2020.
- 79. Muhammad Shahzaib, **Shahbaz Nasir Khan** and Abdul Nasir, Green building. PSHS, International Horticulture Conference, Institute of Agricultural Sciences, Punjab University Lahore, 2020.
- 80. Naveed Ahmad Khan and **Shahbaz Nasir Khan,** Impact of industrial wastewater on groundwater quality, 18th International Congress of Soil Science, Sindh Agriculture University Tando Jam, 2020.
- 81. Muhammad Asad Ullah, **Shahbaz Nasir Khan** and Muhammad Umer. Application of nanoparticle in water purification and wastewater treatment, 18th International Congress of Soil Science, Sindh Agriculture University Tando Jam, 2020.
- 82. Muhammad Shahzaib and **Shahbaz Nasir Khan,** Wastewater treatment by using micro-algae, 18th International Congress of Soil Science, Sindh Agriculture University Tando Jam, 2020.
- 83. Muhammad Asad Ullah, **Shahbaz Nasir Khan** and Muhammad Umer. Wind: A Renewable and Sustainable Source of Energy, 18th International Congress of Soil Science, Sindh Agriculture University Tando Jam, 2020.
- 84. Usama Zafar, **Shahbaz Nasir Khan**, Abdul Moiz and Abdul Nasir. Operation of drip irrigation using biogas as energy source, 18th International Congress of Soil Science, Sindh Agriculture University Tando Jam, 2020.
- 85. Touseef Ahmad Babar, **Shahbaz Nasir Khan,** Muhammad Umer, Muhammad Umar Masood, Amina Manzoor, Muhammad Touseef and Ahsan Saif Ullah. Assessment of Noise Levels in Faisalabad. 18th International Congress of Soil Science, Sindh Agriculture University Tando Jam, 2020.
- 86. Muhammad Touseef, **Shahbaz Nasir Khan** and Umer Maqsood. Waste to Energy: An approach towards clean energy, International Conference on Green Energy Technologies: Opportunities and Challenges, University of Agriculture Faisalabad. 2019
- 87. Awais Bin Aqib, Sidra Ashfaq and **Shahbaz Nasir Khan**. Performance of solar chimney dryer for vegetable drying. International Conference on Green Energy Technologies: Opportunities and Challenges, University of Agriculture Faisalabad. 2019
- 88. Muhammad Gufran Ali, Sikander Ali, Amina Manzoor, **Shahbaz Nasir Khan**, M. Arshad and Abdul Nasir. Performance evaluation of lysimeter with indirect method,

- Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan
 - International Conference on Green Energy Technologies: Opportunities and Challenges, University of Agriculture Faisalabad. 2019
- 89. Drakhshan Ansari and **Shahbaz Nasir Khan**. Hydropower potential for the production of electricity in Pakistan, International Conference on Green Energy Technologies: Opportunities and Challenges, University of Agriculture Faisalabad. 2019
- 90. Touseef Ahmad Babar and **Shahbaz Nasir Khan.** Potential of solar thermal power in Pakistan, International Conference on Green Energy Technologies: Opportunities and Challenges, University of Agriculture Faisalabad. 2019
- 91. Abdul Moiz, **Shahbaz Nasir Khan**, Abdul Nasir and Umer Maqsood. Role of biogas to overcome the energy crises in Pakistan, International Conference on Green Energy Technologies: Opportunities and Challenges, University of Agriculture Faisalabad. 2019
- 92. Naveed Ahmad Khan, **Shahbaz Nasir Khan**, Touseef Ahmad Babar and Abdul Nasir. Potential of eco-friendly vehicles in controlling emissions, International Conference on Green Energy Technologies: Opportunities and Challenges, University of Agriculture Faisalabad. 2019
- 93. **Shahbaz Nasir Khan**, Abdul Nasir, Haroon Rashid, Zubair Aslam Treatment of Textile Effluents by using Aquatic Plants (Phytoremediation) In Faisalabad, Pakistan Water Footprints of the Cotton Textile value chain: Environmental Repercussions from Field to Hanger (UAF) 2019
- 94. **Shahbaz Nasir Khan**, Arfan Arshad, Abdul Nasir, Mohsin Noor, Water Footprint Accounting of Cotton Production in Pakistan: Formulating Water Footprint Response Strategies to Sustain Environment. Water Footprints of the Cotton Textile value chain: Environmental Repercussions from Field to Hanger (UAF) 2019
- 95. Mohsin Noor, Dr. Abdul Nasir, **Shahbaz Nasir Khan**, Hafiz Muhammad Safdar Khan, Imran Shouket, Hafiz Ihsan ul Haq Khan, Bioremediation of Contaminated Soil using Phytotransformation Water Footprints of the Cotton Textile value chain: Environmental Repercussions from Field to Hanger (UAF) 2019
- 96. Umer Maqsood, M. Azam Khan, **Shahbaz Nasir Khan**, Usman Masood In-stream nitrogen removal in anthropogenic impacted river network Water Footprints of the Cotton Textile value chain: Environmental Repercussions from Field to Hanger (UAF) 2019
- 97. Umer Maqsood, M. Azam Khan, Usman Maqsood, **Shahbaz Nasir Khan** Iot Sensors: A Road Map to Future Farming, Water Footprints of the Cotton Textile value chain: Environmental Repercussions from Field to Hanger (UAF) 2019
- 98. Abdul ur Rehman, Allah Bakhsh, **Shahbaz Nasir Khan**, Evaluation of Management Zones in precision farming Water Footprints of the Cotton Textile value chain: Environmental Repercussions from Field to Hanger (UAF)
- 99. M. Bilal Ahsan, **Shahbaz Nasir Khan**, Abdul Nasir Performance Evaluation of Biogas Plant for Household Use, Water Footprints of the Cotton Textile value chain: Environmental Repercussions from Field to Hanger (UAF) 2019
- 100. Touseef Ahmad Babar, **Shahbaz Nasir Khan**, Muhammad Umar, Design of Water Supply System by Using EPANET, International Symposium: Technologies and Materials for Renewable Energy Environment & Sustainability (UAF) 2019
- 101. Muhammad Farooq Anwar and **Shahbaz Nasir Khan**, Design of Zigzag Brick Kiln to Reduce Air Pollution International Symposium: Technologies and Materials for Renewable Energy Environment & Sustainability (UAF) 2019
- 102. Muhammad Nabeel Riaz, **Shahbaz Nasir Khan**, Purification of Water by Moringa Oleifera Seeds International Symposium: Technologies and Materials for Renewable Energy Environment & Sustainability (UAF), 2019

- Dr. Shahbaz Nasir Khan (Assistant Professor), Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering and Technology, Pakistan
- 103. M. Bilal Ahsan, Shahbaz Nasir khan, Arfan Arshad, Remote Sensing (Rs) and Land Surface Temperature (Lst) Application in Assessment of Urban Heat Island: A Review International Symposium: Technologies and Materials for Renewable Energy Environment & Sustainability (UAF) 2019
- 104. Haris bin Asif and **Shahbaz Nasir Khan**, Purification of Canal Water using different Textile Fabrics, 1st International Conference on Surface Science: Innovations and Applications for Geoenvironmental Challenges (ISES, UAF) 2019
- 105. Touseef Ahmad Babar and **Shahbaz Nasir Khan**, Water Borne Diseases by Poor Water Supply System, 1st International Conference on Surface Science: Innovations and Applications for Geoenvironmental Challenges (ISES, UAF) 2019
- 106. Muhammad Faizan Aslam and **Shahbaz Nasir Khan**. Groundwater Management Strategies for District Chakwal, Punjab- Pakistan, 1st International Conference on Surface Science: Innovations and Applications for Geoenvironmental Challenges (ISES, UAF) 2019
- 107. Muhammad Saim Tahir and Shahbaz Nasir Khan Status of Air Pollution due to PM 2.5 in Faisalabad Pakistan 1st International Conference on Surface Science: Innovations and Applications for Geoenvironmental Challenges (ISES, UAF) 2019
- 108. Muhammad Umar Akbar, Shahbaz Nasir Khan, Ahsan Saif Ullah, Mohsin Noor and Adnan Shakeel Bioremediation of Municipal Wastewater: A Case Study1st International Conference on Surface Science: Innovations and Applications for Geoenvironmental Challenges (ISES, UAF) 2019
- 109. Faiza Kashif, **Shahbaz Nasir Khan** and Ali Raza Biological Treatment of Textile Wastewater in Faisalabad using Aquatic Plant, Water Hyacinth 1st International Conference on Surface Science: Innovations and Applications for <u>Geoenvironmental</u> Challenges (ISES, UAF) 2019
- 110. **Shahbaz Nasir Khan**, Abdul Nasir, Potential use of phytoremediation technology for industrial wastewater treatment in city Faisalabad, Pakistan International Workshop on Phyto-technologies for Environmental Clean-up. (NUST ISB) 2018

PROJECT DEVELOPMENT AND WORKING

S.	Project Title	Funding	Duration	Role	Present
no		Agency			Status
1	Development of Constructed	ORIC, UAF	1 year	As Ph. D	Completed
	Wetlands to reuse Textile		(2019 to	Student	
	Industrial Effluent for		2020)		
	Wastewater Irrigation by using				
	Phyto-technologies				
2	Development of an indigenous	National	1 year	As PI	Completed
	automatic air gases monitoring	Cleaner	(2022 to		
	system to control unwanted	Production	2023)		
	accidents	Center, PK			
3	Converting Agriculture Waste	National	1 year	As PI	On-going
	into Biofuel Briquettes for	Cleaner	(2025 to		
	Sustainable Development	Production	2026)		
	_	Center, PK			

SUPERVISION OF POSTGRADUATE STUDENTS (Main Supervisor)

No.	Name	Degree	Research Title	Year
1	Zainab	Ph.D.	Not decided yet	2024-
	Siddique	Agricultural Engineering		2028
2	Yousaf	M. Sc.	Treatment of wastewater using	2021
	Hassan	Environmental	Eicchornia crassipes and Pistia	
		Engineering	strateotes	
3	Muhammad	M.Sc.	Assessment of spatiotemporal	2021
	Touseef	Agricultural Engineering	variations in air pollutants in major cities of Punjab, Pakistan	
4	M. Umar	M.Sc.	A Novel Approach to Quantify	2021
	Akbar	Agricultural	Groundwater Vulnerability Zones	
		Engineering	Based on an Improved Recharge Factor and Rating Scale Using an Integrated	
			Modeling Framework	
5	Touseef	M.Sc.	Treatment of wastewater using floating	2022
	Ahmad Babar	Agricultural	mats technology	2022
		Engineering		
6	Muhammad	M.Sc.	Removal of heavy metals from tannery	2022
	Farooq Anwar	Agricultural	wastewater using the Phytoremediation	
		Engineering	technique	
7	Muhammad	M.Sc.	Treatment of Industrial Wastewater by	2024
	Muneeb	Environmental	using the Charcoal	
		Engineering		
8	Abdur-	M.Sc.	Downscaling of OMI satellite data	2023
	Rehman	Agricultural	(Aura) over major industrial cities of Pakistan and its influence on socio-	
	Zahoor	Engineering		
9	Hafiz Sheraz	M.Sc.	economy and environmental proxies Impact Assessment of Spatial variation	2025
,	Tranz Sheraz	Environmental	of groundwater level in Lahore	2023
		Engineering	of ground water level in Lanore	
10	Hamna Zahid	M.Sc.	Geospatial Modeling for Reconstructing	2024
		Agricultural	High Resolution (1 Km) Groundwater	
		Engineering	Quality Data in Data-Scare Agro-	
			Urbanized Regions Punjab Pakistan.	
11	Mohamad	M.Sc.	Investigating the Role of Typha	2025
11	Alhousain	Agricultural	Latifolia and Water Hyacinth in	2023
	Amousam	Engineering	Improving Textile Wastewater Quality	
		0 0		
12	Zainab	M.Sc.	Optimizing Hempcrete Blocks with	2024
	Siddique	Environmental	Alternating Binding Materials.	
1.2	N 41	Engineering	Donas and San of Cont : 11 D' D' 1	2024
13	Mubarra Tehreem	M.Sc.	Preparation of Sustainable Bio Bricks	2024
	1 6111 66111	Agricultural Engineering	using Hemp and Crop Residues.	
14	Hammad	Engineering M.Sc.	Development of ZSM-5/Al2O3/NiO	2025
14	Shoukat	Agricultural	Composite Catalyst Systems for	2023
	SHOUNUL	1151104114141	Composite Cutary of Dystellis 101	

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			Microwave Heat Driven Recycling of	
			Municipal Plastic Waste.	
15	Mannan	M.Sc.	Not decided yet	2024-26
	Aleem	Agricultural		
		Engineering		
16	Muhammad	M.Sc.	Not decided yet	2024-26
	Moeez Noor	Agricultural	-	
		Engineering		
17	Mansoor	M.Sc.	Not decided yet	2024-26
	Hamza	Agricultural		
		Engineering		
18	Huzaifa bin	M.Sc.	Not decided yet	2024-26
	Abid	Environmental	-	
		Engineering		
19	M. Hashir	M.Sc.	Not decided yet	2024-26
		Agricultural		
		Engineering		

(2nd Member in Supervisory Committee)

No.	Name	Degree	Research Title	Year
1	Ameer Ahmad	M. Sc. Environmental	Biogas Production Potential Assessment of Food Waste Co	2021
2	Muhammad	Engineering M.Sc.	Digested with Biogas Slurry Characterization of Biomass Briquettes	2021
	Umer	Agricultural Engineering	Produced from Crop Residues as an Alternative Sustainable Energy Solution	
3	Ahsan Saif	M.Sc. Agricultural Engineering	Assessment of groundwater quality status by using Water quality index (WQI) and Geographical information system (GIS) approaches in industrial region of Faisalabad	2021
4	Ahmad	M.Sc. Agricultural Engineering	Performance Evaluation of Effect of Sewage as Additive on Physico- Chemical Characteristics of Compost from Various Organic Waste	2021
4	Muhammad Tayyab	M. Sc. Environmental Engineering	Comparative analysis of geospatial techniques for interpolating groundwater quality data in Punjab, Pakistan	2022
5	Muhammad Saad	M.Sc. Agricultural Engineering	Detection of Disorder in Tomato Plant leaf by artificial intelligence	2023
6	Saba Abid	M.Sc. Agricultural Engineering	Preparation of compost using various solid wastes	2024

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