

Curriculum Vitae



DR. SHAKEEL AHMED SOOMRO

PhD NANJING AGRICULTURAL UNIVERSITY, CHINA.
M.E. SINDH AGRICULTURE UNIVERSITY, TANDOJAM, PAKISTAN.
B.E. SINDH AGRICULTURE UNIVERSITY, TANDOJAM, PAKISTAN.

1. PERSONAL INFORMATION

Name: Shakeel Ahmed Soomro
Father's Name: Dr. Noor Muhammad Soomro
Date of Birth: 21/04/1989
Religion: Islam
Nationality: Pakistani



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Office: Department of Farm Structures and Postharvest Engineering, Faculty of Agricultural Engineering and Technology, Sindh Agriculture University, Tandojam, Hyderabad, Sindh, Pakistan.

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2. EXPERIENCE

i. Teaching

January 08, 2020 to date **Assistant Professor**, Department of Farm Structures and Postharvest Engineering, Sindh Agriculture University, Tandojam, Pakistan

May 05, 2014 to January 07, 2020 Lecturer, Department of Farm Structures and Postharvest Engineering, Sindh Agriculture University, Tandojam, Pakistan

ii. Additional charges

April 20, 2021 to date In-charge, Laboratory of Farm Structures and Postharvest Engineering, Sindh Agriculture University, Tandojam.

April 02, 2021 to date Checker, Faculty of Agricultural Engineering and Technology, Sindh Agriculture University, Tandojam, and Khairpur College of Agricultural and Management Sciences, Sindh Agriculture University, Tandojam.

June, 2022 to date Coordinator, Pakistan Engineering Body of Pakistan Engineering Council.

November, 2025 to date In-charge, Computer Laboratory of Faculty of Agricultural Engineering and Technology, Sindh Agriculture University, Tandojam

3. ACADEMIC QUALIFICATION

Ph.D. College of Engineering, Nanjing Agricultural University, China in 2019.

M.E. Department of Farm Structures and Postharvest Engineering, Faculty of Agricultural Engineering and Technology, Sindh Agriculture University, Tandojam, Pakistan in 2014.

B.E. Faculty of Agricultural Engineering and Technology, Sindh Agriculture University, Tandojam, Pakistan in 2011.

4. PROFESSIONAL MEMBERSHIP/ACTIVITIES

- i. Lifetime Member of Pakistan Engineering Council (PEC)
- ii. Member, Asian Phytopathological Society.

- iii. Member, Asian Council of Science Editors.
- iv. Member, Departmental Board of Studies of Department of Farm Structures and Postharvest Engineering, Sindh Agriculture University, Tandojam.
- v. Member, Departmental Board of Studies of Faculty of Agricultural Engineering and Technology, Sindh Agriculture University, Tandojam.
- vi. Member, Postgraduate admission policy of Faculty of Agricultural Engineering and Technology, Sindh Agriculture University, Tandojam.
- vii. Organizing member in 9th Convocation of Sindh Agriculture University, Tandojam.

5. COMPUTER SKILLS

- i. Professional user of Microsoft Office.
- ii. Internet/web and graphic packages.

6. LANGUAGES

- i. English
- ii. Urdu
- iii. Sindhi

7. SCIENTIFIC PAPERS / PUBLICATIONS

1. Li H., Junejo A. R., Midmore D. J. and **Soomro S. A.** (2025). Significance of aerated drip irrigation: A comprehensive review. *Agricultural Water Management*. 321: 1-19.
2. Mehmood F., Jaffer G. M., Soomro S. A., **Soomro S. A.**, Mashori A. S., Soomro A. S. and Awan G. H. (2025). Optimizing irrigation strategies for wheat in Sindh: Balancing yield, water use efficiency, and water footprint. *International Journal of Agriculture and Sustainable Development*. 7(3): 389-414.
3. Tian F., Zhang L., Zhang J., Zhang S., **Soomro S. A.**, Xiong B., Shen W., Song Z., Yan Y. and Yu Z. (2025). Cattle-ES3D: A spatiotemporal feature fusion method for detecting tachypnea and salivation behaviors in beef cattle. *Computers and Electronics in Agriculture*. 239, 110907: 1-12.
4. Kaka A. J., Chattha S. H., Ibupoto K. A., **Soomro S. A.***, Bhayo W. A., Miano T. F. and Kaka S. K. (2025). Influence of hot water treatment and storage period on physicochemical properties of Williams Hybrid (Giant Cavendish) banana fruit. *Pakistan Journal of Scientific and Industrial Research (Series B: Biological Sciences)*. 68B(2): 197-206.
5. Chattha S. H., **Soomro S. A.***, Rahu A. H., Wagan B., Khan Z. A., Moin A. and Giuffrè A. M. (2025). Comparative analysis of traditional and solar drying techniques for red chilli. *Journal of Agriculture and Food*. 6(1): 118-130.
6. Chachar Z. A., Talpur M. A., Shaikh I. A., Khan Z. A., **Soomro S. A.***, Noonari A. R., Turio A., Rajani V. K., Awan G. H., Phullan I. K. and Zaman K. F. (2025). Fabrication and installation of automatic water level recorder through global system for mobile (GSM). *International Journal of Innovations in Science & Technology*. 7(2): 733-740.
7. Tian F., Zhang Y., **Soomro S. A.**, Wang Q., Zhang S., Zhang J., Yang Q., Yan Y., Yu Z. and Song Z. (2025). SSOD-MViT: A novel model for recognizing alfalfa seed pod maturity based on semi-supervised learning. *Computers and Electronics in Agriculture*. 236, 110439: 1-13.
8. Asim M., Almani S., Unar I. N., Abro M., Siddiqui S., Qureshi K., Solangi Z. A. and **Soomro S. A.** (2024). Isolated bubble ascent in a non-Newtonian media inside an

infinite bubble column: a CFD study. *Brazilian Journal of Chemical Engineering*. 41(4): 1127-1138.

9. Vistro R. B., Talpur M. A., Shaikh I. A., Mangrio M. A., **Soomro S. A.***, Soothar R. K., Khokhar Z., Khan Z. A., Chohan M. and Pahnwar R. N. (2024). Sustaining yield of wheat crop using tractor wheel compaction and fertilizer placement at ridge bed irrigation system. *AgriTECH*. 44(3): 251-260.
10. Zhenggang X., Kangkang J., Yue Y., **Soomro S. A.**, Tianyu W., Chenhao L., Shen Y., Yunlin Z. and Guiyan Y. (2024). Natural fermentation of plant tissues as environmental remediation materials to improve soil and enhance plant resistance to cadmium stress. *Restoration Ecology*. 32(3): 1-13.
11. Mecha P., Zhu R., Zhang J., Awuah E., **Soomro S. A.** and Chen K. (2023). Optimization of chanterelle mushroom drying kinetics under heat pump dryer using Taguchi design method. *International Journal of Agricultural and Biological Engineering*. 16(6): 273-279.
12. Katohar I., Soothar R. K., Chandio F. A., Talpur M. A., **Soomro S. A.**, Singha A., Bin L. and Mirjat M. U. (2023). Drought priming and subsequent irrigation water regimes enhanced grain yield and water productivity of wheat crop. *Water*. 15(20): 1-13.
13. **Soomro S. A.**, Chen K., Chattha S. H., Wagan B., Chandio F. A., Ji F., Lund A., Soomro S. A. and Soomro S. (2023). Evaluation of physico-mechanical characteristics of different paddy cultivars grown in humid subtropical region of Eastern China. *RADS Journal of Biological Research and Applied Sciences*. 14(1): 39-46.
14. Shaikh A. A., Mangrio G. S., Ali M., **Soomro S. A.***, Soomro N. S., Yang Z., Kalhoro A. A., Jabeen N., Ali U., Khan A. H., Keerio A. A. and Iqbal N. (2023). Investigation of genetic variability in the direct regeneration population of sugarcane. *Pure and Applied Biology*. 12(2): 948-957.
15. Lund A., Chattha S. H., **Soomro S. A.***, Leghari M. A., Mirani B. N., Zahid G. and Lund K. (2023). Construction and evaluation of a hydroponic system for cultivation of tomato. *Pure and Applied Biology*. 12(1): 694-702.
16. Khaskheli H. A., Soothar R. K., Wang Y., Kapri M. A., Talpur M. A., **Soomro S. A.** and Qureshi A. L. (2022). Effects of plastic film mulching on soil moisture dynamics, water loss and water use efficiency of grain maize. *Journal of Pure and Applied Agriculture*. 7(4): 36-45.
17. Mirani B. N., Chattha S. H., **Soomro S. A.***, Wagan B., Dahri I. A., Khan Z. A., Zahid G. and Ansari B. M. (2022). Effect of post-harvest treatments on quality characteristics of carrots during storage. *RADS Journal of Biological Research and Applied Science*. 13(2): 45-51.
18. Zahid G., Iftikhar S., Farooq M.U. and **Soomro S.A.** (2022). Advances in DNA based molecular markers for the improvement of fruit cultivars in Pakistan-A Review. *Sarhad Journal of Agriculture*. 38(3): 812-832.
19. Zahid G., Begum S., Almani S., Khattak S. H., Soothar R. K. and **Soomro S. A.***. (2022). Utilization of SSR markers to identify slow rusting genes in spring wheat (*Triticum aestivum L.*). *Pakistan Journal of Agricultural Research*. 35(1): 85-92.
20. Peter M., Liu Z., Fang Y., Dou X., Awuah E., **Soomro S. A.** and Chen K. (2021). Computational intelligence and mathematical modelling in chanterelle mushrooms' drying process under heat pump dryer. *Biosystems Engineering*. 212: 143-159.

21. **Soomro S. A.**, Chen K., Siyal A. A., Sessiz A., Wagan B., Memon M. S., Soomro Z. A., Peter M., Liu H. and Yang Z. (2021). Implications of variability in mechanical characteristics of rice straw under different moisture, variety and loading rate. *Fresenius Environmental Bulletin*. 30(9): 10449-10456.
22. Soomro Z. A., Nizamani Z. A., Kalhoro N. H., **Soomro S. A.**, Yu H., Chen K., Tariq M., Vistro W. A., Mangio H. R. and Soomro A. A. (2021). Studies on surveillance and pathology of *E. Coli* infections in poultry in Sindh province of Pakistan. *Fresenius Environmental Bulletin*. 30(7): 8051-8062.
23. **Soomro S. A.**, Chen K., Leghari N., Makange N. R., Peter M., Yousaf K., Pahnwar A., Almani S. and Soomro Z. A. (2021). Effect of moisture on physico-engineering properties of two husked and de-husked Chinese rice varieties. *International Agricultural Engineering Journal*. 30(2): 67-74.
24. Soothar R. K., Singha A., **Soomro S. A.**, Chachar A., Kalhoro F. and Rahaman M. D. (2021). Effect of different soil moisture regimes on plant growth and water use efficiency of sunflower: experimental study and modeling. *Bulletin of the National Research Centre*. 45, Article 121: 1-8.
25. **Soomro S. A.**, Almani S., Bux L., Ibupoto K. A., Memon M. S., Chandio F. A., Chattha S. H., Khan Z. A., Soomro Z. A., Ansari B. M. and Chen K. (2021). Mathematical modeling and optimization of physical properties of paddy as influenced by drying. *Pakistan Journal of Agricultural Research*. 34(2): 337-345.
26. Panhwar A. A., Qureshi K., Sheikh S. A., Soomro A. A. and **Soomro S. A.** (2020). Physico-chemical properties of onion powder as affected by drying methods. *Sindh University Research Journal (Science Series)*. 52(4): 319-322.
27. Makange N. R., Okinda C., **Soomro S. A.** and Ji C. (2020). Approaches used to model prediction of cutting forces for tillage tools: A Review. *International Agricultural Engineering Journal*. 29(2): 34-44.
28. Chattha S. H., Mirani B. N., **Soomro S. A.***, Ibupoto K. A. and Khan Z. A. (2020). Storage performance of forced ventilated, natural ventilated, and traditional methods on the quality of onion bulbs. *Journal of Pure and Applied Agriculture*. 5(2): 34-41.
29. Yang Z., Abbas A., Wang X., Ameen M., Yang H. and **Soomro S. A.** (2020). Influence of soil particle size on the temperature field and energy consumption of injected steam soil disinfection. *Processes*. 8, 241: 1-29.
30. Sunusi I. I., Zhou J., Wang Z. Z., Sun C., Ibrahim I. E., Opiyo S., Korohou T., **Soomro S. A.**, Sale N. A. and Olanrewaju T. O. (2020). Intelligent tractors: Review of online traction control process. *Computers and Electronics in Agriculture*. 105176: 1-16.
31. **Soomro S. A.**, Chen K. and Soomro S. A. (2020). Mathematical modelling and optimisation of low temperature drying on quality aspects of rough rice. *Journal of Food Quality*. 6501257: 1-10.
32. Bhanbhro L. B., Bozdar H. D., **Soomro S. A.**, Jatoi M. A., Bughio A. A., Faheem M., Arshad M., Rajper A. A. and Mirani A. A. (2019). Agronomic performance of some alien bread wheat (*Triticum aestivum*) lines under agro-ecological conditions of Sakrand, Pakistan. *Pure and Applied Biology*. 8(4): 2135-2142.
33. **Soomro S. A.**, Chen K., Leghari N., Yousaf K., Dahri I. A., Ibrahim I. E., Idris S. I. and Soomro S. A. (2019). Response surface methodology for optimization and

mathematical modelling of physico-engineering properties of paddy rice. *Fresenius Environmental Bulletin*. 28(11): 7787-7794.

- 34. Ibrahim I. E., Changying J., Idris S. I. and **Soomro S. A.** (2019). A laboratory evaluation of plain coulter equipped with press-wheels for cutting straw under direct seeding system. *Interciencia*. 44(10): 104-124.
- 35. Khan Z. A., Chattha S. H., Ibupoto K. A., **Soomro S. A.***, Arshad I. and Jaffer L. A. (2019). Thermal treatments for enhancing the dormancy of cotton (*Gossypium*) seed. *Pure and Applied Biology*. 8(3): 1999-2006.
- 36. Wu M., Luo H., Li C., Yi X., Yousaf K., **Soomro S. A.**, Ji F. and Chen K. (2019). Automatic measurement method of volume and surface area of jujube based on laser point cloud. *International Agricultural Engineering Journal*. 28(1): 259-268.
- 37. Ibrahim I. E., Ji C., He R., Ding Q., El Sheikh A. H., **Soomro S. A.** and Idris S. I. (2019). Quantifying performance of chisel plow in heavy clay soil of Gezira scheme - Sudan. *International Agricultural Engineering Journal*. 28(1): 79-98.
- 38. Abbasi N. A., Ali M. N. H. A., Abbasi B., **Soomro S. A.**, Nangraj N. A. K., Sahto J. G. M. and Morio S. A. (2019). Assessment of Agricultural Land Suitability using Fuzzy Set Method. *Pakistan Journal of Agricultural Research*. 32(2): 252-259.
- 39. Kaka A. K., Ibupoto K. A., Chattha S. H., **Soomro S. A.***, Mangio H. R., Junejo S. A., Soomro A. H., Khaskheli S. G. and Kaka S. K. (2019). Effect of hot water treatments and storage period on the quality attributes of banana (*Musa sp.*) fruit. *Pure and Applied Biology*. 8(1): 363-371.
- 40. **Soomro S. A.**, Chen K., Yousaf K., Ibupoto K. A., Ameen M., Memon M. S., Mingqing W., Ibrahim I. E. and Soomro S. A. (2018). Fracture resistance of paddy as influenced by moisture, variety, orientation and loading rate under quasi-static compressive load. *International Agricultural Engineering Journal*. 27(4): 364-370.
- 41. Yousaf K., Abbas A., Zhang X., **Soomro S. A.**, Ameen M. and Chen K. (2018). Effect of multi-stage drying on energy consumption, the rate of drying, rice quality and its optimization during parboiling process. *Fresenius Environmental Bulletin*. 27(12): 8270-8279.
- 42. Ameen M., Xiaochan W., Yaseen M., Umair M., Yousaf K., Yang Z. and **Soomro S. A.** (2018). Performance evaluation of root zone heating system developed with sustainable materials for application in low temperatures. *Sustainability*. 10, 4130: 1-16.
- 43. Ali M. N. H. A., Jamali L. A., **Soomro S. A.***, Chattha S. H., Ibupoto K. A., Abbasi N. A. and Qumi N. M. (2018). Post-harvest losses and control of unprocessed sugar cane. *Pakistan Journal of Agricultural Research*. 31(4): 355-360.
- 44. Li Y., Chandio F. A., Ma Z., Zaman M., Li B., Syed T. N., Farooq U. and **Soomro S. A.** (2018). Post harvesting technology: effects of moisture content and loading speed on shearing failure of paddy grains. *International Agricultural Engineering Journal*. 27(3): 342-349.
- 45. Liu H., Yousaf K., Chen K., Fan R., Liu J. and **Soomro S. A.** (2018). Design and thermal analysis of an air source heat pump dryer for food drying. *Sustainability*. 10, 3216: 1-17.
- 46. Mingqing W., Chuanfeng L., Huaping L., Xiaokang Y., **Soomro S. A.** and Kunjie C. (2018). The physical characteristics of red jujube in different grades and its influence

on the classification results. *Transactions of the Chinese Society for Agricultural Machinery*. 8: 1-11.

47. Keerio A. A., Mangrio G. S., Keerio M. I., Soomro N. S., Nizamani G. S., **Soomro S. A.***, Khatri A., Soomro F. D., Keerio A. A., Sheikh A. A., Manghwar H. and Rattar Q. A. (2018). Effect of different phytoharmones on micropropagation of banana (*Musa Sp.*) cultivars and their assessment through RAPD. *Pure and Applied Biology*. 7(3): 1074-1084.

48. Dahri I. A., Tagar A. A., Adamowski J., Leghari N., Shah A. R. and **Soomro S. A.** (2018). Influence of straw incorporation-to-planting interval on soil physical properties and maize performance. *International Agrophysics*. 32: 341-347.

49. **Soomro S. A.**, Thebo S. A. and Chen K. (2018). Physico-engineering properties of different rice varieties grown in Sindh province of Pakistan. *International Agricultural Engineering Journal*. 27(1): 275-280.

50. Chattha S. H., Mirani B. N., **Soomro S. A.***, Ibupoto K. A., Mangio H. R., Khushk G. M., Abro A. A., Khan Z. A. and Zhao L. (2018). Comparative study of different storage methods for postharvest preservation of wheat grain. *Science, Technology and Development*. 37(1): 1-5.

51. Memon M. S., Ali K., Siyal A. A., Guo J., Memon S. A., **Soomro S. A.**, Memon N. and Ji C. (2018). Effects of plastic sheet on water saving and yield under furrow irrigation method in semi-arid region. *International Journal of Agricultural and Biological Engineering*. 11(1): 172-177.

52. Abro K. A., Soomro A., **Soomro S. A.***, Tagar A. A. and Shaikh I. A. (2017). Effect of conjunctive use of waste and ground water on yield and crop water productivity of cluster bean. *International Journal of Biosciences*. 11(6): 159-165.

53. Memon M. S., Siyal A. A., Ji C., Tagar A. A., Ara S., **Soomro S. A.**, Khadimullah., Fahimullah and Memon N. (2017). Effect of irrigation methods and plastic mulch on yield and crop water productivity of okra. *Journal of Basic & Applied Sciences*. 13: 616-621.

54. Memon M. S., Tagar A. A., Chunxia J., Sijie J., **Soomro S. A.**, Korai P. K., Memon N., Ameen M. and Changying J. (2017). Influence of straw incorporation and tillage practices on sustainable wheat (*Triticum aestivum L.*) yield and soil organic carbon dynamics in rice-wheat rotation system. *International Agricultural Engineering Journal*. 26(4): 85-95.

55. Chattha S. H., Mirani B. N., **Soomro S. A.***, Ibupoto K. A., Shaikh I. A., Mangio H. R., Khushk G. M., Dahri I. A., Abro A. A. and Khan Z. A. (2017). Study on cultivators associating post harvest losses of onion vegetable in Sindh's Mirpurkhas district. *Journal of Basic & Applied Sciences*. 13: 426-430.

56. Soomro A., Baloch A., **Soomro S. A.***, Tagar A. A., Soomro S. A. and Gandahi A. W. (2017). Effect of different irrigation water qualities on turnip production and water productivity under furrow irrigation method. *Journal of Basic & Applied Sciences*. 13: 340-346.

57. Soomro A., Nauman M., **Soomro S. A.***, Tagar A. A., Soomro S. A., Buriro M., Gandahi A. W. and Memon A. H. (2017). Evaluation of raised-bed and conventional irrigation systems for yield and water productivity of wheat crop. *Journal of Basic & Applied Sciences*. 13: 143-149.

58. Jamali L. A., **Soomro S. A.***, Abro A. A., Khan Z. A. and Walhari N. H. (2016). Effect of grain moisture content on physico-engineering properties of wheat. *Journal of Agricultural Research*. 54(4): 773-785.
59. **Soomro S. A.***, Ibupoto K. A., Soomro N. M. and Jamali L. A. (2016). Effect of storage methods on the quality of onion bulbs. *Pakistan Journal of Agriculture, Agricultural Engineering and Veterinary Science*. 32(2): 221- 228.
60. Naz M., Nizamani F., Nizamani G. S., Nizamani M. R., Ahmed S., Ahmed N., Saif-Ur-Rehman and **Soomro S. A.** (2016). Callus induction and plant regeneration from immature embryos of spring wheat varieties (*Triticum Aestivum L.*) under different concentrations of growth regulators through tissue culture technique. *Pure and Applied Biology*. 5(3): 378-385.
61. Shah A. R., Talpur M., Laghari M., Shah A. M., Memon A., **Soomro S. A.** and Solangi M. (2016). Fuel consumption and operational cost of various tillage implements. *Science International*. 28(3): 2651-2653.
62. **Soomro S. A.***, Shah A. R., Soomro N. M., Laghari N., Dahri I. A. and Buriro G. A. (2016). Effect of different tractor traffics on physical properties of soil. *Science International*. 28(3): 3075-3078.

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8. TRAININGS (ATTENDED & PARTICIPATED)

1. Potential of hydrogen as energy source for industry in Pakistan. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
2. Digitalization of electricity grids smart metering and energy monitoring in Pakistan. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
3. Leadership skills for Engineering. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
4. Procurement and contract management. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
5. Overview of FIDIC conditions of contract. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
6. Emotional intelligence and stress management. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
7. The role of engineers in safe and sustainable operations. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
8. Professional ethics. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
9. 2-days training of trainers (ToT) on micro agro-entrepreneurship. Organised by SMEDA - ITC GRASP Project.
10. Training on Advancements in food technologies: Bridging innovation with a sustainable future. Organised by African-Asian Rural Development Organization (AARDO) & Malaysian Agricultural Research and Development Institute (MARDI).
11. Training on grant writing and modelling tools to support climate resilience research. Organised by University Partnership Counteracting Climate Change in Sindh And Balochistan, USPCAS, Mehran University of Engineering & Technology, Jamshoro.

12. Training on science communication and diplomacy in agriculture. Organised by Ministerial Committee on Scientific and Technological Cooperation (COMSTECH) and Sindh Agriculture University, Tandojam.
13. Training on carbon neutral villages. Organised by Hoopo Canada and Sindh Agriculture University, Tandojam.
14. Artificial intelligence: Implications for technologies & business strategy. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
15. Online earning skills for engineers. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
16. Standard procedure & formula for price adjustment. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
17. Digital transformation. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
18. 3-days training workshop on planning, appraisal and execution. Organised by PCMU, P&D, Government of Sindh and Sindh Agriculture University, Tandojam.
19. Training on design of watercourse for uniform flow. Organised by Sindh Agriculture University, Tandojam and Pakistan Engineering Council, Islamabad, Pakistan.
20. Training on AutoCAD hands-on training. Organised by Sindh Agriculture University, Tandojam and Pakistan Engineering Council, Islamabad, Pakistan.
21. Training on capacity building of academic leadership in advance research, teaching methodologies, and services provision. Organised by Kohat University of Science & Technology and University of Kentucky USA.
22. Enabling a perfect research ecosystem with science direct. A webinar organized by Elsevier Research Academy.
23. Navigating the pathways of publishing in high-quality journals by using Scopus. A webinar organized by Elsevier Research Academy.
24. Training on geographical information system and remote sensing applications in agriculture and forestry. Organised by Sindh Agriculture University, Tandojam and Pakistan Engineering Council, Islamabad, Pakistan.
25. Seminar on climate smart agriculture. Organised by Sindh Agriculture University, Tandojam and Pakistan Engineering Council, Islamabad, Pakistan.
26. Training on design of drip irrigation system. Organised by Sindh Agriculture University, Tandojam and Pakistan Engineering Council, Islamabad, Pakistan.
27. Lecture on introduction of advance drying technology. Organised by Sindh Agriculture University, Tandojam and Pakistan Engineering Council, Islamabad, Pakistan.
28. Applications of GIS and GPS in precision agriculture. A Webinar arranged by Sindh Agriculture University, Tandojam and Pakistan Engineering Council, Islamabad, Pakistan.
29. Modern storage technologies. A Webinar arranged by Sindh Agriculture University, Tandojam and Pakistan Engineering Council, Islamabad, Pakistan.

30. Advance sowing technologies. A Webinar arranged by Sindh Agriculture University, Tandojam and Pakistan Engineering Council, Islamabad, Pakistan.
31. Public policy: Concepts, issues & challenges-engineer's perspective. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
32. Planning and design of micro hydropower plant. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
33. Personal branding and career choices for engineers. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
34. Employers hire on attitude than any other skills. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
35. Introduction to industry 4.0 technologies. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
36. Industrial wastewater treatment & recycling technologies. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
37. Training on dry chain technology and the use of seed banks. Jointly organized by Sindh Agriculture University, Tandojam and University of Agriculture Faisalabad.
38. The bacterial wilt of cucurbits; ecology, genetics, and management. A Webinar arranged by PMAS-AAUR and Pakistan Phytopathological Society.
39. Engineering applications of agile methodology. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
40. Empowering knowledge on ethical publishing: Mastering the art of identifying predatory, fake and cloned journals. A webinar organized by Elsevier Research Academy.
41. Risk assessment and management. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
42. Digital transformation and impact of IOT on education, industry, health sector, and society towards creating job opportunities. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
43. Time and stress management: Find your balance. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
44. Changing dynamics of supply chain management during COVID-19: A case of medical supply chains. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
45. Open channel design for hydropower and irrigation. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
46. IC manufacturing fabrication process for electronic systems. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
47. External and internal factors that impact procurement process. A Webinar arranged by Pakistan Engineering Council, Islamabad, Pakistan.
48. Training on diesel exhaust pollutant emission and after-treatment emission control technologies in the agriculture sector. Organised by CNHI Industrial and Faculty of Agricultural Engineering, Sindh Agriculture University, Tandojam.

49. Training on tractor mechanics and energy conservation agriculture (tractors). Organised by CNHI Industrial and Faculty of Agricultural Engineering, Sindh Agriculture University, Tandojam.
50. Webinar on “What about our future”, virtual screening on climate change.
51. Training course on horticulture & vegetable, and fruit processing for Pakistan (Vegetables, Date Palms, and Olives). Sponsored by the Ministry of Commerce China and Organised by Hainan University.
52. Training session on “Introduction to publishing in academics journals – Part2”. Organized by Higher Education Commission of Pakistan and ProQuest.
53. GPS and GNSS hands-on training workshop for surveying and mapping. Jointly organised by PMAS-Arid Agriculture University Rawalpindi and Sindh Agriculture University, Tandojam, Pakistan.
54. Mentoring: How does it connect to research ethics. International webinar organized by University of Agriculture Faisalabad, Pakistan.
55. Social sciences & humanities open: All about reviewing. A webinar organized by Elsevier Research Academy.
56. Training session on “How to manage your references using RefWorks”. Organized by Higher Education Commission of Pakistan and ProQuest.
57. Master trainer’s faculty professional development program. Organised by Higher Education Commission of Pakistan.
58. 5-Days workshop on Microsoft office specialist held at Higher Education Commission, Pakistan.
59. Farmer’s financial literacy & awareness program on agricultural financing. Organized by State Bank of Pakistan.
60. Farmer’s financial literacy & awareness program on agricultural financing. Organized by State Bank of Pakistan.

9. CONFERENCES & WORKSHOPS (ATTENDED & ORGANISED)

1. Workshop on designing future ready technical modules - reimagining technical module design to align with future industry demands. Organised by Dublin City University, Ireland & Mehran University of Engineering & Technology, Jamshoro.
2. Workshop on writing a thesis. Organised by Research Roof - Academic support.
3. Workshop on research ethics. Organised by Pakistan Scientific and Technological Information Centre (PASTIC).
4. Workshop on effective presentation skills of a researcher. Organised by Pakistan Scientific and Technological Information Centre (PASTIC).
5. Workshop on bioremediation: Eco sustainable green technology. Organised by Pakistan Scientific and Technological Information Centre (PASTIC).
6. Resource person in 4th two days workshop on bio and food processing. Organised by Mehran University of Engineering & Technology, Jamshoro, Pakistan.
7. 2nd International multidisciplinary digital conference on social, engineering and environmental issues. Organised by Mehran University of Engineering & Technology, SZAB Campus Khairpur Mirs, Pakistan.

8. 3rd International conference on chemical engineering. Organized by the Department of Chemical Engineering, Mehran University of Engineering and Technology, Jamshoro, Pakistan.
9. 1st International conference on agricultural engineering and technologies. Organised by Sindh Agriculture University, Tandojam, Pakistan.
10. 2nd International conference on agriculture, food and animal sciences. Organised by Sindh Agriculture University, Tandojam, Pakistan.
11. Workshop on design of pressurised irrigation system. Organised by Sindh Agriculture University, Tandojam, Pakistan.