

CURRICULUM VITAE

Last updated on Oct 21, 2025

NAME	DR. ZAHID HUSSAIN
CURRENT STATUS	Associate Professor (Tenured)
SERVICE EXPERIENCE	Research Officer (BPS 17) Dec 12, 2007 to April 27, 2010 (2 years, 4 months, 15 days) Assistant Professor (TTS – Grade 19) (HEC Endorsement notification no. DF-QA/HEC/AUP/TTS-138/04/2010/426 dated 9.4.2010) April 28, 2010 to Nov 21, 2018 (8 years, 6 months, 24 days) Associate Professor (Tenured – Grade 20) Nov 22, 2018 onwards (6 years, 11 month, 00 days) (by Oct 21, 2025) (HEC Endorsement notification no. Dir-QA/UAP/HEC/TTS-138/21/291 dated 17.6.2021) Total: 17 years, 10 months, 10 days (Dec 12, 2007 – Oct 21, 2025) 
POST PHD EXPERIENCE	Secrecy Section Degree Notification No. 470-08 dated Nov 03, 2008 (PhD Country Directory No. (PCD#) by HEC Pakistan, 4708) Total: 16 years, 11 months, 20 days (by Oct 22, 2025)
POST-DOC	Ohio State University USA under supervision of Prof. Douglas Doohan, Prof Imed Dami and Prof. Joshua Blakeslee (June 2021 – February 2022)
PERSONAL INFORMATION	Father's Name: FAZAL HUSSAIN Religion: Islam Nationality: Pakistani Languages: English, Urdu, Pashto, Arabic, Persian (R, W, L, S) E-mail: zhussainws@aup.edu.pk Website: http://www.aup.edu.pk/tstaff_dept_details.php?s_id=154&d_id=15&f_id=4
ORCID ID	0000-0001-5262-0648
Scopus ID	57213356240
LinkedIn ID	https://www.linkedin.com/in/dr-zahid-hussain-34a02839/
MAILING ADDRESS	Department of Weed Science and Botany, The University of Agriculture Peshawar, Peshawar-25130, Pakistan. Phone (cell): +92 334 9076365 or +92 300 9070265 Fax: +92 91 9216520 Email: zhussainws@aup.edu.pk
DOMICILE	Peshawar, Khyber Pakhtunkhwa, Pakistan
SOCIETIES MEMBERSHIP	Life member • Weed Science Society of Pakistan (WSSP) • Pakistan Society of Agronomy (PAS) • Pakistan Botanical Society (PBS) • Pakistan Society of Scientific Research (PSSR) • Italo-Latin American Society of Ethnomedicine (SILAE) Member • Asian Council of Science Editors (ACSE) • Asian-Pacific Weed Science Society (APWSS) • International Weed Science Society (IWSS)
PROFESSIONAL GOALS	• Discovering sustainable, environmentally safe and economically viable weed management strategies for crops and vegetables. • Impart quality education in weed sciences to under and post graduate students as well as equip the general farmers with newly developed technology.

OTHER SERVICES	1. Member Departmental Tenure Review Committee (DTRC), Department of Weed Science and Botany, The University of Agriculture Peshawar, vide notification No. 145/S-I/UAP dated 14-3-2022. 2. Member Board of Studies in the Department of Weed Science, The University of Agriculture, Peshawar (Notification no. 4082/WS dated 3-1-2013, no. 1680/WS dated 17-2-2017, and no. 65/WS dated 16-11-2020) 3. Additional Director ORIC UAP vide letter no. 51/S-I/UAP dated 27.3.2025. 4. Advisor to Public Service Commission for interview in Weed Sciences vide letter no. 114/WS-Bot dated 21-09-2022. 5. Member Student Grievances Settlement Committee, Department of Weed Sciences, The University of Agriculture Peshawar (Letter No. 494/WS dated 12.9.2014) 6. Subject expert of weed science for University Admission tests (Letter no. 1042/WS dated 30-10-2015) 7. Member Ethical Institutional Review Board (E-IRB) for ORIC UAP for submitted proposals from Weed Science and Botany department, vide letter no. 479/WS dated 3.2.2025. 8. Member Character Building Committee, The University of Agriculture, Peshawar (from 27-9-2011 onwards) 9. Member Ethics Committee, The University of Agriculture, Peshawar. 10. Coordinator for MPhil/PhD Botany Programs in the department of Weed Science and Botany vide order no. 163/WS dated 09-02-2021. 11. Member Assessment Team in the Department of Weed Science, The University of Agriculture, Peshawar, for HEC Accreditation 12. Coordinator in computerization and technical official correspondence in Weed Science Dept., The University of Agriculture, Peshawar 13. Resource Person, ARI Tarnab Peshawar, Agriculture Research System, Department of Food and Agriculture, KPK Pakistan. 14. Nominee of DAS&R UAP for PhD and MSc (H) Seminars. 15. Convener, Institutional Disciplinary Committee (IDC), Department of Weed Science, vide letter no. 222/WS dated 13-5-2019, and vide registrar letter no. 461/R/UAP dated 20-9-2019. 16. Seminar Coordinator in Weed Science Dept., The University of Agriculture Peshawar, vide office order no. 181/WS dated 27-3-2019. 17. Member QEC Committee in Weed Science vide letter no. 337/WS dated 18/10/2019 18. Team Leader of the Departmental Postgraduate Programs Review 2022-23 for Directorate of Quality Assurance (notification no. 43/WS dated 27.4.2023). 19. Focal Person of the Department of Weed Science and Botany for Office of Research, Innovation, and Commercialization (ORIC) vide letter no. 40/WS dated 15/6/2022. 20. Focal Person of the Department of Weed Science and Botany vide notification no. 372/WS dated 11/9/2024 for the UAP committee constituted for Compilation of Postgraduate Research Findings of UAP postgraduate students. 21. Staff Proctor, The University of Agriculture, Peshawar, from 19-09-2011 onwards. 22. Convener of the departmental committee for auction of unserviceable items; vide notification no. 457/WS-Bot dated Feb 15, 2022. 23. Referee (a) Scientia Horticulturae (b) Pakistan Journal of Agricultural Research (c) Pak Journal of Weed Science Research (d) Int'l Research Journal of Plant Science (e) Int'l Research Journal of Agriculture Science (f) Journal of Plant Breeding & Crop Science
EDITORSHIP	1. Co-Editor, Pakistan Journal of Weed Science Research (Feb 2011 to Sep 2013) 2. Assistant Managing Editor, Pak Journal of Weed Science Res (Oct 2013 to Oct 2017) 3. Managing Editor, International Journal of Agricultural and Environmental Research (Nov 2017 onwards) 4. Managing Editor, Sarhad Journal of Agriculture (X-category journal), The University of Agriculture Peshawar, vide notification no. 20/S-I/UAP dated 10-2-2020 (in progress) http://researcherslinks.com/journal-details/Sarhad-Journal-of-Agriculture/14/editorial-board

ACADEMIC QUALIFICATIONS	2008 Ph.D. (Agriculture/Weed Ecology) KPK Agricultural University Peshawar CGPA 3.93 / 4.00 (92.13%) 2004 M.Sc. Hons. (Agriculture/Weed Science) KPK Agricultural University Peshawar CGPA 3.95 / 4.00 (93.85%) 2002 B.Sc. Hons (Agriculture/Weed Science) KPK Agricultural University Peshawar CGPA 3.82 / 4.00 (87.48%) 1998 F.Sc. Pre-Medical Federal Government Degree College Peshawar Cantonment, KPK, Pakistan Marks 689 / 1100 (62.64%) 1996 Secondary School Certificate (Matriculation) Chamkani Model School Chamkani Peshawar, KPK, Pakistan Marks 615 / 850 (72.35%)
COURSES TAUGHT	Weed Science B.Sc. (Hons) WS-401: Introduction to Weed Science WS-401: Introductory Botany (Fall-2024 and 2025) WS-512: Introduction to Taxonomy of Angiosperms WS-513: Weed Identification-II: (Kharif weeds) WS-601: Introduction to Applied Ethnobotany WS-604: Weed Management in Fruits and Vegetables WS-612: Introduction to Medicinal Weeds and their Utilization M.Sc. (Hons) WS-702: Research Methods in Weed Science WS-707: Herbicides and Kharif crops PhD WS-712: Advances in Applied Ethnobotany Botany B.S. Bot-401: Cell Biology, Genetics and Evolution Bot-413: Biostatistics Bot-601: Molecular Biology M.Sc. Bot-607: Biodiversity and Conservation MPhil Bot-706: Advances in Applied Ethnobotany
PROFESSIONAL TRAININGS	1. 7-day "Workshop for In-Service Teachers of Botany" Aug 9-14, 2005 at NWFP Agricultural Univ Peshawar. 2. HEC 2nd workshop on "Training of trainers in conservation strategies for plant biodiversity of Pakistan" Aug 20-21, 2007, organized by Centre of Plant Biodiversity (University of Peshawar Botanical Garden). 3. 2-day Workshop (July 22-23, 2009) on "Safe Use of Pesticides and Handling of Spray Machines" at ARI Tarnab (Peshawar) funded by Govt. of NWFP. 4. 6-day "Orientation Course of the Newly Recruited Research Officers" organized by Directorate General Outreach, KPK Peshawar from March 15-20, 2010 at Agricultural Research Institute Tarnab, Peshawar. 5. 2-day training course on "Climate Change and its Impact on Food Security" May 19-20, 2010 at KPK Agricultural University Peshawar Pakistan. 6. 4-day training course on "Presentation Skills using Power Point" (September 27-30, 2010) at Pakistan Academy for rural development, Academy town Peshawar. 7. 2-day (November 10-11, 2010) cascading workshop on "Development of Sustainable and Collaborative Research Networks" organized by British Council and HEC at Dept of Agricultural Chemistry, AUP.

8. 3-day training course on “Effective Teaching Skills” (June 7-9, 2011) at Pakistan Academy for Rural Development, Academy town Peshawar.
9. 2-day workshop on “Cased Based Teaching” (Aug 3-4, 2011) at Higher Education Commission Regional Centre (Hayatabad) Peshawar.
10. 2-day online HEC workshop on “Publishing with Emerald” (Dec 14-15, 2011) at Video Conference Room, KPK Agricultural University Peshawar.
11. 2-day workshop (Feb 8-9, 2012) on “Project Formulation” conducted by Pakistan Science Foundation at KP Agricultural University Peshawar.
12. The European Weed Research Society’s workshop on the statistical software R: “Use of Linear and Non-linear regression in Physical, Chemical and Biological Weed Control” (June 17, 2012) at New Century Grand Hotel, Hangzhou, China.
13. 2-week workshop (July 2-13, 2012) on “Incorporating Technology in Education (ITE)” sponsored by NAHE HEC Pakistan at KP Agricultural University Peshawar.
14. 3-day workshop (July 4-6 2012) on “Cascading of AIT based Training Program (Ensuring Training Effectiveness)” sponsored by HEC Pakistan.
15. 3-day International Workshop on “Adaptation to Natural Hazards under the Changing Global Climate Scenario” September 25-27, 2012, at COMSTECH Islamabad, Pakistan.
16. 2-day training workshop on GIS/RS, Jan 9-10 2013, organized by the Department of Environmental Sciences, University of Peshawar.
17. One-day seminar on Anti-plagiarism Policy and Procedure, at VCR of the University of Agriculture Peshawar on Mar 29, 2013 organized by QEC UAP.
18. One day training on “Data analysis techniques for crop, animal and social sciences” on Feb 6, 2014 organized by AUTA at VCR of UAP.
19. One day national seminar on “Exploitation of plants’ oil for direct use as biodiesel in the changing climate of Pakistan” on June 19, 2014 organized by AUTA, UAP.
20. One day training on “Disaster management” on May 25, 2015 organized by Center for Environmental Solutions, Pakistan.
21. A three-day training course on “ICTs: Effective tools for good governance” held at PARD Peshawar during Aug 04-06, 2015.
22. A four-day training course on “Integrated Rural Development” held at PARD Peshawar during Mar 07-10, 2016.
23. One day workshop on “Integration of ICT in Agriculture and Applied Research” held on February 21, 2019 at the University of Agriculture Peshawar.
24. National Workshop on “Developing Research Skills and Data Management” (Apr 4-5, 2019) at Abdul Wali Khan University Mardan.
25. Two days’ training/workshop on “MPCP (Monitoring Plant Clinic Performance) of Plantwise and Action on Invasives” organized by CABI held on Aug 29-30, 2019 at the Ambassador Inn Hotel Islamabad.
26. Two days training on “Teaching Methodologies in HEIs” held on Nov 30 – Dec 01, 2022 at VCR Main Library, organized by Directorate of ORIC, The University of Agriculture Peshawar.
27. One day session on “awareness on Geographical Indications (GIs) and Consultations for Joining Lisbon Agreement for International Registration for GIs” held on 15.12.2022 jointly organized by IPO-Pakistan and Directorate of Quality Enhancement, University of Peshawar
28. Two days training on “Awareness and control of wild oat (*Asphodelus tenuifolius*) in chickpea at District Karak” held on Jan 26-27, 2023 at Department of Weed Science and Botany, UAP.
29. Training titled “Bayer: Safe Use Ambassador” organized by Bayer International at the main auditorium of the University of Agriculture Peshawar on 5.10.2023.
30. Training Workshop for Program Evaluators / Subject Experts organized by NAEAC, HEC on 2.11.2023 at the Video Conference Room, The University of Agriculture Peshawar.
31. Awareness building workshop on “7th Agricultural Census 2024; Integrated Digital Counts” held on 30.5.2024 at Main Auditorium UAP, organized by Pakistan Bureau of Statistics and Ministry of Planning and Development in collaboration with Dept of Maths, Stats and Computer Science, The University of Agriculture Peshawar.
32. Two days national training on “Climate smart agriculture to mitigate drought in drylands of Khyber Pakhtunkhwa” on Jun 4-5, 2024 organized by University of Kassel at Ramada Hotel Islamabad.
33. One day awareness seminar on “Cryptic endo-parasitic nematode species associated with citrus, tomato, and cucumber and their management through a novel systemic nematicide,

	Vaniva 450 SC” held on 10.6.2024 at Main Auditorium UAP, sponsored by Syngenta Pakistan and organized by Department of Plant Pathology, UAP 34. Workshop on “Launch of Climate Change Courses and Catalogue” held on 25.6.2024 at Ramada Hotel, Club Road, Islamabad, organized jointly by Germany and HEC Pakistan. 35. Training workshop on “Revised Quality Assurance (QA) Framework in Higher Education” held on June 27, 2024 organized by Directorate of Quality Assurance, UAP. 36. National Seminar on “Promoting agricultural development and food security through intellectual property, genetic resources, and associated traditional knowledge” held on Aug 29-30, 2024 at VCR UAP organized by IPO Pakistan and the UAP. 37. One day training on “CABI Digital Tools, Introduction and Scenario Based Exercises” conducted on Sep 27, 2024 organized by CABI International and ORIC UAP at the WAMA Hall UAP. 38. One day awareness workshop on “Program review for effectiveness and enhancement – Role and responsibilities” on Dec 23, 2024 at VCR Main Library, organized by DQA UAP. 39. Two days international training on “Navigating climate data” on Jan 7-8, 2025 organized by University of Kassel at Ramada Hotel Islamabad. 40. Two days international training on “Climate finance fundamentals for low and middle income countries” on Jan 9-10, 2025 organized by University of Kassel at Ramada Hotel Islamabad.
RESOURCE PERSON IN PROFESSIONAL TRAININGS	1. 2-day Workshop (July 22-23, 2009) on “Safe Use of Pesticides and Handling of Spray Machines” at ARI Tarnab (Peshawar) funded by Govt. of NWFP. 2. 3-day training (July 25-27, 2011) on “Production techniques of maize and sunflower” for farmers of DI Khan and Tank, financed by Govt. of KP 3. 2-day training (Sep 11-12, 2014) on “Weed Management techniques for farmers, faculty members, researchers, and extension workers across KPK”. 4. 2-day training (April 2-3, 2015) on “Judicious weed management in cereals, orchards and vegetables in the environment of Khyber Pakhtunkhwa”, held at ARI Tarnab Peshawar, organized by Directorate of Outreach, Agricultural Research, KP Pakistan. 5. 2-day training (December 30-31, 2015) on “Awareness on weed management practices for better yields”, held at Dept. of Weed Science, The University of Agriculture Peshawar, Pakistan. 6. 5-day training (February 21-25, 2017) on “Integrated crop management”, held at PARD, Peshawar.
INTERNATIONAL CONFERENCES ATTENDED	1. 2nd International Weed Science Conference 20-22 March 2006 held at University of Arid Agriculture, Rawalpindi. 2. 21st Asian Pacific Weed Science Society (APWSS) Conference held in Colombo Sri Lanka, 2-6 October 2007. 3. 22nd Asian Pacific Weed Science Society (APWSS) Conference held in Lahore Pakistan, 8-12 March 2010. 4. International Symposium on Institutional Linkages for Agriculture Development in Pakistan held at KPK Agricultural University Peshawar, Dec 20-21, 2010. 5. 3rd International Weed Science Conference 18-20 April, 2011 at Department of Weed Science, KP Agricultural University Peshawar. 6. International Conference on “Climate Change: A Challenge for Agriculturists (May 28-30, 2012) at KP Agricultural University Peshawar. 7. The 6th International Weed Science Congress at New Century Grand Hotel, Hangzhou, China (June 17-22, 2012). 8. The 4th International Weed Science Conference at KPK Agricultural University Peshawar, Pakistan (September 6-8, 2012) 9. The 2nd Africa International Allelopathy Congress held at Sousse, Tunisia (Nov 16-19, 2016) 10. Three days International Conference on “Climate Change Threats to Agriculture and Food Security” held at University of Agriculture Peshawar (November 22-24, 2017) 11. Three days international conference on “Bio-fortification of Staple Food Crops” (September 24-26, 2018) sponsored by University of Agriculture Peshawar and HEC. 12. Two days international conference on “Strategies for Ensuring Food Security in the Changing Climate” (October 23-24, 2019) held at the University of Agriculture Peshawar Pakistan. 13. Three days international conference on “Food Security through Sustainable Agriculture Strategies in the Current Climate Change Scenario” (March 08-10, 2023) held at the University of Agriculture Peshawar Pakistan.

	14. Two days international conference on “Advances in seed storage techniques” held on Apr 25-26, 2024 at Department of Agronomy, The University of Agriculture Peshawar Pakistan.								
NATIONAL CONFERENCES ATTENDED	1. 8th National Weed Science Conference 25-27 June, 2007 at Department of Botany, GCU Lahore. 2. 9th National Weed Science Conference 28-30 June, 2009 at Department of Weed Science, NWFP Agricultural University Peshawar. 3. National Seminar on Recent Trends in Agronomic Strategies for Further Green Revolution (May 2-3, 2012) held at the Department of Agronomy, KP Agricultural University Peshawar 4. 2nd Environmental Sciences Conference titled “Environment and Climate Change – Local Perspectives 2014” (June 4-6, 2014) held at Baragali Summer Campus. 5. National conference on “Innovative Technologies and Sustainable Development in Agriculture” (August 19-22, 2014) held by AUTA at Summer Campus, Bara Gali, University of Peshawar. 6. 3-days National conference on “Thinking Climate Change Adaptation in Water and Farming” THINK – ADAPT, 2016 (November 28-30, 2016) held by Climate Change Center of The University of Agriculture, Peshawar. 7. Two days national conference on “Climate Smart Agriculture and Crop Modeling” (April 18-19, 2018) organized by Dept. of Agronomy, The University of Agriculture Peshawar. 8. Two days national conference on “Beneficial Microbes and Sustainable Crop Production” (Feb 19-20, 2020) organized by Dept. of Agronomy, The University of Agriculture Peshawar. 9. 16th National Weed Science Conference (July 08-10, 2021) at the Department of Weed Science and Botany, The University of Agriculture Peshawar. 10. 17th National Weed Science Conference 27-28 June 2022, organized by the Weed Science Society of Pakistan at the University of the Punjab, Lahore.								
AS ORGANIZER CONFERENCES/ TRAININGS	1. Poster Competition on Wild Flowers (April 25, 2013) at Department of Weed Science, The University of Agriculture Peshawar 2. National Workshop on “Data Presentation and Interpretation for Effective Publication” (Mar 20, 2018) at Abdul Wali Khan University Mardan 3. National Workshop on “Developing Research Skills and Data Management” (Apr 4-5, 2019) at Abdul Wali Khan University Mardan 4. 17th National Weed Science Conference (June 27-28, 2022) organized by the Weed Science Society of Pakistan at the University of the Punjab, Lahore. 5. Three days international conference on “Food Security through Sustainable Agriculture Strategies in the Current Climate Change Scenario” (March 08-10, 2023) held at the University of Agriculture Peshawar Pakistan 6. Two days international conference on “Advances in seed storage techniques” held on Apr 25-26, 2024 at Department of Agronomy, The University of Agriculture Peshawar Pakistan. 7. One day awareness seminar on “Cryptic endo-parasitic nematode species associated with citrus, tomato, and cucumber and their management through a novel systemic nematicide, Vaniva 450 SC” held on 10.6.2024 at Main Auditorium UAP, sponsored by Syngenta Pakistan and organized by Department of Plant Pathology, UAP 8. Two days international conference on “Climate-Smart Solution for food security, sustainable agriculture, seed production and storage” (April 29-30, 2025) held at the Department of Agronomy, the University of Agriculture Peshawar Pakistan								
HEC Approved Supervisor	HEC approved PhD supervisor vide letter no. HEC/HRD/ASA/2020/44974 dated 29-5-2023								
RESEARCH INTERESTS	<table border="0"> <tr> <td>Integrated Weed Management</td><td>Crop-Weed Interactions</td></tr> <tr> <td>Population Dynamics and Weed Demography</td><td>Weed Ecology</td></tr> <tr> <td>Ethno-botany</td><td>Medicinal herbs (weeds)</td></tr> <tr> <td>Herbicides and crops</td><td>Herbicide drift analysis</td></tr> </table>	Integrated Weed Management	Crop-Weed Interactions	Population Dynamics and Weed Demography	Weed Ecology	Ethno-botany	Medicinal herbs (weeds)	Herbicides and crops	Herbicide drift analysis
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Population Dynamics and Weed Demography	Weed Ecology								
Ethno-botany	Medicinal herbs (weeds)								
Herbicides and crops	Herbicide drift analysis								
DISTINCTIONS/ AWARDS/ HONORS	1. Bronze Medal in Faculty of Crop Protection Sciences in B.Sc. (Hons). 2. 1st Position in the Department in B.Sc. (Hons) 3. Achieved 7th position in the top 10 winners quota for agriculture all over Pakistan in the contest on Sep 13, 2004 for the 200 PhD Merit Scholarship Scheme in Science and Technology launched by HEC. 4. Awarded shield in recognition of being the “REVIEWER of International Journal of Agricultural and Environmental Research” by VC AWKUM Prof. Dr. Khurshid Khan								

FELLOWSHIPS	1. HEC Merit Scholarship for PhD in Science & Technology (Sep 2004) 2. International Research Support Initiative Program (IRSIP) Fellowship by HEC to Ohio State University (USA) (March – August 2008) 3. Post Doc Fellowship Program (Phase III) Batch-I by HEC Pakistan (selected vide letter no. 3-1/PDFP/HEC/2020/413 dated 19-3-2020) for Ohio State University (Jun 2021 – Feb 2022)	
TRAVEL GRANTS	1. HEC Travel Grant of Rs. 94760/- for International symposium on dry land ecology and human security (ISDEHS) in Dubai UAE (December 4-7, 2006). 2. HEC Travel Grant of Rs. 102,400/- for 21 st Asia Pacific Weed Science Conference in Colombo Sri Lanka (Oct 2-6, 2007). 3. HEC Travel Grant of Rs. 212,400/- for 6 th International Weed Science Congress in Hangzhou China (June 17-22, 2012).	
AUTHOR OF MONOGRAPHS / BOOKS/ BOOK CHAPTERS	1. Monograph (2008): <i>Title:</i> Interference of <i>Xanthium strumarium</i> L. with Maize at Various Densities <i>Authors:</i> Zahid Hussain and Khan Bahadar Marwat <i>Publisher:</i> VDM Verlag Dr. Müller GmbH & Co. KG, Germany; (Project No. 44368 and ISBN 978-3-639-35163-7) Online link: http://www.amazon.com/Interference-Xanthium-strumarium-Variou-Densities/dp/3639351630 2. Book chapter (2022): <i>Chapter title:</i> Effects of mulching practices on the management of weeds <i>Authors:</i> Zahid Hussain and Luqman <i>Book title:</i> Mulching in Agroecosystems (Plants, Soil and Environment) <i>Editors:</i> K. Akhtar, M. Arif, M. Riaz and H. Wang <i>Print ISBN:</i> 978-981-19-6409-1; <i>Online ISBN:</i> 978-981-19-6410-7 Citation: Hussain, Z., Luqman (2022). Effects of Mulching Practices on the Management of Weeds. In: Akhtar, K., Arif, M., Riaz, M., Wang, H. (eds) Mulching in Agroecosystems. Springer, Singapore. Pp. 135-150. (doi.org/10.1007/978-981-19-6410-7_9) Online link: https://link.springer.com/chapter/10.1007/978-981-19-6410-7_9	
OTHER SKILLS & HOBBIES etc.	Weeds Identification Multi-Lingual (English, Arabic, Urdu, Persian, Pashto) Sports (Cricket, Soccer, Badminton and Table Tennis)	Reading News Papers and Books Traveling Social integration
CO-CURRICULAR CERTIFICATES HELD	Ohio State University (USA) Experience ALP Project Experience PSF Project experience Tafseer Certificate (Imdadul Uloom) B.Sc. (Hons) Distinction Certificate (Deptt.) English Language Course (Advance II) Certificate	Merit Certificate (University) English Proficiency Wild flowers contest Hifz Certificate (Wifaq-ul-Madaris)
COMPUTER KNOWL	Office automation Windows (All types) Statistical softwares	MS Office Internet Operating computer softwares in applied research
RESEARCH PROJECTS	Completed Projects 3 <i>National 3</i> <i>As Principal Investigator 2</i> 1. Title: <i>Environment friendly weed management in vegetables</i> Project No. 20-2332/NRPU/R&D/HEC/13 Total approved amount: Rs. 2.217 millions Funding Agency: Higher Education Commission Pakistan Project start: March 01, 2014 Project end: Feb 28, 2017 Status: Completed (Completion Certificate received from HEC) 2. Title: <i>Weed seed bank studies in wheat and maize growing areas of KP for sustainable weed management and soil fertility</i> Project No. 20-5142/NRPU/R&D/HEC/14	

	Total approved amount: Rs. 3.9417 millions Funding Agency: Higher Education Commission Pakistan Project start: June 01, 2016 Project end: May 31, 2019 Status: Completed (Completion Certificate received from HEC) <i>As Co-Principal Investigator 1</i> 3. Title: <i>Management of wild onion and other associated weeds for long term control policy in Khyber Pakhtunkhwa, Pakistan</i> Project No. 20-4477 /NRPU/R&D/HEC/14 Total approved amount: Rs. 1.50 millions Principal Investigator: Dr. Imtiaz Khan, Associate Professor, Weed Science, UAP Funding Agency: Higher Education Commission Pakistan Project start: May 01, 2015 Project end: April 30, 2018 Status: Completed (Completion Certificate received from HEC) <i>International 0</i> Submitted Projects 4 <i>National 4</i> <i>As Principal Investigator 2</i> 1. Title: <i>Enhancing wheat and maize yields under weed competition in a changing climate in the agro-ecological conditions of Khyber Pakhtunkhwa, Pakistan</i> Funding Agency: UAP Endowment Fund (Call for Proposals) Status: Submitted on 6.2.2025 2. Title: <i>Optimization of wheat and maize yields under weed competition in a changing climate in the agro-ecological conditions of Khyber Pakhtunkhwa, Pakistan</i> Funding Agency: NRPU HEC Status: Submitted on 16.2.2025 <i>As Co-Principal Investigator 2</i> 3. Title: <i>Sustainable weed management in chickpea (Cicer arietinum L.) in rain-fed areas of Khyber Pakhtunkhwa, Pakistan</i> Funding Agency: UAP Endowment Fund (Call for Proposals) PI: Prof. Dr. Ijaz Ahmad Khan, Professor, Dept. of Weed Science and Botany Status: Submitted on 6.2.2025 4. Title: <i>Utilization of Bagasse biofuel pellets for Tobacco curing in Khyber Pakhtunkhwa, Pakistan</i> Funding Agency: UAP Endowment Fund (Call for Proposals) PI: Dr. Haroon Khan, Associate Professor (Tenured), Dept. of Weed Science and Botany Status: Submitted on 22.2.2025 <i>International 1</i> <i>As Principal Investigator 1</i> 5. Title: <i>Impacts of climate change on major agricultural crops in Swat (a higher altitudinal area of Khyber Pakhtunkhwa, Pakistan) and the anticipated future trends</i> Funding Agency: SANDEE, ICIMOD Status: Submitted on 24.5.2023
STUDENTS SUPERVISED	Bachelor of Science – Honors (B.Sc. - Hons) Major Advisor (Weed Science) (total 14 graduates) 1. Muhammad Ahmad Ali (2010) Survey on weed problems in wheat, maize and potato crops in district Buner (completed). 2. Abdul Majid Khan (2011) Studies on weed seed bank of new developmental farm of Agricultural University Peshawar Pakistan (completed) 3. Luqman (2012) Integrated weed management in bitter melon in the agro-ecological conditions of Peshawar (completed) 4. Yasir Abbas (2015) Indigenous knowledge of the farming community in district Swabi Pakistan regarding weed flora in Pakistan (completed). 5. Ihsanullah Umar (2015) Weed flora of district Swat Pakistan as per indigenous

	knowledge of the local farming community (completed) - Izaz Ali Shah (2016) Indigenous knowledge of the farming community in district Nowshera Pakistan regarding flora in wheat and maize crops (completed) - Muhammad Aftab (2018) Weed seed bank studies in wheat and chickpea fields (completed) - Rashid-ur-Rehman (2018) Weed seed bank studies in oat and rapeseed fields (completed) - Jawad Gul, class no. 256 (2019) Investigating the indigenous knowledge of the farming community of district Malakand regarding crops and weeds (Completed) - Aqib Javed, class no. 433 (2020) Indigenous knowledge of local farming community of district Swabi regarding medicinal plants and their associated weeds (Completed). - Umair Firdos, class no. 528 (2021) Indigenous knowledge of the farming community in district Mardan regarding weed flora in wheat and maize crops (Completed) - Muhammad Bilal, class no. 176 (2022) Evaluation of weed free and weed infested conditions for performance of maize in maize-legume intercropping (Completed) - Mian Ahmad Ullah Jan (2024) Impact of various irrigation regimes and fertilizer on growth of wild plants under arid climatic conditions (completed) - Sabi Ullah Khan (2025) Exploring the indigenous knowledge of the farming community in District Bannu Khyber Pakhtunkhwa Pakistan (completed) Major Advisor (Botany) (Total 1 graduate) - Ibad Ullah (2024) The indigenous knowledge of the farming community of district Charsadda regarding their major crops, weed infestation and other agricultural issues. Co-advisor with Bachelor's degree students of other departments (total 7 graduates) Department of Agronomy - Hazrat Amin (2014) Response of maize to organic and inorganic sources of nutrients (completed) M. Siraj ul Haq (2014) Effect of residual biochar, FYM and N on mungbean (completed) - Muneeb Ahmed (2014) Effect of residual biochar, FYM and N on maize yield and soil physiochemical properties (completed) Department of Horticulture - Lajbar Khan (2014) Importance value indices of various weeds and their management in turf grass (completed) Department of Soil and Environmental Sciences - Javed Khan (2015) Effect of irrigation and various levels of nitrogen and phosphorus fertilizers on maize crop (completed) University of Peshawar, Department of Environmental Science M. Nasir Afridi (2014) Pesticides and their registration process in KP (completed) - Ajbar (2014) Pesticides & their registration process in Khyber Pakhtunkhwa (completed) Master of Science - Honors (M.Sc. - Hons) in Weed Science Chairman supervisory committee (total 7 postgraduates) - Shah Fahad (2012) Comparative study of cultural and chemical weed control methods in wheat crop (Completed) - Abrar Ahmad (2014) Effect of plant population and mulching on weeds and onion crop (Completed) - Zafar Ali (2014) Cultural weed management in potato (Completed) - Abdul Majid Khan (2014) Soil seed bank analysis of different districts of Parthenium infested areas of Pakistan (completed) - Luqman (2014) Effect of different sowing geometry and weed control strategies on yield and yield components of onion (completed) - Ranra (2021) Allelopathic effect of aqueous extracts of weeds on medicinal plants and their associated weeds (Completed) - Shuja Ullah (2022) Weed detection, identification and management using artificial intelligence in wheat crop (Completed) - Zahoor-ul-Islam (2024) Efficacy of different tillage implements and weed control treatments on yield and yield components of sunflower (Synopsis approved) Member Major field (total 5 students) - Rahamdad Khan (2011) Weed control efficiency of bio-herbicides and their impact on growth of wheat crop (Completed)
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	2. Muhammad Haroon (2014) Weed density and strawberry yield as affected by herbicides and mulching techniques (Completed) under supervision Dr. M. Saeed 3. Mudassir (2021) Evaluation of different weed management techniques on weed control and yield of wheat (<i>Triticum aestivum</i> L. crop) under supervision of Dr. Shahida Bibi (completed) 4. Muhammad Badar Ijaz (2023) Performance of maize-legume intercropping under weed free and weed infested conditions, under supervision of Prof. Dr. M. Azim Khan 5. Meher Ali (2024) Effect of different herbicides and plant extracts on yield and yield components of canola cultivars under supervision of Prof. Dr. Ijaz Ahmad Khan (Thesis approved) Member Minor field Department of Agronomy (total 22 students) 1. Sulaiman Khan (2016) Effect of different levels of humic acid and phosphorus on yield and yield components of wheat varieties, under supervision of Dr. Asim Muhammad (Completed) 2. Afza Tabassum (2016) (Effect of sorghum extract concentration in combination with herbicide application times on weed density and yield of wheat), under supervision of Prof. Dr. Shad Khan Khalil (Completed) 3. Kamran Akhtar Awan (2016) Yield comparison of wheat varieties by planting intervals under rain-fed conditions, under supervision of Prof. Dr. Muhammad Akmal (Completed) 4. Muneeb Ahmad (2016) Effect of successive planting and weed control at different ages of maize, under supervision of Prof. Dr. Habib Akbar (Thesis approved). 5. Wasim Ali (2017) Response of maize hybrid to reduce and left over levels of nitrogen, phosphorus and zinc in cereal legume cropping system, under supervision of Prof. Dr. Shad Khan Khalil (Completed) 6. Zahir Hussain (2017) Effect of crop residue and sulfur on the performance of Sesame under Prof. Dr. Amanullah Jan (Completed) 7. Said Badshah (2017) Effect of irrigation, potassium and nitrogen levels on maize, under supervision of Prof. Dr. Shad Khan Khalil (Completed 2017) 8. Muhammad Suleman (2017) Salicylic acid seed priming and sowing dates effect on yield and yield components of barley, under supervision of Dr. Asim Muhammad (Completed) 9. Muhammad Hamid (2017) Effect of beneficial microbes, humic acid and farmyard manure on yield and yield components of wheat, under supervision of Prof. Dr. Shad Khan Khalil (Completed) 10. Muhammad Sohail (2017) Influence of pre-sowing techniques on growth and yield of spring maize, under supervision of Prof. Dr. Amir Zaman Khan (synopsis approved) 11. Adeel Liaqat (2018) Effect of fresh and composted poultry manure, urea and beneficial microbes on yield and yield components of wheat, under supervision of Prof. Dr. Shad Khan Khalil (Thesis Completed) 12. Ata ur Rahman (2018) Improving wheat yield and soil fertility through organic and inorganic soil amendments, under supervision of Prof. Dr. M. Arif. (Completed) 13. Muhammad Atif (2019) Effect of poultry manure and different levels of humic acid on growth and yield of wheat, under supervision of Prof. Bashir Ahmad (Completed) 14. Bilal Shah (2021) De-husking and nitrogen management effects on maize yield, under supervision of Habib Akbar (Completed) 15. Younis Jan (2021) Effect of rice straw mulching and N-fertilizer on soil fertility and wheat productivity, under supervision of Dr. Ahmad Khan (Completed) 16. Muhammad Ibrahim (2022) Response of wheat to sowing dates and seed priming, under supervision of Dr. Shahen Shah (Thesis approved) 17. M. Ahmad Saleem (2023) The role of bioaab in mineral nitrogen availability from manure for improving wheat production under different irrigation levels, under supervision of Prof. Dr. Ahmad Khan (Synopsis approved) 18. Shamsur Rehman (2024) Spring maize response to stimulated nitrogen availability from farmyard manure with vermicompost, under supervision of Prof. Dr. Ahmad Khan (Thesis approved) Department of Entomology 19. Asim Iqbal (2016) Effect of weed extracts, synthetic insecticides and ash against red pumpkin beetle (<i>Aulacophora foveicollis</i>) on snake melon (<i>Cucumis melo</i>), under
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	supervision of Dr. Amjad Usman Department of Agricultural Extension Education and Communication 20. Ishtiaq Ahmad (2017) Performance of Model Farm Centers in getting extension to farmers of Lakki Marwat district, under supervision of Prof. Dr. Iftikhar Ahmad (Completed) Department of Horticulture 21. Lajbar (2017) Effect of IBA, planting time and cuttings on rooting of Rangoon Creeper (<i>Quisqualis indica</i>) under supervision of Prof. Dr. Noorul Amin Department of Agric chemistry and Biochemistry 22. Anis-ur-Rehman (2023) Evaluation of allelopathic effect of selected plants extracts on some crops and weeds as bio-herbicides, under supervision of Zafar Ali Shah (completed) Master of Philosophy (MPhil) in Botany Major supervisor in Weed Science department 1. Asma Mehmood (2014) Evaluation of the allelopathic potential of some common grassy and broad leaf weeds against economic Kharif crops (synopsis approved) Co-Supervisor in other departments or universities (total 7 students) Dept. of Botany, Qurtuba University of Science & IT 1. Sawera (2018) Evaluation of phytotoxic effect of <i>Cynodon dactylon</i>, <i>Silybum marianum</i> and <i>Sorghum halepense</i> on Okra (MPhil completed) 2. Sana Shafee (2018) The allelopathic potential of <i>Ammi visnaga</i>, <i>Chenopodium murale</i> and <i>Rumex crispus</i> on bitter gourd (MPhil completed) 3. Roqia Shahzad (2018) Allelopathic effect of <i>Ficus carica</i> on <i>Triticum aestivum</i> (MPhil completed) 4. Sajeela Sami (2018) Inhibitory effect of <i>Parthenium hysterophorus</i> L, <i>Convolvulus arvensis</i> L. and <i>Medicago denticulata</i> Wild. on <i>Pisum sativum</i> in District Charsadda (MPhil completed) 5. Saira Siyar (2018) Germination and growth response of wheat (<i>T. aestivum</i>) to aqueous extracts of problematic weeds (MPhil completed) 6. Lubna Jamil (2019) Allelopathic potential of <i>Canabis sativa</i>, <i>Ammi visnaga</i>, <i>Sonchus oleraceus</i> on Brassica species (MPhil completed) 7. Asma Nawaz (2020) Allelopathic potential of <i>Soliva sessilis</i> on wheat (<i>Triticum aestivum</i> L.) Varieties (MPhil completed). Doctor of Philosophy (PhD) Chairman supervisory committee (total 1 PhD produced) 1. Luqman (2021) Integrated effect of tillage depths and weeding regimes on yield components, nutritional status and weeds of maize crop (Completed) Member major field (total 2 students) 2. Abdul Majid Khan (2022) Integration of different weed management approaches in wheat under rainfed conditions, under supervision of Dr. Imtiaz Khan (Completed) 3. Shah Fahad (2022) Investigation and confirmation of herbicide resistance in <i>Phalaris minor</i> Retz. in wheat crop of Khyber Pakhtunkhwa Pakistan, under supervision of Dr. Saima Hashim (Completed) Member minor field (total 3 students) Department of Agronomy 4. Izaz Hussain (2020) Effect of beneficial microbes, humic acid, and farmyard manure on yield and yield components of maize, under supervision of Dr. Ahmad Khan (Completed) 5. Sajid Khan (2023) Weed productivity and soil fertility in response to stimulated manure decomposition under supervision of Dr. Ahmad Khan (completed) Department of Agricultural Mechanization 6. Subhan Uddin (2022) Impact of mechanical and chemical weed control on yield and yield components of maize in Peshawar, Pakistan, under supervision of Dr. Mansoor Khattak (Completed).
NATIONAL AND INTERNATIONAL PUBLICATIONS	Impact Factor: 41 publications (in 16 different international impact factor journals) Non-impact Factor: 83 publications (in HEC recognized national and international journals) Total publications: 124
TOTAL IMPACT FACTOR	36.15 from 41 articles ✓ 20.73 from 23 articles prior to HJRS

	✓ 15.25 from 17 articles (July 01, 2020 to Sep 30, 2024 - after HJRS implementation) ✓ 00.17 from 01 article (After July 01, 2024 – new HEC Policy)
CITATIONS / H-INDEX / I-10 Index	As on Oct 22, 2025 All citations: 2672 Citations since 2020: 1491 H-Index: 029 H-Index since 2020: 019 I10-Index: 073 I10-Index since 2020: 043 https://scholar.google.com/citations?hl=en&user=5heER8QAAAAJ
REFERENCES	
1. Prof. Dr. Ijaz Ahmad Khan (Pakistan) Chairman Department of Weed Science and Botany The University of Agriculture Peshawar Office (Ph): +92 91 9221335 Cell: +92 333 9297911 Email: ijazahmadk@aup.edu.pk 2. Prof. Dr. Muhammad Arif (Pakistan) Chairman Department of Agronomy The University of Agriculture Peshawar Office (Ph): +92 91 9221262 Cell: +92 333 9348849 Email: marifkhan75@aup.edu.pk 3. Prof. Dr. Douglas J. Doohan (USA) Department of Horticulture & Crop Science, Ohio State University, USA Ohio Agricultural Research & Development Center Wooster, OH 44691, USA Office (Ph): +1 (330) 202-3593 Cell: +1 (330) 466-4023 Email: doohan.1@osu.edu 4. Prof. Dr. John Cardina (USA) Department of Horticulture & Crop Science, Ohio State University, USA Ohio Agricultural Research & Development Center (OARDC), Wooster, OH 44691, USA Cell: +1 (330) 466-6531 Emails: JCardina99@outlook.com, cardina.2@osu.edu,	