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Key Qualification:

Rich experience in rural development, agriculture extension, agriculture production technology, trainings and capacity building, development of Instructional Material and Training Manuals/Modules, participatory development, social mobilization, community organization, research impact studies, proposal writing and project designing. The beneficiaries of these programs are senior and mid-level professional of Government Departments, National Integrated Pest Management Program, Malakand Rural Development Programs, Best Agricultural Practices project CABI South Asia, Japan Emergency NGO (JEN), PMAS- Arid Agriculture University Rawalpindi and The University of Agriculture Peshawar.

Academic Qualification:

Certificate/ Degree	Year	Institution
Ph.D Agricultural Extension Education & Communication	2015	The University of Agriculture Peshawar Pakistan.
M.Sc (Hons) Agricultural Extension Education & Communication	2006	The University of Agriculture Peshawar Pakistan.
B.Sc (Hons) Agriculture (Horticulture)	2004	The University of Agriculture Peshawar Pakistan.
H.S.S.C (Pre Engineering)	1999	Peshawar public school and college Peshawar Pakistan
S.S.C (science group)	1997	Islamia collegiate school Peshawar, university of Peshawar Pakistan

Languages:

Pashto	Mother Tongue
Urdu	National Language
English	Good
Arabic	Can Read Only

Professional Experience:

1. Lecturer and Host of Radio FM 100.4

October 2017 to Date

Department of Agricultural Extension Education and Communication

The University of Agriculture Peshawar

2. Assistant Professor

May 2016 to September 2017 (Visiting)

April 2015 to April 2016 (IPFP)

PMAS- Arid Agriculture University Rawalpindi

Assignments:

- Review and develop course of studies for Graduate and Post Graduate students
- Teaching Extension to Graduate and Post Graduate Classes
- Guidance in field application of study courses
- Guidance and counseling of students in research studies
- Inputs in curriculum development
- Development of students' Progress assessment tools
- Counseling in carrier development of students

3. Lecturer

January to June 2012 and January to December 2014

Department of Agricultural Extension Education and Communication

The University of Agriculture Peshawar

Assignments:

- Teaching Extension to Graduate Classes
- Guidance in field application of study courses
- Guidance and counseling of students in research studies
- Inputs in curriculum development
- Develop students' Progress assessment tools
- Counseling in carrier development of students

4. Agriculture officer

January 2011 to July 2011

Japan Emergency NGO (JEN).

Assignments:

- Assessment of eligibility of beneficiary for the package of seeds and fertilizers
- Production of training manuals
- Organize and conduct pre and post-harvest training for farmers
- Monitor project activities
- Hold regular meeting with stakeholders
- Produce periodic progress reports
- Produce end of assignment report

5. Landscape Designer

January to December 2008

Heavenscape Consultants Peshawar

Assignments:

- Respond to landscaping needs of the client's needs.
- Installation of irrigation system as per need
- Meet the needs for indoor and outdoor plants
- Provide guidance in designing and maintenance
- Provide support and guidance in fixation of carpeting and plugging grass

6. Expert Field Facilitator

June to December 2007

Best Agricultural Practices, CABI South Asia Project

Assignments:

- Design and conduct training for technical and supervisory staff.
- Prepare and implement work plans
- Facilitate in time supply of inputs to farmers
- Facilitate efficient running of FFS
- Provide guidance on FFS establishment, site sections, levels, Irrigation, and individual and group work tasks;
- Together with the project technical, administrative and financial staff, participate in the following activities relating to work supervision:
 - ✓ Maintain measurement and expenditure records
 - ✓ Verify work volumes and farmers attendance
 - ✓ Carry out regular site inspections
 - ✓ Monitor critical construction activities; such as AESA and presentation.
- Contribute to maintaining an effective organizational and administrative framework
- Preparation of project progress reports.
- Ensure that required periodic reports on the TOF, FFS operations and related activities are made and submitted to concerned quarters

7. Area Sale Development Manager

January 2006 to May 2007

Chinar Agro Trade Pakistan

Assignments:

- Attend farmers meeting and build the capacity of farmers in use of pesticides
- Help the farmers in the identification of crops disease.
- Guide in the identification of useful and harmful insects and their management
- Collection and Rearing of the insect pests.
- Help farmers to identify life pattern of the insect pests.

8. Facilitator

August to December 2005

National Integrated Pest Management Program

Assignments:

- Investigation into farmer's crop production practices involving field observations, surveys and interviews
- Assistance in the Design, Planning and Implementation of the field activities including Research trials and demonstration on the farmer's fields
- Monitoring and evaluation of the field activities i.e. trials, demonstrations
- Training of farmers in participatory planning and on-farm research activities
- Computerizing and analysis of the Data.
- Assistance in Organizational aspects i.e. mobilization of farmers for adoption of new FFS improved technology and formation of Farmer's Users Groups.
- Recording case studies

9. Facilitator

April to August 2005

Best Agriculture Practice Project (BAP) Sponsored By MRDP

Assignments:

- Ensuring implementation of various IPM participatory tools and techniques developed in FFS which includes
- Capacity Building of TOF, Farmers and emergence/development and strengthening of VOs.
- Participation of people in or composition of the VOs.
- Establish Coordination between the SOUs and VOs
- Guide farmers in the establishment of Community Village Organization and FFS in BAP
- Support community in formulation of Community Action Plans incorporating community needs and priorities.
- Guide in the formation of Village Committees and its roles and responsibilities.
- Documenting field experiences, good practices, Lessons learnt during course of implementation.

Trainings/Workshops attended and conducted

S.NO	Kind Name of Training/Workshop	When	Where
1.	Participatory Rural Appraisal	Oct 2006	Swat
2.	Participatory Reflection and Action	Jun 2007	Swat
3.	Landscape designing	Jan 2009	Peshawar
4.	Research Methodology of Sustainable Rural Development	Oct 2010	Peshawar
5.	Methodologies for Participatory Assessment	April-Nov, 2005	Project for BAP Malakand (Pakistan)

6. Successfully conducted the technical session in the training of Facilitator (ToF) in the Farmer Field School (FFS) Approach as Resource Person
Implemented by: Department of Agricultural Extension Education and Communication, The University of Agriculture Peshawar
In Collaboration with: Food and Agriculture Organization of the United Nations from 24th June to 5th July, 2019.
7. Successfully coordinated the training of Facilitator (ToF) in the Farmer Field School (FFS) Approach as Resource Person
Implemented by: Department of Agricultural Extension Education and Communication, The University of Agriculture Peshawar
In Collaboration with: Food and Agriculture Organization of the United Nations from 10th June to 21st June, 2019.
8. Successfully coordinated the training of Facilitator (ToF) in the Farmer Field School (FFS) Approach as Resource Person
Implemented by: Department of Agricultural Extension Education and Communication, The University of Agriculture Peshawar
In Collaboration with: Food and Agriculture Organization of the United Nations from 22nd April to 3rd May, 2019.
9. Successfully coordinated the training of Facilitator (ToF) in the Farmer Field School (FFS) Approach as Resource Person
Implemented by: Department of Agricultural Extension Education and Communication, The University of Agriculture Peshawar
In Collaboration with: Food and Agriculture Organization of the United Nations from 24th June to 5th July, 2019.
10. Conducted FFS training session on development of onion and tomato pocket areas in Bajour and Mohmand Districts on 25th November 2021.

Publications:

National:

1. Mubashir Habib, Muhammad Zafarullah, **Mahmood Iqbal** *et al.* 2007. Effect of farmer field schools on sugarcane productivity in Malakand Agency, Pakistan. Sarhad j. Agric. Vol.23 (4): 1133-1137.
2. Urooba Pervaiz, Dawood Jan, Muhammad Zafarullah Khan, **Mahmood Iqbal** *et al.* 2011. Disbursement of agricultural loans, constraints and its future policy implication. Sarhad j. Agric. Vol.27, No.2.
3. **Mahmood Iqbal**, Khalid Nawab *et al.* 2012. Farmers field schools and rice productivity: An empirical analysis of district Malakand. Sarhad j. Agric. Vol.28, No.1.
4. **Iqbal. M** and K. Nawab. 2013. Farmers Field Schools and bitter gourd productivity: An empirical analysis of district Charsadda, Khyber Pakhtunkhwa-Pakistan. Sarhad J. Agric. 29(4): 599-605
5. Irsa Saleem, Badar Naseem Siddiqui, **Mahmood Iqbal** and M. Rameez Akram, 2016. Competency of the Punjab Agricultural helpline (PAH) experts. Journal of Agric. Res., Vol. 54 (4): 839-849

6. Pervaiz. U., A. Salam., D. Jan., A. Khan and **M. Iqbal**. 2018. Adoption constraints of improved technologies regarding tomato cultivation in district Mardan, KP *Sarhad Journal of Agriculture*, 34(2): 428-434.
7. Khan, A., Z. A. Khan, U. Pervaiz and **M. Iqbal**. 2019. Extension agent's perceptions regarding constraints to adoption of improved agricultural practices by farmers. *Sarhad Journal of Agriculture*, 35(2): 342-348.
8. W.S., I. Ullah, A. Ali, **M. Iqbal** and S. Khan. 2019. An analysis of allocative efficiency of growing onion in district Swat Khyber Pakhtunkhwa. *Sarhad Journal of Agriculture*, 35(4): 1185-1191
9. Khan, A., Asmatullah, U. Pervaiz, K. Nawab and **M. Iqbal**. 2021. Organic farming practices using EM-Technology in Malakand Division- Khyber Pakhtunkhwa. *Pakistan Journal of Agricultural Research*, 34(4): 846-853.
10. Bugti. M. J. K, R. Ullah, M. Rasheed, S. Shah, A. Muhammad, I. Ullah, A. Hakeem, **M. Iqbal** and G. Liaquat. 2025. Comparative Analysis of Profitability of Wheat and Chickpea in District Dera Bugti Balochistan. *Planta Animalia*. 4(6). 111-118. ISSN: 2958- 003(Online), 2958-6011.
11. Nawab. K., Burhanullah, **M. Iqbal**, U. Pervaiz and T.. 2025. Role of Agricultural Extension Worker in Improving Livelihood of Small Farmers in Kama District Afghanistan. *Social Science Review Archives*. 3(4): 3192-3199.
12. Nawab. K., T. Rahim, S. Ullah, **M. Iqbal**, S. Zaman and R. Ullah. 2025. Assessing the Effects of Climate Change on Wheat Cultivation, Production Constraints, and Extension Services in North Waziristan. *Social Science Review Archives*. 3(4): 3383-3394.
13. Nawab. K., T. Rahim, S. Ullah, **M. Iqbal**, S. Zaman and T. Ahmad. 2025. Farmers' Perceptions of Livestock Extension Services in District Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan. *Review Journal of Social Psychology & Social Works*. 3(3):560-570.
14. Khalil. I., M. Ahmad, H. Ali, A. Sufyan, S. R. Ullah, S. S. Shah, A. Rehman and **M. Iqbal**. 2025. Influence of Zinc Nano-Particles and Bulb Size on the Growth and Flower Production of Tuberose. *Social Science Review Archives*. 3 (4): 3909-3917
15. Khan. Z., M. Ahmad, M. Abbas, Rahamdad, M. T. Awan, S. Razaullah, A. Sufyan and **M. Iqbal**. 2025. Effect of Willow Bark Extracts and Pinching On Performance of Flax (*Linum Grandiflorum*). *Social Science Review Archives*. 3 (4): 3984-3992.
16. Ullah. K, I. Haq and **M. Iqbal**. 2025. Linking Human Capital to Higher Income: A Comparative Evaluation of Public and Private Agricultural Extension for Small-Scale Maize Farmers' Livelihoods. *Physical Education, Health and Social Sciences*. 3 (4): 435-444
17. Javeid. S., **M. Iqbal**, S. Ullah, Burhanullah, T. Rahim. 2026. Comparative Study of Activities Conducted for Re-Strengthening of Community Based Organizations in District Bagh, Ajk. *Social Science Review Archives*. 4 (1): 647-653.

18. Khan. A. H., U. Pervaiz, **M. Iqbal**, R. Bibi, A. Wadood and N. Ullah. 2026. Impact of Agricultural Extension Services on Melon (*Cucumis melo* L.) Yield: An Analysis of Farmer Engagement and Technical Support Stages. *Physical Education, Health and Social Sciences*. 4 (1): 214-223
19. Pervaiz. U, R. Raiz, D. Jan, M. Z. Khan and **M. Iqbal**. 2026. Evaluating the Impact and Determinants of Agricultural Extension Services on Potato Farming in District Abbottabad, Khyber Pakhtunkhwa- Pakistan. *Social Science Review Archives*. 4 (1): 1377-1392.
20. Riaz. R., U. Pervaiz, D. Jan, M. O. Tahir, S. Jahangir and **M. Iqbal**. 2026. Empowering Farmers through Agricultural Extension: A Comparative Study of Yield Optimization and Resource Barriers in District Abbottabad Khyber Pakhtunkhwa. *Physical Education, Health and Social Sciences*. 4 (1): 322- 331.
21. Khan. A., H. Younas, A. Ali, I. Ullah and **M. Iqbal**. 2026. Examining Educational Disparities and Household Income Determinants in Pakistan: Evidence from Pslm 2019–2020. *Physical Education, Health and Social Sciences*. 4 (1): 575- 589.
22. Nadeem. H. M. U., M. H. Asadi, R. A. Khan, M. A. Naseer, H. Rashid and **M. Iqbal**. 2026. Impact Assessment of the ICT Enabled Program on Women's Empowerment in Agricultural Productivity. *Social Science Review Archives*. 4 (2): 2949-2957.

INTERNATIONAL:

1. Khalid Nawab, Tariq Kamal, Abdur Rab, Rahmatullah and **Mahmood Iqbal**. 2015. Effect of Irrigation on Chickpea Varieties Sown on Different Dates on Irrigated Fields of Bannu, Khyber Pakhtunkhwa, Pakistan. *Journal of Biology, Agriculture and Healthcare*. Vol.5, No.11: 37-42
2. Khan MRA, BN Siddiqui, **M Iqbal**, RM Aadil, MI Yousaf and R Muzamil, 2015. Identifying required competencies for new extensionists to fulfill the needs of farmers. *Inter J Ling Soc Nat Sci*, 1(1): 1-5.
3. Khalid Nawab, Muhammad Adrees, Rahmatullah, **Mahmood Iqbal** and Meena Akram. 2016. Investigation into Effectiveness of the Farmer Field School in Tomato Production in District Swat. *Journal of Natural Sciences Research*. 6 (5): 76-82
4. **Mahmood Iqbal**, Khalid Nawab and Rahmatullah. 2017. Analysis of Farmer Field School effect on tomato production in district Malakand, Khyber Pakhtunkhwa, Pakistan and teaching of Islam regarding Agriculture. *Al-Azhar*. 3 (2): 85-120.
5. Ayesha Khan, Zubair Ahmad Khan, Urooba Pervaiz and **Mahmood Iqbal**. 2019. Extension agent's perceptions regarding constraints to adoption of improved agricultural practices by farmers. *Sarhad Journal of Agriculture*. 35 (2):342-348. ISSN: 1016-4383 (Print), 2224-5383 (Online). DOI: <http://dx.doi.org/10.17582/journal.sja/2019/35.2.342.348.X>
6. Farooq Nawaz, Shazma Anwar, Salman Ali, Mehran Ali and **Mahmood Iqbal**. 2018. Evaluation of Sesame Phenology, Biological Yield Components and

- Seed Yield under Different Levels of Nitrogen and Sulfur Fertilization. *American-Eurasian J. Agric. & Environ. Sci.*, 18 (6): 363-370
7. Muhammad Zafarullah Khan, Abdul Khaliq, Rahmatullah, **Mahmood Iqbal**, Urooba Pervaiz, Ayesha Khan. 2019. Model farm service centers contribution in enhancing peach production: evidence from remote areas of Northern Pakistan. *International journal of biosciences*. 15 (1): 302-309.
 8. Ayesha Khan, Zubair Ahmad Khan, Urooba Pervaiz and **Mahmood Iqbal**. 2019. Extension agents perceptions regarding constraints to adoption of improved agricultural practices by farmers. *Sarhad Journal of Agriculture*. 35 (2):342-348. ISSN: 1016-4383 (Print), 2224-5383 (Online). DOI: <http://dx.doi.org/10.17582/journal.sja/2019/35.2.342.348.X>
 9. Muhammad Zafarullah Khan, Shah Saud Ahmad, Ayesha Khan, Urooba Pervaiz, Shah Saud, **Mahmood Iqbal** and Muhammad Arshad Farooq. 2020. Effect of Farm Services Center Approach on Yield of Selected Vegetables in District Charsadda. *International Journal of Agricultural and Environmental Research*. 6(3): 185-190.
 10. Summara Abbasi, Khalid Nawab, **Mahmood Iqbal**, Ayesha Khan, Urooba Pervaiz and Tariq Rahim. 2022. Impact of dairy technology adoption on the livelihood of rural milk producers in Muzaffarabad, Azad Jammu And Kashmir. *Journal of Xi'an Shiyou University, Natural Science Edition*. 18(10): 316 -328
 11. **Mahmood Iqbal**, Khalid Nawab, Ayesha Khan, Urooba Pervaiz, Moin Uddin Muhammad, Tariq Rahim, Amjid Khan and Tariq Khan, Naveed Ul Haq. 2022. Comparative Analysis of Productivity of Agricultural Research Farm of The University of agriculture Peshawar And Private Farms Of Union Council Palosi Peshawar. *Journal of Xi'an Shiyou University, Natural Science Edition*. 18(10): 305-315
 12. Saba Kabir, Khalid Nawab, **Mahmood Iqbal**, Ayesha Khan, Arbab Sahla, Tariq Rahim, Amjid Khan and Naveed Ul Haq. 2022. An investigation into the effect of farmer field school on onion productivity in district swat, Khyber Pakhtunkhwa. *Journal of Xi'an Shiyou University, Natural Science Edition*. 18 (10): 712-723
 13. **Mahmood Iqbal**, Khalid Nawab, Ayesha Khan, Muhammad Idrees, Urooba Pervaiz, Tariq Rahim, Amjid Khan and Naveed Ul Haq. 2022. Farmer field school and interaction of extension personnel with farmers, an analysis of district Charsadda. *Journal of Xi'an Shiyou University, Natural Science Edition*. 18 (10):724-743
 14. Khalid Nawab, **Mahmood Iqbal**, Muhammad Idrees, Tariq Ahmad, Tariq Rahim, Ali Haidar, Amjid Khan and Naveed Ul Haq. 2022. Saffron production in Afghanistan. *Journal of Xi'an Shiyou University, Natural Science Edition*. 18 (10):744-757
 15. Arbab Sahla, Khalid Nawab, **Mahmood Iqbal**, Saba Kabir, Waseem Ur Rahman, Tariq Rahim, Amjid Khan and Naveed Ul Haq. 2022. Role of agricultural extension services in enhancing kitchen gardening in district Peshawar. *Journal of Xi'an Shiyou University, Natural Science Edition*. 18 (10):785-804
 16. Muhammad Zafarullah Khan, Saddam Hussain, Urooba Pervaiz, Ayesha Khan, Tariq Ahmad, Shah Saud and **Mahmood Iqbal**. 2022. Farmers Perception about

Plant Protection Skills of Field Extension Workers in Enhancing Tomato Production of District Peshawar, Khyber Pakhtunkhwa, Pakistan. Open Global Scientific Journal 1 (2): 48-56

17. Urooba Pervaiz, Dawood Jan, Mehnaz Safdar, Ayesha Khan, Muhammad Zafarullah Khan and **Mahmood Iqbal**. (2023). Gender Discrimination in Extension Farmers Contact: An evidence from Khyber Pakhtunkhwa, Pakistan. *Journal of Xi'an Shiyou University, Natural Science Edition*. 19(3): 430-445. ISSN: 1673-064X. X
18. Ayesha Khan, Ghulam Farooq, Urooba Pervaiz, Muhammad Zafarullah Khan and **Mahmood Iqbal**. (2023). Identification of Factors Causing Communication Gap among Farmers, Extension Personnel and Researchers in Khyber Pakhtunkhwa-Pakistan: Farmer's Perspective. *Journal of Xi'an Shiyou University, Natural Science Edition*. 19(3):90-103. ISSN: 1673-064X. X
19. Zakirullah Jan, Shamsher Ali, Hafeez Ur Rahim, Waqas Ali Akbar , Adiba Khan Sehrish, Ali Taj, Tariq Rahim and **Mahmood Iqbal**. 2023. Cyanobacterial strains reclaimed induced-salinity stress attributes and improved the physicochemical properties of induced-saline soil. *Journal of Acta Ecologica Sinica*, <https://doi.org/10.1016/j.chnaes>. Pp: 1-6
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21. Ullah. K., I. Haq, M. Idrees, K. Nawab, and **M. Iqbal**. 2024. Problems faced by Extension Field Staff in the Application of Crop Management Practices for better Maize Crop in District Dir Upper. *International Journal of Forest Sciences*, 4: 59-64.
22. Shehzad. K., I. Haq., W. U. Rahman., R. Saqib., **M. Iqbal** and K. Ullah. 2025. Effectiveness of crop management practices for sustainable agriculture in north-west, Pakistan. *Contemporary journal of social science review*. 03 (02): 299-308

References:

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