

CV of Faheem Khan, PhD

Assistant Professor, PMAS Arid Agriculture University Rawalpindi

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Date of Birth: 01.01.1983. (Male)

CAREER SUMMARY

ACADEMIA

My expertise lies at the Agricultural Extension, Communication, farmers' behaviors, Innovation in Agricultural technologies and farming practices, Agricultural management, cropping systems and field survey. My research work address challenges and issues of farming communities and adaptation strategies and Agricultural field. I have applied my skills across dryland, and precision farming systems, contributing to food security and environmental sustainability through field. Passionate about digital agricultural technologies, I investigate digital agricultural technologies effects on farming practices. My goal is to improve resource-use efficiency and advance understanding of farmers' behaviors, digital agricultural technologies, farming practices, climate change, extreme weather, and management practices on agricultural systems at various scales. My research has been published in leading journals such as Spring, Elsevier, MDPI, Willey, MEDEYE and Pakistan Academy of Sciences. I have supervised / co-supervised 09 postgraduate students.

FIELDS OF EXPERTISE

- Precision farming, climate-smart agriculture, sustainable agriculture.
- Integrated water resources management and planning, drip management and land use management.
- Farm (irrigation and drip) system and management through Chinese Project.
- Collection of farmers' data through Field Survey, Computer programming (SPSS, MS office and Excile) and data analysis.
- Farming practices and Adoption strategies in Agricultural practices.
- Organizing farming communities for outreach activities.
- Research Farm management and manage research activities of research scholars

EDUCATION

PhD	The University of Agriculture, Peshawar, Pakistan Agricultural Extension Education & Communication, (Agricultural Extension Services and Crop Productivity)	Nov 2015

Thesis: Role of Agricultural Extension Services in Sugarcane Production.

Master	The University of Agriculture, Peshawar, Pakistan Agricultural Extension Education & Communication, (Agricultural Extension Services and Crop Productivity)	May 2010
Bachelor	The University of Agriculture, Peshawar, Pakistan Agricultural Extension Education & Communication	Feb 2006

GRANTS (03)

- Commercial Extract of Brassica Oil at University Research Farm Chakwal Road (As **PI**) (2024-2025).
- Formulation and Field Evaluation of Bioactive Compost Pellets from Restaurant Food Waste (As **Co-PI**) (2023-2026)
- Farmers' Facilitation Camp- 2023 at University Research Farm, Koont, PMAS AAUR (As **PI**) (2024-2025)

TEACHING EXPERIENCE

Visiting Faculty Member As Assistant Professor (2016 to 2022)

PMAS Arid Agriculture University Rawalpindi, Pakistan

Postgraduate: Agricultural Extension and Communication, Research Methods, Human Resource Development, Agricultural Extension Methods and Rural Development (2016-2022, Agri. MSc (Hons.)
Undergraduate: Digital Agricultural, Agricultural Communication and Adult Education ((2016-2022, Agri. MSc (Hons.)

Assistant Professor (on TTS) (2022 to till date)

PMAS Arid Agriculture University Rawalpindi, Pakistan

Postgraduate: Agricultural Extension and Communication, Research Methods, Human Resource Development, Agricultural Extension Methods and Rural Development (2016-2022, Agri. MSc (Hons.)
Undergraduate: Digital Agricultural, Agricultural Communication and Adult Education ((2016-2022, Agri. MSc (Hons.)

THESIS SUPERVISION (09)

1) Irshad Ahmed. Examining Wheat Farming Practices Adapted For Climate Change toward Food Security in Pothwar Region of Punjab, Pakistan. **2023**. Agri. M. Sc. (Hons.) **Thesis**. PMAS Arid Agriculture University Rawalpindi, Pakistan.
2) Ehsan Imran. Analyzing Catastrophic Flood on Livestock Farming Communities of Southern Punjab, Pakistan. **2023**. Agri. M. Sc. (Hons.) **Thesis**. PMAS Arid Agriculture University Rawalpindi, Pakistan.
3) Shoaib Ghafoor. Role of Agricultural Extension Agent in Challenges Faced to Guava Farmers at Central Punjab, Pakistan. **2024**. Agri. M. Sc. (Hons.) **Thesis**. PMAS Arid Agriculture University Rawalpindi, Pakistan.
4) Muhammad Umer Khalid. Analysis of Problems Faced by Innovators in Adopting Agricultural Business in Pothwar Region of Punjab, Pakistan. **2024**. Agri. M. Sc. (Hons.) **Thesis**. PMAS Arid Agriculture University Rawalpindi, Pakistan.
5) Falak Sher. Advisory Services through Smart Digital Agriculture For Wheat Farmers in Southern Region of Punjab, Pakistan. **2025**. Agri. M. Sc. (Hons.) **Thesis**. PMAS Arid Agriculture University Rawalpindi, Pakistan.
6) Afaq Afzal. Investigating Different Challenges and Opportunities in Wheat Cultivation with Reference to Modern Agricultural Practices in Southern Regions of Punjab, Pakistan. **2025**. Agri. M. Sc. (Hons.) **Thesis**. PMAS Arid Agriculture University Rawalpindi, Pakistan.

7) Shafaqat Ali. Evaluating the Effect of Kissan Card on Rural Development Program of Wheat Farmers in Pothwar Region of Punjab, Pakistan. **2025.** Agri. M. Sc. (Hons.) **Thesis**. PMAS Arid Agriculture University Rawalpindi, Pakistan.
8) Muhammad Zeeshan Anwar. Impact Of Communication Intervention Technology In Farming Practices Of Wheat Growers In Pothwar Region Of Punjab Province. **2025**. Agri. M. Sc. (Hons.) **Thesis**. PMAS Arid Agriculture University Rawalpindi, Pakistan.
9) Muhammad Haris. Impact of Modern Communication technologies on Behaviors of Gardeners in Pothwar Region of Pakistan. **In-Process**. Agri. M. Sc. (Hons.) Thesis. PMAS Arid Agriculture University Rawalpindi, Pakistan.
10) Rabeea Naseer Awan. Impact of livestock extension services and facilities on livestock productivity of small scale livestock farmers in Muzaffarabad.. **In-Process**. Agri. M. Sc. (Hons.) Thesis. PMAS Arid Agriculture University Rawalpindi, Pakistan.

ROFESSIONAL EXPERIENCE

Deputy Director of University Research Farm Dec 2022 – till date

PMAS Arid Agriculture University Rawalpindi, Pakistan

Research Activities: Manage research activities of PhD, Postgraduate, Undergraduate and Projects at University Research Farm Koont.

Field Activities: Cultivate, harvest and thrash **Rabi crops** (Wheat, Brassica, Barley, Oat, Chickpea and Lentil), **Spring crops** (groundnut, Soybean and Maize) and **Kharif Crops** (Maize, Millet, Sunflower, Sorghum, Sesame and Sesbantina) on 200 acres in Arid zone of Pakistan through mono-cropping and intercropping.

Research Trainee March – August 2015

The University of Queensland, Brisbane, Australia

- Attendant International Conferences, Workshops, Seminars and visited to Sugarcane Industries and Research Stations in Australia.
- Face to Face Interview of Sugarcane growers in Australia to understand their issues and challenges in Sugarcane industries and Productivity.
- Understand report and research writing.
- Face to Face interact and communicate with international researchers and teaching experts to share research ideas and teaching experience.

CERTIFICATIONS

Indigenous Ph. D Fellowship Award

The Higher Education Commission (HEC) of Pakistan awarded this competency base program in year 2010 (2010-13). In this program, HEC acknowledged my Ph. D study and research, and funded to my Host University (The University of Agriculture Peshawar, Pakistan) for tuition fee, lab equipment's, instruments, chemicals, tools, publication charges and honorarium to supervisor for competition of my Ph. D program.

International Research Support Initiative Program (IRSIP)

The Higher Education Commission (HEC) of Pakistan awarded this competency base program in year 2015 (March to August 2015) to visit the developed country and study its research, academics and industrial environment. In this program, I visited to the University of Queensland, Brisbane, Australia to improve my research and academic knowledge, learn writing of technical report and research writing, attended and learn how to organize international conferences, seminars, workshops and observed industrial and field activities in Australia.

Interim Ph. Ds Fresh Program (IPFP)

The Higher Education Commission (HEC) of Pakistan awarded this competency base program in year 2016 (2016 to 2017). In this program, I have provided opportunity to teach in the Pakistani University as Assistant Professor to learn teaching methods.

HEC Startup Research Grant

I have awarded research grant in the year 2016 to "examine the effect of the application of nitrogen fertilizers on sugarcane production". I have successfully this research grant and published research article in renowned journal in this research grant.

Outreach Activities

The Office of Research Innovation and Commercialization (ORIC) of PMAS Arid Agriculture University Rawalpindi awarded grant for Outreach activities in dryland (rainfed). In this grant, I organized the farming communities of dryland areas and disseminate them knowledge of recommended farming practices and adoption of cultivation the suitable economically benefit crops in the dryland area. Moreover, the farming communities are assist, facilitate and support in adoption of latest irrigation practices against climate change in dryland area.

REFERENCES

1) Muhamamd Zafarullah Ullah Khan (Professor), Dean of Social Sciences, **Ph. D Supervisor**, drzafar@aup.edu.pk, The University of Agriculture Peshawar, Pakistan. https://www.aup.edu.pk/staff/prof-dr-muhammad-zafarullah
2) Badar Naseem Siddiqui (Associate Professor), Chairman of the Department of Agricultural Extension, **Presently Department Head**, drbadar@uaar.edu.pk, PMAS Arid Agriculture University Rawalpindi, Pakistan. https://www.uaar.edu.pk/fcfs/faculty_details.php?dept_id=8&fac_id=235
3) Nowshad Khan (Professor), Ex-Vice Chancellor of AIOU, Ph.D supervisory committee member and research supervisor, drnowshadkhan@gmail.com, Allama Iqbal Open University Islamabad, Pakistan.
4) Malcolm Wegener (Senior Research Fellow), **Research Supervisor**, Malcolm.wegener@uq.edu.au, The University of Queensland, Brisbane, Australia.
5) Bengü TÜRKYILMAZ ÜNAL (Professor), **Research contributor**, bengu35540@gmail.com, Niğde Ömer Halisdemir University, Faculty of Science, Department of Biotechnology, 51240, Niğde-Türkiye; Tel: +90 388 2254035.

SCIENTIFIC COMMITTEE/BOARD

- Australasia-Pacific Extension Network (APEN) (www.apen.org.au)
- Sugar Research Australia Ltd (https://sugarresearch.com.au)
- Zoological Society of Pakistan (https://www.zsp.com.pk)
- Australian Society of Sugar Cane Technologists (https://assct.com.au)

UNDER-REVIEW | PRE-PRINTS | IN-PROGRESS PAPERS (6)

1) Forecasting of area and production in Rapeseed and Mustard: A comprehensive analysis. *Agricultural Systems*.

PEER-REVIEWED PAPERS (23)

1. Ghulam Abbas Shah,· Mughees Mustafa,· Zheli Ding,· Zahid Mahmood,· **Faheem Khan**,· Shujaat Hussain Khan,· Safdar Al.· Ghulam Mustafa Shah,· Imran Mahmood,· Muhammad Bilawal Junaid,· Munirah Abdullah Al-Dosary,· Muhammad Habib Ur Rehman and Muhammad Ali Raz. **2025**. Improving Soil Fertility, Seed Yield, and Oil Quality of Sunflower Through

Application of Processed Animal Manure Under Rainfed Conditions. International Journal of Plant Production, 19(4):721–736. (**IF: 2.6**). https://doi.org/10.1007/s42106-025-00362-2.

2. Muhammad Nisar Khan, Muhammad Abdul Rahman, Arshad Mahmood Malik and **Faheem Khan**. **2025**. Future outlook for rapeseed and mustard: comprehensive forecasting of area and production. Journal of the Saudi Society of Agricultural Sciences, 24(7): 1-17. **(IF: 2.467**). DOI: https://doi.org/10.1007/s44447-025-00064-1
3. Zulfiqar, N., Ali, M., Inam, F., Khawaja, S., Raza, A. H and Faheem Khan. 2025. Synthesis of metal nanoparticles and their role in degradation of pesticides/herbicides: A review. *Discover Applied Sciences*, 7 (6): 1-24. **(IF: 2.8)**. DOI: https://doi.org/10.1007/s42452-025-07089-9
4. Azaz Ali Shah., Amjad Usman., Sarzamin Khan., **Faheem Khan**., Nazeer Ahmed., Fahad A. Al-Mekhlafi., Muhammad A. Wadaan., Saif ul Malook., Toheed Iqbal., Misbah Ullah., Kamran Sohail, Hamid Ali and Ijaz Ali. 2024. Mealworm (Tenebrio molitor) Rearing and Growth Optimization as a Sustainable Food Source Using Various Larval Diets Under Laboratory Conditions. Journal of *Entomol Exp Appl.*, 172(9): 827-836. (**IF: 1.9**). https://onlinelibrary.wiley.com/doi/10.1111/eea.13463
5. Khan, N. M**.**, Arshad Malik, M. A and Khan, F**. 2024.** Performance and Instability of Oilseed Crops in Pakistan. *Proceedings of the Pakistan Academy of Sciences: B Life and Environmental Sciences* 61(1): 77-87. http://doi.org/10.53560/PPASB(61-1)1032.
6. Usman, M., Khan, G. A., Khan, F., Javed, M., Ali, H and Ahmad, M. 2024. Use of Antibiotics And the Farmers' Awareness Level of Antibiotics Resistance of Broiler Farms. *Biol. Clin. Sci. Res. J., 5(1): 1-5*. DOI: https://doi.org/10.54112/bcsrj.v2024i1.856.
7. Tahira U., Khan, A. H., Khan, F., Rashid, R., Saeed, S., Talha, H. U. 2024. Rural Women Perceptions of Digital Media Influence on Awareness Creation about Maternal Health Information in Punjab, Pakistan. *Biol. Clin. Sci. Res. J., 5(1): 1-4*. Doi: https://doi.org/10.54112/bcsrj.v2024i1.829.
8. Raza, A. H., Naz, M., Akram, M., Afzal, S., **Khan, F**., Saleem, M., Ahsan, W. M.S. 2023. Enhancing Climate Resilience In Agricultural Practices: The Role Of Agricultural Extension Workers In District Rahim Yar Khan, Punjab, Pakistan. *Tianjin Daxue Xuebao (Ziran Kexue yu Gongcheng Jishu Ban)/Journal of Tianjin University Science and Technology.,* 56 (9): 226-246. (**IF: 0.25**). DOI: 10.5281/zenodo.8385037.
9. Muhammad Abdul Aziz., Fahad Masoud Wattoo., **Faheem Khan**., Zeshan Hassan., Imran Mahmood., Adeel Anwar., Muhammad Fazal Karim., Muhammad Tahir Akram., Rabia Manzoor., Khalid Saifullah Khan and Mosaed A. Majrashi. 2023. Biochar and polyhalite fertilizers improve soil's biochemical characteristics and sunflower (Helianthus annuus L.) yield. *Agronomy*., 13 (2): 1-16. (**IF: 3.949**). DOI: https://www.mdpi.com/2073-4395/13/2/483
10. **Faheem Khan**., Zelle Huma., Ghulam Abbas Shah., Bengu Turkyilmaz Unal and Munir Ozturk. 2023. Effect of Survey Farmers' Knowledge and Practice on the Yield of Sugarcane in Pakistan. *Journal of the Saudi Society of Agricultural Sciences*., 22 (3): 187-194. https://www.sciencedirect.com/science/article/pii/S1658077X22000960 **(IF: 2.467).**
11. **Faheem Khan**., Zelle Huma., Muhammad Tahir Ali Shah., Farhatullah Khan and Ghulam Abbas Shah. 2019. Weed management strategies opted by sugarcane growers in Khyber Pakhtunkhwa province, Pakistan. J Agric. Res., 57(3): 207-214.
12. **Faheem Khan**., Malcolm Wegener and Muhammad Zafarullah Khan. (2018). Engagement with extension services by small-acreage sugarcane farmers in selected districts of Pakistan. *Rural Extension & Innovation Systems Journal*., 14(2): 34-42.
13. Zelle Huma., Ahmad-Ur-Rahman Saljoqi., Farman Ali., **Faheem Khan** and Amjad Usman. 2018. Efficacy of Entomopathogenic Nematodes against *Heterotermes Indicola* (Isoptera: Rhinotermitidae) in the Laboratory. *Proc. Pakistan Congr. Zool.,* 38: 127-138.
14. **Faheem Khan**., Bilal Ahmad., Badar Naseem Siddiqui., & Nowshad Khan. (2017). Effect of Services and Facilities of Tobacco Companies Ion Tobacco Crop in Malakand Division, Pakistan. *International Journal of Agricultural Science, Research and Technology in Extension and Education Systems* (*IJASRT in EESs*), 7(1): 31-35. (**IF: 0.765)**.

15. ***Faheem Khan.,*** *Muhammad Tahir Ali Shah and Muhammad Zafarullah Khan. (2017).* Role of Various Factors in Sugarcane Production in Selected Area of Khyber Pakhtunkhwa, Pakistan. *J Agric. Res*., 55(3): 577-584.
16. Bilal Ahmad., Badar Naseem Siddiqui., and **Faheem Khan**. 2017. The Role of Private Tobacco Companies in Promotion of Tobacco crop at Malakand division, Pakistan. *Int. J. Agri and Evn Res*., 3(4): 282-289.
17. Muhammad Ibrahim Adil., **Faheem Khan**., Muhammad Tahir Ali Shah., & Badar Naseem Siddiqui. (2017). Cost and Return of Wheat Production in Federally Administrated Tribal Area, Bajaur Agency (FATA), Pakistan. *J Agric. Res*., 55 (2): 417-425.
18. **Faheem Khan.,** Muhammad Zafarullah Khan., Malcolm Wegener., & Zelle Huma. (2016). Association of Agricultural Machineries and Nitrogen Application with Sugarcane Crop at Selected Districts of Khyber Pakhtunkhwa Province: Pakistan**.** *Thai Journal of Agriculture. 49(2):27-39* (**IF: 0.107**).
19. **Faheem Khan** & Malcolm Wegener. (2016). Factors Associated with Excess Use of Nitrogen in Sugarcane Crops in Selected Districts of Khyber Pakhtunkhwa Province, Pakistan. *Proc. Aust Soc Sugar Cane Technol*., 38, 101-111. https://www.assct.com.au/assct_main.php?page_id=105.
20. **Faheem Khan** & Muhammad Zafarullah Khan. (2015). Role of Education in Enhancing Yield of Sugarcane in Mardan and Charsadda districts of Khyber Pakhtunkhwa: Pakistan. *Sarhad Journal of Agriculture.,* 31(2), 123-130.
21. **Faheem Khan** & Muhammad Zafarullah Khan. (2015). Weeds and weed control methods in sugarcane: a case study of Khyber Pakhtunkhwa Pakistan. *Pak. J. Weed Sci. Res*., 21(2), 217-228.
22. Urooba Pervaiz., **Faheem Khan**., Dawood Jan., Zelle Huma., Muhammad Zafarullah Khan. (2013). An Analysis of Sugarcane Production with Reference to Extension Services in Union Council Malakandher-Peshawar. *Sarhad Journal of Agriculture.,* 29(1), 146-150.
23. Ahmad-Ur-Rahman Saljoqi., Muhammad Anwar Khan., Zell-e-Huma., Abdus Sattar., Misbah Ullah and **Faheem Khan**. (2012). Behavioral changes of *Heterotermesindicola* (Isoptera: Rhinotermitidae) against some natural products. *Pakistan Journal of Zoology*., 44(6), 1613-1622. (**IF: 0.78**).

Talks and Poster Presentations (07)

1. Faheem Khan., Zelle Huma., Ghulam Abbas Shah., Bengu Turkyilmaz Unal and Munir Ozturk. 2022. Sugarcane Yield: Interactions between the pests and their chemical control in selected area of Pakistan. September 5-7, 2022. First International Conference on Climate Resilient Agriculture for Sustainable Development & Food Security. Organized by Department of Agricultural Science., Allama Iqbal Open University (AIOU), Islamabad.
2. Shah, G. A., Mir, S., Iqbal, Z., Sadiq, M., Zahid, M., **Faheem Khan.,** and Rashid, M. I. (2019). Biochar amended with green synthesized ZnO-nanoparticles improves soil quality and Rhodes grass productivity. In: Proceedings of 2nd international conference on Climate smart agriculture: The way towards sustainability. Organized by Department of Agronomy at Mian Newaz Sharif University of Agriculture Multan, Pakistan (https://mnsuam.edu.pk/) on November 26-27, 2019. pp. 30-31.
3. **Faheem Khan**., Zelle Huma and Ahmad-Ur-Rahman Saljoqi. 2018. Pests Control Method Opted by Low Input Sugarcane Growers in Two selected districts of Khyber Pakhtunkhwa, Pakistan. 38th Pakistan Congress of Zoology., Pp: 294 (International).
4. **Faheem Khan**., Muhammad Zafarullah Khan., Ghulam Abbas Khan and Zelle Huma. (2018) Determine the Effectiveness of Extension Methods in the Sugarcane Production in Selected Areas in Pakistan. Challenges and Opportunities to Boost Agriculture in Change Climate. College of Agriculture BZU Bahadur Sub-Campus Layyah, Pakistan. March 26-28, 2018. Page. 438 (**International**).
5. **Faheem Khan**., Zelle Huma and Ahmad-Ur-Rahman Saljoqi. 2018. Pests Control Method Opted by Low Input Sugarcane growers in Two Selected Districts of Khyber Pakhtunkhwa,

Pakistan. 38th Pakistan Congress of Zoology. Department of Zoology, University of the Punjab, Lahore. 27th February to March 1st, 2018, Page no. 145 (**International**).

6. Junaid, M., Saddiqui, N, B and **Faheem Khan**. (2016). Role of Extension Services for the Management of Food Security in Khushab District, Pakistan. Asia-Pacifica Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in Dryland Regions. Organized by UNESCO & PMAS Arid Agriculture University Rawalpindi-Pakistan, Page 85. (**International**).
7. Bilal Ahmad**,**Badar Naseem Siddiqui and **Faheem Khan**. (2016) The Role of Private Tobacco Companies in Tobacco Crop at Selected Area of Malakand Division, Pakistan. The Abstract has been published an International Conference "Sustainable Crops and Animal Production" University of Haripur, Haripur, Pakistan on dated 8-10 December 2016, page no. 112.

International Collaborations (April 6, 2022 to April 5, 2025)

i. Internationally Collaborated on the project proposed titled "Gender Transformative Living for Climate Smart Irrigation in the Indus Basin Pakistan" submitted in the International Development Research Center's (IDRC) call on Climate Change Adaptation and Resilience by department of Sociology of Virgina Tech University, USA.
ii. Reviewed Manuscript of "Journal of Animal and Plant Science" (IF: 0.70). https://www.thejaps.org.pk
iii. Reviewed Manuscript of International Journal named "International Journal of Pest Management" (**IF: 1.5**) ("W" Category in HEC recognized Journal list HJRS). https://www.tandfonline.com/journals/ttpm20
iv. Reviewed Manuscript of Journal named "Proceeding Pakistan Academy of Sciences ("X" Category in HEC recognized Journal list HJRS). https://www.paspk.org/proceedings/
v. Member of collaborative Chinese company named "Xinjiang Tianye Water Saving Irrigation Co., Ltd and Green Pakistan Initiative (GPI) project of "High Efficient Irrigation System" at University Research Farm (URF) Koont. In this project, Chinese experts were assisted, cooperated and facilitated in installation of pipes on 67 hectares' area, construction of water reservoirs, Tube-wells and pumping room. Moreover, the Chinese experts were demonstrated cultivation method on Chinese Tractor (220 Hp) and application of implements for seeds sowing and plant drip irrigation in field.

H. Administrative services, academic, other academic and advisory services rendered in a calendar year (April 6, 2022 to April 5, 2025)

Administrative services

Assigned Additional duty of the Deputy Director, University Research Farm (URF) Chakwal Road.

Academic Duties

i. I have been notified as convener of the departmental committee of time table of all degree programmes i.e. B. Sc. (Hons.) and M. Sc. (Hons.) of agricultural extension department of Calendar year 2022-23.
ii. I have been assigned responsibility of the departmental committee of date sheet of all degree programmes i.e. B. Sc. (Hons.) and M. Sc. (Hons.) of agricultural extension department of Calendar year 2022-23.
iii. I have been notified as a member of counseling committee of undergraduates' programme of agricultural extension department of Calendar year 2022-23.
iv. I have been assigned as convener of the departmental committee of admission of M. Sc. (Hons.) degrees programme in agricultural extension department of Calendar year 2022-23.
v. Facilitated faculty members & postgraduates visiting University Research Farm Chakwal Road for research and academic activities.
vi. Provided services in organizing workshops and seminars at University Research Farm Chakwal Road.

vii. Provided services to faculty members in University Outreach Activity at University Research Farm Chakwal Road.
viii. Assigned Additional duty of the Deputy Director, University Research Farm (URF) Chakwal Road (up to 12.02.2025).

Other Academic /University Activities

1) Member of Outreach activities of the University Research Farm (URF) Koont.
2) Reviewed research article of the "International Journal of Pest Management" (IF: 1.766)
3) Reviewed research article of the "Journal of Animal and Plant Science (The JAPS)".
4) Member of Technical Committee to evaluate Technical Bids and Physical Evaluation of purchased fertilizers at URF Chakwa Road.
5) Member of Management Committee to collect Semen of Sahiwal Cattle Breed under PSDP funded HEC project titled "Establishment of National Center for Livestock Breeding Genetics & Genomics (NCLBG&G) at PMAS-AAUR.
6) Member Repair of Machinery and Vehicles Committee at URF Chakwal Road.
7) Member of departmental counseling committee of undergraduate students.
8) Member of Repair Committee of Tractors and Machineries at the University Research Farm (URF) Koont.
9) Member of Technical Committee to evaluate Technical Bids and Physical Evaluation of purchased fertilizers at URF Chakwa Road.
10) Member of Management Committee to collect Semen of Sahiwal Cattle Breed under PSDP funded HEC project titled "Establishment of National Center for Livestock Breeding Genetics & Genomics (NCLBG&G) at PMAS-AAUR.
11) Awarded Appreciation certificate from the Administrator of the University Research Farm (URF) Koont.

Advisory Services rendered if any

The following advisory services provided to local communities, faculty members and researchers under University Outreach Activity at URF Chakwal Road.

i. Created awareness among local wheat growers and educated about application of "Biozote" to wheat seed at URF Chakwal Road.
ii. Apprised local wheat growers "how to apply recommended and suitable types of weedicides in wheat crop" using recommended dose and appropriate time at URF Chakwal Road.
iii. Educated local wheat growers regarding "Yellow rust" and "Loose Smut" diseases on wheat at URF Chakwal Road. The local wheat growers were apprised regarding how to apply fungicides using precise quantity at appropriate time at URF Chakwal Road.
iv. The local farming community was informed about use of certified seed of wheat & brassica after proper grading at URF Chakwal Road. Moreover, the local farming community was educated about impact of sowing true to type crop seed at URF Chakwal Road.
v. Demonstration plots of wheat crop varieties viz., Wafaq-2023, Nishan i Bakkar, Urooj-2022, Dilkash-2021 and Akbar-2019 established for local wheat growers, researchers and faculty members of PMAS-Arid Agriculture University Rawalpindi.
vi. Local wheat growers, faculty members and researchers were apprised about wheat crop with "Biozote" treatment and without "Biozote" application at URF Chakwal Road.
vii. Wheat crop cultivated in orchard and presented to local farmers, faculty members and researchers at URF Chakwal Road.
viii. Wheat varieties viz., Wafaf-2023, Urooj-2022, Dilkash-2021, Nishan i Bakkar, MA-2021, MH-2022, Akbar-2019, Barani-2017, NARC Super, Markaz-2019, Fakhar i Bakkar and Pakistan-2013 were cultivated on around sixty (60) acres at different locations as a demonstration plots at URF Chakwal Road.
ix. Canola varieties viz., UAF-11, Barani Canola, Chakwal Sarson, Khanpur Raya, Sinapis alba, NARC Canola, Sandal Canola and Rachna Canola were cultivated on fifty (50) acres as

demonstration plots for local farmers, faculty members and researchers at URF Chakwal Road.

x. Chickpea and lentil varieties Bittle-2016, Tammal-2015 and Markaz-2019 were cultivated on around 2.5 acres for demonstration to local farmers, researchers and faculty members. Moreover, the local farmers were demonstrated application of pre-emergence weedicide and insecticides at URF Chakwal Road.

xi. Assistance was provided to Livestock section for livestock management and helped to make livestock hospital functional at URF Chakwal Road.

xii. The local farmers were demonstrated application of agricultural machinery for soil preparation, application of weedicides and insecticides and Wheat and Brassica crop harvesting at URF Chakwal Road.

xiii. Created awareness among local wheat growers and educated about application of "Biozote" to wheat seed at URF Chakwal Road.

xiv. Apprised local wheat growers "how to apply recommended and suitable types of weedicides in wheat crop" using recommended dose and appropriate time at URF Chakwal Road.

xv. Educated local wheat growers regarding "Yellow rust" and "Loose Smut" diseases on wheat at URF Chakwal Road. The local wheat growers were apprised regarding how to apply fungicides using precise quantity at appropriate time at URF Chakwal Road.

xvi. The local farming community was informed about use of certified seed of wheat & brassica after proper grading at URF Chakwal Road. Moreover, the local farming community was educated about impact of sowing true to type crop seed at URF Chakwal Road.

xvii. Wheat varieties viz., Wafaf-2023, Urooj-2022, Dilkash-2021, Nishan i Bakkar, MA-2021, MH-2022, Akbar-2019, Barani-2017, NARC Super, Markaz-2019, Fakhar i Bakkar and Pakistan-2013 were cultivated on forty-five (45) acres at different locations as a demonstration plots at URF Chakwal Road.

xviii. Canola pre-basic varieties viz., UAF-11, Barani Canola, TM, AARI, Super Raya and Rachina were cultivated on twenty (20) acres as demonstration plots for local farmers, researchers and students at URF Chakwal Road.

xix. Chickpea and lentil varieties Bittle-2016, Tammal-2015 and Markaz-2019 were cultivated on around 2.5 acres for demonstration to local farmers, researchers and faculty members. Moreover, the local farmers were demonstrated application of pre-emergence weedicide and insecticides at URF Chakwal Road.

xx. The local farmers were demonstrated application of agricultural machinery for soil preparation, application of weedicides and insecticides and Wheat and Brassica crop harvesting at URF Chakwal Road.