

Faculty Resume

Name Dr. Mohammad Amin
Personal Asstt.Professor
Department of Agricultural Mechanization
The University of Agriculture Peshawar,
Khyber Pakhtoonkhwa, Pakistan
Office Phone No. 0919215572-5 /3086

Religion Islam
Domicile Malkand,KhybarPakhtoonkhwa Pakistan
Nationality Pakistan

First Appointment. Asstt.Agr.Mechanization Officer/Lecture
(BPS-17)7-1-1988 Deptt. of Agri. Mechanization
NWFP Agri.University,Peshawar.

Present Post 1-9-2000 Asstt.Professor
Deptt. of Agri.Mechanization
The University of Agri.Peshawar.

Education: PhD

Academic Qualification

Name of Institution	Degree	Division	Session
NWFP Agri.University Peshawar	BSc.(Hons) Agr.	1st	1985
NWFP Agri.University Peshawar	MSc.(Hons) Agr.	1st	1987
The University of Agri. Peshawar	PhD Agri.Mech.	A	2013

HEC Approved Supervisor: N/A

Area of Specialization: Agricultural Mechanization i.e Tillage, Planting and Harvesting and threshing equipment testing, Tractor and Farm Machinery Maintenance, operation, adjustment and safety measurement

Research Project: N/A

Awards/ Honors/Recognitions: First position in MSc (Hons) degree at department level

Memberships:

Member Soil Science society of Pakistan

Member Weed Science society of Pakistan

Professional Responsibilities and Activities: Teaching and Research, Students counseling and supervision Outreach and Extension activities, Meteorological data collection, compilation and quarterly reports of Research system of Khyber Pakhtoonkhwa , Repair and maintenance of tractors, farm machinery and vehicles of university, Continuing Education and other related activities of the department and university

EXPERIENCE:

Teaching, Research, Outreach, Extension, Continuing Education and other related activities of the department and university

A. Teaching: Thought following courses of Agri. Mechanization

- | | | | |
|------|---|-----------|--------------------|
| i. | Engg. Application in Agriculture
second semester (Fall semester). | (AgM.301) | BSc Agri. Part Ist |
| ii. | Farm Power and Machinery
5 th Semester (Spring Semester) | (AgM.501) | BSc. Agr. Part III |
| iii. | Workshop Technology-1
6 th Semester (Fall semester) | (AgM.511) | BSc. Agr. part III |
| iv. | Advance Agri. Machinery
7 th Semester (Spring semester) | (AgM.601) | BSc. Agr. part VI |
| v. | Farm power and Machinery Management
1 st Semester (Spring semester) | (AgM.701) | MSc. Agri. Mech. |
| vi | Workshop Technology-11
2 nd Semester (Fall semester) | (AgM.712) | MSc. Agri. Mech. |
| vii | Operation Research in Farm Power and Machinery Management
(AgM-714) PhD. Agr.Mech Fall semister 2014 | | PhD. Agr. Mech. |
| viii | Energy conservation management in Farm power and machinery (AgM-708)
PhD Agr. Mech. Spring semester 2015 | | PhD Agr. Mech |
| xi | Thought Farm machinery to BSc Agri.students in Jalozai and shamshatu campus of the Afghan | | |

university.

- x. Presently supervising Two MSc and Two PhD Students of Agri. Mechanization Department
- ix Developed course for post graduate students Farm machinery in Pakistan.

B Research Publications: Following research papers have been published in different journal.

1. Tariq,M.and **M.Amin**, 1988. Wheat Threshing Losses in different types of threshing machine. Sarhad j.of Agric.4(6):781-787
2. Rehman,M. **M.Amin** and M.K.Khattak, 1995. Effect of different tillage operation on emergence and yield of wheat. Agri.Mech. in Asia 26(2):62-64.
3. Ashfaq,A. A.said, A.Khan and **M.Amin**, 2006. Comparison of wheat and barley for yield and yield components under different irrigation patrons. Sarhad J.of Agric.22(1):7-11
4. Ali,A. M.Arif, G.Ayub, H.Akbar, and **M.Amin**, 2006. Effect of Gebberalic acid and sowing depth on wheat varieties. Scientific Khyber 19(1):1-9
5. Azam,S., M.Ali, **M.Amin**, S.Bibi and M.Arif, 2007.Effect of plant Population on maize hybrid. Journal of Agricultural and Biological science 2(1):13-20
6. Jan, T., **M.Amin**, A.Latif, S.Mehmood, A.Shafi, and M.U.Rehman, 2012. Nitrogen translocation and its efficiency as affected by source and time of nitrogen-application. Life Sci.Int. J. 6(4): 2705-2710.
7. Hanif M., M.Rahman, M. Aamir, M.Ramzan, **M. Amin**, M.Khan, M. Pervez, and I.A. Mari 2012. Recycling home scrap to develop an efficient dish type solar air heater for drying onion. American Journal of Agricultural Science, Engineering and Technology, 1(3):1-9,.
8. Khalil,M. H., M.Aamir, M. Ramzan, M. Rahman, M. Khan, **M.Amin** and A. Ali, 2012. Drying of apricots using a proficient dish type solar air heater. World Applied Sciences Journal 18(8): 1102-1106.
9. Hanif, M., M. Ramzan, M. Rahman, M. Khan, **M. Amin**, and M. Aamir, 2012. Studying Power Output of PV Solar Panels at Different Temperatures and Tilt Angles. ISESCO JOURNAL of Science and Technology. 8(14): 9-12.
10. **Amin, M.**, M.J.Khan and M.T.Jan, 2013. Effect of tillage practices and sowing methods on weeds and biological yield of wheat under semi-arid environment. Pak.J.Weed Sci. Res. 19 (1): 109-121.
11. **Amin, M.**, M.J.Khan, M.T.Jan and J.A.Tariq, 2013. Response of wheat growth characteristics to various tillage practices and sowing methods under semi arid environment. Sarhad J. agric.29(4):529-535.
12. Hanif,M., M.Rehman, M.Khan,M.Aamir, **M.Amin** and I.A.Mari, 2013. Impact of dry temperature and air mass flow rates on the drying performance of a parabolic trough solar collector (PTSC) used for dehydration of apricots. Emir.J.Food Agri. 25 (6): 418-425.

13. Ullah,I., I.H.Khalil, I.A.Shah, W.Murad, N.Mehmood, **M.Amin** and M.Noor, 2013. Germplasm diversity of wheat under different water stress and weedy conditions. *Pak.J.Weed Sci. Res.* 19 (3): 315-325.
14. Hanif,M.,M.Rehman, **M.Amin**, M.K. khattak, M.Ramzan, S.U.Dinn and K.Khan, 2013. Convective drying and mathematical modeling of onions dried using a flat plate solar air heater. *Pakistan Journal of Nutrition.* 12 (11): 1003-1007.
15. Shah,Z.,Y.Noor, T.Shah, A.Latif, **M.Amin** and A.Shah, 2014. Change in soil microbial attributes with soil characteristics and parent materials. *Sarhad J.Agric.*30(1):15-25.
16. **Amin, M.**, M.J.Khan, M.T.Jan, N.Ahmad, M.Rehman and A.Rouf, 2014. Effect of tillage and sowing methods on weed biomass and mungbean yield under irrigated conditions. *Pak.J.Weed Sci. Res.*20 (1):59-66.
17. **Amin, M.**, M.J.Khan and M.T.Jan, M.Rehman, J.A.Tariq, M.Hanif and Z.Shah, 2014. Effect of different tillage practices on soil physical properties under wheat in semi-arid environment. *Soil & Environment* 33 (1):33-37.
18. **Amin, M.**,M.J.Khan, M.T.Jan, A.Latif, M.U.Rehman and M.Arif, 2014. Weed biomass and growth of mungbean as affected by tillage practices and sowing methods. *Sarhad J. Agric.*30(2):227-232.
19. Waqas,M., B.Ahmad, M.Arif, F.Munsif, A.L.Khan, **M.Amin**, S.M.Kang, Y.H.Kim, In-J. Lee, 2014. Evaluation of humic acid application methods for yield and yield component of mungbean. *American Journal of Plant Science* (5): 2269-2276.
20. Munsif, F., S.Shah, A.L.Samuel, **M.Amin**, A.Shah, A.Ahmad and Z.Ali, 2014. Integration of weed control methods with seed rates for improving wheat yield. *Pak.J.Weed Sci. Res.*, 20 (2): 155-165.
21. Hanif M., M.K.Khattak, M.U. Rahman, M.Khan, **M. Amin** and M.Ramzan. 2014. Performance evaluation of flat plate solar collector as a drier for chillies and tomatoes. *Journal of Science Technology and Development.* 23(2):63-67.
22. Islam, F.U., S.Zaheer, F.Jalal, M.Hussain, K.M.Kakar, **M.Amin**, M.Ali and S. Jan, 2014. Impact of crop residues mulch on weeds control and some agronomic aspects of wheat. *Pak.J.Weed Sci. Res.*, 20 (4): 541-552.
23. Ali, K., M.Arif, W.Ullah, W.Ahmad, M.R.Khan, L.S.Ayeni, **M.Amin**, and M.Jehangir, 2015. Influence of organic and inorganic amendments on weeds density and chemical composition. *Pak.J.Weed Sci. Res.*, 21 (1): 47-57.
24. Hanif M., M.K.Khattak M. Rahman, M. Aamir, M.Ramzan, **M. Amin**, M.Khan, and S.Sheikh, 2015. Convective Drying of Chillies using a concentrating solar collector. *Proceeding of the Pakistan Academy of Sciences.* 52 (2): 103-107.

25. Hanif M., M.K.Khattak M. Rahman, S.A.Ali, M.Khan, M.Ramzan, **M. Amin** and M. Aamir, 2015. Impact of drying temperature and slice thickness on retention of vitamin c in persimmons (diospyros kaki.1) dried by a flat plate solar collector. Pakistan journal Food Science. 25 (2): 66-70.
26. Yaseen,T., W.Ullah, M.Ahmad, Naveedullah, K.Ali, Abdullah and **M.Amin**, 2015. Effect of tillage and weed control methods on weed density and tomato (Lycopersicon esculentum) productivity. Pak.J.Weed Sci. Res. 21 (2): 153-161.
27. Salim,N., M.Adnan, N.A.Khan, S.Zaheer, F.Jalal, **M.Amin**, W.M.Khan, M.Arif, I.Rahman, M.Ibrahim, Y.Jamal, S.R.A.Shah, K.Junaid and M.Ali, 2015. Dual purpose canola: grazing and grain options. Pak.J.Weed Sci. Res. 21 (2): 295-304.
28. Kashif,M., B.Gul, H.Khan, S.Hidayat, **M.Amin**, A.Shakil, I.Ahmad and M.Ahmad, 2015. Impact of soil moisture and soil depths on resprouting ability on john grass (Sorghum halepense L.) rhizomes. Pak.J.Weed Sci. Res. 21 (3): 327-334.
29. Hanif M., M.K.Khattak M.U.Rahman, M.Ramzan, **M.Amin**, M. Aamir, S.S.Sher, Hafeezullah, S.Khan,M.Saeed,A.Khan, and M.Saqalain 2015. Effect of drying temperature and natural preservatives and reducing aflatoxins in solar dried persimmo(diospyros kaki.l) Proceeding of the Pakistan Academy of Sciences. 52 (4): 359-363.
30. Din,R.u., **M.Amin**, **M.U.Rehman**, **S.Shah**, A.A.Shad, M.Hanif and S.Din, 2016. Effect of different drying treatments on the essential oil content of (matricaria chamomila) flowers. Pak.J.Weed Sci. Res. 22 (1): 69-79.
31. Hanif M., M.K.Khattak, **M. Amin**, M.Ramzan, S.Zakir, S.Ullah and Z.Khan, 2016. Development of an Efficient Flat Plate Solar Air Heater for Drying and Water Heating Purposes. Journal of Sain Malaysiana 45(3):489-407.

C: Publications of (Outreach/Extension)/Articles

1. **Amin,M** and M.Tariq,1991. Booklet in urdu 'Machini Kasht'(No.41) Published by Directorate of Outreach ,NWFP Agricultural University Peshawar.
2. **Amin,M**.2000, Article in pushto in Zarat Sarhad on tractor maintenance, published by Agri.Extension department of NWFP.
3. **Amin,M**.2009. Maintenance of tractor. urdu article in Zarat sarhad,33(1):22-24.published by Agr.Extension department of Khyber pakhtoonkhwa.
4. **Amin,M**.2009.Maintenance and uses of agriculture machinery, (Tillage Equipments) urdu article in Zarat sarhad, 33(4):41-45 published by Agri.Extension department of Khyber pakhtoonkhwa
5. **Amin,M**.2010. Maintenance and uses of Agriculture machinery,i.e (Planting and fertilizer Equipments),

urdu article in Zarat sarhad,33(7-8):40-43.published by Agri.Extension department of Khyber pakhtoonkhwa.

D: Publication of Meteorological Reports

Published 24 Meteorological Reports from January 1993 to December 1998):i.e. Meteorological Observation, of NWFP Agricultural University, Research Stations (Volume I,No.Met-3/93 to Volume IV,No.Met12/98)of NWFP Agriculture University research stations, list are attached, which are used and using by researchers, faculties, PhD and MSc research students of Agri university and other concerned organizations:

1. **Amin,M.**and M.J.Khan. March 1993, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume I,No.Met-3/93.
2. **Amin, M.**and M.J.Khan. June 1993, Meteorological Observation,NWFP Agricultural University, Research Stations. Volume II,No.Met-6/93.
3. **Amin, M.**and M.J.Khan. Sep. 1993, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume III,No.Met-9/93.
4. **Amin, M.**and M.J.Khan. Dec. 1993, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume V,No.Met12/93.
5. **Amin,M.**and M.J.Khan. March 1994, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume I,No.Met-3/94.
6. **Amin,M.**and M.J.Khan. June 1994, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume II,No.Met-6/94.
7. **Amin, M.**and M.J.Khan. Sep. 1994, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume III,No.Met-9/94.
8. **Amin, M.** and M.J.Khan. Dec. 1994, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume IV,No.Met12/94.
9. **Amin,M.** and M.J.Khan. March 1995, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume I,No.Met-3/95.
10. **Amin,M.**and M.J.Khan. June 1995, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume II,No.Met-6/95.
11. **Amin,M.**and M.J.Khan. Sep. 1995, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume III,No.Met-9/95.
12. **Amin,M.**and M.J.Khan. Dec.1995, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume IV,No.Met12/95.
13. **Amin,M.**and M.J.Khan. March 1996, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume I,No.Met-3/96.
14. **Amin,M.**and M.J.Khan. June 1996, Meteorological Observation, NWFP Agricultural University, Research

Stations. Volume II, No. Met-6/96.

15. **Amin, M.** and M.J.Khan. Sep. 1996, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume III, No. Met-9/96.
16. **Amin, M.** and M.J.Khan. Dec. 1996, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume IV, No. Met-12/96.
17. **Amin, M.** and M.J.Khan. March 1997, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume I, No. Met-3/97.
18. **Amin, M.** and M.J.Khan. June 1997, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume II, No. Met-6/97.
19. **Amin, M.** and M.J.Khan. Sep. 1997, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume III, No. Met-9/97.
20. **Amin, M.** and M.J.Khan. Dec. 1997, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume IV, No. Met-12/97.
21. **Amin, M.** and M.J.Khan. March 1998, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume I, No. Met-3/98.
22. **Amin, M.** and M.J.Khan. June 1998, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume II, No. Met-6/98.
23. **Amin, M.** and M.J.Khan. Sep. 1998, Meteorological Observation NWFP Agricultural University, Research Stations. Volume III, No. Met-9/98.
24. **Amin, M.** and M.J.Khan. Dec. 1998, Meteorological Observation, NWFP Agricultural University, Research Stations. Volume IV, No. Met-12/98.

E. Outreach/continuing education and other related Activities of the department and University:

1. Practical training course for Agri. University students, on tractor driving, machinery adjustment, operation, maintenance and safety of farm machinery.
2. Practical training for, Field Assistants and Tractors Operators, Agri. officers from Afghanistan in the field of Farm Mechanization.
3. Provide and demonstrate small maize shellers to farmers in maize cultivated area of Swat and Monsehra, demonstration also to farmers in field day in Monsehra under outreach program.
4. Participation in Kisan conference held in NWFP Agri. University, in 1997, organized by continuing education for the farmers.
5. Participation in Seminar on Merger of NWFP Agri. University and Research System, held in NWFP Agricultural University on 27, 28-4-1998, organized by continuing education.
6. Checking, Repair, Maintenance of University Vehicles and Farm Machinery etc. of the University.

7. Repair, Maintenance, assembling of Farm Machinery etc. of NWFP Agriculture University and Research system of university.
8. Workshop tools and meteorological observations for university farm and all research stations of the university
9. Visits to different research Station for the checking repaired, maintenance and installation of farm machines, weather equipment etc. and training of concern persons of NWFP Agr. University Research System
10. Meteorological observation of NWFP Agri. University Research Stations, i.e. Installation, checking, repair and maintenance of meteorological equipment, Data collection, analysis, Compilation, Publication and dissemination.

F. Participation/attained different National and International Training, Workshop, seminars and Congress etc. during the period arranged by the University/Outreach/Continuing education/AUTA/ P&D and other Organizations.

Course attend	Dated	Institution/Organized
1. Farm machinery Testing, e.i. Tillage Equipment, Calibration of Planting Equipment, Harvesting and Threshing Equipment etc.	24/4/87 to 1/7/87	Farm Machinery Institute / NARC Islamabad
2. Microcomputer, Training Disk Operation System	2/11/88 to 11/11/88	NWFP, Agri. University Peshawar.
3. Training Course on Adjustment, Maintenance and repaired of Farm Equipment/Machinery	24/2/91 to 28/2/91	National Agriculture Research Center Islamabad by BARD
4. Statistical Analysis, using M-stat and Lotus 123	22/8/92 to 27/8/92	NWFP, Agri. University Peshawar
5. Program Development and Technology Transferred	25/1/93 to 26/1/93	NWFP, Agriculture University Peshawar organized by outreach, Directorate
6. Extension Methodology and Improving Teaching Skill.	25/5/93 to 27/5/93	NWFP, Agriculture University Peshawar organized by Outreach Directorate
7. Agro-meteorology	13/7/96 to 20/7/96	NWFP, Agr. Uni. Peshawar/WAMA
8. Meteorological Station operation and Data management	23/7/96 to 24/7/96	NWFP, Agr. Uni. Peshawar/WAMA
9. Issues and challenges Agricultural Education, Research and Environment in the next Millennium.	25/8/99 to 29/8/99	Baragali Campus, Univ. of Peshawar Organized by AUTA/FARSA
10. Designing, Crop Experiments	6/1/03 to 11/1/03	NWFP, Agr. Uni. Peshawar/HEC Islamabad organized by Agronomy Department
11. Conducting Crop Experiments and experimental Techniques	13/1/03 to 18/1/03	NWFP, Agr. Uni. Peshawar/HEC Islamabad organized by Agronomy Department
12. Scientific writing, Communication &	7/4/03 to 12/4/03	Directorate of Outreach NWFP

transfer of Technology Skill		Agr.University Research System
13. Office,Automation Course	4/8/03 to 29/9/03	North West Education Trust,Peshawar
14. 1 st ,International workshop on Agriculture Research Methodology	6/4/05 to 8/4/05	British Council Higher Education Commission / Joint,Higher Education, link program organized by the Agronomy Department of NWFP Agr.Uni Peshawar
15. PC-1 Development	16/7/07 to 18/7.07	NWFP, Agri. University Peshawar, Organized by Planning& Development
16 . Understanding the use of internet and up keeping the network syst	21/2/08 to 23/2/08	NWFP,Agr.University Peshawar, Organized by Planning&Development
17. Response to Challenges of Globalization in Agriculture”	02/07/2008 to 07/07/2008	Baragali Campus,Univ. of Peshawar Organized by AUTA
18. Higer Education Quality Assessment	13-12-2011	Khyber Pakhtunkhwa Agr. University Peshawar/QEC
19. Training Course on “Total Nitrogen, Mineral Nitrogen &Phosphorus Determination”	13/06/2011 to 16/06/2011	KPK, Agriculture University Peshawar. Organized by Water Management Department, funded by HEC
20. Training Course on “Determination of anions in Water and Soil”	20/06/2011 to 23/06/2011	KPK, Agriculture University Peshawar. Organized by Water Management Department, funded by HEC
21. Data, Analysis Technique for crop animal and social science	6/2/2014	The University of Agri. Peshawar, organized by (AUTA)
22. How to write a worth publishing research papers and thesis	3/4/14 to 4/4/14	The University of Agri. Peshawar, organized by AUTA
23. International Congress of soil science Soil Management in changing climate	18/3/14 to 20/3/14	National Agriculture Research Center (NARC) Islamabad organized by Soil Science Society of Pakistan (SSSP)
24. InnovativeTechnologiesand Sustainable Development in Agriculture”	19/08/14 to 22/08/2014	Baragali Campus,Univ. of Peshawar Organized by AUTA
25. International Congress of soil science “Healthy Soils for Food Security”	15/03/2016 to 17/03/2016	PMAS Arid Agriculture University Rawalpindi, Pakistan. organized by Soil Science Society of Pakistan (SSSP)
26. Training Course on New Technology Popularizing of Agricultural Mechanization for Developing Countries”	30/08/2016 to 26/09/2016	Sponsord by the Miniistry of Commerce and Organized by Chinese Academy of Agricultural Mechanization Sciences, Beijing, China.