



DR. TAHIR SARWAR

Professor

Department of Water Management
The University of Agriculture, Peshawar, Pakistan
Phone: +92-922-1304, Ext.3153 / +92-91-922-1283
Email: tahir@aup.edu.pk

RESEARCH INTEREST:

Deficit Irrigation, Agro-climatic Zoning, Water Quality Assessment, Performance Evaluation of Irrigation and Drainage Systems, Crop Water Productivity, Water Harvesting, GIS/RS Applications

EDUCATION:

- *Ph.D. Water Resources*
Iowa State University, USA
01/1993 – 12/1995
- *M.Sc. (Hons) Agriculture (Water Management)*
NWFP Agricultural University, Peshawar, Pakistan
09/1989 – 08/1991
- *B.Sc. (Hons) Agriculture (Water Management)*
NWFP Agricultural University, Peshawar, Pakistan
09/1985 – 08/1989

PROFESSIONAL TRAININGS / CERTIFICATES:

- *Remote Sensing Applications in Water Management*
The University of Agriculture, Peshawar, Pakistan
- *Application of GIS and Remote Sensing to Mountain Agric. and Land Use Management*
International Centre for Integrated Mountain Development (ICIMOD), Nepal
- *Hydrological Modeling*
Pakistan Forest Institute, Peshawar, Pakistan
- *GIS and its Application to Irrigation Management*
International Water Management Institute (IWMI), Lahore, Pakistan
- *Soil and Water Conservation*
Wageningen Agricultural University, The Netherlands
- *Agro-Meteorology*
Wageningen Agricultural University, The Netherlands
- *Preparation of ADP/Project Formulation & Appraisal & Responsibilities Thereof.*
Staff Training Institute, Peshawar, Pakistan
- *W/C, P.L.L. and Irrigation Agronomy*
On-Farm Water Management Training Center, D. I. Khan, Pakistan
- *Irrigation Delivery Scheduling*
Wageningen Agricultural University, The Netherlands

DISTINCTIONS/AWARDS/FELLOWSHIPS:

- *Postdoctoral Fellowship*
Higher Education Commission, Govt. of Pakistan
01/2008 – 01/2009
- *Research Excellence Award*
Iowa State University, USA
12/1995
- *Merit Scholarship*
Ministry of Education, Govt. of Pakistan
01/1993 – 12/1995
- *First Position in M.Sc. (Hons)*
Dept. of Water Management, NWFP Agricultural University, Peshawar, Pakistan
05/1992
- *First Position in B.Sc. (Hons)*
Dept. of Water Management, NWFP Agricultural University, Peshawar, Pakistan
08/1989
- *Bronze Medal in B.Sc. (Hons)*
NWFP Agricultural University, Peshawar, Pakistan
08/1989

WORK EXPERIENCE:

- *Professor*
Dept. of Water Management, The University of Agriculture, Peshawar, Pakistan
01/2010 – Present
- *Chairman*
Dept. of Water Management, The University of Agriculture, Peshawar, Pakistan
01/2016 – 01/2019
- *Postdoctoral Research Fellow*
University of Nebraska – Lincoln, USA
01/2008 – 12/2008
- *Associate Professor*
Dept. of Water Management, The University of Agriculture, Peshawar, Pakistan
01/2005 – 12/2009
- *Assistant Professor*
Dept. of Water Management, The University of Agriculture, Peshawar, Pakistan
09/2000 – 12/2004
- *Lecturer*
Dept. of Water Management, The University of Agriculture, Peshawar, Pakistan
02/1997 – 08/2000
- *Water Management Officer*
On-Farm Water Management, Govt. of NWFP, Pakistan
12/1990 – 01/1997

TRAININGS / SHORT COURSES CONDUCTED:

- *Crop Water Requirement, Irrigation Scheduling and Surface Irrigation Design*
- *Irrigation Operation & Management*
- *Watercourse Design and Improvement for Water Management Officers*
- *Water Management for Field Assistants*
- *Watercourse Improvement for Sub-Engineers*
- *Watercourse Design and Improvement for Social Organizers*
- *Watercourse and Water Storage Tank Design for Water Management Officers of Balochistan Agric. Dept.*
- *Crop Substitution*
- *Sustainable Use of Water Resources*
- *Irrigation Infrastructure Development and Water Management Practices*
- *Local Water Harvesting Technologies and Management Systems*
- *Equity in Water Distribution at Farm Level*

COURSES TAUGHT:

Undergraduate Courses:

- *Fundamentals of Water Management*
- *Soil, Plant Water Relations*
- *Hydrology*
- *Irrigation Scheduling*
- *Agricultural Drainage*
- *Agricultural Meteorology*
- *Water Quality*
- *GIS & Remote Sensing*

Postgraduate Courses:

- *Optimal Use of Water*
- *Remote Sensing and its Applications*
- *Climate Change and Water Resources*
- *Water Quality Management*
- *Water Harvesting*
- *Sprinkle and Trickle Irrigation*

RESEARCH SUPERVISED:

- *Supervised 03 Ph.D. scholars as Member Supervisory Committee*
- *Supervised 28 M.Sc. (Hons) students as Major-Supervisor/Chairman Supervisory Committee*
- *Supervised 19 M.Sc. (Hons) students as Co-Supervisor/Member Supervisory Committee*
- *Supervised 25 B.Sc. (Hons) students as Internship Supervisor*

RESEARCH AND DEVELOPMENT PROJECTS EARNED:

- *Enhancing resilience of communities through exploring the effects of climate change on the rainfall patterns, and existing rainwater management and livelihood practices of communities in Khyber Pakhtunkhwa Province.*

Funded By: Norwegian Church Aid, Norway.
Approved Cost: Rs. 2.495 million

- *Evaluation of Spatio-temporal changes in water logging and salinity of SCARP Mardan using GIS and GPS.*

Funded By: Higher Education Commission, Govt. of Pakistan
Approved Cost: Rs. 0.200 million

- *Economizing on-farm consumptive water budget of sole and mix forage cultivation.*

Funded By: Higher Education Commission, Govt. of Pakistan.
Approved Cost: Rs. 0.200 million

- *Management of small-scale water logging and salinity in major irrigated areas of NWFP.*

Funded By: Pakistan Council of Research in Water Resources, Islamabad.
Approved Cost: Rs. 4.475

- *Evaluation and development of appropriate water harvesting technologies.*

Funded By: Pakistan Council of Research in Water Resources, Islamabad.
Approved Cost: Rs. 0.255 million

- *A case study for alleviation of small-scale water logging and salinity problem in Peshawar valley.*

Funded By: Pakistan Council of Research in Water Resources, Islamabad.
Approved Cost: Rs. 0.253 million

- *Strengthening the Department of Water Resources Management at AUP.*

Funded By: Higher Education Commission, Govt. of Pakistan.
Approved Cost: Rs. 3.60 million

- *Strengthening & Development of NWFP Agricultural University Peshawar (Water Management Component).*

Funded By: Higher Education Commission, Govt. of Pakistan.
Approved Cost: Rs. 36.0 million

PUBLICATIONS:

Total Publications: 33

- *In Peer Reviewed Journals:* 26
- *In Workshop/Seminar Proceedings:* 07

MEMBERSHIP OF ACADEMIC BODIES / COMMITTEES:

- *Convener, Board of Studies in Water Management
2016 to 2018*
- *Member, Board of Advanced Studies and Research
2015 to date*
- *Member, Board of Faculty, Crop Production Sciences
2010 to date*
- *Member, Board of Faculty, Crop Protection Sciences
2017 to date*
- *Member, Board of Studies of Environmental Sciences, COMSATS, Abbottabad
2015 to 2018*
- *Convener, National Curriculum Revision Committee in Water Management
2010, 2014*
- *Member, Departmental Promotion & Appointment Committee
2015 to date*
- *Member, Selection Committee, AUPS&C
2015 to 2017*
- *Member, Academic Council
2017 to date*
- *Convener/Member, Enquiry Committees
2014 to date*