


## Faculty Member's Profile

	<b>Eng. Shamim Ara Memon</b>	
	<b>Assistant Professor</b>	
	<b>M.Sc (Hydropower Development) Norwegian University of Science &amp; Technology (NTNU) , Norway</b>	
	<b><u><a href="#">Department of Irrigation &amp; Drainage, Faculty of Agricultural Engineering, Sindh Agriculture University Tandojam</a></u></b>	
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<b>HEC Approved Supervisor</b>	Yes	

**Description:** Shamim Ara Memon is a multi-disciplinary engineering professional with specialization in Hydropower development and Integrated water resources management. She has acquired bachelor's degree in civil engineering. She has awarded NORAD fellowship for pursuing M.Sc degree in "Hydropower Development" from the department of Hydraulic and Environmental Engineering, Norwegian University of Science & Technology(NTNU),Trondheim, Norway. She has participated in the Training of Trainers Courses on " Integrated Urban Flood Management (IUFM)" at Bangkok, Thailand and also "Integrated Water Resources Management (IWRM)" at Kandy, Sri Lanka.

## Research Profile

### Research Interests:

- Irrigation Drainage
- Integrated Water Resources Management
- Hydropower Development
- Ground water hydrology

### Projects

- **Under-Graduate Research Project:**

Conducted Research Project entitled, "**ESTIMATION OF SATURATION FLOW AT SIGNAL CONTROLLED INTERSECTIONS**". A research dissertation submitted in the partial fulfillment of the requirement of degree of Bachelor of Engineering in Civil, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan. in 1990.

- **Post-Graduate Research Project:**

Conducted Research Project entitled, "**HEADWORKS CASE STUDY: KHAN KHWAR HYDROPOWER PROJECT, PAKISTAN**". A research dissertation submitted in the partial fulfillment of the requirement of Degree of Master of Science in "**Hydropower Development**", Department of Hydraulic & Environmental Engineering, Norwegian University of Science and Technology (NTNU) Trondheim, Norway, in 1997.

### Research Publications

1	Muhammad Sohail Memon, Zhou Jun1, Guo Jun1, Fahim Ullah, Muhamamd Hassan, <b>Shamim Ara</b> , Ji Changing "Comprehensive review for the effects of ridge furrow plastic mulching on crop yield and water use efficiency under different crops" International Agricultural Engineering Journal Vol. 26, No. 2 pp-58-66 June, 2017
2	Irfan Ahmed Sheikh, Munir Ahmed Mangrio, <b>Shamim Ara Memon</b> , Asadullah Sarki and Shoukat Soomro "Impact Assment of water course lining in barani area: A case study of Karachi" Journal of science International (Lahore) 28(5),4607-4610, September-October 2016
3	Irfan Ahmed Sheikh, Munir Ahmed, Muhammad Saffar Mirjat, Shakeel Hussain Chatha , <b>Shamim Ara Memon</b> , and Ghulam mujtaba Khushk "Computation of reference evapotranspiration for arid region through mass transfer methods" Int. J. Agric. Appl. Sci. Vol. 8, No.1, 2016

4	Rajesh Kumar , Muhammad Saffar Mirjat, Hafiz-Ur-Rehman, <b>Shamim Ara Memon</b> , Muhammad Aslam Samo “Evaluation of Bubbler Irrigation System at Different Emission Flow Rates for Young Mango Orchard” American Journal of Engineering Research (AJER), Volume-5, Issue-8, pp-35-42, 2016
5	<b>Shamim Ara memon</b> , Rajesh Kumar, Munir Ahmed Mangrio, Raza Hussain Saraz “ Comparison of observed with theoretical roughness coefficient under lined and unlined watercourses” Journal of Science International (Lahore) 27(6), 6053-6056, Nov-Dec 2015.
6	Mirjat, M.S., A.S. Chandio, <b>Shamim A. Memon</b> , and M.U. Mirjat. “Nitrate Movement in the Soil Profile under Irrigated Agriculture: A Case Study” Agricultural Engineering International, the CIGR E-Journal. LW 07 024 Vol. X. February 2008.
7	A.A. Tagar, A.A.Siyal, <b>S.A. Memon</b> , “Effect of water quality and methods of water application on the leaching efficiency of saline soil” Pakistan Journal of Agriculture, Agricultural Engineering and Veterinary sciences, Volume 23, No.1, May 2007
8	G. M.Memon, F.C. Oad, <b>S.M.Memon</b> , A. Soomro “ Nitrate- Nitrogen Leaching through Lysimeter under various cumulative pan evapotranspiration” Pakistan Journal of applied Sciences Vol-1, No. 1, April 2001.
9	G.M.Memon, F.C. Oad, <b>S.M. Memon</b> “ Lysimeter study for water Consumptive and water use efficiency in Maize crop” Pakistan Journal of applied Sciences Vol-1 , No. 2, April 2001
10	M. A. Issani , A. Soomro, M. M. Memon, <b>S.M. Memon</b> “ Operation and maintenance of different irrigation systems and its importance in irrigation scheduling - A Review” Pakistan Food and Agricultural Review, Karachi Vol-5 December 1999
11	S . M. Qayyum , M .M. Memon , <b>S. M. Memon</b> , “Impact of irrigation intervals and sowing methods on the growth and yield of two safflower cultivars” Sesame and safflower Newsletter, Institute of Sustainable Agriculture (IAS), CSIC, Radaba, SPAIN, Vol-10, 1995

## **Teaching Profile**

### **Courses**

- Design of Hydraulic Structures
- Design of pressurised Irrigation Systems
- Hydraulic machinery
- Pumps & Tube wells
- Ground Water Hydrology
- Fluid mechanics
- Irrigation & Drainage Engineering

### **Students Projects: SUPERVISED / CO-SUPERVISED THESIS WORK /RESEARCH PROJECTS**

#### **Project 1, Undergraduate Level (B.E.)**

- Assessment of the characteristics of an aquifer from pumping test by different methods.
- Estimation of roughness co-efficient for watercourse design
- Performance evaluation of newly installed Drip Irrigation System

#### **Project 2 Postgraduate Level (M.E)**

- Quality Assessment of Tubewell water and its impact on soil properties and crop yield in Taluka Tando allahyar.
- Assessment of crop water requirement for OKRA (*Abelmoschus Esculentus L.*) under differ water qualities.

#### **Project 3, PhD Project**

#### **Additional Tasks:**

- Team member for degree program M.E. in Irrigation & Drainage, department of Irrigation & Drainage, Faculty of Agricultural Engineering, Sindh Agriculture University, Tandojam