

## CURRICULUM VITAE

### MASHOOQUE ALI TALPUR

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#### **PERSONAL INFORMATION**

Date of Birth	10 <sup>th</sup> April, 1971
Place of Birth	Hyderabad, Sindh, Pakistan
Citizenship	Pakistani
Gender	Male (Married)
Children	Two

#### **KEY QUALIFICATIONS**

A Professional Engineer, with more than 23 years working experience in the field of Water resources, Irrigation, Agriculture, Social and Environmental Studies. Working as an Associate professor and chairman in the department of irrigation and drainage, Faculty of Agricultural Engineering, Sindh Agriculture University Tandojam. Worked as Assistant Professor and Lecturer in Sindh Agriculture University Tandojam. Worked as Senior Irrigation Engineer in Techno-Consult International, worked as Deputy Director (Field) in Sindh On-farm Water Management department Government of Sindh, worked as Social Mobilizer cum Team leader for, Sindh Irrigation and Drainage Authority (SIDA) at Umarmkot, Sindh, worked as research officer for, International Water Management Institute, (IWMI) at Hyderabad, Sindh, engaged as Program Officer (Trainings) for, Sindh Agriculture and Forestry Workers Coordinating Organization, (SAFWCO), earlier affiliated as Social Mobilizer for, SAFWCO, also worked as Junior Irrigation Engineer for, International Irrigation Management Institute (IWMI), at Mirpurkhas and also acquire research fellowship for Master Engineering from International Water Management Institute (IWMI) Pakistan.

#### **EDUCATION**

- **PhD (Irrigation Engineering)**, Engineering College, Nanjing Agricultural University, P.R. China (March, 2010 to June, 2013).

PhD Scholarship from SAU Tandojam & Higher Education Commission Pakistan

- **M.A (Sociology)** 2<sup>nd</sup> Class, University of Sindh Jamshoro, 2006.
- **M.E (Irrigation and Hydraulics)** First Class, Mehran University of Engineering and Technology (MUET), Jamshoro, 1998.

M.E Scholarship from International Water Resources Management Institute (IWMI) for research only

- **B.E (Agriculture)** First Class, Sindh Agriculture University (SAU) , Tandojam, Sindh, 1996.

**RESEARCH THESIS PUBLISHED**

S #	Title	Department	Qualification
1.	Study on Water Requirements of Rice Crop and Irrigation Modeling	Irrigation theory and Equipments	PhD, 2013
2.	Capacity of Farmers Organization of Liyari Minor, Sanghar	Sociology	M.A, 2006
3.	Remodeling Canal outlet Structures Using an Unsteady Flow Simulation (SIC) Model	Irrigation and Hydraulics	M.E, 1998
4.	Measurement of Coefficient of Discharge	Agricultural Engineering	B.E, 1995

**CONTRIBUTION IN TRAININGS AS A RESOURCE PERSON**

S #	Item	Department/Institution	Venue
1.	Improved Irrigation Techniques for Tomato Crop	SOFWM, Sindh	Hyderabad
2.	Land Preparation and Improved Irrigation Techniques for Onion Crop	SOFWM, Sindh	Hyderabad
3.	Discharge Measurement	IWMI, Hyderabad	Mirpurkhas
4.	Operation and Maintenance of the Distributaries/Minors	IWMI, Hyderabad	Mirpurkhas
5.	Measurement of channel Losses	IWMI, Hyderabad	Mirpurkhas
6.	Walk Thru Survey of Minors	IWMI, Hyderabad	Sanghar

**RESEARCH PAPERS PUBLISHED**

S #	Authors	Title	Journal	Status
1.	Shamim Ara Memon, Irfan Ahmed Sheikh, <b>Mashooqe Ali Talpur</b> , Munir Ahmed Mangrio	Impact of deficit irrigation strategies on winter wheat in semi-arid climate of sindh	Agricultural Water Management, vol., 243, 2021	2021
2.	Ghulam S. Keerio, Hareef A. Keerio, Khalil A. Ibupoto, Mahmood Laghari, Sallahuddin Panhwar, <b>Mashooqe A. Talpur</b>	Arsenic removal through bio sand filter using different bio-adsorbents	Journal of Water and Land Development	2021
3.	Mazhar Hussain Tunio, Jianmin Gao, <b>Mashooqe Ali Talpur</b> , Imran Ali Lakhair, Farman Ali Chandio, Sher Ali Shaikh, Kasif Ali Solangi	Effect of different irrigation frequencies and rates of rice straw on yield and water productivity of wheat crop.	International Journal of Agricultural and Biological Engineering (IJABE), Pakistan, vol., 13,	2020
4.	Veero Mal Bheel, Asif Ali Shaikh, Ashfaque Ahmed Memon, Sher Khan Awan and <b>Mashooqe Ali Talpur</b>	Development of Inverse Mathematical Model of Rouse Formula to Estimate Suspended Sediment Concentration Along Width of Channel	Indian Journal of Science and technology, vol. 13, 2020	2020

5.	Munir Ahmed Mangrio, Tahir Ali Shaikh, <b>Mashooque Ali Talpur</b> , Irfan Ahmed Shaikh and Abdul Saboor Soomro	Equity in water distribution along farmers operated secondary canal in nara canal command area	Presented in International conference of Agricultural engineering and Technology (ICAET), Pakistan	2019
6.	I. A. Shaikh, M. A. Mangrio, <b>M. A. Talpur</b> , M. U. Mirjat, G. M. Khushk	Performance of pan evaporation based methods under arid climate of tandojam, sindh, pakistan	Pak. J. Agri., Agril. Engg., Vet. Sci., vol. 34 (2), 2018	2018
7.	M. U. Mirjat, <b>M. A. Talpur</b> , M. A. Mangrio, A. A. Tagar, S. A. Junejo and I. A. Shaikh	Water delivery performance of secondary canals in terms of equity and reliability in sindh pakistan	Pak. J. Agri., Agril. Engg., Vet. Sci., 2017, 33 (1)	2017
8.	M. U. Mirjat, <b>M. A. Talpur</b> , M. A. Mangrio, and A. A. Tagar	Water delivery performance of secondary canals in terms of adequacy and water use efficiency in sindh pakistan	Sindh Univ. Res. Jour. (Sci. Ser.) Vol.49 (3)	2017
9.	H. R. Mangio, M. S. Mirjat, <b>M. A Talpur</b> and A. Sarki	Purification of greywater using reedbed technology: effect on TDS, SO <sub>4</sub> <sup>2-</sup> , PO <sub>4</sub> <sup>2-</sup> and NO <sup>3-</sup>	Pak. J. Agri., Agril. Engg., Vet. Sci., 2017, 33 (2): 243-253	2017
10.	H. R. Mangio, M. S. Mirjat, I. Rajpar, <b>M. A Talpur</b> , S. A. Junejo, D. M. Cuong	Effect of Reed Grasses Treated Grey Water and Normal Water on Growth and Yield of Maize Crop	Sindh Univ. Res. Jour. (Sci. Ser.) Vol.49(2) 271-278	2017
11.	<b>M. A. Talpur</b> ; J. Changying; S. A. Junejo; N. Leghari, M. Ran, M. A. Mangrio and A. R. Shah	Assessment of water requirements of rice crop: An innovative approach	Sindh Univ. Res. Jour. (Sci. Ser.) Vol.49 (1) 13-18	2017
12.	<b>M. A. Talpur</b> ; S. A. Junejo; M. A. Mangrio; M. Ran and A. R. Shah	Calibration of Different Watercourses Outlets at Rahuki Distributary	Pak. J. Agri., Agril. Engg., Vet. Sci., 2016, 32 (2): 212-220	2016
13.	H. R. Mangio, M. S. Mirjat, <b>M. A. Talpur</b> , I. Rajpar and A. Sarki	Effect of Reedbed System on Grey Water Treatment	Pak. J. Agri., Agril. Engg., Vet. Sci., 2016, 32 (2): 237-245	2016
14.	A. R. Shah; M.S Mirjat; A.Q Mughal; I. Rajpar and <b>M. Talpur</b>	Growth, Yield and Root Development of Maize as Influenced by Tillage and Tractor Traffic	Pak. J. Agri., Agril. Engg., Vet. Sci., 2016, 32 (1): 53-65	2016

15.	Ali Raza Shah, <b>Mashooque Talpur</b> , Mahmood Laghari, Ali Mujtaba Shah, Ahmed Memon, Shakeel Ahmed Soomro and Majeeduddin Solangi	Fuel consumption and operational cost of various tillage implements	Sci.Int.(Lahore), 28(3),2651-2653	2016
16.	<b>Mashooque Ali Talpur</b> , Ji Changying, Shafique Ahmed Junejo, Ma Ran, Asadullah Sarki, Ali Raza Shah and Mahmood Laghari	Effect of weather on rice crop cultivation: A case study of jiangpu farm, nanjing-china	Sci.Int.(Lahore), 28(2),1275-1278, 2016	2016
17.	S. K Tareen, <b>M. A Talpur</b> , M. A Mangrio, I. A Nizamani, V. Suthar, M. A Issani, and M. Solangi	Performance Evaluation of Some Lined Watercourses Off-Taking From Mubarak Wah in District Tando Mohammad Khan, Pakistan	Sci.Int.(Lahore), 28(3),2683-2690, 2016	2016
18.	Majeeduddin Solangi, Abdul Malik Solangi , Rajesh Kumar Soothar, Munir Ahmed Mangrio, <b>Mashooque Ali Talpur</b> and Allah Wadayo Gandahi	Plant nutrient content of okra as affected by different levels of soil applied nutrients	Sci.int.(lahore), 27(5),4385-4391,2015 issn 1013-5316; coden: sinte 8	2015
19.	S. A. Junejo, Qi You Zhou, <b>M. A. Talpur</b> , Lu Debao and S. A. Shaikh	Imaging of contaminant plumes using ERT in Qinhuai River water and its bed caused by urban effluents at Nanjing, China	Environmental Earth Sciences DOI 10.1007/s12665-015-4728-5	2015
20.	Soothar, R. K., A. S Chandio, M. S. Mirjat, M. A. Mangrio, M. U. Mirjat and <b>M. A. Talpur</b>	Comparison of bubbler and basin irrigation methods in a Bivarietal Mangifera Indica orchard in Pakistan	Sci. Intl (Lahore), 27 (2): 1229-1236	2015
21.	Munir Ahmed Mangrio, Riaz Ali Buriro, Irfan Ahmed Shaikh, Naimatullah Leghari, Mushtaque Ahmed Issani, <b>M. A. Talpur</b> and Rajesh Kumar Soothar.	Evaluation of Recharge Behavior Through Different Water Balance Approaches in Canal Command	Sci. Int. (Lahore) 27 (1), 359-364	2015
22.	Munir Ahmed Mangrio, Muhammad Saffar Mirjat, Naimatullah Leghari, Riaz Ali Buriro, <b>M. A. Talpur</b> , Irfan Ahmed Shaikh and Muhammad Uris Mirjat.	Evaluating Farmers Perceptions and Technical Approach Regarding Ground Water Extraction in Lower Sindh	Sci. Int. (Lahore) 27 (1), 371-376	2015
23.	S. A. Junejo, Qi You Zhou, <b>M. A. Talpur</b> , Wang Dongqing, Yang Jian-long	Quantification of electrical resistance to estimate NaCl behavior in a column under controlled conditions	Geo Chemistry International, Moscow Russia. 52(9), 794–804	2014

24.	S. A. Junejo, Qi You Zhou, <b>M. A. Talpur</b> , S. A. Shaikh, Yang Jian-long	Application of ERT For 2-D Imaging of Water and Underlying Bed at Laboratory	Sindh Univ. Res. Jour. (Sci. Ser.) Vol.45 (4) 765-770	2013
25.	<b>M. A. Talpur</b> , Ji Changying1, S. A. Junejo and A. A. Tagar	Impact of Rice Crop on Soil Quality and Fertility	Bulgarian Journal of Agricultural Science (BJAS)	2013
26.	<b>Mashooque Ali</b> , Ji Changying, Shafique Ahmed Junejo, Ahmed Ali Tagar and B.K Ram	Effect of different water depths on growth and yield of rice crop	African Journal of Agricultural Research (AJAR)	2013
27.	Ma Ran, Zhu Sihong, Yi Lidaer, Shi Junlong, <b>M. A. Talpur</b>	Development of single outstretch pole magneto-rheological damper on Tractor front suspension.	Transactions of the Chinese Society of Agricultural Engineering	2012
28.	F. A. Chandio, Ji Changying, A. A. Tagar, I. A. Mari, <b>M. A. Talpur</b> and A. G. Soomro	Assessment of soil fertility at different working depths of moldboard plow under silty loam soil	Journal of Stored Products and Postharvest Research	2012
29.	<b>Mashooque Ali</b> , Ji Changying, Farman Ali Chandio, Shafique Ahmed Junejo	Impact of different irrigation applications on rice crop in paddy field	African Journal of Agricultural Research (AJAR)	Accepted 2012
30.	<b>M. A. Talpur</b> , Ji Changying, S. A. Junejo, T. Guangzhao, A. A. Tagar and F. A. Chandio	A review on the enhancement of rice production in paddy field with minimum input of water	African Journal of Agricultural Research (AJAR)	2011
31.	<b>Mashooque Ali</b> , Ji Changying, Farman Ali Chandio, Shafique Ahmed Junejo and Irshad Ali Mari	Examination into oven methods of moisture content measurement of ungrounded and grounded (long and short) rice for storage	Journal of Stored Products and Postharvest Research	2011
32.	Ujjan G.M, <b>Talpur M. A</b> and Lashari B	Operation and Maintenance Cost of Drainage System: The Case Study of Bareji Distributary, Sindh, Pakistan	Published in the proceeding of the National Seminar on Drainage in Pakistan MUET Jamshoro	2000
33.	Lashari B, <b>Talpur M</b> , and Parthapar S.A	Operation Performance and use of SIC model at Bareji Distributary, Mirpurkhas, Sindh, Pakistan	Proceeding of the 2nd Regional Conference on Environment-Water at Lausanne, Switzerland	1999

**RESEARCH REPORT PUBLISHED**

S #	Authors	Title	Journal	Status
1.	Lashari B, Murray-Rust H and <b>Talpur M</b>	Achieving Stable Canal Conditions Following Remodeling: The Case Study of Bareji Distributary, Sindh, Pakistan	International Water Management Institute (IWMI) Pakistan	Aug., 2000

**BOOKLET PUBLISHED**

S #	Authors	Title	Published	Status
1.	Shafique Ahmed Mahessar and <b>Mashooque Ali Talpur</b>	Water Course and its importance (published in local language, "Sindhi")	Published by District office of Water Management	November, 2006

**ARTICLES PUBLISHED IN NEWSPAPERS**

Four articles published in local Sindhi newspaper, "Khabroon" during 2005 on importance of irrigation water.

S #	Authors	Title	Newspaper	Published
1.	Mohsin Ali Joyo and <b>Mashooque Ali Talpur</b>	To get maximum yield with minimum irrigation	Khabroon	March 12, 2005
2.	<b>Mashooque Ali Talpur</b>	Defects in Irrigation system of Sindh Province		March 21, 2005
3.	Mohsin Ali Joyo and <b>Mashooque Ali Talpur</b>	Scarcity of water and lining of watercourses		April 08, 2005
4.	<b>Mashooque Ali Talpur</b>	Taking care of farmers during lining of watercourses		May 02, 2005

**PROFESSIONAL EXPERIENCE**

<b>Time Duration</b>	<b>From Dec, 2015 to Continue</b>
Organization / Institution	Sindh Agriculture University, Tandojam
Designation: <b>Associate Professor</b>	Faculty of Agricultural Engineering, SAU Tandojam <ul style="list-style-type: none"> <li>• Teaching students of the FAE under graduation, M. E and PhD programs.</li> <li>• Acting as Chairman Department of Irrigation and Drainage, Since 2017.</li> <li>• Supervising under graduate students for their research activities.</li> <li>• Supervising PhD and M.E students for their research activities</li> </ul>

<b>Time Duration</b>	<b>From March, 2014 to Dec, 2015</b>
Organization / Institution	Sindh Agriculture University, Tandojam
Designation: <b>Assistant Professor</b>	Faculty of Agricultural Engineering, SAU Tandojam <ul style="list-style-type: none"> <li>• Teaching students of the FAE under graduation program</li> <li>• Teaching students of M.E and PhD</li> <li>• Supervising under graduate students for their research activities.</li> <li>• Supervising PhD and M.E students for their research activities</li> </ul>
<b>Time Duration</b>	<b>From September, 2013 to March, 2014</b>
Organization / Institution	Sindh Agriculture University, Tandojam
Designation: <b>Lecturer</b>	Faculty of Agricultural Engineering, SAU Tandojam <ul style="list-style-type: none"> <li>• Teaching students of the FAE under graduation program</li> <li>• Teaching students of M.E and PhD</li> <li>• Supervising under graduate students for their research activities.</li> <li>• Supervising PhD and M.E students for their research activities</li> </ul>
<b>Time Duration</b>	<b>From November, 2007 to Feb, 2010</b>
Organization / Institution	Techno-Consult International, Karachi
Designation: Senior <b>Irrigation Engineer</b>	Name of Projects <ul style="list-style-type: none"> <li>• Feasibility Study of Small Nai's of Sindh</li> <li>• Feasibility study for redesigning of Akram wah Channel to enhance its capacity from 3600 cusecs to 6000 cusecs</li> <li>• Baluchistan Small Scale Irrigation Project (BSSIP)</li> </ul> Main Responsibilities <ul style="list-style-type: none"> <li>• Design and investigations of irrigation system &amp; hydraulic structures.</li> <li>• Economic and Social analysis of agricultural related projects.</li> <li>• Environmental analysis of the projects.</li> </ul>
<b>Time Duration</b>	<b>From May, 2005 to Oct, 2007</b>
Organization / Institution	Sindh On-farm Water Management, Govt. of Sindh
Designation: <b>Deputy Director (Field) / District Officer</b>	Name of Projects <ul style="list-style-type: none"> <li>• National Programme for Improvement of 29000 Watercourses (NPIW) in Sindh</li> </ul> Main Responsibilities <ul style="list-style-type: none"> <li>• Provide over all leadership at the district level to ensure the achievements of the program targets.</li> <li>• Maintain close liaison with the district governments and other line agencies.</li> <li>• Issue technical sanctions up to five lacs, forward cases of amount exceeding than 5 lacs to the Executive District Officer (Agriculture) for sanction.</li> </ul>

	<ul style="list-style-type: none"> <li>• Prepare and submit consolidated progress reports (Physical &amp; Financial) of the District.</li> <li>• Spot checking the quality, standard and specification of the lining work.</li> <li>• Maintain financial records</li> </ul>
<b>Time Duration</b>	<b>From Dec, 2004 to May, 2005</b>
Organization / Institution	Sindh Irrigation & Drainage Authority (SIDA)
Designation: <b>Social Mobilizer cum Field Team In-charge Umarkot</b>	<p>Name of Project</p> <ul style="list-style-type: none"> <li>• Sindh On-farm Water Management</li> </ul> <p>Main Responsibilities</p> <ul style="list-style-type: none"> <li>• Provide awareness to community members for formation of Watercourse Associations (WCA) and Farmers Organizations (FO).</li> <li>• Organize collaborative activities of FO's with line agencies.</li> <li>• Calibration of structures (Head regulators, X-regulators, Outlets etc) and gauges.</li> <li>• Hydraulic surveys of minors for proper operation and maintenance.</li> <li>• Arranging training's, workshops and to build capacity of the Farmers Organizations</li> </ul>
<b>Time Duration</b>	<b>From June, 2004 to Dec, 2004</b>
Organization / Institution	International Water Management Institute (IWMI)
Designation: <b>Research Officer</b>	<p>Name of Project</p> <ul style="list-style-type: none"> <li>• Usage of skimming ground water in Sindh</li> </ul> <p>Main Responsibilities</p> <ul style="list-style-type: none"> <li>• Proper usage of skimming ground water for agriculture purpose.</li> <li>• Usage of new technology for saving of water.</li> <li>• Improve quality and quantity of agriculture crops.</li> </ul>
<b>Time Duration</b>	<b>From April, 2003 to June, 2004</b>
Organization / Institution	Sindh Agriculture & Forestry Workers Coordinating Organization (SAFWCO)
Designation: <b>Program Officer (Trainings)</b>	<p>Name of Project</p> <ul style="list-style-type: none"> <li>• Farmer Managed Irrigated Agriculture at Liyari Minor, Sanghar</li> </ul> <p>Main Responsibilities</p> <ul style="list-style-type: none"> <li>• Provide leadership guidance social organizers and all staff of trainings.</li> <li>• Designing project proposal, report writing and other requirements of the project.</li> <li>• Involvement of the communities during planning and internal evaluation of the projects.</li> <li>• To carry out Participatory Community Development Dialogues (PCDD) for identifying development issues.</li> <li>• Establishing strong relation between NGO's and line agencies.</li> </ul>



<b>Time Duration</b>	<b>From Sep, 2001 to April, 2003</b>
Organization / Institution	Sindh Agriculture & Forestry Workers Coordinating Organization (SAFWCO)
Designation: <b>Social Organizer</b>	<p>Name of Project</p> <ul style="list-style-type: none"> <li>Farmer Managed Irrigated Agriculture at Liyari Minor, Sanghar</li> </ul> <p>Main Responsibilities</p> <ul style="list-style-type: none"> <li>Mobilize rural community and organize them at village level.</li> <li>Arranging training's, workshops and seminars to build capacity of the Communities.</li> <li>Motivated Male organizations for formation of female organizations and for girl's education.</li> </ul>
<b>Time Duration</b>	<b>From June, 2001 to August, 2001</b>
Organization / Institution	Farmer Organizations Council (FOC), Mirpurkhas, Sindh
Designation: <b>Technical Advisor</b>	<p>Name of Project</p> <ul style="list-style-type: none"> <li>Capacity Building of Farmer Organizations (FOs)</li> </ul> <p>Main Responsibilities</p> <ul style="list-style-type: none"> <li>Gathering of data of actual and measured discharges of the Distributaries and minors.</li> <li>The information collected regarding cropping pattern, cropping intensity etc.</li> <li>Data regarding tube well and their pumpage also recorded through Farmers Organizations (FO).</li> <li>Compiling and analyzing of this data regarding market prices of Agriculture commodities.</li> </ul>
<b>Time Duration</b>	<b>From May, 1999 to Oct, 2000</b>
Organization / Institution	International Water Management Institute (IWMI)
Designation: <b>Junior Irrigation Engineer</b>	<p>Name of Project</p> <ul style="list-style-type: none"> <li>Farmer Managed Irrigated Agriculture in Sindh, Pakistan</li> </ul> <p>Main Responsibilities</p> <ul style="list-style-type: none"> <li>Conduct Socio-economic base line survey of the project area.</li> <li>Provide awareness to community members for formation of Watercourse Associations (WCA) and Farmers Organizations (FO).</li> <li>Organize collaborative activities of FO's with line agencies.</li> <li>Calibration of structures (Head regulators, X-regulators, Outlets etc) and gauges.</li> <li>Hydraulic surveys of minors for proper operation and maintenance.</li> </ul>

<b>Time Duration</b>	<b>From July, 1997 to Oct, 1998</b>
Organization / Institution	International Water Management Institute (IWMI)
Designation: <b>Research Fellow</b>	<p>Name of Project</p> <ul style="list-style-type: none"> <li>Farmer Managed Irrigated Agriculture in Sindh, Pakistan</li> </ul> <p>Main Responsibilities</p> <ul style="list-style-type: none"> <li>Conduct research on Remodeling of canal out let structures using Simulation of Irrigation Canal (SIC) software at Heran Distributary, Sanghar.</li> <li>Calibration of structures (Head regulators, X-regulators, Outlets etc) and gauges.</li> <li>Hydraulic surveys of minors for proper operation and maintenance.</li> </ul>

#### **SUPERVISOR/CO-SUPERVISOR ON VARIOUS DEGREE PROGRAMS**

<b>S #</b>	<b>Name of Student</b>	<b>Title of Research</b>	<b>Supervisor/ Co-supervisor</b>	<b>Status</b>
<b>PhD Students</b>				
1.	Dr. Muhammad Uris Mirjat	Performance and Evaluation of Irrigation System Operation through Institutional Reforms in Sindh: Case Study of Mirpurkhas Sub-Division	Supervisor	Completed
2.	Dr. Munir Ahmed Mangrio	Developing Crop Based Strategies for Efficient Allocation and Rotational Scheduling of Canals	Co-supervisor	Completed
3.	Dr. Hafizur Rehman Mangio	Reed bed Technology for Grey Water Treatment to Meet Water Demand for Urban and Agriculture Use	Co-supervisor	Completed
4.	Engr. Rahim Bux Vistro	Enhancing the Irrigation and Fertilizer Use Efficiency of Furrow Irrigation Methods	Supervisor	In process
5.	Engr. Shamim Ara Memon	Simulating future water demand and grain yield of wheat under changing climatic conditions of Sindh Province	Co-supervisor	In process
6.	Engr. Shoukat Ali Soomro	Experimental and Simulation Study of Soil Water Dynamics under Basin DRIIP and Basin Irrigated Mangoes	Co-supervisor	In process

<b>M.E Students</b>				
1.	Engr. Shoab Memon	Effect of different saline water qualities on soil properties and yield of potato crop	Supervisor	Completed
2.	Engr. Waleed Sayed	The effect of conjunctive irrigations on soil fertility and yield of potato crop	Supervisor	Completed
3.	Engr. Nabi Bux Abro	Quantification of Fertilizers, Pesticides and other Chemical Transportation to the Groundwater in Lysimeter	Supervisor	Completed
4.	Engr. Nazir Ahmed Bhurgari	Demarcation of Fresh Ground Water in Muhammad Khan Distributary Command and Impact of Ground Water use on Socio-economics Irrigated Agriculture Farming Community	Supervisor	Completed
5.	Engr. Dalip Ahmed	Performance Evaluation of Three Karezes of Tehsil Turbat District Kech Balochistan	Supervisor	Completed
6.	Engr. Shahryar Ashrafani	Assessment of suspended sediment in different types of lined and unlined water courses	Supervisor	Completed
7.	Engr. Shah Nawaz Khan Tareen	Performance Evaluation of Some Lined Watercourses off-taking from Mubarak Wah in District Tando Muhammad Khan	Supervisor	Completed
8.	Engr. Majid Hassan Leghari	Effect of Different Sizes of Raised Bed and Irrigation Intervals on Growth and Yield of Maize Crop	Supervisor	Completed
9.	Engr. Mazhar Hussain Tunio	Effect of Different Rates of Rice Straw Mulching and Different Irrigation Frequencies on Yield and Water Productivity of Wheat Crop	Supervisor	Completed
10.	Engr. Kamran Phullan	Effect of different type of lining materials on seepage losses of earthen watercourse	Supervisor	Completed
11.	Engr. Khurshad Hussain Tunio	Effect of Suspended Sediment on Different Hydraulic Parameters of the Channel	Supervisor	Completed
12.	Engr. Saeed Ahmed Dahri	Design and fabrication of portable long throated flume for measuring flow rate of earthen water channels	Co-supervisor	Completed
13.	Engr. Asif Iqbal	Performance Evaluation of Drip	Co-supervisor	Completed

		Irrigation System for Two Different Crops		
14.	Engr. Muhammad Shahid Rajput	Effect of Tal-Ya Tray and Mulching on Water Productivity of Papaya Orchard	Co-supervisor	Completed
15.	Engr. Bhagat Kanwar Ram	Estimation of Cropped Area and Crop Water Requirements Using Field and Satellite Data: A Case Study of District Umerkot	Co-supervisor	Completed
16.	Engr. Nadir Ali Rajput	Effect of Distillery Spent Wash on Soil and Ground Water Quality in District Mirpurkhas : Case Study of Uncol Distillery	Co-supervisor	Completed
17.	Engr. Noor Mustafa Shaikh	Impact of Discharge and Channel Geometry on Seepage Losses from Secondary Canal	Co-supervisor	Completed
18.	Engr. Zaheer Ahmed Khan	Assessment of water saving and water productivity through precision land leveling technology	Co-supervisor	Completed
19.	Engr. Mian Mudasar Naseem	Effect of different soil moisture levels and straw mulching on crop germination, in district Hyderabad	Co-supervisor	Completed
20.	Engr. Muhammad Akram	Effect of soil moisture depletion levels and straw mulching on the germination of different crops	Co-supervisor	Completed
21.	Engr. Muhammad Toufeeque Arain	Impact of deficit irrigation (moisture content) practices on yield and water productivity of cauliflower	Co-supervisor	Completed

#### **ADDITIONAL ASSIGNMENTS**

- Chairman Department of Irrigation and Drainage, Faculty of Agricultural Engineering (FAE), Sindh Agriculture university, (SAU) Tandojam
- Member of Seminar Evaluation Committee, FAE, SAU Tandojam
- Chairman Departmental Board of Studies
- Head Investigator
- Coordinator of Outcome Based Education (OBE) System

#### **COMPUTER SKILLS**

- Simulation of Irrigation Canal (SIC) Model
- Winflume
- WinSRFR
- CROPWAT 8.0
- SPSS 16.0
- MSteam

- MSOffice

***PROFESSIONAL MEMBERSHIP***

- Pakistan Engineering Council

***LANGUAGE SKILLS***

English, Urdu, Sindhi & Seraeki