

# RESUME

## Prof. Dr. Iftikhar Ahmad

### GENERAL

NAME **IFTIKHAR AHMAD**  
FATHER'S NAME BASHIR AHMAD  
DATE AND PLACE OF BIRTH Aug 17, 1956, Lahore, Pakistan  
NATIONALITY Pakistani  
RELIGION Muslim  
MARITAL STATUS Married  
PROFESSION Environmental Sciences/Hydrology  
DISCIPLINE Hydrology/Climate Change/Policy  
EXPERIENCE 32 Years (From BPS-17 to BPS-21)  
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### EDUCATION

1. **Ph.D in Earth and Environmental Sciences**, University of the Punjab, Lahore (2003-09).
2. **M.Phil in Hydrology** from Centre of Excellence in Water Resources Engineering (CEWRE), University of Engineering & Technology (UET), Lahore (1988-91).
3. **M.Sc in Geohydrology** and Engineering Geology, 1st Division (A Grade) from Institute of Geology, University of the Punjab, Lahore (1979-81).
4. **M.P.A HRM**, (Master of **Public Administration**) 1st Division (GPA 3.56) from Institute of Administrative Sciences, University of The Punjab, Lahore (2009-11).
5. **B.Sc** in Geology from University of the Punjab (1976-79)

**DISTINCTION** **Gold Medal** (Course work and thesis) in M.Phil from CEWRE UET Lahore. Merit Scholarships of Lahore Board in Matric and F.Sc.

**FOREIGN TRAINING** Research Fellow in connection with PhD studies at Department of Civil Engineering, University of Birmingham, UK. under the link program with CEWRE., 1993.

### OTHER TRAININGS

- \* Certificate in Indigenous Training organized by HEC and Punjab University, at IAS, Punjab University, Lahore 17-21 November 2014.
- \* Certificate in Capacity building on rehabilitation and Resettlement, Environmental Division, NESPAK/World Bank, Lahore 2-4 April 2012.
- \* Certificate in Occupational Health and Safety, College of Earth and environmental Sciences (CEES), Punjab University, 13-17 April 2009.
- \* Certificate in computational seismology, National Centre for Physics, Islamabad, Feb 1-9, 2008
- \* Certificate in Climate Change and Water Issues, University of Twente, Netherlands and, Punjab University, Dec 15 May 2007.
- \* Certificate in 7 habits of highly effective people, Institute of Administrative Sciences, University of The Punjab, Lahore (Nov 3-5, 2010).
- \* Certificate in renewable energies, Rerdec, Istanbul, Turkey, 2006.

- \* Certificate in Environmental Impacts of Geological Hazards, Post graduate center for Earth sciences, Punjab University, 14 May–13 June 2003.
- \* Certificate in Indigenous Training organized by HEC and Punjab University, at IAS, Punjab University, Lahore 20-25 December 2003.
- \* Certificate in Pollutant transport and monitoring in Vadose Zone from CEWRE, University of Engineering and Technology, Lahore (1994).
- \* Certificate in Plate Tectonics from Punjab Geological Society (PGS) & Institute of Geology, Punjab University, Lahore (July 1991).
- \* Certificate in Rock Blasting from PGS, (May 1991).
- \* Certificate in Material Engineering from PGS (Feb.1990)
- \* Certificate in Extensive English Language from CIELS, Islamabad (Aug-Oct1987).
- \* Certificate in French Language from French Culture Centre, Lahore (Jan.1982).
- \* Certificate in Arabic Language from NAML University, Lahore (2015).

## PROFESSIONAL EXPERIENCE

1. **Professor BS-21** College of Earth & Environmental Sciences Punjab University, Lahore  
Period: **Jan 13, 2015 to-date**
2. **Associate Professor BS-20** College of Earth & Environmental Sciences Punjab University  
Period: Nov 11, 2013 to Jan 12, 2015
3. **Incharge** College of Earth & Environmental Sciences Punjab University, Lahore  
Period: May 21, 2011 to April 04, 2012
4. **Assistant Professor** College of Earth & Environmental Sciences Punjab University  
**BS-18, BS19 to BS-20**  
Period: Dec 2003 to Nov 10, 2013
5. **Assistant Professor BPS-18**  
University Department of Mining and Geological Engineering,  
University of Engineering & Technology, Lahore  
Period: Dec 2002 to Dec 2003
6. **Assistant Director (Earth Sciences) BPS-17**  
Organization: Water and Power Development Authority  
Period: Jan 2002 to Dec 2002
7. **Assistant Director (Earth Sciences) BPS-18**  
Organization: Water and Power Development Authority  
Period: Aug 1999 to Dec 2001
8. **Lecturer**  
University: Department of Geological Engineering  
Great Al-Fateh University, Tripoli, Libya  
Period: Mar 1996 to July 1999
9. **Assistant Director (Earth Sciences) BPS-17 to BPS-18**  
Organization: Water and Power Development Authority  
Period: July 1982 to Dec 1995

## KEY QUALIFICATION

Dr. Iftikhar Ahmad has more than 32 years of extensive research and teaching experience in environmental sciences, hydrology, climate change, water/hydrological issues, and policy making. He is involved in teaching and research. Expert in the use of computer software and development of new software in the related field.

## LIST OF PUBLICATIONS (Prof. Dr. Iftikhar Ahmad)

### NO. OF PUBLICATIONS

Research Publications	= 37
Computer Publications	= 08
Technical Reports	= 34
WAPDA Technical Publications	= 39
<b>Total Publications</b>	<b>= 118</b>

### OTHER RESEARCH ACTIVITIES

Seminars/Work Shops/Conferences	=46
Significant Software Development	=09
M.Sc Theses supervised	=90
M.Phil Theses supervised	=51

### 1. Published in HEC Approved International and National Journals those are accepted for appointments/promotion

Sr. No.	Title of Paper	Name of Publishing Journal	Year	Vol.(No.)	Page	Impact Factor	HEC Recognized/ Category
1.	Highlighting the implications of Selenium dispersion from disposal of Kahota Industrial Triangle area, Islamabad, Pakistan using 3-dimension solute transport model	Environmental Monitoring and Assessment <b>ISSN: 0167-6369</b>	2010	167	565-579	1.436	Yes Category W
2.	Implications of depletion of groundwater levels in 3 layered aquifers and its management to optimize the supply demand in the urban settlement near Kahota Industrial Triangle area, Islamabad, Pakistan	Environmental Monitoring and Assessment <b>ISSN: 0167-6369</b>	2010	166	41-58	1.436	Yes Category W
3.	Ground Water Contamination by Effluent from Tanneries in Kasur (Pakistan),	Journal of the Chemical Society of Pakistan <b>ISSN: 0253-5106</b>	2008	30(3)	348-351	1.2	Yes Category W
4.	Criterion of Sanitary Landfill site Selection of using surface geophysical method	Journal of Asian Civilization <b>ISSN: 1993-4696</b>	2006	XXIX	182-196	-	Yes Category Y
5.	Seismotectonics and Seismic Hazard analysis in selected area of Margala hills, Islamabad Pakistan	Pakistan Journal of Hydrocarbon Research <b>ISSN: 1017-0626</b>	2005	15	64-72	-	Yes Category Y

Sr. No.	Title of Paper	Name of Publishing Journal	Year	Vol.(No.)	Page	Impact Factor	HEC Recognized/ Category
6.	A Technique to Determine Frequency of Rainfall Volume of Runoff and Peak Discharge Rates With Limited Data	Journal of Mehran University of Engineering and Technology <b>ISSN 0254-7821</b>	1991	10(2)	1-10	-	Yes Category Y
7.	Infiltration galleries, a possible Perennial Source of Water Supply in Arid / Semi Arid Regions	Islamabad Journal of Science <b>ISSN: 0304-5218</b>	2003	13	28-35	-	Yes Category Y
8.	Palaeo- Environment of Soan Valley and Palaeolithic Sites of PS-4B and PS-21 Near Gurha Shahan in Rawalpindi District, Northern Pakistan	Journal of Central Asia, Now with the name of Journal of Asian Civilization <b>ISSN: 1993-4696</b>	1987	10	123-192	-	Yes Category Y
9.	Investigating Validity of Aquifer Parameters using Radial Flow Model, Tahlab Valley, Baluchistan	Kashmir J of Geology <b>ISSN 21401699</b>	1994	11-12	79-92	-	Yes Category Y
10	Hydrology of mountainous areas in the upper Indus Basin, Northern Pakistan with the perspective of climate change	Environmental Monitoring and Assessment <b>ISSN: 0167-6369</b>	2012	184(9)	5255-5274	1.436	Yes Category W
11	Flood frequencies in Soan Valley.	Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences <b>ISSN: 0030-9877</b>	2012	64(1)	1-5	-	Yes Category Y
12	Reservoir quality monitoring in Rawal Lake using Geoinformatics	Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences <b>ISSN: 0030-9877</b>	2012	64(1)	27-30	-	Yes Category Y
13	Slope stability analysis in hard rocks and prediction of landslide along Khewra Choha Saidden Shah road, salt range Pakistan	Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences <b>ISSN: 0030-9877</b>	2011	63(4)	232-235	-	Yes Category Y
14	Flood frequency analysis of homogeneous regions of Jhelum River Basin	International Journal of Water Resources and Environmental Engineering <b>ISSN: 2141-6613</b>	May 2012	4(5)	144-149	PEER - REVIEWED	Yes Category Y

Sr. No.	Title of Paper	Name of Publishing Journal	Year	Vol.(No.)	Page	Impact Factor	HEC Recognized/ Category
15	Groundwater quality profile of Kala Shah Kaku	Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences <b>ISSN: 0030-9877</b>	June 2012	64(2)	103-107	-	Yes Category Y
16	Simulated Transport of Jet Fuel Leaking into ground water, Sindh, Pakistan	Journal of Wetland Biodiversity. <b>ISSN: 2247-0506</b>	Sep 2012	2	21-35	online	Yes Category Y
17	Groundwater and contaminant hydrology. Current Perspectives in Contaminant Hydrology and Water Resources Sustainability (International Book Chapter)	InTech Open Science 2013 Ahmad et al.; licensee InTech. This is an open access article distributed under the terms of the Creative Commons Attribution License ( <a href="http://creativecommons.org/licenses/by/3.0">http://creativecommons.org/licenses/by/3.0</a> )	Mar 2013	<a href="http://dx.doi.org/10.5772/54732">http://dx.doi.org/10.5772/54732</a>	169-196	online	Yes Category W
18	Unusual rainfall shift during monsoon period of 2010 in Pakistan: flash flooding in Northern Pakistan and riverine flooding in Southern Pakistan	African Journal of Environmental Science and Technology <b>ISSN 1996-0786</b> © 2013 Academic Journals <a href="http://www.academicjournals.org/AJEST">http://www.academicjournals.org/AJEST</a>	Sep 2013	7(9)  DOI: 10.5897/AJEST12.164	882-890	online	Yes Category W
19	An eco-friendly approach for sodium chloride free cotton dyeing	Technical Journal, University of Engineering and Technology Taxila. <b>ISSN: 1813-1786</b> (Print) <b>ISSN: 2313-7770</b> (Online)	July-Sep 2014	19 (III)	13-17	online	Yes Category Y
20	Design and development of environment friendly textile dyeing machine	Technical Journal, University of Engineering and Technology, Taxila <b>ISSN: 1813-1786</b> (Print) <b>ISSN: 2313-7770</b> (Online)	July-Sep 2014	19 (III)	45-49	online	Yes Category Y

Sr. No.	Title of Paper	Name of Publishing Journal	Year	Vol.(No.)	Page	Impact Factor	HEC Recognized/ Category
21	Reuse of beverage industry wastewater in textile dyeing after its treatment with ozone	Pakistan Journal of Nutrition <b>ISSN 1680-5194</b> © Asian Network for Scientific Information, 2014	2014	13 (11)	653-656	online	Yes Category Y ISI Journals List
22	Advanced oxidative removal of C.I. Food Red 17 Dye from an aqueous solution	Pakistan Journal of Nutrition <b>ISSN 1680-5194</b> © Asian Network for Scientific Information, 2014	2014	13 (11)	631-634	online	Yes Category Y ISI Journals List
23	Developments in healthcare and medical textiles - a mini review	Pakistan Journal of Nutrition <b>ISSN 1680-5194</b> © Asian Network for Scientific Information, 2014	2014	13 (12)	780-783	online	Yes Category Y ISI Journals List
24	An attempt to improve wash fastness of red dyes using real textile wastewater	Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences <b>ISSN: 0030-9877</b>	Dec 2014	66 (4)	368-372	online	Yes Category Y
25	Recycling of washing and rinsing textile waste water in cotton dyeing following an O <sub>3</sub> treatment	Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences <b>ISSN: 0030-9877</b>	Dec 2014	66 (4)	373-376	online	Yes Category Y
26	Eco-Friendly approach to remove COD, TSS and colour from the effluent originating from the Pharmaceutical Industry	Pakistan Journal of Nutrition <b>ISSN 1680-5194</b> © Asian Network for Scientific Information, 2015	2015	14 (3)	146-149	online	Yes Category Y ISI Journals List

## 2. Papers Published in International Conference Proceedings

Sr. No.	Title of Paper	Name of Publishing Journal	Year	Vol.(No.)	Page	Impact Factor	HEC Recognized/ Category
27	A Water Resources Management Plan in Low-Lying Coastal Area near Arabian Sea-Pakistan	HYDROCOAST 95 Thailand <b>ISSN: Unesco-IHP</b>	1995	1	175-183		International Proceedings

**3. Papers Published in National Journals Approved for BPS Promotions by  
Syndicate of Punjab University in March 2013 vide Annexure-A attached**

Sr. No.	Title of Paper	Name of Publishing Journal	Year	Vol.(No.)	Page	Impact Factor	HEC Recognized/ Category
28	A Study For The Removal Of Bacteriological Contamination From Groundwater of Kasur	Journal of Scientific Research <b>ISSN 0555-767</b>	2009	XXXIX (2)	online	-	Yes, Approved for BPS Promotions by Syndicate of Punjab University in March 2013 vide Annexure-A attached
29	Probable Maximum Flood with Limited Data of Mirani Dam Project	Bulletin. A Bi-Annual publication of Pakistan Council of Research in Water Resources Pakistan Journal of Water Resources <b>ISSN: 1021-5409</b>	1990	20 (1)	55-56		Yes, Approved for BPS Promotions by Syndicate of Punjab University in March 2013 vide Annexure-A attached
30	Simple Approach to Compute Evaporation with Sparse Data	Journal of Science Technology & Development, An International Journal. <b>(ISSN. 0254-6418)</b>	1995	14 (4)	44-48		Yes, Approved for BPS Promotions by Syndicate of Punjab University in March 2013 vide Annexure-A attached
31	Development of Operating Rules for Multiobjective Reservoir-Special Reference to Mangla Reservoir	Journal of the Institution of Engineers, Pakistan, IEP, Lahore <b>(ISSN. IEP)</b>	1997	Feb/Mar 97	1-10		Yes, Approved for BPS Promotions by Syndicate of Punjab University in March 2013 vide Annexure-A attached
32	A Technique to Derive Parameters of Snyder's Unit hydrograph for the selected Catchments in Pakistan". Journal of Drainage and Water Management	Journal of Drainage and Water Management , Now with the name of Pakistan Journal of Water Resources <b>ISSN: 1021-5409</b>	1997	1 (1)	22-30		Yes, Approved for BPS Promotions by Syndicate of Punjab University in March 2013 vide Annexure-A attached
33	Design Discharge Criteria for the Rehabilitation of Drains in Pakistan	Journal of Drainage and Water Management Now with the name of Pakistan Journal of Water Resources <b>ISSN: 1021-5409</b>	1997	1 (2)	11-17		Yes, Approved for BPS Promotions by Syndicate of Punjab University in March 2013 vide Annexure-A
34	Development of a Simple Procedure to Synthesize Direct Runoff Hydrographs for Selected Catchments in Pakistan	Journal of Drainage and Water Management, Now with the name of Pakistan Journal of Water Resources <b>ISSN: 1021-5409</b>	1998	2 (2)	23-37		Yes, Approved for BPS Promotions by Syndicate of Punjab University in March 2013 vide Annexure-A attached

#### 4. Papers Published in National Journals

Sr. No.	Title of Paper	Name of Publishing Journal	Year	Vol.(No.)	Page	Impact Factor	HEC Recognized/ Category
35	Peak Flood Estimation using Computer Model DESIGN FLOOD	Pakistan J. Environ. Sci.	2003	2	23-30		
36	Derivation of Peak Discharge Relationships in Semi-arid Watersheds with Limited Data	Regional Workshop on Arid Zone Hydrology", organized by the Pakistan Council of Research in Water Resources (PCRWR), Islamabad and sponsored by UNESCO	2000	1	-		
37	Flood Hydrograph Synthesis In Selected Ungauged Catchments Of Baluchistan	Proceedings National Seminar on Water Resources Development and its Management in Arid Area. Quetta	1990	2	396-407		
38	Estimation of groundwater potential of Gaj River basin using mathematical modeling.	First South Asian Geological Congress Islamabad, Pakistan (Poster	1992	-	-		
39	Geological mapping and Hydrological investigation of a part of Quetta Valley with special reference to the availability of groundwater. M.Sc Thesis	Punjab University	1982	-	-		Post Graduate Research
40	Multi objective Dynamic Programming and Derivation of operating rules for reservoir simulation. M. Phil thesis	University of Engineering and Technology	1991	-	-		Post Graduate Research
41	Optimal Control of Multiple Reservoir System Under water Scarcity, Ph.D thesis, <b>Discipline: Earth and Environmental Sciences</b>	Punjab University	2009	-	-		Post Graduate Research



**5. Papers submitted in HEC Approved International and National Journals  
those are accepted for BPS appointment/promotion**

Sr. No.	Title of Paper	Name of Publishing Journal	Year	Vol.(No.)	Page	Impact Factor	HEC Recognized/ Category
42	Bacteriological quality mapping of drinking water in Lahore using GIS	Scientia Geographica Sinica <b>ISSN: 1000-0690</b> CN 22-1124/P <a href="http://egeoscientiae.ac.cn">http://egeoscientiae.ac.cn</a>	Submitted for publication	Online Manuscript No. 20130132	-	-	W
43	Solving dilemma of water crisis and depleting aquifers in the Middle Indus Basin, Rawalpindi, Pakistan	Hydrological Processes <b>ISSN:1099-1085</b>	Submitted for publication	Online Manuscript number: HYP-10-0620, April 2011	-	-	W
44	Monitoring of Turbidity and Disinfectant Residual in the Water Distribution Network of Muzaffarabad City, Azad Kashmir	Journal of the Chemical Society of Pakistan <b>ISSN: 0253-5106</b>	Submitted for publication	In Process			W
45	Evaluation of Water Quality of Satpara Lake	Journal of the Chemical Society of Pakistan <b>ISSN: 0253-5106</b>	Submitted for publication	In Process			W
46	Determination of Residual Chlorine in Drinking Water of Muzaffarabad City, And Public's Perception about Chlorination Disinfection	Journal of the Chemical Society of Pakistan <b>ISSN: 0253-5106</b>	Submitted for publication	In Process			W
47	Flood Hazard Analysis Of Badin Flooding Pakistan Using Hec-Ras, Remote Sensing And GIS Techniques	Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences <b>ISSN: 0030-9877</b>	Submitted for publication	In Process			Y
48	Application of Chemically Treated Bentonite for the removal of H <sub>2</sub> O <sub>2</sub> from bleaching wastewater for possible reuse in dyeing	Asian J of Chemistry	Submitted for publication Mar 2014	In Process			W
49	A Novel Idea to Decolorize Residual Dyeing Effluent in Jet Dyeing Machine using O <sub>3</sub>	Asian J of Chemistry	Submitted for publication Aug 2014	In Process			W

50	Bathymetric Mapping for Ghazi Headpond Using ADCP at Downstream of Tarbela Dam, Pakistan	Environmental Monitoring and Assessment <b>ISSN: 0167-6369</b>	Submitted for publication Jan 2015	In Process			W
51	Integrated Energy Modeling for Demand Side Management of the Urban Household Sector of Pakistan	Environmental Monitoring and Assessment <b>ISSN: 0167-6369</b>	Submitted for publication Jan 2015	In Process			W

### **SIGNIFICANT COMPUTER SOFTWARE DEVELOPMENT & PUBLICATIONS**

1. Hydrology for developing world, Computer application with Microsoft Excel. Ver. 1.0. 2015
2. hydroMOD (Applied hydrologic and Environmental Design), Computer model for hydrologic design. Ver. 3.0. 2006, 2011, 2013, 2015
3. DESIGN FLOOD, A flood hydrograph PC based package, User's Manual, Ver.7.0, Sep.1990, 1994, 2000, 2005, 2008, 2011, 2014
4. DESIGN CHANNELS (Computer package), Design of open channels in MicroLab. Ver.3.0.PC based 1992, 1994, 2000
5. FLOOD CALC (Computer package), Stream network rainfall runoff model. V.1.0, (PC based). 1993
6. DESIGN RESERVOIRS Computer model for reservoir operation and design.Ver 6.0.PC based. 1992, 1994, 2000, 2006, 2009, 2011.
7. E.H.D.M (Engineering Hydrology & Design Model), Computer model for hydrologic design. Ver. 1.0.1994.
8. Selected Digital computer techniques for water resource evaluation, Computer programs in FORTRAN., (Main frame based). 1992, 1989.
9. CASH FLOW (Computer package), Economic Evaluation (I.R.R) in Micro Lab. Ver 1.0, (PC based). 1994.

### **RESEARCH PROJECTS AND TECHNICAL REPORTS**

1. Multan Storm Water Drainage Project (Hydrological Studies),CEWRE,UET,Lahore, CEWRE/Publications/069, Technical Report No.10, Jan 1990.
2. Raiwind Storm Water Drainage Project, joint venture with CEWRE & PCRWR,Jan 1990.
3. Analysis of Aquifer Test and estimation for the yield of the proposed infiltration gallery, Sehan Irrigation Scheme, Feb.1985.
4. Numerical Analysis of Permeability Tests, 1988
5. Consultancy services for assessment and feasibility of development of additional surface water in Potwar area of Punjab. Haro Basin (Draft report). Mott MacDonald. Sep 1993.
6. Consultancy services for assessment and feasibility of development of additional surface water in Potwar area of Punjab. Soan Basin (Draft report). Mott MacDonald Sep 1993.
7. Packman, John; Wencel, Kevin; Shah, S.M. Saeed; **Ahmad, Iftikhar**. 1994 *Urban runoff analysis and modelling - Lahore Study. Interim report*. Institute of Hydrology,

- 130pp. (UNSPECIFIED). Overseas Development Agency (ODA), UK., through Institute of hydrology, UK & CEWRE. 1994.  
<http://nora.nerc.ac.uk/view/author/1966.html>
8. A report on groundwater reserve estimation of the Ahmad Khan well field and its safe utilization for the 4000 TPD Lucky cement plant Pezu DI Khan. In association with Quaid-e-Azam University, Islamabad. Dec 1994.
  9. Computer applications in hydrology and geological engineering, Faculty of Engineering, Alfateh University, Tripoli, Libya, Mar 1999.
  10. Pumping Test analysis and groundwater modeling in Defense Housing Scheme, Islamabad for the development of groundwater resources for the housing project, (Hydro-geophysical and Science Consultant, (HESC) Islamabad) .Sep 2004.
  11. Hydrogeologic Report, Water Resources development for Badin Oil Field, BP, HESC, June 2002
  12. Investigating ground water contamination and its remedial measures using 3D contaminant transport model at kadanwari gas field, Lasmo Gas Fields, HESC, Aug 2002
  13. Groundwater modeling and 3D contaminant transport modeling for injection well disposing waste water at 2000 m depth. Bhit Area, Lasmo Oil Fields, HESC, Dec 2002.
  14. Report on pumping test analysis, AVA/Nestle, Islamabad, HESC, Aug 2002
  15. Report on hydrogeology, step test analysis and pumping test analysis, Nestle, Sheikhpura, HESC, May 2005.
  16. Report on environmental study of the housing project. Parliamentarian's Enclave (Islamabad) Phase V, HESC March 2006
  17. Feasibility study of the pearl dam project, Mumtaz Housing Project, Dynast Associate, Islamabad, HESC, Dec 2004
  18. Report on groundwater reserve estimation using finite difference flow model , Near Pind Kalyeam Mughal, Bioblitz, HESC, Sep 2004.
  19. Report on Pumping test analysis, Estimation of aquifer parameters and dewatering methodology, Construction at B-105, Shorkot, Izhar Construction Ltd. Aug 2004
  20. Report on Pumping test analysis, Estimation of aquifer parameters and dewatering methodology, Construction at B-203, Resalewala, Faislabad, Izhar Construction Ltd. April 2006
  21. Hydrogeologic report on pumping test analysis and 3D groundwater flow modeling in Gaggan area, Pandori oil field water supply project, PPL, HESC, April 2006.
  22. Report on Water Resources in Zamzama Gas Fields, Dadu, HESC, Mar 2002
  23. Hydrological Studies of Ling River for Flood Protection of Housing Societies using HEC-HMS and HEC-RAS, 2008
  24. Hydrological studies along high speed track from Lahore to Islamabad, Bullet Train Project 2008

25. Report of recommendations on dewatering methodology at B-302, Multan, SINACO Engineers (PVT) Limited, 12-G, Model Town, Lahore, 2012.
26. Report on pumping test analysis & estimation of aquifer parameters, Sukkur Air Base, Image Tech, PCSIR-II, Lahore, 2012
27. Research Project Report on Investigating Declining Groundwater Resource of Lahore City of about 1 Crore Population using Modeling Technique, CEES, University of the Punjab, Lahore, 2012.
28. Report on pumping test analysis & estimation of aquifer parameters, Mir Pur Khas Air Base, Image Tech, PCSIR-II, Lahore, 2013.
29. Report on hydrology and sedimentation for feasibility study of 10 small dams and water storages, Ministry of Water & Power, Water Sector Capacity Building and Advisory Services Project (WCAP), Project Management and Policy Implementation Unit (PMPIU), Islamabad, 2013.
30. Report on hydrology and sedimentation for Feasibility Study of Three Hydropower Projects in District Dir Region, Govt of Khyber Pakhnuksa, 2013.
31. Research Project Report on “Estimation of water sustainability in Islamabad for long term survival using hydrological techniques”, CEES, University of the Punjab, Lahore, 2013.
32. Research Project on Assessment of habitat and biotic condition of river Chenab, Pakistan, HEC Funded. 2011-2014.
33. Research Project Report on “Investigating hydropower potential in Indus River System for future development”, CEES, University of the Punjab, Lahore, 2014.
34. Research Project Report on “Exploring Surface Water Resources in Indus River System for Long Term Sustainability”, CEES, University of the Punjab, Lahore, 2015.

#### **WAPDA PUBLICATIONS (Feasibility Studies for Earth, Environment and Hydrology)**

1. AriPir Perennial Irrigation Scheme, feasibility studies P&I Pub.276, Dec 1984.
2. Rud Faqirzai Irrigation Scheme, feasibility studies, .P&I Pub.288, Apr 1984.
3. Wahi Irrigation Scheme, (Hydrology Chapter) feasibility studies, P&I Pub.300, Oct 1985.
4. Sehan Irrigation Scheme, feasibility studies, , P&I Pub.305, June 1987.
5. Hingol Dam Multipurpose Project, feasibility studies P&I. Pub. No.312, Aug 1987
6. Khuzdar Anti-Water-Logging Project, pre-feasibility studies, (Geo-hydrology Chapter) P&I Pub.335, May 1989.
7. Badinzai Rehabilitation Scheme, feasibility studies, P&I Pub.345, Mar 1990
8. Kot Khan Muhammad Perennial Irrigation Scheme, feasibility studies, P&I Pub.341, Oct 1989.
9. Toiwar Dam Project, reconnaissance study, P&I Pub.344, Mar 1990.
10. Waltoi Delay Action Dam Project, reconnaissance study, P&I Pub.349, Jul 1990.
11. Sra Dhaka Irrigation Scheme, reconnaissance study, P&I Pub.352, Aug 1990.
12. Teghab Irrigation Scheme, reconnaissance study, P&I Pub.353, Sept 1990.

13. An Economic Evaluation of Eight Delay Action Dams in Qillah Saifullah and Nasai areas. P&I Pub.362.Apr 1991.
14. Mara Tangi Flood Irrigation Scheme Feasibility Report, P&I Pub.365 Jun 1991.
15. Naulong storage dam/Pelar dat storage dam project. (Appraisal Report, Hyd.Ch) P&I Pub.397, 1993
16. Mat Flood Irrigation Scheme Feasibility Report, P&I Publication No. 1994
17. Mehsar Flood Irrigation Scheme Feasibility Report, P&I Publication No. 400, Mar 1994
18. Eri/Haji Sher Flood Irrigation Scheme Feasibility Report, P&I Publication No..406, Sep,1994
19. Gomal zam dam project. Up-dated hydrological and water management studies, P&I, Mar 1995.
20. Naltar III hydroelectric project, Gilgit, Feasibility Study, HEPO Pub. WAPDA, Dec 2000
21. Basho hydroelectric project, Sakardu, Feasibility Study, (Hydrology and Sedimentation Chapter) HEPO Pub. WAPDA, June 2001
22. Harpo hydroelectric project, Sakardu, Feasibility Study, (Hydrology and Sedimentation Chapter) HEPO Pub. WAPDA, June 2001
23. Satpara hydroelectric project, Sakardu, Pre-Feasibility Study and PC-1, (Hydrology and Sedimentation Chapter) HEPO Pub. WAPDA, 2002
24. Gujrat groundwater development Project. Feasibility studies WAPDA, 2002
25. Sabakzai Dam project, feasibility studies, Hydrology Chapter, P&I Pub. 2002.
26. Doyian hydroelectric project, Gilgit, Feasibility Study, (Hydrology and Sedimentation Chapter) HEPO Pub. WAPDA, 2003
27. Phander hydroelectric project, Northern Area (Hydrology and Sedimentation Chapter), Feasibility Study, HEPO Pub. WAPDA, Dec 2003.
28. Kotli Hydropower Project, Azad Kashmir, Feasibility Studies, (Chapter Hydrology and Sedimentation) May 2005
29. Akhori dam project, Feasibility Studies (Vol.1. Hydrology and Sedimentation, Vol.2 Conjunctive operation of Reservoir Simulation), P&I Publication, WAPDA/Techno Consult, Oct 2005
30. Gabral Kalam hydropower project, Feasibility Studies (Sedimentation and Seismic Risk Evaluation), Fitchner, D.H.A, Lahore, 2006
31. Jabba Khatak dam Project NWFP, Feasibility Studies (Hydrology and Sedimentation), NDC, Faisal Town, Lahore, 2007
32. Tank Zam dam Project NWFP, Feasibility Studies, NDC, Faisal Town, Lahore, 2007
33. Small dams in Kurram River Basin NWFP, Feasibility Studies, EasPak/ Electra, Johar Towin, Lahore, 2007
34. Winder dam project, Feasibility Studies (Vol.1. Hydrology and Sedimentation), P&I Publication, WAPDA/Barqab Consulting, Sunny View, Lahore, 2007
35. Lawi hydropower project, Feasibility Studies, HEPO Publication, WAPDA/Barqab Consulting, Sunny View, Lahore, 2007
36. Sukleji dam project, Feasibility Studies (Vol.1. Hydrology and Sedimentation), P&I Publication, WAPDA/Barqab Consulting, Sunny View, Lahore, 2007
37. Naltar IV and V hydropower project, Feasibility Studies, EasPak/ Electra, Johar Towin, Lahore, 2007

38. Three hydropower projects in AJK (Qadirabad, Rerah and Hajira) Feasibility Studies, ACE Consultants, Model town Extension, Lahore, 2008.
39. Diamer Basha Dam Project, Data and Information Collection and Review and International Tender Preparation, No. AID-391-14-00001 Under IQC No. AID-391-I-11-00003, 2013

#### **PROFESSIONAL AFFILIATION**

**Member** (IAHS) International Association of Hydrological Sciences, UK. (2005-todate)

**Member** (YES) Youth Environmental and Welfare Society, Pakistan. (2012-todate)

**Member** (PGS) Punjab Geological Society, Pakistan. (1990-todate)

#### **ADMINISTRATIVE EXPERIENCE AND AFFILIATION**

1. **Acting Principal** College of Earth & Environmental Sciences Punjab University, Lahore. (August 2009 to September 2009)
2. **Incharge Principal** College of Earth & Environmental Sciences Punjab University, Lahore. (21 May 2011 to 04 April 2012)
3. **Acting Principal** College of Earth & Environmental Sciences Punjab University, Lahore. (July 2014 to August 2014)
4. **Coordinator** (Hydrology Program) College of Earth & Environmental Sciences Punjab University, Lahore. (2005 todate)
5. **Coordinator** (MSc Environmental Sciences Program (E)) College of Earth & Environmental Sciences Punjab University, Lahore. (2011-2012)
6. **Member** (Disciplinary Committee for Unfair means) Office of the Controller of Examination, University of the Punjab. (Jan 2008 -2013)
7. **Member** (Board of Studies) College of Earth & Environmental Sciences Punjab University, Lahore. (2006 todate)
8. **Member** (Departmental Doctoral Committee) College of Earth & Environmental Sciences Punjab University, Lahore. (April 2012 todate)
9. **Member** (ASA) Academic Staff Association, Punjab University, Lahore. (Dec 2003-todate)
10. **Member** (Selection Board), Department of Earth Sciences, Quad-i-Azam University, Islamabad. 2010 to date.
11. **External Examiner, M.Phil Theses**, Center of Excellence in Water Resources Engineering, (CEWRE). University of Engineering and Technology, Lahore
12. **External Examiner, M.Phil Theses**, Center for Sustainable Development, GC University. Lahore.
13. **External Examiner, M.Phil Theses**, Department of Environmental Sciences, Kinnaird College for women, Lahore.
14. **External Examiner, BS, MSc Theses**, Geological Engineering Department. University of Engineering and Technology, Lahore.

## SEMINARS/WORKSHOPS/CONFERENCES

### Participated and presented Papers University/Department Level

1. International Association of hydrogeology in collaboration of Punjab Geological Society, Institute of Geology, Punjab University, National Training Course on Groundwater modeling, 3-4 Sep 2001  
  
“Course Speaker/Resource Person”
2. Seminar organized by Post Graduate Centre for Earth Sciences and Institute of Geology, Punjab University on “Water Resources Management and Desertification” on 17 June 2003.  
  
“Course Speaker/Resource Person”
3. International Conference on Geoinformatics organized by Pakistan Science Foundation, at Islamabad, Jan 07-08, 2004
4. Eighth Sustainable development conference SDPI. Paper presented on “Earthquake disaster management in the context of Pakistan”, Nov-Dec 2005
5. Presented Paper in Seminar on “Water crisis in Pakistan, Concern and Challenges’ organized by HEC in collaboration with Quaid-i-Azam University, 06 July 2006. The title of paper was  
  
“Conjunctive operation of multiple reservoir simulation of Indus River System”
6. Presented Paper in Seminar on water quality and pollution organized by “Global Standard” Korean firm at Jalo Park, Lahore 7-8 Nov 2006. The title of paper was  
  
“Water Pollution, Did you feel it?”
7. Presented Paper in Seminar on Climate Change and Water Issues (in Pakistan Scenario) Organized by, Twente University Netherland and University of the Punjab, Lahore 15 Dec 2007. The title of paper was  
  
“Conjunctive operation of multiple reservoir systems of Indus River Basin”
8. Presented Paper in 2<sup>nd</sup> Workshop on Computational Seismology organized by National centre for Physics, Islamabad 1-9 Feb 2008. The title of paper was  
  
“Water Scarcity and its Managment”
9. Presented Paper in Seminar on International Hazards Pakistan: Post-October 08, 2005 Muzafarabad Earthquake Scenario University of Peshawar Summer Campus, Baragali August 22-23, 2008 GeologicalBulletin/Vol-41-2008/Vol-41-2008. The title of paper was  
  
“Seismic risk parameter for Neelum-Jhelum hydropower project in AJK in the light of post-October 08, 2005 Muzaffarabad Earthquake scenario  
**Iftikhar Ahmad** and Zulfiqar Ahmad”
10. Presented Paper in Seminar on International Hazards Pakistan: Post-October 08, 2005 Muzafarabad Earthquake Scenario University of Peshawar Summer Campus,

Baragali August 22-23, 2008 Geological Bulletin/Vol-41-2008/Vol-41-2008. The title of paper was

“Effect of earthquakes liquefaction on the ground water hydraulic heads and changes in hydrogeological features in Potwar and alluvial deposits.  
Zulfiqar Ahmad and **Iftikhar Ahmad**”

11. Presented Paper in Workshop on Occupational Health and Safety Organized by, College of Earth and Environmental Sciences, University of the Punjab, Lahore. 13-17 April, 2009. The title of paper was

“Health and Safety Issues during flood hazards”

12. Presented Paper on National Seminar on Environment, organized by Environmental Protection Agency (EPA) for “World Environment Day”, held on 5 June 2011 at Civil Sectarial, Guranwala. The title of paper was

“Forest, Environment and Hydrology”

13. Presented Paper on National Seminar on Environment, organized by “Justice to Nature” at Awari Hotel, Lahore 04 June 2012. The title of paper was

“Green economy in the context of sustainability”

14. Presented Paper on National Seminar on “Rainwater Management in Urban Areas”, organized by “The Urban Unit”, P & D Department, Government of Punjab, at Alhamrah Art Council, Lahore, 31 August 2013. The title of paper was

“Rainwater management in major cities of Punjab”

15. Presented Paper as guest speaker on Seminar on World Water Day 2015, “Water issues of Pakistan”, organized by Punjab Geological Society (PGS) at Institute of Geology, Punjab University, Lahore, 31 March 2015. The title of paper was

“Water issues in Pakistan”

16. Presented Paper as resource person on Seminar on World Environment Day 2015, organized by Institute of Communication Studies (ICS) at ICS, Punjab University, Lahore, 04 June 2015. The title of paper was

“Water crisis in Pakistan, natural or man made”

#### **Participated at University/Department Level**

1. Participated in Seminar on World Environment Day 2015, on the topic “Seven billion dreams. One Planet. Consume with care” organized by Pakistan Engineering Congress (PEC), Government of the Pakistan, at Kohinoor Hall, Pearl Continental Hotel, The Mall, Lahore 06 June 2015.
2. Participated in Seminar on Earth Day 2015, “The global theme of 2015 is; it’s our turn to lead” organized by Environmental Protection Agency (EPA), Government of the Punjab, at Alhamra Art Council, The Mall, Lahore 22 April 2015.



3. Participated in Multi-Stakeholder Workshop on “Introduction of Disaster and Climate Resilience Improvement Project” organized by World Bank, SEMU-Government of Punjab at Pearl Continental Hotel, Lahore 14 April 2015.
4. Participated in Consultative Workshop on “Enhancing social sustainability of energy development by gender mainstreaming in hydropower projects in Pakistan” organized by World Bank, and NCCR, Punjab University, at Institute of Social and Cultural Studies, Punjab University, Lahore 25 February 2015.
5. Participated in five day Workshop on “Indigenous training on teaching, administration and research” organized by HEC and Punjab University, at IAS, Punjab University, Lahore 17-21 November 2014.
6. Participated in one day Workshop on review and finalization profile of the Punjab, organized by Environmental Protection Agency (EPA), Government of the Punjab, UNDP, at Alhamra Art Council, Qadafi Stadium, Lahore on 07<sup>th</sup> May, 2013.
7. Participated in Consultative Workshop on Environmental Profile of Punjab, organized by Environmental Protection Agency (EPA), Government of the Punjab at PC hotel, Lahore on 30<sup>th</sup> April, 2013.
8. Attended seminar on “Green Economy, Does it include you”, organized by Environmental Protection Agency (EPA) for “World Environment Day”, 5 June 2012 at PC hotel, Lahore.
9. Participated in National Workshop on “Awareness and education on air pollution and male deceleration on trans-boundary air pollution”, Organized by CEES, SAYEN, TUNZA, KEC and UNEP at College of Earth and Environmental Sciences, University of the Punjab, New Campus, Lahore, 07 Feb 2012.
10. Attended Certificate Course on 7 Habits of Highly Effective People, organized by Institute of Administrative Sciences, Punjab University, New Campus, Lahore, 3-5 Nov 2010.
11. Participated in course on “Environmental impacts of geological hazards organized by Postgraduate Centre for Earth sciences, Punjab University, New Campus, Lahore, 14 May–13 Jun 2003
12. Attended seminar on “Water for all”, organized by Engineering Congress for “World water day”, 5 May 2004
13. Sixth HRDC National Faculty development program 6-10 Sep 2004
14. Attended certificate course in Pollutant transport and monitoring in Vadose Zone from CEWRE, UET, Lahore, 31 July - 04 Aug 1994.
15. Attended certificate course in Plate Tectonics from Punjab Geological Society (PGS) & Institute of Geology, Punjab University, Lahore (14-18 July 1991).
16. Attended certificate course in Rock Blasting from PGS, (26-28 May 1991).
17. Attended certificate course certificate on Material Engineering from PGS (11-18 Feb.1990)
18. Attended certificate course on Extensive English Language from CIELS, Islamabad (12 Aug-08 Oct1987)

19. Attended certificate course on French Language from French Culture Centre, Lahore (Jan.1982).

### **Seminars/Work Shops/Conferences (International Level)**

#### **Attended and presented Papers at International level**

1. Paper presented in HYDRCOAST 95, International Workshop on Water-related Problems in Low-lying Coastal Areas. Bangkok, Thailand, 13-17 November 1995. IAHSiahs.info/hsj/390/hysj\_39\_02\_01771.pdf

**“A water resource management plan in low-lying coastal area near Arabian Sea - Pakistan.”**

Iftikhar Ahmad, SM Saeed Shah

IAHSiahs.info/hsj/390/hysj\_39\_02\_01771.pdf

2. Paper presented in IUGG (The International Union of Geodesy and Geophysics), Sapporo, Japan, 23rd IUGG General Assembly June 30 - July 11 2003 titled below:

**“Data Availability Problems In Ungauged Basins Of Developing Countries - A Test Case”**

Syed Muhammad Saeed SHAH, Hazael Firoton GABRIEL, Iftikhar AHMAD  
Volume 3 No. 7 (June 25, 2003)

3. Paper presented in IUGG (The International Union of Geodesy and Geophysics), Sapporo, Japan, 23rd IUGG General Assembly June 30 - July 11 2003 titled below:

**“Problems Of Ungauged Basins In Pakistan(With Reference To Hydrologic Studies”**

Syed Muhammad Saeed SHAH, Hazael Firoton GABRIEL, Iftikhar AHMAD  
Volume 3 No. 7 (June 25, 2003)

4. Paper presented in Workshop on in Beijing, China (11/6/2006-11/8/2006) titled below:

**“Hydrological and hydrogeological analysis of Islamabad watershed area”**

Zulfiqar Ahmad, Iftikhar Ahmad

5. Paper presented in International conference on earthquake10/8, Human and Gender Issues, Jan 15-17 2006 organized by Fatima Jinnah Women University & University of Azad Jammu and Kashmir in collaboration with HEC. The paper title is:

**“Geological Investigations of Oct 8 Earthquake and Seismic Risk Assessment”**

6. Lectures delivered on International advance course on renewable energies, RERDEC, Turkish water foundation, Istanbul, The Lectures on multimedia were

**Reservoir operation and design**

**Hydropower in Pakistan**

**Flood Frequency and Design Flood Estimation**

**Computer Models**

### **Attended at International Level**

1. International workshop on groundwater resources organized by Geophysical Research Institute, Hyderabad, India. 18-27 Jan 1994.
2. International workshop on water resources of Libya organized by Department of Geological Engineering, Great Alfateh University, Tripoli, Libya 1996.
3. International advanced course on renewable energies organized by Turkish Water Foundation, Istanbul, Turkey, 5-14 June 2006.
4. International Workshop on Professional Capacity Building and Resettlement and Rehabilitation Titled "Management of Land Acquisition, Resettlement and Rehabilitation" Organized by World Bank, BRAC University, NESPAK at NESPAK House Lahore, 10-12 April 2012
5. International workshop on "Accuracy and reliability of flood forecasting models using remote sensing technologies for mapping, rainfall, hydrological characteristics and floodplains" organized by UNESCO, JICA and PMD at Hotel Avari, Lahore, Pakistan, 17-18 July 2012.
6. International seminar on "Reliable flood forecasting, A challenge for data, models or forecast skills" organized by UNESCO, JICA and PMD at Hotel Avari, Lahore, Pakistan, 18-19 Dec 2013.
7. Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (AR5) Outreach Event on "What does IPCC AR5 mean for Punjab/Pakistan" organized by IPCC, LEAD and The Urban Unit at Planning and Development Department, Lahore, Pakistan, 24 Feb 2015.

### **REVIEWER OF THE RESEARCH PAPERS FOR THE FOLLOWING JOURNALS**

1. Journal of Research in Economics and International Finance  
[www.interestjournals.org/JREIF](http://www.interestjournals.org/JREIF)
2. International Journal of Management and Business Studies  
<http://www.internationalscholarsjournals.org/>
3. Engineering Applications of Computational Fluid Mechanics,  
<http://jeacfm.cse.polyu.edu.hk/>
4. Journal of the Chemical Society of Pakistan, <http://jcsp.org.pk/index.php/jcsp>
5. Educational Research, [www.interestjournals.org/ER](http://www.interestjournals.org/ER)
6. International Journal of Medicine and Medical Sciences,  
[www.internationalscholarsjournals.org/ijmms](http://www.internationalscholarsjournals.org/ijmms)
7. Pakistan Journal of Sciences, Pakistan Association for the Advancement of Sciences, Lahore, ISSN: 0030-9877, [www.paas.com.pk](http://www.paas.com.pk)
8. Journal of Faculty of Engineering & Technology, University of the Punjab, Lahore.  
<http://pu.edu.pk/journals/index.php/jfet>
9. 'The Nucleus' Quarterly International Scientific Journal published by Pakistan Atomic Energy Commission, [www.thenucleuspak.org.pk](http://www.thenucleuspak.org.pk).
10. Journals of the Pakistan Institute of Chemical Engineers,  
<http://www.piche.org.pk/journal/index.php/jpiche>.

## POST GRADUATE THESES SUPERVISED

Type	Role	No. of Students Supervised & Awarded Degrees	No. of Students In Progress
B.S.	Supervisor	07	01
M.Sc	Supervisor	90	05
M.Phil	Supervisor	51	08
Ph.D	Supervisor	-	08
	Total	148	

### List of M.Sc.Theses Supervised

Sr No	Topic	Name of Student	Supervisor	Year
1	A study of groundwater hydrology of Dakhni Oil/Gas fields Jand District Attock	M.Azhar M.Asif	Iftikhar Ahmad/Zahid Karim Khan	2002-04
2	Scarcity of water in Tarbela reservoir, Haripur, Pakistan	Ali Kamran /M.Shahid	Iftikhar Ahmad/Zahid Karim Khan	2002-04
3	Physico-chemical analysis of leachate and groundwater near solid waste disposal Kasur.	Afia Hussain/Shah maila Zafar	Iftikhar Ahmad/Zahid Karim Khan	2003-05
4	Investigating water quality parameters with special reference to Lead contamination	Abdul Mateen/ Khalid Mahmood	Iftikhar Ahmad/Zahid Karim Khan	2003-05
5	Microbial quality of groundwater in the surrounding areas of Hudiara drain	Shamaila Tanveer/ Mahwish Yasmeen	Iftikhar Ahmad/Zahid Karim Khan	2002-04
6	Hazard analysis of critical control points	M.Asim Sahi	Iftikhar Ahmad/Zahid Karim Khan	2003-05
7	Coal combustion effects of human health (Gharibwal cement limit)	M. Imtiaz/ Irfan Hidayat	Iftikhar Ahmad/Zahid Karim Khan	2003-05
8	Chemical and microbial contamination of groundwater of selected areas of Lahore	Farhan Ashraf/ Muhammad Faisal Imran	Iftikhar Ahmad/Zahid Karim Khan	2003-05
9	An environmental study of Hunza river valley to analyze frequency of flash floods	Eram Aftab	Iftikhar Ahmad/Zahid Karim Khan	2002-04
10	Water quality assessment and modeling in river Sutlej	Muhammad Irtaza Khalid	Iftikhar Ahmad/Zahid Karim Khan	2003-05
11	Irrigation impacts of city effluent on soil crops and vegetables. A potential health risks in district Kasur.	Amira/Tahira	Iftikhar Ahmad/Zahid Karim Khan	2002-04
12	Waste water treatment with the addition of selected chemical coagulation with reference to Tanning area at CEPTP, KTWMA, Kasur	Mahmood-ul- Hassan / Muhammnad Umar Farooq	Iftikhar Ahmad/Zahid Karim Khan	2003-05

13	Role of settling tanks in waste water treatment at Kasur	Dr. Asif Mahmood	Iftikhar Ahmad/Zahid Karim Khan	2003-05
14	Environmental impact of assessment of multipurpose hydropower project in Satpara valley	M.Sadiq Hashmi/M. Riaz	Dr. Nasir Ahmad/Iftikhar Ahmad	2001-03
15	Safety Health and environmental studies at Missa Kaswal Oil field and Attock refinery limited	Ijaz Ahmad/Tahir Mahmood Khan	Iftikhar Ahmad/Zahid Karim Khan/Asmat Kmal	2003-05
16	Detection of concentration of Flouride in groundwater in 14 districts of Punjab and Manga Mandi near Lahore and its health effects	Fariha Arooj	Prof Dr. Iftikhar Hussain Baluch/Iftikhar Ahmad	2003-05
17	Surface water quality modeling river Ravi	Usman Arif	Iftikhar Ahmad/Zahid Karim Khan	2003-05
18	A study of the groundwater contamination by chemical in Sheikhpura Industrial zone	M. Ehitisham / Kamran/ Shahid Sohail	Iftikhar Ahmad/Zahid Karim Khan	2002-04
19	A study on the evaluation of water pollution on Soan river Rawalpindi	M.Aoun Rizvi/Aamer Iqbal/Sami ullah	Iftikhar Ahmad/Zahid Karim Khan	2002-04
20	Soil salinity survey of central Bari Doab canal command area	Yasir Gul Khan / Saleem Akhat	Iftikhar Ahmad/Zahid Karim Khan	2003-05
21	Estimation of flood hazards and flood frequency analysis in river Jhelum cathments	Zafar Iqbal/ Abdul Aziz/ Maqsood ul Haq	Iftikhar Ahmad/Zahid Karim Khan	2002-04
22	Microbial quality of groundwater resources in selected areas of Lahore city	Aseiah Abbas/Rukhsana Ilyas	Iftikhar Ahmad/Zahid Karim Khan	2002-04
23	Characterization of groundwater in semi arid region of Punjab-Sheikhpura	Naveed Ahmad Bhatti/Waseem Qadir	Iftikhar Ahmad/Zahid Karim Khan	2002-04
24	Efficiency of oxidation ponds in wastewater treatment plant at Kasur	Tahir Rasul/Shafqat Saeed	Iftikhar Ahmad/Zahid Karim Khan	2003-05
25	Geological and hydrological studies of Akhori dam project	M.Asif/M. Naveed	Iftikhar Ahmad	2003-05
26	Waste water treatment by constructed wetlands	Misbah-ul-Haq Lodhi/Mobeen-ud-Din	Iftikhar Ahmad/Zahid Karim Khan	2002-04
27	Water quality assessment of a selected part of Sutlej river	Shazia Anjum	Iftikhar Ahmad/Zahid Karim Khan	2003-05
28	Characterization of groundwater quality in upper Chenab command area	Maj Mansoor/Rashid Hameed	Iftikhar Ahmad/Zahid Karim Khan	2002-04

29	Solid waste management in Tanneries of Kasur	Yahya Aslam Bambil	Iftikhar Ahmad/Zahid Karim Khan	2003-05
30	Evaluation of sources of domestic wastewater in Rahim yar Khan city and its reuse	Saifullah/Farzana Yasmeen	Iftikhar Ahmad/Zahid Karim Khan	2003-05
31	Estimation of peak floods in Chenab river from Marala barrage to Khanki barrage	Hina Ishaque	Prof.Dr. Iftikhar Hussain Baluch/Iftikhar Ahmad	2004-06
32	Peak flood estimation in selected watersheds of Pakistan	Asim Altaf	Prof.Dr. Iftikhar Hussain Baluch/Iftikhar Ahmad	2003-05
33	Evaluation of food peaks of different return periods for Jhelum basin by using regression analysis	Waqas Afzal	Prof Dr. Iftikhar Hussain Baluch/Dr. Iftikhar Ahmad	2006-08
34	Flood routing of Jhelum River by using Muskingum method	Maria Nawaz/Mahrukh Raza	Dr. Iftikhar Ahmad	2007-09
35	Computation of Runoff in Data Scarce Environment using EPA's SWMM 5.0	Madiha Qamar	Prof Dr. Iftikhar Hussain Baluch/Dr. Iftikhar Ahmad	2007-09
36	Peak discharge estimates of Glacial Lake Outburst Floods and Normal climate floods for selected rivers of Northern Areas in Pakistan	Waqas Sikander/Nadeem Tariq	Prof Dr. Iftikhar Hussain Baluch/Iftikhar Ahmad	2006-08
37	Computation of runoff in Data Scarce Environment using Design Flood Software	Hira Khalid	Dr. Iftikhar Ahmad	2007-09
38	Rainfall analysis in Punjab with respect to water availability	Eizah Rubab/Mahreen Hussain	Prof Dr. Iftikhar Hussain Baluch/Dr. Iftikhar Ahmad	2005-07
39	Determination of peak runoff rates from different watersheds of Pakistan by using model of instantaneous unit hydrograph	Akif Rahim	Prof Dr. Iftikhar Hussain Baluch/Dr. Iftikhar Ahmad	2006-08
40	Estimation of peak floods of river neelum for hydropower project	Ana Makhdoom	Prof Dr. Iftikhar Hussain Baluch/Dr. Iftikhar Ahmad	2005-07
41	Groundwater flow modeling of Lahore City aquifer by using MODFLOW	Farhan Aziz/Rabia Faqir	Prof Dr. Iftikhar Hussain Baluch/Dr. Iftikhar Ahmad	2007-09
42	Finite element based contaminant transport modeling in groundwater of Sahiwal	Zaib un Nisa/Rabia Irfan	Prof Dr. Iftikhar Hussain Baluch/Dr. Iftikhar Ahmad	2006-08
43	Weekly rainfall prediction using standard package Smada	Mehwish Abbas/ Sana Qamar	Prof Dr. Iftikhar Hussain Baluch/Dr. Iftikhar Ahmad	2007-09

44	Estimation of maximum probable flood of selected upper Indus River Catchments	Kashi Hussain/ Kiran Fatima	Dr. Iftikhar Ahmad	2008-10
45	Regression models for flood forecasting for Jhelum river using SPSS	Ayesha Islam/ Nadia Khan	Dr. Iftikhar Ahmad	2007-09
46	Urban flooding in Lahore	Hadiqa Khaild Dar/ Sobia Latif	Dr. Iftikhar Ahmad	2008-10
47	Determination of unit hydrograph in comparison with synthetic unit hydrograph for selected catchments of Pakistan	Afia iftikhar/ Rabia Yousaf	Dr. Iftikhar Ahmad	2008-10
48	Contamination measurement in Lahore Canal	Rabia Zia Khan/ Ambreen sheikh	Dr. Iftikhar Ahmad	2008-10
49	Decline of water table in urban area of Multan due to excessive pumpage	Muhammad Javed Iqbal/ Tayyaba Tanveer	Dr. Iftikhar Ahmad	2008-10
50	The study of Probable Maximum precipitation (PMP) of Rawalpindi	Zunaira Siddiq/ Maryam Saleem	Dr. Iftikhar Ahmad	2008-10
51	Watershed analysis using Arc Hydro and HEC GeoHMS	Rizwan Saleem Kashif/ Muhammad amjad	Dr. Iftikhar Ahmad	2008-10
52	Flood frequency analysis at different sites of Pakistan's Rivers (A comparative study between the probability distribution)	Hassan Raza/ Muhammad Tariq Zia	Dr. Iftikhar Ahmad	2008-10
53	Investigating methods of hydrological data processing and computation and interpretation of hydrological data base	Aqsa Ahmad	Dr. Iftikhar Ahmad	2008-10
54	Flood routing of Chenab River from Marala to Khanki by using Muskingum method	Asif Iqbal/ Gul Zaman	Dr. Iftikhar Ahmad	2008-10
55	A study of spacio-temporal variation of Batura Glacier using remote sensing and GIS	Abida Parveen/ Nazia Yousef	Dr. Iftikhar Ahmad	2008-10
56	Design flood estimation of ungauged catchments using GIS and GIUH.	Muhammad Waqar	Dr. Iftikhar Ahmad	2008-10
57	Comparison of DAD Curves of rainfall at climatologically different areas of Punjab, Pakistan	Ghulam Murtaza and Arooj Fatima	Dr. Iftikhar Ahmad	2009-11
58	Water resources management options and crisis in Punjab	Noor-ul-Sahar and Ayesha Tahir	Dr. Iftikhar Ahmad	2009-11
59	Reservoir release optimization of Hingol dam using linear programming	Muhammad Umer and Nosheen Ashraf	Dr. Iftikhar Ahmad/Dr.Zahid Karim Khan	2009-11

60	Estimation of discharge and flood frequency parameters analysis of selected catchments using ArcGIS, HEC-HMS and Samada	M.Arslan Anwer and Tayyaba Kashif	Dr. Iftikhar Ahmad/Dr.Zahid Karim Khan	2009-11
61	Effects of flood 2010 on Pakistan	Kiran Yaseen	Dr. Iftikhar Ahmad/Dr.Zahid Karim Khan	2009-11
62	Variability in discharge of selected rivers in Pakistan with respect to climate.	Faiza Ashiq and Sehar Ashiq	Dr. Iftikhar Ahmad/Dr.Zahid Karim Khan	2009-11
63	Floodplain Mapping Using ArcGIS and HEC-RAS	Hafsa Farooq	Dr. Iftikhar Ahmad	2009-11
64	Comparison of Floods of Indus Tributaries Chenab and Ravi	Amara Saeed and Nadia Khalid	Dr. Iftikhar Ahmad/Dr.Zahid Karim Khan	2009-11
65	Flood, its Forecasting and Early Warning System in Lahore	Samra Arif Saira Ambreen	Dr. Iftikhar Ahmad	2009-11
66	The Knowledge and Practices of health care Providers regarding Biomedical Waste management at Services Hospital, Lahore	Bushra Naz	Dr. Iftikhar Ahmad	2009-11
67	Biomedical waste management in children hospital along with the evaluation of its incineration	Saba Arjumand Shista sardar	Dr. Iftikhar Ahmad/Dr. Khaqan Baber	2009-11
68	Evaluation of drinking water quality of Samanabad Town by using different parameters	Sadaf Iqbal / Mudassara Mushtaq	Dr. Zahid Karim Khan/ Dr. Iftikhar Ahmad	2010-12
69	Comparison of Unit Hydrograph between Soan and Poonch River catchments	Nimra Idrees/ Rabia Younas	Dr. Zahid Karim Khan/ Dr. Iftikhar Ahmad	2010-12
71	Water quality monitoring of Simly Lake by using GIS & RS	Madiha Boota	Dr. Zahid Karim Khan/ Dr. Iftikhar Ahmad	2010-12
72	Recharging zone of ground water and movement of ground water in Fordwaheastern Sadiqia (south)	Taimur Nawaz Khan	Dr. Zahid Karim Khan/ Dr. Iftikhar Ahmad	2010-12
73	Drainage morphometric and its influence on catchment of River Korung, using GIS, Arc hydro & DEM	Zainab Yaqoob / Anam Izhar	Dr. Iftikhar Ahmad	2010-12
74	Interpolation of SCS Curve Number Method using GIS & RS to estimate runoff of a catchment	Sadaf Iman / Sumra Ayoub	Dr. Iftikhar Ahmad	2010-12
75	Assessment of inflows and water quality of Rawal Lake under the threat of urban development using various techniques	Maryam Tariq/ Sania Saeed	Dr. Iftikhar Ahmad	2010-12
76	PMP & PMF studies of the " Soan " valley Potohar Region	Muneer Ahmed/Raja Rehan	Dr Iftikhar Ahmad	2011-13
77	Snow Cover Change Detection in Hunza Valley	Nimra Bashir/Ayesh a Sardar	Dr Iftikhar Ahmad	2011-13



78	Runoff simulation of Soan River by using Hydrological Model	Narmeen Fatima/Tahira Jamil	Dr Zahid/ Dr Iftikhar Ahmad	2011-13
79	An integrated approach towards sustainable development in selected area of Lahore City	Ayesha Younas/Fozia Shahzad	Dr Zahid/ Dr Iftikhar Ahmad	2011-13
80	Water Management option and crisis in Federal Capital Territory	Wajiha Akhatar/Tayyaba Hashmi	Dr Zahid/ Dr Iftikhar Ahmad	2011-13
81	Impact of Industrialization on Khanpur dam	Fatima Tariq	Dr Zahid/ Dr Iftikhar Ahmad	2011-13
82	Remote Sensing and GIS based flood mapping for 2010	Sara Mustafa/ Tahira Khurshid	Dr Iftikhar Ahmad / Dr Zahid	2011-13
83	Sedimentation in Mangla Reservoir	Neelam Shahzadi /Rida Shabbir	Dr Iftikhar / Dr Zahid	2011-13
84	Flood Mapping of Indus River from Taunsa barrage to Guddu barrage using Hec-Ras	Asma Shaukat Faiza Noor	Dr Iftikhar Ahmad/ Dr Zahid Karim Khan	2012-14
85	Ground water modeling using processing MODFLOW and Arc GIS tools for Salinity in Faisalabad District	Gulnaz Tariq Bushra Khurshid	Dr Iftikhar Ahmad/ Miss. Zaib-un-Nisa	2012-14
86	A study of ground water level fluctuations in Data Ganj Bakhsh Town Lahore by using GIS	Nimra Nasir Aneela Altaf	Dr. Iftikhar Ahmad/ Miss. Zaib-un-Nisa	2012-14
88	Sediment Transport modeling along Indus river up to Tarbela dam by using HEC-RAS	Ariz Gull	Dr Iftikhar Ahmad/ Dr Zahid Karim Khan	2012-14
89	GIS based hydrological modeling of Haro river using HEC-HMS.	Kanwal Shehzadi Anzil Tariq	Dr Iftikhar Ahmad/ Mam Zaib-un-Nisa	2012-14
90	Ground water quality of two district of Punjab (Pakistan) and possible health impact due to Arsenic and Floride in water	Shumaila Arshad Nazia kulsoom	Dr Iftikhar Ahmad/ Mr. Waqar	2012-14

#### List of M.Phil/M.S. Theses Supervised in Environmental Sciences

Sr. No	Topic	Name of Student	Supervisor	Year
1	Comparative analysis of health, safety and environmental issues in old plant and expansion project of a paper and board mill	Dur-e-Shahwar	Dr.Iftikhar Ahmad/ Dr. Tariq Sultan Pasha	2008-10
2	A study of the biological treatment of wastewater for the dairy industry using activated sludge process	Ambreen Lateef	Dr.Iftikhar Ahmad/Dr.Muhammad Nawaz Ch/ Shazia Ilyas	2009-11
3	Effects of climatic change on Dengue on the spread of Lahore	Ambreen Ghalib	Dr.Muhammad Nawaz Ch/	2009-11

			Dr.Iftikhar Ahmad	
4	Environmental impact assessment of Khanewal-Lodhran Expressway	Abeer Zia	Dr.Muhammad Nawaz Ch/ Dr.Iftikhar Ahmad	2009-11
5	Geomorphometric analysis of Haro river basin Potwar Pakistan	M. Sanaullah	Dr. Iftikhar Ahmad	2009-11
6	Determination of Residual Chlorine in Drinking Water of Muzaffarabad City, and Public's Perception about Chlorination Disinfection	Maria Abdullah	Dr. Iftikhar Ahmad	2009-11
7	Determining Hydropower Potential of Lower Spat Gah Hydropower Project through Geological and Hydrological Studies	Muhammad Naveed Anjum	Dr. Iftikhar Ahmad	2009-11
8	Identification and Assessment of Environmental Health and Safety Conditions of Dyeing Section in Master Textile Mills (Pvt) Ltd, Lahore	Marian Naseer	Dr. Iftikhar Ahmad	2009-11 Late Submitted 9.2.2014
9	A comparative review of environmental system of the spinning unit of textile Industry	Munaza Zahoor	Dr.Muhammad Nawaz Ch/ Dr.Iftikhar Ahmad	2010-12
10	A review of environment management of the processing unit of textile industry, Central Punjab, Pakistan	Hina Khan Baloch	Dr.Muhammad Nawaz Ch/ Dr.Iftikhar Ahmad	2010-12
11	A Study on Health, Safety and Risk problems associated with High Rise Buildings	Mehwish Liaqat	Dr. Iftikhar Ahmad	2010-12
12	Flood Hazard Analysis of Badin Flood 2011, by using HEC-RAS, Remote Sensing and GIS Techniques	Ambreen Asad Ullah	Dr. Iftikhar Ahmad	2010-12
13	Environmental and hydrological study of Satpara Dam	Huda Javed	Dr.Iftikhar Ahmad	2010-12
14	Mapping of Atmospheric Pollution using GIS & Remote Sensing Techniques	Sara Anbreen	Dr.Masud Aslam Mian / Dr.Iftikhar Ahmad	2010-12
15	Flood Monitoring, Mapping and Modeling using GIS and Remote Sensing Techniques	Anam Munawar	Dr.Muhammad Ali / Dr.Iftikhar Ahmad	2010-12 Space Science Dept.
16	Hydrological and sedimentation studies of Dasu hydropower project.	Mudassar Iqbal (06) Geology	Dr.Iftikhar Ahmad	2010-12 Ext. Dec 2013
17	Climate sustainability for Dengue Transmission in selected parts of Pakistan	Madiha Sakhawat (35)	Dr.Iftikhar Ahmad	2011-13
18.	Groundwater quality study of selected area of Lahore City	Alia Hussain (39)	Dr.Iftikhar Ahmad	2011-13
19	Solid Waste Management of Bioenergy Production.	Sana Ashraf (24)	Dr.Iftikhar Ahmad	2011-13

20.	Hydrological modeling of upper Indus using Swat Model	Zaib un Nisa (30)	Dr.Iftikhar Ahmad/Ms Khadija Silvea	2011-13
21	Agricultural Non-Point Source Pollution (AGNPS) Model based assessment of Muzaffargarh Watershed	Fizza Ijaz	Dr. Iftikhar Ahmad	2012-14
22	Integrated Water Resource Management in Upper Indus Basin	Fozia Maqbool	Dr. Iftikhar Ahmad	2012-14
23	Water accounting for buildings in selected area of Lahore	Fawad	Dr.Iftikhar Ahmad	2013-15

#### List of M.Phil Theses Supervised in Applied Hydrology

Sr. No	Topic	Name of Student	Supervisor	Year
24	Groundwater modeling of Lahore City	Farhan Aziz	Dr. Zahid Karim /Dr. Iftikhar Ahmad	2010-12
25	Groundwater quality exploration using PhreeqC modeling technique in Manga Mandi, Lahore District.	Safdar Ali	Dr. Iftikhar Ahmad	2010-12
26	Sediment transport modeling using HEC-RAS at Tounsa Barrage	Madeha Qamar	Dr. Iftikhar Ahmad / Dr. Zahid karim	2010-12
27	Simulation of runoff using HEC-HMS and GIS Technique in selected Rawal Dam watershed	Rabia Faqir	Dr. Zahid Karim Khan/Dr. Iftikhar Ahmad	2010-12
28	Flood plan mapping integrating GIS Remote Sensing in Muzaffargarh District Pakistan.	Mehwish Abbas	Dr. Iftikhar Ahmad	2010-12
29	Determination of best site for hydropower plant by using geomorphological characteristics	Ayesha Aslam	Dr. Zahid Karim Khan/ Dr.Iftikhar Ahmad	2011-13
30	Geomorphologic modeling approach in GIS environment for the development of flood hydrograph in ungauged catchment	Muhammad Waqar	Dr. Zahid Karim Khan	2011-13
31	Runoff Analysis to develop a new reservoir upstream of Khanpur Dam	Maria Yaqoob	Dr.Iftikhar Ahmad/ Dr. Zahid Karim Khan	2011-13
32	Impact of climate change on inflows of Tarbela Dam	Aqsa Ahmad	Dr. Zahid Karim Khan/ Dr.Iftikhar Ahmad	2011-13
33	Impact of climate change on Indus River.	Waqas Sikander	Dr.Iftikhar Ahmad/ Dr. Zahid Karim Khan	2011-13
34	Rainfall Pattern Variation in Lahore due to climate change	Nazia Yousaf	Dr.Iftikhar Ahmad	2011-13
35	Evaluation of sounding technique for hydrographic storage capacity of Tarbela reservoir	Muhammad Armaghan	Dr.Iftikhar Ahmad	2011-13
36	Optimal artificial neural network modeling for sedimentation yield and	Akif Rehman	Dr.Iftikhar Ahmad	2011-13

	runoff relation in high flow season of Indus river at Besham.			
37	Assessment of sedimentation in Hingol reservoir using HEC-RAS	Muhammad Sheraz	Dr. Iftikhar Ahmad	2011-13
38	Statistical and Stochastic Modeling of Rainfall Data for Extreme Hydrological Events in Baluchistan Parched Region	Sadaf Iman	Dr. Iftikhar Ahmad/ Dr. Saeed Shah	2012-14
39	Impact Assessment of Climate Change on the Hydrological Response of Precipitation & Snow Melt Runoff on Gilgit River Catchment (Upper Indus Basin) by using GIS and Positive Degree Day method.	Samra Ayub Alam	Dr. Zahid Kareem Khan Dr. Iftikhar Ahmad	2012-14
40	Development of Groundwater Flow Model Through Adoptive Procedure of GIS.	Maryam Umar	Dr. Iftikhar Ahmad Dr. Zahid Kareem Khan	2012-14
41	A Distributive Modeling Approach Based upon Physical Process by using The System Hydrologique European (SHETRAN) Model and HDFView.	Samra Ali Ashraf	Dr. Iftikhar Ahmad Dr. S.M Saeed Shah	2012-14
42	Groundwater Vulnerability Assessment, Risk Mapping and Water Table Evaluation using GIS & GMS for Lower Bari Doab Canal, Command Punjab, Pakistan.	Nadeem Tariq	Dr. Zahid Kareem Dr. Iftikhar Iftikhar	2012-14
43	Annual Soil Erosion Risk Mapping in Korang River by using RUSLE & GIS Modeling.	Zunaira Siddiq	Dr. Iftikhar Ahmad Dr. Zahid Kareem Khan	2012-14
44	Dam Break Modeling of Balakot Dam (Kunhar River) using HEC-RAS.	Asif Iqbal	Dr. Iftikhar Ahmad Dr. Zahid Kareem Khan	2012-14
45	Floodplain mapping and zoning of Chenab River from Marala barrage to Khanki Barrage using HEC-RAS and HEC-GeoRas.	Narges Kazmi	Dr. Zahid Karim Khan/ Dr. Iftikhar Ahmad	2013-15
46	Assessment of groundwater intrinsic vulnerability using GIS based Sintacs model in Lahore City	Sadaf Iqbal	Dr. Zahid Karim Khan/ Dr. Iftikhar Ahmad	2013-15
47	Stormwater management in selected area of Lahore	Naila Tariq	Dr. Iftikhar Ahmad	2013-15
48	Groundwater flow modeling of Lahore and surrounding area.	Sobia Latif	Dr. Iftikhar Ahmad/ Zeb-un-Nisa	2013-15
49	Rainfall-runoff modeling and flood estimation of the Kunhar river catchment by using semi-distributed physically based data according to time scales.	Raja Rehan	Dr. Iftikhar Ahmad/ Muhammad Waqar	2013-15

50	Impacts of groundwater fluctuation modeling from reservoir/dam to coal mine capitals	Noor-ul-Sahar	Dr.Iftikhar Ahmad	2013-15
51	Runoff simulation of Haro River using HEC-HMS.	Narmeen Fatima	Dr.Iftikhar Ahmad	2013-15

#### List of B.S. Theses (Environmental Sciences) Supervised

Sr. No	Topic	Name of Student	Supervisor	Year
1	Identification and Evaluation of Safety, Health and Environmental Issues in Ittehad Chemicals Limited, KalashahKaku, Lahore	Aqsa Iqbal FaizaShoukat SajidaLiaqat	Dr.Iftikhar Ahmad	2008-12
2.	Critical review of environmental management system in Pak Arab Refinery, Multan	Muhammad Naeem Arif Hussain	Dr.Iftikhar Ahmad	2009-13
3.	Water quality assessment of Kattas Area.		Dr.Iftikhar Ahmad	2009-13
4.	Drinking water quality of Sundar Industrial State.	Zafshan/ Farwa Anwar	Dr.Iftikhar Ahmad	2009-13
5.	The study of occupational health and safety for environmental care in Punjab Institute of Cardiology, Lahore	Seemab safdar/ Faiza Ghafoor	Dr.Iftikhar Ahmad	2009-13
6.	Biogas production from organic waste of Punjab University and estimation of electricity production potential	Sidra Ijaz Khan Shehr Bano Saqib Javed	Dr.Iftikhar Ahmad	2010-14
7.	Comparison of Drinking Water Quality in some Planned and Unplanned Societies of Lahore through GIS	Farkhenda Tasneem Haleema Sadia Saiqa Amjad	Dr.Iftikhar Ahmad	2011-15

#### List of M.Phil/M.S. Theses (Environmental Sciences) in Progress Session 2011-13

Sr. No	Topic	Name of Student	Supervisor	Year
1.	Reuse of waste water for fisheries	Nosheen Arshad	Dr.Iftikhar Ahmad	2011-13
3.	In progress	Hira Khurshid	Dr.Iftikhar Ahmad	2014-16

#### List of Ph.D Theses (Environmental Sciences) in Progress Session 2011-14

Sr. No	Topic	Name of Student	Supervisor	Year
1	Long Term Integrated (multi-agent) Modeling of Power Sector under Sustainable Development Pathway	Sana Bashir (HEC Indigenous Scholarship)	Dr.Iftikhar Ahmad	2011-14
2.	Sustainable water management of rivers in Pothohar region using water evaluation and planning (WEAP) model	Tahmina Kiran	Dr.Iftikhar Ahmad	2011-14
3.	Climate Change; Impacts & Adaptation Strategy for Punjab, Pakistan	Abdul Qaiyyum	Dr.Iftikhar Ahmad	2011-14

4.	Assessment of Contaminants fate from Oil & Gas Drilling Waste Discharge Streams and Environmental Risk Management through Risk Based Environmental Decision Methodology	Muhammad Sameem Husain Qaiser	Dr.Iftikhar Ahmad	2011-14
5.	Estimation and Characterization of Dioxin and Furan from selected waste incineration facilities in Punjab	Ahtasham Raza	Dr.Iftikhar Ahmad	2011-14
6.	Simulation and modeling of climate change impact on water resources of Pakistan under A2 scenario	Jaweria Shamshad	Dr.Iftikhar Ahmad	2011-14
7.	Synopsis in Progress	Hina Ishaque	Dr.Iftikhar Ahmad	2011-14
8.	Synopsis in Progress	Sobia Bhatti	Dr.Muhammad Nawaz Ch/ Dr.Iftikhar Ahmad	2014-16

### Educational Qualifications

Sr. No	Degree/ Certificate / Diploma	Institute/ College	University/ Board	Marks Obtained	Total Marks	% age	Subjects/ Discipline
1	Matric	Govt. Watan Islamia high School	Lahore Board	710	900	78.8%	Physics, Math, Chemistry
2	F.Sc	Govt. College, (GCU), Lahore	Lahore Board	564	1000	56.4%	Physics, Math, Chemistry
3	B.Sc	Institute of Geology	Punjab University	324	700	46.2%	Geology, Physics, Math
4	M.Sc	Institute of Geology	Punjab University	A Grade		81.0%	Geohydrology Engg. Geology
5	M.Phil	Centre of Excellence in Water Resources Engineering	Engineering University			<b>Gold medal</b>	Groundwater Hydrology, Surface water hydrology, etc
6	Ph.D	Post Graduate Centre for Earth Sciences	Punjab University				Earth and Environmental Sciences
7	M.P.A (HRM)	Institute of Administrative Sciences	Punjab University	1768	2200	CGPA 3.56 (B+)	Human Recourse Management
8	Computer Courses	Training conducted	Punjab University				Ground-water modeling using MODFLOW
9	Any other	As in list Above					