

## DR. MOHAMMAD SHAKEEL



*Designation*

Professor

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Department of Civil Engineering  
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*Google Scholar ID:*

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186541

*Major Research Interest*

- Hydrology, Hydraulics,
- Open Channel Flow, Groundwater,

*Teaching and Research Experience* 31years

*Administrative experience* 15 years

*PhD Guided* 04

*Research Publications* 23

*Citations* 55

*H index* 3

*Books* 3

## ACADEMIC

### PROFESSIONAL QUALIFICATION

Degree/Exam	Topic/Specialization	University	Year	Remark
B.Tech. (Civil)	Civil	A.M.U.,Aligarh	1984	8.13 (CPI)
P.G. Diploma in Hydrogeology	Hydro-geology	A.M.U.,Aligarh	1985	76 %, I Position
MTech (Hydraulic Structures)	Hydraulic Structures	A.M.U.,Aligarh	1987	81 %, I (Hons)
Ph.D. (Hydrology)	Hydrology	U.O.R. Roorkee	1997	

### AWARD/SCHOLARSHIP RECEIVED

S.No.	Title	Awarding Agency	Duration
3	Awarded Q.I.P. fellowship for Doctoral Program at U.O.R. Roorkee	U.O.R. Roorkee	
2	University Fellowship in P.G Diploma in Hydrology	A.M.U.,Aligarh	
1	University Medal for securing first position in P.G. Diploma in Hydrology	A.M.U.,Aligarh	

### MEMBERSHIP OF PROFESSIONAL BODIES

S. No.	Title	Professional Body
1	Life Member	Indian Society for Technical Education



## RESEARCH GUIDANCE

Ph. D.	
Awarded	4
Under Progress	2
Current Vacancies as on 1-9-2021	4

### Ph.D. Awarded

S. No.	Title	Student	Year of Award
4	Ground water Contamination modelling and risk assessment in major industrial area of NCR Delhi	*Mohd. Mansoor Ul Haq	2020
3	Analysis of geomorphometric characteristics of two climatically distinct watershed using remote sensing data	Rabab Siddiqui	2019
2	Operational strategy for Bhakra reservoir under changing Climate	Asha Devi	2018
1	Investigation of Linkage of Large-Scale climate indices with extreme precipitation and flow events	Geeta	2018

\*Submitted

### Ph. D. in Progress

S.No.	Title	Student	Status
2	Use of a combination of groynes for controlling river Erosion	Mohd Amir Jafri	In progress
1	Influence of pacific and Indian ocean temperature on Monsoonal rainfall in India	Abdul Rehman	In progress

# Co-Supervisor

**M.TECH. DISSERTATION GUIDED****10Nos**

S.No.	Title	Year
10	Pollution Status of Yamuna River and Assessment of its Assimilation Capacity	2009
9	Qualitative and Quantitative study of Ground Water for JNU Campus	2007
8	Heavy Metal assessment in Surface Water and at confluence of Major Drains in Yamuna at Delhi	2005
7	Study of Iron removal from ground water using activated carbon as adsorbent	2004
6	Water supply management for Faridabad Town	2004
5	Current scenario of drinking water and wastewater in Delhi	2002
4	An experimental Study of Evaporation rate in Uniform and Non-Uniform Soil samples in and around Delhi	2001
3	Application of Probability and Stochastic Methods in the prediction of flood peaks	2000
2	A study of Rainfall-Runoff Relationship for some Watersheds	1998
1	Estimation of Potential Evapotranspiration for Delhi – A Comparative Analysis	1999

**UNDERGRADUATE PROJECT GUIDED Nos****13**

## ACADEMIC CONTRIBUTION

- Setting up of undergraduate Hydraulics Laboratory.
- Setting up of Hydrology Laboratory.
- Professor In charge (Examination) for the Faculty of Engineering & Technology 2003 - 2009
- Acted as Supdtt. / Astd. Suprtd. in Annual and Competitive Examinations since 1992
- Tabulator for Examination results since 1988.
- Timetable in charge since 1987.
- Member of the Selection Board of the National Institute of Science Communication (NISCOM) (Urdu panel) CSIR
- Student's Adviser of III-year B.Tech. Students
- Member of selection board at Kendriya Vidyalaya Sangathan, New Delhi
- Member Technical Committee, Building Department, J.M.I.
- Member Selection Committee A. M. U. Aligarh
- Member Selection Committee EdCil (A Government of India Enterprise)

## CORPORATE CONTRIBUTIONS

Contributed to the corporate life of the University as Prof in charge examination (2003-2009), Director of Distance Education (2010-2013), Head of the Department of Civil Engineering (2013-2016), Dean of the Faculty of Engineering and Technology (2013-2016), along with other responsibilities. Has life membership of Professional bodies and on the academic panel of several universities. He has undertaken several consultancy projects in the field of Groundwater Management, Barren Land Reclamation, Adequacy of ETP, Third party assessment of construction Work, etc.

# PUBLICATIONS

## BOOKS / CHAPTERS

1. Evaluation of Temperature trend over Rampur at Satluj River Basin Azhar Husain and Mohammad Shakeel, Water Resources Management year-2014 Real World Education Publishers, New Delhi, ISBN: 978-93-85491-01-6
2. Estimation of Peak Flood Discharge for Kakkadavu Dam in Kariangode River Basin”, BY: Azhar Husain and Mohammad Shakeel Chapter No – 20, Water Resources Management year-2014 Real World Education Publishers, New Delhi, ISBN: 978-93-85491-01-6
3. Analysis of Relationship Between Meteorological Variables for the Satluj River Basin BY: M Hamid Husain, A, Shakeel. M, Sharif M Chapter No – 18 Water Resources Management year-2014, Real World Education Publishers, New Delhi, ISBN: 978-93-85491-01-6

## RESEARCH PAPERS

Total 23

### Journals

S. No	Paper Details	Year
6	Mansoor ul Haq Khan, Mohammad Shakeel, Naved Ahsan, Sirajuddin Ahmed, Nadeem A. Khan, Groundwater contamination and health risk posed by industrial effluent in NCR region, Materials Today: Proceedings, 2021,	2021
5	Rabab S, Said S and Shakeel M (2020), “Nagmati River Sub-watershed Prioritization using PCA and AHP Based Approach - A Case Study”, Natural Resources Research, ISSN 1520-7439, pp. 1-22, (Springer Links, IF 3.7).	2020
4	Rabab S, Said S and Shakeel M, “Hydrological Response of Two Climatically Distinct Watersheds Using SCS-CN Method”, Submitted to Environmental Monitoring and Assessment (September 2020).	2020
3	Rabab S, Said S and Shakeel M, (2018) “Morphometric analysis and sub-watersheds prioritisation of Nagmati River watershed, Kutch District, Gujarat using GIS based approach”, Journal of water and land development, No 39 (X-XII), ISSN 2083-4535, pp. 131-139, (Scopus indexed, IF 1.56).	2018
2	Singh, G., Sharif M., Shakeel, M., (2017), “Investigation of Linkages of El-Nino Southern Oscillation with Monsoonal Precipitation in India”, Journal of Earth Science & Climatic Change,8:11, DOI:10.4172/2157-7617.1000426.	2017
1	Ahmad, M.L., Shakeel, M., Husain, A, Sharif, M. (2014) “Comparison of Observed and CRU Precipitation Data for Satluj Basin”. International Journal of Earth Sciences and Engineering, Vol 7 (2), 434-440.	2014

## National/ International Conference/Symposia

S. No	Paper Details	Year
17	Rabab S, Said S and Shakeel M, (2021), "Hypsometric Analysis of Two Climatically Distinct Watersheds", Indian National Chapter of International Association of Hydrogeologists (INC-IAH), Organizes Online Seminar on Resilience of Ground Water Resources for Accommodating Changing Climate Scenarios, 27 February.	2021
16	A.Rehman, Prof. M Sharif, Prof. M.Shakeel," Role of Water Resource Management in Smart Cities" International Conference on Smart Cities at JMI, New Delhi, 14-16 March, 2019	2019
15	Rabab S, Said S and Shakeel M, (2019), "Prioritization of Sub-Watershed based on Morphometric analysis using Remote sensing and GIS techniques", International Conference, Smart Cities, JMI, March 14-16.	2019
14	A.Rehman, Prof. M Sharif, Prof. M.Shakeel, Saad Moeeni," Impact of Climate Change on Water Resource Management" ISBN-9789386312433, National Conference on WRM at Aligarh Muslim University, Aligarh, 15-16 March, 2019	2019
13	Rabab S, Said S and Shakeel M, (2019), "Morphometric analysis and sub-watersheds prioritization of Kosi River Watershed, Nainital District, Uttarakhand using Remote sensing based approach", National conference, water Resources management, AMU, Aligarh, March 15-16.	2019
12	MansoorulHaq Khan, Naved Ahsan, Mohammed Shakeel. "Impact of Urbanization on groundwater table in parts of NCT of Delhi" National Conference on Water and Health (2019).	2019
11	Singh, G., Shakeel, M., Sharif M., (2018), "Investigation of Co-relation between El-Niño, Maximum Temperature and Annual Average Precipitation in India Using PCA", International Conference on Health and Air Pollution: Effect and Management (ICOHAP), 7-8 Sept 2018 at New Delhi, Organized by International Development Centre Foundation in Association with BRICS International Forum, Co-hosted by CSIR.	2018
10	Rabab S, Said S and Shakeel M, (2018), "Morphometric analysis of Nagmati River watershed, Kutch District, Gujarat using GIS based approach", National conference, Interdisciplinary department of remote sensing and GIS application, AMU, Aligarh, February 17-19.	2018
9	Hamid, A. T., Shakeel, M. and Sharif, M (2015) Relationship between ENSO and precipitation in Satlujpiverpasin. Bangkok International Conference on Engineering & Applied Science (BICEAS 2015), 26-28 February, 2015, Bangkok, Thailand	2015
8	Husain, A, Shakeel.M (2015) "An Overview Rain water Harvesting "National Workshop on Green Building in India: Present Practices and 12Future Prospect Proc, August-27 Deptt of Civil Engineering, J.M.I. New Delhi pp-25-31.	2015



7	Hamid, A. T., Shakeel, m., Sharif, M., and Husain, A. (2014) Analysis of relationship between meteorological variables for the Satluj river basin, National Conference on "Water Resources Management – Achievements & Challenges" (WRM-AC 2014), 22nd March, 2014, Jamia Millia Islamia University, New Delhi, 262-272.	2014
6	Husain, A, Shakeel.M (2014) "Evaluation of Temperature trend over Rampur at Satluj River Basin "National Conference on (WRM- A&C2014) Proc, March-22 Deptt of Civil Engineering ,J.M.I. New Delhi. Pp97-103	2014
5	Husain, A, Shakeel.M (2014) "Estimation of Peak Flood Discharge for Kakkadavu Dam in Kariangode River Basin" National Conference on (WRM- A&C-2014) Proc, March-22 Deptt of Civil Engineering, J.M.I. New Delhi pp-290-295.	2014
4	Ahmed, Mohammed Lateef, Mohammed Sharif, and Mohammad Shakeel. "Analysis of Discharge and Gauge Level Data at Old Railway Bridge, Delhi." In Int'l Conference on Artificial Intelligence, Energy and Manufacturing Engineering (ICAEME'2014). 2014.	2014
3	Sirajuddin Ahmed; Mohammed Shakeel; Rashmi Makkar "Electronic Waste Recycling: Opportunity for Resource Recovery or Threat to the Environment" In: National Seminar on E-Waste Management and Recycling in India – Issues and Challenges, Jamia Millia Islamia New Delhi, 17-18 March 2011	2011
2	Sirajuddin Ahmed; Mohammed Shakeel; Rashmi Makkar "Current Status of E-Waste Management In Delhi" In: National Conference on Economics of Solid Waste Management in India, Jamia Millia Islamia New Delhi, 14 March 2010	2010
1	S. S. Nabi; Sirajuddin Ahmed; Mohd. Shakeel; Javed Khan (1999) "Decentralised Wastewater Treatment by Low-Cost Root Zone System" In: International Conference on Environmental Challenges for the New Millennium. New Delhi November 25-27, 1999, New Delhi INDIA. New Delhi, CADPLAN, 287-293	1999

## PARTIAL LIST OF CONSULTANCIES PROVIDED

S. No.	Project	Client	Year
18	Design of Seasonal River Diversion Channel at Dehradun	Slip Tech Consultant	2020
17	Augmentation and optimisation water supply system with online monitoring for Ram Manohar Lohia Hospital New Delhi	CPWD, New Delhi	2018
16	Planning, Design and Detailing of Percolating Road (Rainwater Harvesting) and Low cost Decentralized Treatment System (CW) for Selected Colony of Delhi	Department of Urban Development, Govt. of NCT of Delhi	2018
15	Design of 1 MLD ABR + CW based STP for Rural Area using ABR and CW with Solar Energy	Haryana Public Health Department	2017
14	Rain Water Harvesting System for Oberoi Amarvilas Hotel, Agra	Life Green System, New Delhi	2017
13	Rain Water Harvesting System for Trident Hotel, Agra	Life Green System, New Delhi	2017
12	Design of DEWATS (Anaerobic + CW system) for for MEWAT	Haryana Public Health Engineering	2016
11	Design of Ranney Wells	HUDA DIV-III Faridabad	2016
10	Design of Ranney Wells	HUDA DIV-III Faridabad	2016
9	Vetting of EIA report for Sewerage collection and treatment of Patna Township	Meinhard	2015
8	Vetting of EIA report for Sewerage collection and treatment of Kanpur (Bithoor)	UP Jal Nigam	2015
7	Water Audit of Hotel	Taj Vivanta New Delhi	2014
6	Adequacy of STP Plant of Mother Dairy at Patparganj New Delhi	Mother Dairy Corporation	2014
5	Design of optimum size of Thrust Block for Water main for Augmentation of Water Supply Scheme Faridabad	R.K Engineers Sales Ltd. Gomti Nagar, Lucknow	2013
4	Design and Preparation of Estimate for Drainage and sewerage System for New Township at Hissar/Sonipat for Haryana Urban Development Authority	KV Consultant , Gurgaon	2011
3	Vetting of Ranney Well Design for Water Supply of Municipal Corporation of Faridabad	Municipal Corporation of Faridabad	2011
2	Feasibility study of six number of Ranney Well for water supply to Faridabad	Khandelwal and Associates	2010
1	Site Selection and Design of Ranney Well for Augmentation of water supply scheme at Ghaziabad	UP Jal Nigam Ghaziabad	2009