

# Curriculum Vitae



Name: **DR. AZHAR HUSAIN**  
Designation: **PROFESSOR**  
Experience: **Total 24 years** (21 years teaching & 03 years consultancy job in WAPCOS.  
Office: Department of Civil Engineering  
Faculty of Engineering and Technology  
Jamia Millia Islamia  
(A Central University)  
New Delhi – 110025  
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[azhartusail@gmail.com](mailto:azhartusail@gmail.com)  
Nationality: Indian  
Marital Status: Married  
Languages Known: English, Hindi, and Urdu  
Computing Skills: Familiarity with optimization software – LINGO, LINDO and SOLVER, Mike Flood  
Familiarity with HEC-RAS, SWAT Modelling

### Educational Qualification

DEGREE	UNIVERSITY	YEAR COMPLETED	RANK
<b>Bachelor of Technology (B.Tech)</b>	Jamia Millia Islamia (Central University) New Delhi, INDIA	1993	FIRST DIV, with THIRD POSITION 94.05 % CPI
<b>Master of Engineering (M. E.)</b>	Delhi college of Engineering (D.C.E) Delhi University INDIA	1997	FIRST DIV, with SECOND POSITION 70% marks
<b>Ph.D (Civil) Engineering</b>	Jamia Millia Islamia (Central University) New Delhi, INDIA	2010	---

### SCHOLARSHIPS/FELLOWSHIP

S. No.	Scholarship	Awarding Agency	Year
1	GATE Scholarship	Department of Education, Ministry of Human Resource Development, Govt. of India. (MHRD)	1994-1996

### Teaching Assignments

#### Courses Taught at Undergraduate level (& B.TECH, B.E & B. Arch)

S.NO	Course	No. of students	Semester/Year	Contact Hours
1.	Structure Analysis I&II(B. Arch)	45	I	60
2.	Engineering Mechanics	70	I	55
3.	Transportation Engineering	70	III	60
4.	Fluid Mechanics	70	III	55
5.	Hydraulics	70	IV	55
6.	Open Channel Flow	70	V	55

7.	Fluid Mechanics(LAB)	70	III	55
8.	Hydraulics(LAB)	70	IV	55
9.	Water Resources Engineering -II	70	VIII	55
10.	Engineering Economics & Cons. Management	70	VII	55
11.	Optimization Technique (Elective Course)	70	VIII	55
12.	Engineering Hydrology	70	III YEAR	60
13.	Engineering Mathematics	70	I YEAR	60

#### **Courses Taught at Post-graduate level (M.Tech)**

S.NO	Course	No. of students	Semester	Contact Hours
1	Optimization Technique	15	V	50

#### **Appointments held prior to joining this institution:-**

Designation	Name of Employer	Date of Joining		Pay Band with AGP
		Joining	Leaving	
Guest Teacher	Delhi College of Engineering (D.C.E) Delhi University	27th July 1996	14th August 1998	8000 (Fixed)
Engineer (Civil)	Wapcos (govt of India undertaking)	16th August 1999	14th March 2002	Basic 8600-14600(IDA)

#### **Posts held since joining Jamia Millia Islamia (Central University):-**

Designation	Department	Date of actual Joining		Pay Band with AGP
		From	To	
Lecturer/ Assistant Professor	Civil Engineering	15 <sup>th</sup> March 2002	15 <sup>th</sup> March 2007	8000-275-13500 with AGP: 6000/-
Assistant Professor	Civil Engineering	15 <sup>th</sup> March 2007	31 <sup>st</sup> October 2012	15600-39100 with G.P. 7000/-

G.P. 7000/-				
Assistant Professor G.P8000/-	Civil Engineering	31 <sup>st</sup> October 2012	31 <sup>st</sup> October 2015	15600-39100 with G.P. 8000/-
Associate Professor G.P 9000/-	Civil Engineering	31 <sup>st</sup> October 2015	31 <sup>st</sup> October 2018	37000-67000 with G.P. 9000/-
<b>Professor</b> G.P 10,000/- New Scale/ PB: Level 14 (T)	Civil Engineering	31 <sup>st</sup> October 2018	To continue	37000-67000 with G.P. 10,000/-(Old) Basic:1,62,300/ New Scale/ PB: Level 14 (T)

### **Research Interests**

Hydro-climatology  
Flood Modelling  
Climate Change Impact Studies  
Water Resources Management  
Optimal Operations of Reservoir Systems  
Stochastic Hydrology

### **PROFESSIONAL MEMBERSHIPS**

Member, Indian Society of Environmental Management, New Delhi, INDIA  
Member, Indian Society for Technical Education, New Delhi, INDIA  
Member, Institution of Civil Engineers, New Delhi, INDIA.

#### **❖ GIAN COURSE ORGANISED (AS COURSE COORDINATOR) 2018 (15TH JAN TO 20TH JAN) UNDER MHRD, SCHEME COURSE NO.174028C02**

**Title: Managing Floods and Droughts in a changing climate**

**Amount Allotted \$8000 (Rs, 5.44 Lakh)**

**Foreign Faculty: Prof Hans Christian Ammentorp DHI Denmark**

#### **Conference/ Workshop Organised (As an Organized Secretary)**

- One-day National Conference on Water Resources Management- Achievements & Challenges (WRM-A&C) Year 2014.
- One-day National Workshop on Green Building in India: Present Practices and Future Prospect Year 2015

### **Research Projects Executed**

- Evaluation of Streamflow Change at Bhakra Reservoir under Future Scenarios of Climate Change funded by UGC/Jamia Under innovative Research Activities INR 1, 00,000/ as PI. Year 2014

### **Research Projects Proposal Submitted**

- Hydrological Modelling Scenarios of Climate Change Based Upon Representative Concentration Pathways. Project Funding Under India-Iran Bilateral Scientific and Technological Cooperation Program Submitted to DST Ministry of Science and Technology New Delhi, as Co-PI in July 2020 INR13.948 lac and Iranian Rial 8150 lac
- Optimization of Enhanced Energy Recovery from Urban Wastes funding Amount 33.93 lac R&D PCRA, Sanrakshan Bhawan New Delhi as Co-Investigator in October 2020

### **Book Published**

1. Geomorphology Based Flood Hydrograph Analysis,(2018) (Author) International Publisher- LAMBERT Academic Publishing ISSN/ ISBN No 10: 613992734XISBN 13: 9786139927340
2. Optimal Operation of Satluj River Basin under Future Climate Scenario, (Author). (2017). International Publisher- LAMBERT academic publishing ISSN/ ISBN No -978-3-330-34395-5
3. Open Chanel Flow – A Profile (2020) (Author), Publisher : I.K. International Publishing House Pvt. Ltd, New Delhi (under progress)
4. Experimental Hydraulics Engineering (Author), Publishers: Real World Education ISBN 978-93-85491-00-9 year-2015
5. Water Resources Management (Editor), Publishers: Real World Education ISBN 978-93-85491-01-6 year 2014.
6. Proceedings National Conference on Water Resources Management Achievements and Challenges (WRM-AC 2014) Publishers: Real World Education ISBN 978-81-927151-7-9.

### **Chapters published in Books / Edited Books**

1. "Water Pollution and Health" (2019), Chapter: Global Warming and Climate Change Effects: Information and Facts. Publisher: CYBER TECH PUBLICATIONS, Darya Ganj, New Delhi. ISBN: 978-93-5053-378-1 pp188-199
2. "Water Pollution and Health" (2019), Chapter: Flood disaster: Its Impacts, Challenge and its Management in India. Publisher: CYBER TECH PUBLICATIONS, Darya Ganj, New Delhi. ISBN: 978-93-5053-378-1 pp200-218.
3. "Seismic Hazard Mitigation of Structures" (2019), Chapter: An Overview of Earthquakes and Dams in India. Publisher: CYBER TECH PUBLICATIONS, Darya Ganj, New Delhi. ISBN: 978-93-5053-737-4 pp322-338.
4. "Seismic Design and Performance Criteria for Hydraulic Structure" (2019), Chapter: An Overview of Earthquakes and Dams in India. Publisher: CYBER TECH PUBLICATIONS, Darya Ganj, New Delhi. ISBN: 978-93-5053-737-4 pp339-354.

### **Ph.D Supervision**

1. Ayman T Hamid: Evaluation of Climate Change Impacts in Satluj River Basin (Awarded). Year 2015
2. Rekha Verma: Hydrological Impact Assessment of Climate Change of Sabarmati River Basin. (Under Progress)
3. Mohd Ayub Yasin: Development of Flood Forecasting System (Under Progress)
4. Chhatrapati Singh: Optimal Design of Irrigation Channels (Under Progress)
5. Manjeet Singh: Flood Management under Plausible Scenarios of Climate Change in Mahanadi Basin (Under Progress)
6. Mohd. Aamir Mazhar: Spatial Monitoring and Assessment of Trihalo methanes (THMs) in Municipal Water Supply System (Under Progress)
7. Sabir Khan: Seismic Analysis of Concrete Hydraulic Structures (Under Progress)

### Consultancy work (Third party Quality Check)

#### I<sup>st</sup> Consultancy work

- Name of work: A/R & M/O Supplementary Drain. Sub Work: - Maintenance of supplementary Drain to keep it free from all kind of floating material, garbage, hyacinth, patera, wild grass obstructions i.e, dead animals, trees etc. from water surface/slopes/patra/bank within the land boundary of the drain to maintain free flow of water throughout the contract period i/c disposal of collected materials to the nearest MCD Dhalao and removal of building rubbish / malba / C&D waste etc. Dumped by the public within the land boundary of drains and its further disposal to authorized dumping ground for a period of 365 days from RD 16436m to RD 22471
- Name of work: Construction RCC drain in 1/6 Kiriti Nagar Industrial area in Moti Nagar Assembly Constituency-25.

**Total Amount Rs 24,803/-**

#### II<sup>nd</sup> Consultancy work

- Construction of temporary weir at RD 8350m, RD 10140 m , RD 13400 m and RD 14200 m of supplementary drain.
- Protection of Govt. Land by providing and fixing barbed wire fencing at Village Wazirabad opposite Ram Ghat.
- Construction of wall for protection of Govt. Land ay Hardev Nagar Jharoda Mazra Village Burari along Supplementary drain.
- Repair of existing guard wall along left bank of Supplementary drain between RD14100 m to RD16436 m.
- Maintenance of boundary wall to stop encroachment and dumping malba at left bank of Supplementary Drain between RD 2300 m to RD 4200 m.
- Dismantling existing wornout wearing coarse and relaying of fresh wearing course on Bhalswa Bridge at RD7340 m of Supplementary Drain.
- Comprehensive maintenance at Supplementary drain from RD 0 m (out fall into the NG drain) to RD16436m (Rithala Bridge) by collecting all kind of floating material, garbage, cleaning of hyacinth, removal of obstructions etc, from water surface of the drain to maintain free flow and supply & installation of floating boom at RD8732mand RD500m, for collecting of floating materials and their further disposal.
- Maintenance of boundary wall to stop encroachment & dumping malba at left bank of supplementary drain between RD 6000m to RD 8400m.

- Dismantling existing wornout wearing coarse and relaying of fresh wearing course on Burari Bridge at RD 4200 m of Supplementary Drain.

**Total Amount :1,31,859/-**

### **Dissertations**

1. Geomorphology Based I.U.H. Analysis, M.E. (CIVIL). Water Resources; Dissertation submitted to the Department of Civil Engineering, Delhi College of Engineering. (Delhi University)
2. Optimal Operation of Sutluj River Basin System under Future Climate Scenario, Ph.D. thesis submitted to the Civil Engineering Department, Faculty of Engineering & Technology, Jamia Millia University (Central University), New Delhi.

### **Research Publications (National & International journal)**

1. Mohd Aamir Mazhar, Nadeem A Khan, Afzal Husain Khan, Sirajuddin Ahmed, Asif Ali Siddiqui, Azhar Husain, Vineet Tirth, Saiful Islam, Neeraj Kumar Shukla, Fazlollah Changani, Mahmood Yousefi, Ali Eltom Hassaballa, Neyara Radwan (2021) Upgrading combined anaerobic-aerobic UASB-FPU to UASB-DHS system: Cost comparison and performance perspective for developing countries. Journal of Cleaner Production 273 (2020) 123159
2. Husain, Azhar, et.al (2020) Chlorination disinfection by-products in municipal drinking water. A review. Journal of Cleaner Production 273 (2020) 123159
3. Husain, Azhar, Sharif, M (2018) Simulation of floods in Delhi segments of river Yamuna using HEC – RAS, October 2018, American Journal Of Water Resources. Volume 6 Issue 4 pp162-168.
4. Husain, Azhar, Sharif, M (2018) Simulation of weather data in Brahmaputra basin using K – Nearest Neighbourhood model, August 2018, American Journal of Water Resources. Volume 6 Issue 3 pp162-168.
5. Husain, Azhar, (2018) Seismic design and performance criteria for hydraulic structure, September 2018. International Journal of Innovative Research in Science Engineering and Technology. Volume 7, Issue 9, September 2018 pp 9462-9470.
6. Husain, Azhar, et.al (2018) Influence of different organic waste ratio on anaerobic digestion, September 2018. American Journal of Water Resources. Volume 6, Issue 4 pp-156-161.
7. Husain, Azhar, (2018) An overview of earthquakes and dams in India, September 2018. International Journal Of Innovative Research In Science



Engineering And Technology. Volume 7, Issue 9, September 2018 pp 9471-9479.

8. Husain, Azhar,et.al (2018) Potential of nutrient removal from sewage by various plant weeds. August 2018. American Journal of Water Resources. Volume 6, Issue 3 pp-143-145.
9. Husain, Azhar,et.al (2018) Air quality prediction modelling and its validation in the near field of urban roadway of Delhi, India, September 2018. International Journal of Science and Research. Volume 7, Issue 9, September 2018.pp-758-767.
10. Husain, Azhar, (2018) An overview of drought, its impact and management, October 2018, International Journal of Innovative Research In Science Engineering and Technology. Volume 7, Issue 10, October 2018, pp-10349-10358.
11. Husain, Azhar, (2018) Flood Routing in Reservoir using modified pulse method, October 2018, International Journal of Science and Research. Volume 7, Issue 10, pp 1187-1194.
12. Husain, Azhar, (2018) Impact of El – Nino southern oscillation index on monsoonal rainfall, October 2018, International Journal of Innovative Research in Science Engineering and Technology. Volume 7, Issue 10, October 2018, pp-10339-10348.
13. Husain, Azhar, (2018) Hydrological modelling of stream flow by using SWAT Model, March 2018, International Journal Of Emerging Technologies And Advance Engineering, Volume 8, Issue 3. pp-34-38.
14. Husain, Azhar,et.al (2018) Morphometric analysis of Damodar River course and its impact on Land and Land Cover, June 2018. American Journal of Water Resources. Volume 6, Issue 2. Pp-78-88
15. Sharif Mohammed, Husain, Azhar, (2017) Lateef mohammed and Dayoub m3 Optimization of Makespan of Container Loading -Unloading Problem Using Mixed Integer Programming. *International Journal of Earth Sciences and Engineering*, Volume 10, No.01, PP 53-57.
16. Mohammed Sharif and Azhar Husain, (2017) Estimation of Design Flood at Kol Dam using Hydro meteorological Approach. International Journal of Environmental science Natural Resources. Volume 4, No. 01, PP 01-06.
17. Mohammed Sharif and Azhar Husain, (2017) Simulation of Extreme Dry and Wet Spells in Brahmaputra Basin Using K-Nearest Neighbour Model. International Journal of Environmental Science Natural Resources. Volume 4, No.01, PP 01-06.
18. Husain, Azhar, (2017) Flood modelling by using HEC – RAS, 1<sup>st</sup> August 2017. International Journal of Engineering Trends and Technology. Volume 50, Number 01 PP 01-07

19. Husain, Azhar, (2017) Analysis of projected temperature trends over Rampur at Satluj river basin, July 2017. International Journal of Environmental Sciences and Natural Resources. Volume 3 Issue3 pp 01-05.
20. Husain, Azhar, (2017) Estimation of design flood discharge for Kakkadavu dam in Kariangode river basin, July 2017. International Journal of Environmental Sciences and Natural Resources. Volume 4 Issue1 pp 01-04.
21. Husain, Azhar, (2017) An overview seismic design criteria for large dam, June 2017. International Journal of Emerging Technologies and Advance Engineering. Volume 7, Issue 6, June 2017.pp 333-339.
22. Husain, Azhar, (2017) Development of synthetic unit hydrograph at Kakkadavu Dam, November 2017. International Journal of Mechanics and Solids. Volume 9, Number 1 pp 113-124.
23. Jain. A, Husain (2016) Affects of climate change on Dams, International Conference and Exhibition Building Utilities. Organized by Deptt of Mechanical Engineering Jamia Millia Islamia New Delhi. Pp-401-410
24. Husain, A (2015) "Flood Peak Estimation at Hathnikund and Okhla Barrage", Journal of Civil Engineering and Environmental Technology, Volume 2, Number 13, 40-45
25. Husain, A (2015) "Development of Synthetic Hydrograph at Kol Dam". Journal of Emerging Technology and Advanced Engineering, Volume 5, issue 9, 232-237.
26. M.Lateef.A, Shakeel.M. Husain.A (2014) "Comparison of Observed and CRU Precipitation Data for Satluj River Basin" *International Journal of Earth Sciences and Engineering*, volume 07, No.02, 434-440.
27. Sharif,M Hamid, A.T.Husain,A (2013) "Simulation of Karangkates Reservoir Operation", International Journal of Innovative Research in Science, Engineering and Technology, Volume 2, Issue 5, 1850-1857.
28. Husain, A (2012) "An Overview of Reservoir Systems Operation Techniques", International Journal of Engineering Research and Development, Volume 4, Issue 10, 30-37
29. Husain, A and Sharif, M (2012) "Optimal Operation of Kol Reservoir Under Plausible Climate Scenarios, *International Journal of Earth Sciences and Engineering*, 05, 1172-1177
30. Husain, A (2012) "Estimation of Design Flood for Kol Dam and Rampur in Satluj River Basin", International Journal of Emerging Technology and Advanced Engineering Volume 2, Issue 8, 163-166
31. Husain, A and Hamid, A.T. (2012) "Climate change impact on hydro-meteorological variables: A Review", International Journal of Emerging Technology and Advanced Engineering, Volume 2, Issue 9, 48-54.

32. Husain, A (2012) "An Overview of Reservoir System Operation Techniques", International Journal of Engineering Research and Development Volume 4, Issue 10,:30-37
33. Sharif, M, Hamid, A, Husain, A. (2012) "Analysis of Extreme Precipitation Events in Satluj River Basin", Proc., Hydro-2012, Dec 7-8, IIT Bombay
34. Sharif, M., Husain, A. (2011) "Assessment of Precipitation trends in Satluj river Basin", International Journal of Earth Sciences and Engineering, 04: 305-308
35. Sharif, M, Burn, D. and Husain, A, (2010) "Detection of Climate Change Impacts on Hydrological Extremes in Satluj River Basin", Intl. Conf., American Society of Civil Engineers, Rhode Island, USA.: 46-59.

### **Research Publications (International / National Conferences)**

1. Sharif, M Hussain, A, and Sharif, M (2006), "Evaluating Climate Change Impacts with an Improved k- Nearest Neighbour Model", International Conference on Environmental & Water Resources Institute of the ASCE. December 18-20, New Delhi.
2. Hussain, A and Sharif, M, Meena, Ajay (2007) Seismic Design Criteria for Large Dams, Two-day National Conference on Geotechnical and Structural Aspects of Earthquake Engineering GSEE 07. August 4-5 organised by CED JMI New Delhi.:119-130
3. Sharif, M., Husain, A. (2011) "Assessment of Precipitation Trends for Satluj River Basin, ACE-2011, Hyderabad India.
4. M Hamid Husain,A, Shakeel.M (2014) "Analysis of Relationship Between Meteorological Variables for the Satluj River Basin "National Conference on (WRM- A&C-2014) Proc, March-22 Deptt of Civil Engineering,J.M.I.New Delhi pp-262-272.
5. R. Somereaj Husain, A, (2014) "An Overview of Global Warming and Its Impacts "National Conference on (WRM- A&C-2014) Proc, March-22 Deptt of Civil Engineering J.M.I.New delhi pp66-76.
6. Husain, A, Shakeel.M (2014) "Evaluation of Temperature trend over Rampur at Satluj River Basin "National Conference on (WRM- A&C-2014) Proc, March-22 Deptt of Civil Engineering ,J.M.I. New Delhi. pp 97-103
7. 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.
8. Husain, A, Shakeel.M (2015) "An Overview Rain water Harvesting "National Workshop on Green Building in India: Present Practices and

Future Prospect Proc, August-27 Deptt of Civil Engineering, J.M.I. New Delhi pp-25-31.

9. Husain, A, Flood disaster: Its impact, challenges and management in India International Conference Department of Civil Engineering, JMI International Conference on Water Pollution and Health dated 27 – 28<sup>th</sup> July, 2017.
10. Husain, A Global warming and climate change effects: Information and facts, International Conference Department of Civil Engineering, JMI International Conference on Water Pollution And Health dated 27 – 28<sup>th</sup> July, 2017.
11. Husain A. Jain Effects of climate change on Dams International Conference and Exhibition on Building Utilities held on 1 – 3 December 2016 Department of Mechanical Engineering, JMI Proceedings pp 401-410
12. Husain, A, An overview of Domestic rain water Harvesting International Conference and Exhibition on Building Utilities held on 1 – 3 December 2016 Department of Mechanical Engineering, JMI Proceedings pp 419-426.
13. Husain, A, An Overview of Hydrological Modelling by Using SWAT Model. Held on March 15 - 16, 2019 “National Conference on (WRM-A&C-2019) March 15 - 16, 2019 Deptt of Civil Engineering AMU Aligarh Proceedings pp50-56
14. Husain, A, Estimation Design Flood at Hathnikund and Okhla Barrage Held on March 15 - 16, 2019 “National Conference on (WRM- A&C-2019) March 15 - 16, 2019 Deptt of Civil Engineering AMU Aligarh Proceedings, pp70-78

#### **Participation in Conferences, Seminars, Workshops, Symposia**

- International Conference and Exhibition on Building Utilities held on 1 – 3 December 2016 Department of Mechanical Engineering, JMI.
- International Workshop on Inclusive cities on 19 – 20 December 2016. Department of Civil Engine Department of Civil Engineering ,JMI
- International Conference on water Challenges in India 08 – 09<sup>th</sup> February, 2017 DHI at EROS HOTEL, New Delhi
- One day National workshop on Recent Advances in Earthquake Engineering 18/03/2017 ISET & Department of Civil Engineering, JMI
- One day International workshop on Yamuna Water Quality and Impact on Human Health 06/04/2017 Department of Civil Engineering, JMI

- International Conference on Water Pollution and Health dated 27 – 28<sup>th</sup> July, 2017 Department of Civil Engineering ,JMI
- National Seminar on Seismic Hazards and Mitigation of Structures dated 20-21<sup>th</sup> November 2017 Department of Civil Engineering, JMI.
- One day National workshop on Seismic Vulnerability of Structures 10/03/2018 ISET & Department of Civil Engineering, JMI
- Workshop on Rain Water Harvesting (RWH) dated Aug 27-31, 2018 TRCSS & Department of Civil Engineering, JMI.
- Chairman of the session of Indo-Iranian Workshop on Water Resources Management from 27th to 29th October,2020(Online mode)

**UGC/MHRD-A.S.C /AICTE/QIP (I.I.T)/GIAN (I.I.T)/ Refresher Course attended**

<b>Name of the Course/ Summer School</b>	<b>Place</b>	<b>Duration</b>	<b>Sponsoring Agency</b>
UGC Sponsored Orientation Programme. (2005)	ASC Jamia Millia Islamia, New Delhi	4-weeks	UGC
DST Sponsored Winter Workshop for SDP(2010)	Deptt of Geography Jamia Millia Islamia, New Delhi	2-weeks	DST
ASC (Workshop on Development of Quality Question paper)	ASC Jamia Millia Islamia, New Delhi	1-weeks	UGC
UGC Sponsored Summer Special Programme (SPP). 2013	ASC Jamia Millia Islamia, New Delhi	3-weeks	UGC
AICTE Quality Improvement Programme (QIP). 2013	I.I.T Delhi	1-weeks	AICTE
AICTE Quality Improvement Programme (QIP). 2014	I.I.T Delhi	1-weeks	AICTE
AICTE Sponsored Faculty Development Programme (FDP).2015	Jamia Millia Islamia, New Delhi	2-weeks	AICTE
Recent Trends in Geo environmental	Delhi	One week	TEQIP –II

Engineering (RTGE-2016) Under TEQIP –II Sponsored Faculty Development Programme ,Deptt of Civil Engineering,	Technological University (DTU)	(18 April – 22 April 2016)	MHRD
Environmental Pollution: Monitoring & Control (EPMC-2016) Under TEQIP –II Sponsored Faculty Development Programme, Deptt of Civil Engineering, Delhi Technological University (DTU)	Delhi Technological University (DTU)	One week (24 October – 28 October 2016)	TEQIP –II MHRD
<b>GIAN Course Organised (AS COURSE COORDINATOR)</b> Under MHRD, Scheme Course. Deptt of Civil Engineering, Jamia Millia Islamia, New Delhi Topic: <b>Managing Floods and Droughts in a changing climate</b>	Jamia Millia Islamia.	One week (15 January – 20 January 2018)	<b>GIAN Course</b> MHRD
Role of Smart Building Energy Management Systems in The Development of Smart City, Deptt of Electrical Engineering, Jamia Millia Islamia, New Delhi (GIAN Programme) under MHRD	Jamia Millia Islamia.	One week (6 March – 10 March 2018)	<b>GIAN Course</b> MHRD
Nutrient Removal in Wastewater: Recovery and Reuse, Deptt of Civil Engineering Jamia Millia Islamia, New Delhi (GIAN Programme) under MHRD	Jamia Millia Islamia	One week (2 July – 6 July 2018)	<b>GIAN Course</b> MHRD
Rain Water Harvesting (RWH) Deptt of Civil Engineering Jamia Millia Islamia, New Delhi	Jamia Millia Islamia	One week (27 August – 31 August 2018)	<b>TRCSS JNU</b>

### Lectures Delivered

- Impact of climate change on water Resources on 20/08/2016 Department of Regional Water Studies. TERI University, Vasant Kunj, New Delhi.
- Assessment of climate change Impact on Water Resources on 07/11/2015 Department of Civil Engineering. AL-FALAH University,

Dhauj, Faridabad.

- Application of Optimization Technique in Water Resources on 19/11/2016 Department of Regional Water Studies. TERI University, Vasant Kunj, New Delhi.
- Optimization Technique used in Reservoir Operation on 09/03/2016 Department of Civil Engineering. AL-FALAH University, Dhauj, Faridabad.
- Use of Optimization Technique for Water Management on 22/04/2017. Department of Regional Water Studies. TERI University, Vasant Kunj, New Delhi.
- Focus on Urban Flood of Indian Metro City on 11/03/2017 Department of Civil Engineering. AL-FALAH University, Dhauj, Faridabad.
- Estimation of Design flood by using Hydro- metrological Approach on 28/01/2017. Department of Regional Water Studies. TERI University, Vasant Kunj, New Delhi.
- Need of Water Harvesting in Rural areas in India on 19/08/2017 Department of Civil Engineering. AL-FALAH University, Dhauj, and Faridabad.
- Impact of climate change on water Resources in India on 25/11/2017 Department of Environmental Engineering at Ch.Brahm Prakash Government Engineering College, Jaffarpur, Delhi.
- Assessment of Water Potentials in India on 21/04/2018, Department of Civil Engineering. INEGRAL University, Lucknow.
- Managing Floods and Drought in a Changing Climate on 24/03/2018 Department of Environmental Engineering at Ch.Brahm Prakash Government Engineering College, Jaffarpur, Delhi.
- Training Programme on Rain Water to Participants Harvesting (RWH) on 30/08/2018 TRCSS J.N.U New Delhi & Department of Civil Engineering. Jamia Millia Islamia, New Delhi.
- GIAN Course to Participants Nutrient Removal in Wastewater: Recovery and Reuse on 04/07/2018 MHRD- GIAN Course Department of Civil Engineering. Jamia Millia Islamia New Delhi.
- Sediments deposition in a Water bodies in India on 10/02/2018 Department of Civil Engineering. INEGRAL University, Lucknow.
- Impact of EL-Nino Southern Oscillation Index on Indian Monsoonal Rainfall on 06/10/2018 Engineering. AL-FALAH University, Dhauj, Faridabad.

## Departmental Responsibilities and Other Contribution

- Departmental Coordinator of the University placement cell.
- Asstt Superintendent of Odd Semester Examination, 2019
- Faculty-in-charge, Hydraulics Laboratory, Civil Engineering Department.
- Made valuable contributions in the Modernization and strengthening up the Laboratory with latest equipment for students of B. Tech, B.E, M.Tech (Dissertation) to carry out Research activities.
- Faculty-in-charge, Annual Report compilation for the department of Civil Engineering
- Responsibilities included smart teaching and Project Guidance at the undergraduate and post-graduate level. Actively involved in the research activities of the department.
- Centre Observer for the University Entrance Admission Test (Patna)- Bihar May 2018
- Organised invited lectures from subject experts for enhancement of student knowledge in the relevant field.
- Actively contributed in the revision of the course syllabus related to Water Resources Engineering.
- Engaged in admission process of M.Tech. (EQ) & M.Tech (Env. Sc. & Tech) July 2018
- Asstt. Supdt. of (B.E) Annual Examination October 2017
- Given Training programme on Rain Water Harvesting at Deptt of Civil Engineering to Industry person 2018 -2019
- Contributed to the **NAAC-I activities** in the department.
- Result tabulator for B.Tech (Civil) and M.Tech (Environmental Engineering /Earthquake Engineering) Semester Exam.
- Contributed to the **accreditation NBA** activities in the department
- Contributed to the **NAAC-II activities** in the department

## Academic/Professional Membership:

- **RPSC (Rajasthan Public Service Commission)** Interview Board member as **Civil Engineering Expert**.
- **Elected Member of the Majlis-I-Talimi (Academic Council)** as the representative of Faculty of Engg & Technology.JMI for a period of three years **(2019-2022)**
- Member of the **Department Research Committee (DRC)** Department



*of Civil Engineering for a period of three years (2017-2020)*

- Member of the **Research Advisory Committee (RAC)** Department of Civil Engineering JMI
- Member of the **Faculty Committee (FC)**, Faculty of Engineering & Technology, JMI
- Member of the Board of Studies (BOS), Faculty of Engineering & Technology, Al-falah University. (2016-2019)
- Nominated member by GGSIP University as **Civil Engineering Expert** for inspection of Institute by **Academic Audit Committee**. (2018-2019)
- Nominated member by GGSIP University as **Civil Engineering Expert** for inspection of Institute by Joint Assessment Committee (**JAC**) -4. (2018-2019)
- Nominated member by GGSIP University as **Civil Engineering Expert** for inspection of Institute by Joint Assessment Committee (**JAC**) -16. (2018-2019)
- Life member in Indian Association of Hydrologists (IAH) LM-1759
- Member, Institution of Civil Engineers, New Delhi
- Member, Indian Society for Technical Education, New Delhi.
- Member in the reviewers committee of ISAET (International Scientific Academy of Engineering And Technology)
- Member in the Editorial Board of Journal of Advanced Research in Civil and Environmental Engineering

## OTHER RELEVANT INFORMATION

- **GIAN (Global Initiative for Academic Networks) Course Organised (As Course Coordinator) 15<sup>th</sup> to 20 January 2018**  
Amount Allotted \$ 8000 (Rs.5.44 Lakh)  
Under **MHRD**, Course scheme  
**Title: Managing Floods and Droughts in a changing climate**
- Conference/ Workshop Organised (As an Organised Secretary)
  - (i) One-day National Conference on Water Resources Management- Achievements & Challenges (WRM-A&C) 2014.
  - (ii) One-day National Workshop on Green Building in India: Present Practices and Future Prospect 2015.
- Supervision: **Ph.D.** – 5 (ongoing), Supervision: **Ph.D.** – 1 (Degree Awarded) **M. Tech.** – 10, **B. Tech./B.E.** - 20 groups
- Supervised one student for M. Tech. (water Resources) dissertation of TERI University, New Delhi, 2015-16.

- External Examiner Three students for M. Tech. (water Resources) dissertation of I.I.T New Delhi, 2018-2019
- Given Training programme on Rain Water Harvesting at Deptt of civil engineering to Industry person 2018 -2019
- Centre Observer for the University Entrance Admission Test (Patna)- Bihar May 2018
- Engaged in admission process of M.Tech(EQ) AND M.Tech (Env.Sc & Tech) July 2018
- Nominated member by GGSIP University as Civil Engineering Expert for inspection of Institute by Academic Audit Committee.2018-2019
- Nominated member by GGSIP University as Civil Engineering Expert for inspection of Institute by Joint Assessment Committee (JAC) -4. (2018-2019)
- Nominated member by GGSIP University as Civil Engineering Expert for inspection of Institute by Joint Assessment Committee(JAC) -16 .(2018-2019)
- III<sup>rd</sup> position in B. Tech(Civil Engineering)., 1993 JMI
- II<sup>nd</sup> position in M Tech(Civil Engineering)., 1997 D.C.E(Delhi College of Engineering),Delhi University
- GATE Scholarship in M.Tech., 1994 – 1996 .sponsored by MHRD

#### **FIVE REFEREES FAMILIAR WITH OUR ACADEMIC WORK**

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2. Prof.ZulfQur Ahmad Department of Civil Engineering., IIT Roorkee  
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3. Prof. Prateek Sharma Department of Energy and Environment. TERI University New Delhi Mobile: 9971176370, [prateeks@terisas.ac.in](mailto:prateeks@terisas.ac.in)
4. Prof.Sarfraz Ali Ansari Department. of Civil Engineering., AMU, Aligarh, Mobile: 9997538149 sarfazaansari@rediffmail.com.
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#### **PROF. AZHAR HUSAIN**

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