CURRICULAM VITAE

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Areas of Interest

Water Resources Engineering, Hydraulics Structures, Hydrological Modelling, Water Quality Modelling, Soft Computing in Water Resources Engineering.

Education Qualification

Examination Passed	Board/university /Institution	Division/ class/grade	Branch/ subject	Year	% Marks
Matriculation	J&K Board of School Education	2nd.	General	1981	59.00
11th.Class (PUC)	J&K Board of School Education	2nd.	Faculty of Science	1982	57.83
Qualifying Exam.	J&K Board of School Education	Ist	Faculty of Science	1983	64.54
B.E.	University of Kashmir	Ist	Civil Eng.	1988	74.83
M.E.	University of Kashmir	Ist (Distinction)	Water Resources Eng.	1997	81.41
Ph.D.	University of Kashmir	-	Civil Eng.	2007	-

Teaching Experience

S. No	Position	Length of service Years/Months	Period	
			From	To
1.	Lecture	06 Years	16-12-1989	15-12-1995
2.	Sr. Lecturer	05 Years	16-12-1995	15-12-2000
3.	S.G.Lecturer	05 Years /0.5 Months	16-12-2000	31-12-2005
4.	Associate Professor	7 Years / 8 months	01-01-2006	18-09-2013
5.	Professor	13.4Years	18-09-2013	Till date

Subjects Taught

Course Name	Level (UG/PG)
Fluid Mechanics-I	UG
Fluid Mechanics-II	UG
Hydraulics and Hydraulic Machines	UG
Engineering Mechanics	UG
Environmental Engineering	UG
Applied Hydrology	UG
Hydrological Elements & Analysis	PG
Open Channel Flow	PG
Embankment Dams	PG
Fluid Mechanics	PG
GIS & Remote Sensing Application in Water Resources	PG
Hydraulic Structures	PG
Fluid Mechanics Lab-I	UG
Fluid Mechanics Lab.-II	UG
Fluid Mechanics Laboratory	AMIE (IE India)

Administrative Responsibilities

1. Chairman Water Resources Management Centre (From 28-01-2025 - till date)
2. Coordinator Sheikh-ul Alam Sheikh Nuruddin Chair (03-03-2025- till date)
3. Head Civil Engineering Department (From 15-11-2021 to 14-11-2023)
4. Dean Planning and Development (From 01-08-2018 to 31-07-2020).
5. Chairman, minor works committee/Contract committee (From 10-09-2018 to 31-07-2020).
6. Chairman, House/ Space allotment committee (From 10-09-2018 to 31-07-2020)
7. Chairman Cafeteria / Canteen Committee, (From 10-09-2018 to 31-07-2020)
8. Member of the Central Research Facilities Centre (CRFC) of the Institute (From 11-02-2016 to 2024).
9. Member for NIT Review Committee.
10. Advisory committee member for the Incubation Centre of the Institute.
11. Member of the Annual Report preparation committee of the Institute (From 2010 to 2011).
12. Member of Load Assessment Committee of the Institute (From 2015 to 2018).
13. Member of DPGC electronics and communication Engineering
14. Directors' nominee for several research scholars of various departments of the Institute.

Departmental Responsibilities

1. Convener DUGC Civil Engineering Department
2. Officer in charge of the Water Resources Engineering Section.
3. Coordinator of MTech. Programme in Water Resources Engineering.
4. O/C Hydraulics and Environmental Section. (From 2016 to 2018).
5. Member of the Departmental Board of Studies Committee (From 2010 to 2016).
6. Coordinators of departmental timetable (From 2006 to 2011).

7. Departmental O/C of examinations (From 2006 to 2010).
8. Coordinators of B.Tech. Projects and seminars (From 2007 to 2010).

Short Term Courses/workshops organized

Sr. No	Details of the workshop	Organized at	Sponsored by/ Self Sponsored
1	Chairman, 5-day workshop on "Advancements in Geotechnical and Foundation Engineering for Difficult ground conditions (AGFEGDC-2023) 26-30 July 2023.	IGS Srinagar in Association with the Department of Civil Eng. N.I.T Srinagar.	NIT Srinagar
2	Convener, One weak workshop on Patent Filing, 20-24th. June 2022.	NIT Srinagar	NIT Srinagar
3	Convener, one weak Online short-term course on Catastrophe and Civil Engineering Solutions June 6 to June 10, 2022.	Dept. of Civil Egg NIT Srinagar	NIT Srinagar
4	Coordinator, 5-day Short Term Training Course on Remote sensing Applications in Groundwater Extraction Measurements from 11-01-2021 15-01-2021	Dept of Civil Eng. NIT Srinagar	TEQIP-III Sponsored
5	Coordinator, 5-day Short Term Training Course on Machine Learning and its Applications in Civil Engineering from 02-11-2020 to 06-11-2020	Dept of Civil Eng. NIT Srinagar	TEQIP-III Sponsored
6	Coordinator, 5-day Training workshop on Computer Applications in Civil Engineering from 29-06-2017 to 03-07 2017	Dept of Civil Eng. NIT Srinagar	Self-Sponsored
7	Coordinator, 5-day Training Course on Disaster management (Earthquake Resistant Construction and Flood Management) from10-09-2012 to 10-09-2012	Dept of Civil Eng. NIT Srinagar	Self-Sponsored

Research Projects Executed

S. No.	Title	Sponsoring Agency	Funds Sanctioned in Rs.	Duration Years
1.	Master Plan in Flood Control for Kashmir Valley	MHRD, New Delhi	Rs.5.00 Lakhs	2002-2005
2	DST FIST Project	Department of Science and Technology, New Delhi	Rs.106 Lakhs	Dec-2022 In progress
3	Climate change effects on the integrated hydropower potential in J&K regions: A WEAP CORDEX Ensemble & ML approach	Department of Science and Technology, Jammu & Kashmir (JKST&IC)	Rs.15 Lakhs	Dec.-2025 In progress

Major Consultancy Projects Completed

S. No.	Details (Cumulative Amount more than 5 Lakhs)	Period	Organization	Amount (in Lakhs)	Status
1.	Technical vetting of the decentralized waste management action plan	2023	SMC/SWMO Srinagar	2.5	Completed
2	Water testing of various Govt. and semi-Govt. agencies	2022	Various Government, Semi Government, and Private agencies	1.228	Completed
3	Examination/Vetting of sewage pump specifications of sewerage network for Houseboats in 2 no. clusters in Dal Lake	2022	J&L LCMA J&K	3.74	Completed
4	Waste and water Characterization at of Garbage Dumping site Achan, Srinagar	2022	Srinagar Municipal Corporation	5.074	Completed
5	Hydrological Mapping of Chattalum Wetland Reservoir	2020	Wildlife Warden, Wetlands Kashmir – Division Srinagar	13.50	Completed
6	Vetting / Technical Assessment of the Design of 3-2 Lane Bridges at Kulgam Chamgund, (ii) Wayal Ganderbal (iii) Ashajipora Sadoora Kamad Road Road	2020	Kashmir PWD	3.00	Completed
7	Hydrological Analysis and Design of Weir at Manchar Nallah Lolab Kupwara	2017	Irrigation and Flood Control, Kashmir	11	Completed
8	Evaluation of designs for Solid Waste Management in various clusters of Kashmir Valley	2016-2017	Directorate of Urban Local Bodies Kashmir	21.02	Completed
9	Technical evaluation of DPR for relocation of House Boats in Dal Lake, Design of Settling Basin for Telbal Nallah, Design of cut and cover channel and Intake structures for Brari Numbal Lagoon, River Jhelum	2015	J & K Lakes and Waterways Development Authority	7.376	Completed

10	Water testing of various Govt. and semi-Govt. agencies	2005 to 2015	Various Government, Semi Government, and Private agencies.	6	Completed
11	Performance Evaluation of Flood Split Channel Srinagar, Design of Sewerage Disposal System for NIT Srinagar & Testing of Precast concrete pipe testing.	2010	I&FC Kashmir, NIT Srinagar	6.45	Completed

Research Publications

Journal

1. Waseem Rashid Taley & Abdul Qayoom Dar, Long-term spatio-temporal assessment of surface water quality in a multi-basin urban lake of the Kashmir Himalayas using water quality indices and trend analysis, Journal of Sustainable Water Resources Management (2026) 12.35, http://doi.org/10.1007/s40899-026-0135-1 (April 2026).
2. Waseem Rashid Taley & Abdul Qayoom Dar, Hydrogeochemical characterization and multivariate statistical assessment of groundwater quality in the Kashmir Himalayas: Implications for spatial variability and use sustainability J. Inst.Eng. India Ser..A, http://doi.org/10.10007/s40030-026-00956-7 (March 2026)
3. Bilal Malik, Abdul Qayoom Dar & Mohd. Akbar lone Malik, Experimental study on the effectiveness of uniform sand in the crack filling of zoned dams, international journal of Innovative Infrastructure Solutions 9, 66 (2024). DOI: 10.1007/s41062-024-01375
4. Bilal Malik, Abdul Qayoom Dar & Mohd. Akbar lone Malik, Critical thickness of filler material for effective crack-filling at different water heads in dams, International Journal of Structural Engineering 2024 Vol.14 No.2, pp.113 – 140. DOI: 10.1504/IJSTRUCTE.2024.138130 .
5. Junaid Dar, Abdul Qayoom & Munir Ahmad Nayak, Atmospheric patterns and Winter precipitation over north- western South Asia, International Journal of Climatology2023:1-18, DOI:10.1002/joc.8088, published April 2023,
6. Sakiba Nabi, Manzoor Ahmad Ahanger & Abdul Qayoom Dar, Analyzing the meteorological parameters in the Jhelum Basin, Int. Journal of Hydrology, Science and Technology, (Published online, July 2023). https://doi.org/10.1504/IJHST.2023.133156,
7. Junaid Dar, Abdul Qayoom Dar, The structure of extreme precipitation and flood events over India in association with integrated water vapor transport from 1980 to 2015, Arabian Journal of Geoscience (2023 16: 162. https://doi.org/10.1007/s12517-023-01407511265-9
8. Mohd Ayoub Malik, Abdul Qayoom Dar, and Manoj K. Jain, Modelling the impact of changing climate on sediment yield in a data scarce high elevation catchment in NW- Himalayas, Journal of Cartography and Geographic Information, http://doi.org.10.1007/s42489-022-00128-05 , published, 08 Feb., 2023.
9. Mohd Ayoub Malik, Abdul Qayoom Dar, and Manoj K. Jain, Modelling the impact of changing climate on the hydrology of high elevation catchments in NW Himalayas, Modelling of Earth Systems and Environment, http://doi.org.10.1007/s40808-022-014075, Published 22 April, 2022.
10. Jasir Mushtaq, Abdul Qayoom Dar and Naved Ahsan, Physio-chemical characterization and quantification of municipal solid waste in high-altitude Srinagar city of North-western Himalayas, "Int. J. Environment and Waste Management,2022 Vol.30 No.3, pp.284-302. Published online Jan, 2023.

11. Sakiba Nabi, Manzoor Ahmad Ahanger & Abdul Qayoom Dar, Spatio-temporal variability of temperature and precipitation in a Himalayan watershed, Journal of Natural Hazards, Accepted 7 september2022, http://doi.org/10.1007/s11069-022-05616-0 , Published online, 18 September 2022.
12. Junaid Dar, Abdul Qayoom Dar, The structure of extreme precipitation and flood events over India in association with integrated water vapor transport from 1980 to 2015, Arabian Journal of Geoscience (2023 16: 162. https://doi.org/10.1007/s12517-023-01407511265-9
13. Junaid Dar, & Abdul Qayoom Dar, Dominant Pattern of seasonal precipitation variability in association with hydrological extremes over the North–west Himalayas Journal of "Environmental Science and Pollution Research" Published online: May, 2022.https://doi.org/10.1007/s11356-022-20877-9
14. Sakiba Nabi, Manzoor Ahmad Ahanger & Abdul Qayoom Dar, Employing sensitivity analysis to catchments having scanty data Journal of "Environmental Science and Pollution Research". Published May, 2022. https://doi.org/10.1007/s11356-022-20514-5
15. Ajaz Ahmad Mir, Jasir Mushtaq, Abdul Qayoom Dar, Mahesh Patel, A quantitative investigation of methane gas and solid waste management in mountainous Srinagar city-A case study, Journal of Material Cycles and Waste Management (2023) 25:535–549. Published October 2022. https://doi.org/10.1007/s10163-022-01516-4
16. Junaid Dar, Sakiba Nabi, Abdul Qayoom Dar & Manzoor Ahmad Ahanger, The anatomy of extreme precipitation events over Srinagar, Kashmir, India, over the past 50 years, Arabian Journal of Geosciences (2021) 14:1412", Published July 2021. https://doi.org/10.1007/s12517-021-07820-x.
17. Sakiba Nabi, Manzoor Ahmad Ahanger& Abdul Qayoom Dar, Investigating the potential of Morris algorithm for improving the computational constraints of global sensitivity analysis, Journal of "Environmental Science and Pollution Research" Published, June 2021 https://doi.org/10.1007/s11356-021-14994-0
18. Junaid Dar, Abdul Qayoom Dar, Spatio-temporal variability of meteorological drought over India with footprints on agricultural production Journal of " Environmental Science and Pollution Research", (2021)28:55796-55809. Published June 2021. https://doi.org/10.1007/s11356-021-14866-7
19. Junaid Dar, Abdul Qayoom Dar, The agro-metrological perspective of perspective of drought over north west Himalayas: Kashmir valley from 1979-2014. Journal of "Earth Sys. Sci". (2021)130-156.Accepted March 2021. https://doi.org/10.1007/s12040-021-01655-6
20. Ruhhee Tabbussum and Abdul Qayoom Dar, Modelling hybrid and backpropagation adaptive neuro-fuzzy inference systems for food forecasting Journal of Natural Hazards Published, March, 2021. https://doi.org/10.1007/s11069-021-04694-w
21. Tabassum Rasool A. Q. Dar& M. A. Wani, Development of predictive equation for modelling the infiltration process using Gene Expression Programming, Journal of "Water Resources Management". Published April, 2021. https://doi.org/10.1007/s11269-021-02816-4
22. Syeedah Razia and Abdul Qayoom Dar, Insights into the hydrogeological framework of NW Himalayan Karewas (India) Journal of "Environmental Challenges" 4(2021) 100086.
23. Mohd Ayoub Malik, Abdul Qayoom Dar, and Manoj K. Jain, Modelling streamflow using the SWAT model and multi-site calibration utilizing SUFI-2 of SWAT-CUP model for high altitude catchments, NW Himalaya's. Journal of "Modeling Earth Systems and Environment," (2022) 8:1203–1213.Published, May, 2021 https://doi.org/10.1007/s40808-021-01145-0
24. Syeedah Raazia and Abdul Qayoom Dar, A numerical model of groundwater flow in Karewa-Alluvium aquifers of NW Indian Himalayan Region, Journal of, Modelling Earth Systems and Environment" Published Febuary,2021. http://doi.org/10.1007/s40808-021-01126-3
25. Ishtiyaq Ahmad Rather and Abdul Qayoom Dar, Estimating long-term physio-chemical parameter changes of Lake water quality using multiplicative decomposition model for Dal Lake, Kashmir, India, Journal of Solid-State Technology volume: 63, issue: 5, 2020.
26. Ishtiyaq Ahmad Rather and Abdul Qayoom Dar, Spatio-temporal variation in physio-chemical parameters over a 20-year period, potential future strategies for management: A case study of

Dal Lake, NW Himalaya, India, Journal of Environmental Technology & Innovation (2020)101102. http://doi.org/10.1016/j.eti.2020.101102

27. Ishtiyaq Ahmad Rather and Abdul Qayoom Dar, Assessing the impact of land use and land cover dynamics on water quality of Dal Lake, NW Himalaya, India, Journal; of Applied Water Science (2020) 10:219. http://doi.org/10.1007/s13201-020-01300-5
28. Ishtiyaq Ahmad Rather and Abdul Qayoom Dar, Assessment of hydrochemistry dynamics of Dal Lake, NW Himalaya, Research Journal of Chemistry and Environment, vol. 24 (7) July 2020.
29. Ishtiyaq Ahmad Rather and Abdul Qayoom Dar, Forecasting Past and Future Trend of Physio-Chemical Parameters in Dal Lake, Srinagar, Kashmir, India using Statistical Analysis and modeling, international journal of Engineering and Advanced Technology (IJEAT), ISSN:2249-8958, Volume-9 issue-2, 2019".
30. Jasir Mushtaq, Abdul Qayoom Dar and Naved Ahsan, Characterization investigation on organic compost of municipal solid waste using physio-chemical, spectroscopic and thermal methods at different stages, Int. Environment and Waste Management January 2022. DOI: 10.1504/IJEWM.2023.10044745
31. Jasir Mushtaq, Abdul Qayoom Dar and Naved Ahsan, Spatial-temporal variations and forecasting analysis of municipal solid waste in the mountainous city of north-western Himalayas, "SN Applied science (2020) 2:1161.
32. Jasir Mushtaq, Abdul Qayoom Dar and Naved Ahsan, Geospatial mapping and SWOT analysis of municipal solid waste management: A case Study of Srinagar city, "Solid State Technology, Volume: 63 Issue:5, 2020".
33. Jasir Mushtaq, Abdul Qayoom Dar and Naved Ahsan, Physio-chemical characterization of municipal solid waste and its management in high-altitude urban area of North-Western Himalayas "Waste Disposal & Sustainable Energy. Published June-2020 http://doi.org/10.1007/s42768-020-00040-1".
34. Tabasum Rasool Dar A. Q. &Wani M. A., Comparative evaluation of infiltration Models under different land covers. Journal of Water Resources, 2021, Vol.48, No.4, pp 6254-634, Pleiades Publishing,
35. T. Rasool A. Q. Dar & M. A. Wani, Quantification of spatial variability of soil physics properties in a lesser Himalayan Sub- Basin of India, Journal of "Soil Physics, ISSN 1064-2293, Eurasian Soil Science,2020, Vol.53, No3, pp 362-376.
36. Tabasum Rasool, Abdul Qayoom Dar &Mushtaq Ahmad Wani, Comparison of infiltration model parameter estimation techniques under different land covers. International Journal of "Hydrology Science and Technology, Inder science. Publishers August, 2021.Vol. 2, No.4, 202pp-448-476.
37. Ruhhee Tabbussum and Abdul Qayoom Dar, Comparison of fuzzy inference algorithms for stream flow prediction", Neural Computing and Applications, Springer, Published June 2020. https://doi.org/10.1007/s00521-020-05098-w
38. Ruhhee Tabbussum and Abdul Qayoom Dar, Performance evaluation of Artificial Intelligence paradigms- Artificial Neural Networks, Fuzzy Logic, and Adaptive Neuro-Fuzzy Inference System for stream flow simulation", Environmental Science and Pollution Research, Springer, January 2021. https://doi.org/10.1007/s11356-021-12410-1
39. A Q Dar, and Umer Bashir Dar, Viability of Vermicomposting for Solid Waste Management in Ganderbal International Journal of Engineering Research and Technology (IJERT) ISS:22780181, Vol. 2 Issue 10, October-2018
40. Ruhhee Tabbusssum, and A Q. Dar, An overlook on Watershed management with a case study of Ganderbal Watershed, Kashmir, India, International Journal of Engineering Research and Technology (IJERT) ISS:2319-8354, Vol. 07, Issue 04, March, -2018.
41. Ruhhee Tabbussum and Abdul Qayoom Dar, Comparative analysis of Neural Network Training Algorithms for the flood forecast modelling of an alluvial Himalayan River", Journal of Flood Risk Management, Wiley, Volume 13, Issue 4, December 2020. DOI: https://doi.org/10.1111/jfr3.12656

42. Abdul Qayoom Dar and Aqleema Shah, Using Two-Dimensional Numerical Model for Hydrodynamic Modeling of a Western Himalayan Alluvial River Reach Hydrology Science and Technology, Int. J. Hydrology Science and Technology, Vol. 11, No. 2, 182-208, 2021.
43. Nasir Ahmad Rather, Mohd Akbar Lone Abdul Qayoom Dar, and Bintul Huda Mir, Design Procedure of Elongated Shape Filters for Cohesionless Soils Iranian Journal of Science and Technology, Transactions of Civil Engineering (2020) 44 (Suppl 1): S491–S496. https://doi.org/10.1007/s40996-020-00462-1.
44. Nasir Ahmad Rather, Mohd Akbar Lone, Abdul Qayoom Dar, and Bintul Huda Mir, The influence of particle shape and gradation parameters on the permeability of filter media, Int. J. Hydrology Science and Technology, Vol. 10, No. 3, 2020, 267-285.
45. Nasir Ahmad Rather, Mohd Akbar Lone and Abdul Qayoom Dar, Design criteria of protective filters based on particle shape and gradation parameters International Journal of Hydrology Science and Technology, Inder science Publication Int. J. Hydrology Science and Technology, Vol. 10, No. 1, 2020, 102-122.
46. Nasir Ahmad Rather, Mohd Akbar Lone, Abdul Qayoom Dar and Bintul Huda Mir, Laboratory investigations for development of design criteria for varying shapes of protective filters International Journal of Geotechnical Engineering, Taylor &020-00462-1. Francis Publication 2018, ISSN: 1938-6362 (https://doi.org/10.1080/19386362.2018.1475320.
47. Nasir Ahmad Rather, Mohd Akbar Lone and Abdul Qayoom Dar, Design criteria of blade shape filter material for graded cohesion less bases, International Journal of Geotechnical Engineering 2017 ISSN: 1938-6362. (https://doi.org/10.1080/19386362.2017.1377366.
48. Nasir Ahmad Rather, Mohd Akbar Lone and Abdul Qayoom Dar, Design criteria of round shape filters for cohesion-less bases, International Journal of Advanced Structures and Geotechnical Engineering (IJASGE), Basha Research Corporation.ISSN-2319-5347, Vol 6, No.4 Oct.2017.
49. Nasir Ahmad Rather, Mohd Akbar Lone and Abdul Qayoom Dar and Mir Bintul Huda, Determination of hydraulic conductivity for granular filters based on constriction size and shape parameters "Water Supply Vol 00, No0,1doi: 10.2166/ws.2021.167.
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51. Adil Mushtaq, A. Q. Dar, Nasir A. Rather and S Azhar Ud Din, Watershed Management of Dal Lake Catchment (J&K) Based on Erosion Intensity Hazard using Geospatial Technique, Elixir International Journal of Civil Eng Elixir Civil Eng. 80 (2015) 31028-31034.
52. Adil Mushtaq, A. Q. Dar, Nasir A Rather and S Azhar Ud Din, Morphometric Analysis of Micro-Watersheds of Dal Lake Catchment (J&K) using Geospatial Techniques, Elixir International Journal of Civil Eng Elixir Civil Eng. 83(2015) 33255-33261.
53. A. Q. Dar, M. A. Lone and B Hussain, Effective utilization of sand as an additive for the validity of filter design criteria for cohesive soils based on controlling pore size of filters, International Journal of Geotechnical Engineering VOL.8, NO.2, 2014, 205-212(SCOPUS)
54. A. Q. Dar, Saima Showkat, Saqib Gulzar, Trend Analysis and spatial assessment of Various Water Quality Parameters of River Jhelum, J & K, India, for an Inclusive Water Quality Monitoring Program IOSR Journal of Mechanical and Civil engineering e-ISSN: 2278-1684, p-ISSN: 2320-334X
55. A. Q. Dar, M.A. Lone and B Hussain , Design criteria of cohesive soils based on controlling constriction size of filters, Indian Geotechnical Journal Vol.43. No.1(2013) 39-46
56. A.Q. Dar, M. A. Lone and B Hussain , Filter design criteria for base soils with a significant cohesive content, Indian Geotechnical Journal Vol. 41. NO.4, Oct. 2011, pp 177-185
57. M. A. Lone, A. Q. Dar and B Hussian, Filter design criteria for non- cohesive soils with a limited cohesive content Indian Geotechnical Journal Vol. 33, No.2, (2003) pp 80-95.

Conferences

1. Waseem Rashid Teley & Abdul Qayoom Dar, Long-Term Dynamics of Key Pollution Indicator in a Himalayan Urban Lake Using Statistical Trend and Shift Detection Techniques, "International Conference on Wetlands and Water Resources for Sustainable Future, WET-WAT,2025, NIT Patna, Bihar. India 29-31 Dec.2025"
2. Waseem Rashid Teley & Abdul Qayoom Dar, Development and Comparative Evaluation of Updated Rainfall IDF Equations for Kupwara Region, Jammu & Kashmir, "International Conference on Wetlands and Water Resources for Sustainable Future, WET-WAT,2025, NIT Patna, Bihar. India 29-31 Dec."
3. Waseem Rashid Taley, Madiha Farooq, Reyaz Hussain Akhoon and Abdul Qayoom Dar, Comparative Analysis of Removal Efficiency and Correlation Patterns in MBBR and SBR Wastewater Treatment Systems, International Conference on Sustainable Developments in Air and Waste Management, AMU Aligarh Uttar Pradesh, Dec 20-21,2024
4. Waseem Rashid Taley, Madiha Farooq, Reyaz Hussain Akhoon and Abdul Qayoom Dar, Investigation the Impact of Meteorological Factors on Particulate Matter Concentrations: A Comprehensive Review, International Conference on Sustainable Developments in Air and Waste Management, AMU Aligarh Uttar Pradesh, Dec 20-21,2024
5. Reyaz Hussain Akhoon, Khalid Muzamil Gani and Abdul Qayoom Dar, Pilot Scale Study of a DEWATS Reactor System for Sustainable Wastewater Management in Local Communities, International Conference on Sustainable Developments in Air and Waste Management, AMU Aligarh Uttar Pradesh, Dec 20-21,2024
6. Waseem Rashid Taley, Mohd Arbin Bilal and Abdul Qayoom Dar, Modelling of Stage Discharge Relationships for Major Gauging Sites of Jhelum River Basin Kashmir, 29th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2024), CWPRS Pune India, Dec 18-20,2024
7. Waseem Rashid Taley, Jitender Kushwaha and Abdul Qayoom Dar, Development of Unit Hydrograph for River Jhelum Basin J&K India: A Case Study, 29th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2024), CWPRS Pune India, Dec 18-20,2024
8. Waseem Rashid Taley, Pappu, Alok Dwivedi, A.M Yaswanth and Abdul Qayoom Dar, Assessment of Groundwater quality for Domestic and Irrigation purposes using water quality indices: Correlation and Temporal analysis in Udhampur District, Jammu & Kashmir, 29th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2024), CWPRS Pune India, Dec 18-20,2024
9. Waseem Rashid Taley, Basit Baba and Abdul Qayoom Dar, Redevelopment of Rainfall Intensity Frequency Relationships Using Gumble and Log Pearson Distributions for Srinagar Region, International Conference on Sustainable Materials, Environment And Technologies Under Climate Change Scenario SMET 2024, NIT Kurukshetra, India
10. Waseem Rashid Taley and A. Q. Dar, Groundwater quality evaluation using water quality indices and multivariate analysis: A case study of Sub-District Kangan (Ganderbal / J&K), 9th international Groundwater conference (IGWC-2022), IIT Roorkee, Nov-2-4, 2022.
11. Dar Junaid and Abdul Qayoom Dar, Hydro-Climatic Variability over Northern India: Implications for Water Resource Management, 26th International Conference on Hydraulics, Water Resources and Coastal Engineering, Hydro 2021, at SVNIT, Surat, Gujarat India, December 23-25, 2021
12. Syeedah Raazia, and Abdul Qayoom, Subsurface hydrological Realm of Pir Panjal watersheds in Jhelum Basin, India." In: Proceedings of Fourth Indian National Groundwater Conference (INGWC-2021) on Groundwater Management in Arid and Semi-Arid Regions of Hard Rock Terrains. March 22- 24, 2021. JNTUH Hyderabad, India. pp 107-114.
13. Ishtiyaq Ahmad Rather and Abdul Qayoom Dar, Variation in physio-chemical parameters of Dal Lake, Jammu and Kashmir, International Conference on Contemporary Issues in Engineering Agriculture, Applied Science and Humanities, NIT Srinagar-22-23 June, 2019.
14. Tabasum Rasool, Abdul Qayoom Dar, Firoz Alam, Shazia Ramzan, Sajad Ahmad, Liyaqat Ali, Junaid Ahmed, Spatial variability analysis and mapping of infiltration rate in Nit Srinagar

campus using GIS. (HYDRO 2019 International conference, Osmania University, Hyderabad, India 18-20, December,

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16. Tabasum Rasool, Sajad Ahmad, Abdul Qayoom Dar, Mushtaq A. Wani, Comparison of soil infiltration models under varying land cover condition in a micro watershed of Western Himalayan Region International conference on Hydraulics, Water resources and Coastal Engineering (HYDRO 2018),19-21 December, 2018 National Institute of Technology Patna
17. Syeedah Raazia and Abdul Qayoom Dar, Geospatial Interpolation of Hydraulic Head Distribution in Karewa Aquifers of North-western Himalayas, India "Soil Conservation Society of India (SCSI), National Web-Conference Sustainable Soil and Water Management for Bio-diversity Conservation, Food Security and Climate Resilience 29-30 December, 2020.
18. Abdul Qayoom Dar, Lateef Ahmad Dar and Syeedah Raazia, applying artificial neural networks algorithms to rainfall-runoff modeling – (case study Jhelum river Basin), The second International Symposium on Hydraulic Modeling and Measuring Technology, ISHMMT 2018, May30- June01,2018, Nanjing, China
19. Ruhee Tabassum and A. Q. Dar, An overlook on Watershed Management with a case study of Ganderbal Watershed, Kashmir, India, Ist International conference on Recent Developments in Science, Humanities & Management-2018, 17-18, April at Amar Singh college, Cluster University Srinagar
20. Rather, N. A., Lone, M. A., Dar, A. Q. and Mir, B. H., Experimental Determination of Permeability of Filter Material Based on Controlling Constriction Size. 7th World Conference on Applied Sciences, Engineering and Management. 26-27 October 2018, The American Business School of Paris, France
21. A. Q. Dar Syeedah Raazia and Lateef Ahmed, Data driven runoff modeling using different sets of predictors-A case study,22nd. International Conference on Hydraulics, Water Resources and Coastal Engineering Hydro -2017 L.D College of Engineering Ahmedabad-21-23 Dec-2017
22. A.Q. Dar, Humaira Maqbool, Rainfall intensity – duration - frequency relationships for different regions of Kashmir valley- J &K(India), 3rd International Conference on Science, Technology and Management (ICSTM-16) India International Centre, New Delhi 17 January 2016 (Best oral Presentation Award),
23. A.Q. Dar, Humaira Maqbool and Syeedah Raazia, An empirical formula to estimate rainfall intensity in Kupwara region of Kashmir Valley J & K, India 4th International conference on advancements in engineering & technology (ICAET-2016) (ICAET) Bhai Gurdas Institute of Engineering & Technology (Punjab), India ISBN No. 978-81-924893-1-5,
24. A.Q. Dar, Saima Showkat and Saqib Gulzar, Trend Analysis and Spatial Assessment of various Water Quality Parameters of river Jhelum, J & K for an Intensive Water Quality Monitoring Program, International Conference on Modeling Tools for Sustainable Water Resources Management, MTSWRM-2014Anjuman college of Engineering and Technology, Nagpur (M.S), (Best Paper award)
25. Saima Showkat, A. Q. Dar and Mir Faizan Ul Haq, Temporal Assessment of Water Quality of River Jhelum, J & K India using Parametric and Non-Parametric Methods, International Conference on Modeling Tools for Sustainable Water Resources Management, MTSWRM-2014Anjuman college of Engineering and Technology, Nagpur (M.S),
26. Saqib Gulzar and A. Q. Dar, Study of Rainfall Variation in Kashmir Valley, India, International Conference on Modeling Tools for Sustainable Water Resources Management, MTSWRM-2014 IIT Hyderabad (India)
27. A. Q. Dar and Ruhee Tabassum, Flood Prediction in River Jhelum, J&K (India) using Artificial Neural Network and Multiple Linear Regression Technologies, International Conference on Modeling Tools for Sustainable Water Recourses Management, MTSWRM-2014 IIT Hyderabad (India)
28. Faizan Ul Haq, Saqib Gulzar, A. Q. Dar, Irfan U.L Haq and Ovais Gulzar, Srinagar City: Expansion trends and need for vertical expansion, National Conference on Sustainable Infrastructure Development, (NCSID) 13-14 March 2014 NITTR Chandigarh"

29. Saqib Gulzar, Faizan Ul Haq, A. Q. Dar and S. K. Bukhari, Ovais Gulzar and Irfan UL Haq, Dhajji - Diwari System: An Indigenous Seismically Resistant Design & Sustainable Housing Infrastructure in Kashmir," India, National Conference on Sustainable Infrastructure Development, (NCSID) 13-14 March 2014 NITTR Chandigarh"
30. Adil Mushtaq, A. Q. Dar and Shakeel Ahmad, Watershed management of Dal Lake Catchment (J & K) based on erosion intensity hazard using geospatial technique international conference on Geospatial Technologies and Applications"Geomatrix-12, February 26-29,2012 CSRE, IIT Bombay,
31. Niyaz Ahmad Bhat, Sajid Mushtaq Pandith and A. Q. Dar, Impact of Direct Disposal of Sewage into River Jhelum, International Conference on Sustainable Water Resources Management and Treatment Jan.19-20,2011 NEERI Nagpur
32. Saqib Gulzar, A.R. Dar A. Q. Dar and Ovais Gulzar", Flood Resilient Construction in Jammu & Kashmir, National Inter-disciplinary Science Conference-2015 Sri Pratap College Srinagar, Jammu & Kashmir (Best Paper award)
33. Saqib Gulzar, A. R Dar and A. Q. Dar, Improving the flood performance of building infrastructure in Jammu & Kashmir, 11th J & K Science Congress 2015 University of Kashmir J& K India
34. Saqib Gulzar, Faizan Ul Haq and Dar A.Q. Applicability and Suitability of a Multiplicative Seasonal Model for Forecasting Water Quality Parameters for Dal Lake of Kashmir, 9th. J & K Science Congress & Regional Science Congress (ISCA)1-3 Oct.2013, University of Kashmir J& K India
35. Adil Mushtaq and A. Q. Dar, Watershed prioritization of inaccessible Micro-watersheds of Dal Lake catchment (J&K) using geographical Information System, National seminar on Geospatial solutions for Resource Conservation and Management GEOS-12, 18-20, Jan 2012. Karnataka State Remote Application Centre Bangalore
36. A. Q. Dar, and Adil Mushtaq, Morphometric analysis of micro- watersheds of Dal Lake catchment (J&K) using geospatial technique, National Conference on Hydraulics and Water Resources, Hydro- 2011, 29-30 Dec.2011 SVNIT, Surat
37. Niyaz Ahmad Bhat, Sajid Mushtaq Pandit and A. Q. Dar, Solid waste generation of Srinagar city (J&K) -present and future perspectives, National Conference on Sustainable Development of Urban Infrastructure 18-19 June 2010.Visvsesvaraya National Institute of Technology Nagpur
38. Niyaz Ahmad Bhat, Sajid Mushtaq Pandit and A. Q. Dar, Utilization of waste from construction Industry- recycling of concrete, National Conference on Sustainable Development of Urban Infrastructure 18-19 June 2010.Visvsesvaraya National Institute of Technology Nagpur
39. A.Q. Dar, Viability of vermicomposting for solid waste management in Srinagar city (J& K), National Seminar on Cleaner Production Technologies 17-18 Nov.2009, NITTTR, Chandigarh.
40. A. Q. Dar, and Arif Bandey,Watershed Prioritization of Ramimbiara Catchments of Jhelum basin using Geoinformatics, National symposium on Climate change and water resources in India CCWRI,18-19Nov.2009, IIT Roorkee
41. A. Q. Dar, and Arif Bandey, Morphometric analysis of micro-watersheds of Jhelum basin using GIS Technique, National Seminar conference on sustainable water resources development and management SWADAM,13-14 June 2008, Govt College of Engineering Aurangabad.

Book Chapters

1. Ruhhee Tabbussum and Abdul Qayoom Dar, "Analysis of Bayesian Regularization and Levenberg–Marquardt Training Algorithms of the Feedforward Neural Network Model for the Flow Prediction in an Alluvial Himalayan River", Algorithms for Intelligent Systems in Cybernetics, Cognition and Machine Learning Applications, page 43-50, Springer, Singapore, April 2020.
2. Tabasum Rasool, Sajad Ahmad, Abdul Qayoom Dar, Mushtaq A. wani, Comparison of soil infiltration models under varying land cover condition in

a micro watershed of Western Himalayan Region, Hydrological Modelling Springer, (395-340)http://link.springer.com/book/10.1007/978-3-030-81358-1.

3. Waseem Rashid Teey, Basit Ahmad Baba and Abdul Qayoom Dar, Redevelopment of Rainfall Intensity Duration Frequency Relationships Using Gumble and Log Pearson Distributions for Srinagar Region, J & K, India "Sustainable Technologies for Water and Environment Under Climate Change Scenario "http://doi.org/10.1007/978-981-96-9841-731

Patent Granted :

1. Land Surface Temperature Tracker, Design No: 43035-001, Date 13-09-2024

Ph.D Supervision

1. Nasir Ahmed Rather, Protective filter design criteria based on the particle shape and gradation parameters, (Co-Supervisor) (Awarded, 2017).
2. Ms. Ruhhee Tabassum, Modeling Flood Prognosis Using Machine Learning Techniques, (Awarded, June 2021).
3. Ms. Tabasum Rasool, Modeling Vadose Zone Infiltration in the Himalayan Lake Catchment, (Awarded, June 2021).
4. Mr. Ishtiyaq Ahmad Rather, Water quality modeling of Dal Lake in North West Himalayan Region, (Awarded, July 2021).
5. Mr. Jasir Mushtaq Kaloo, Gis-based approach and characterization analysis of municipal solid waste in western Himalayan region (Awarded July, 2021).
6. Ms. Syeedah Raazia, Groundwater modeling of Karewa watersheds in a Western Himalayan basin (Completed, May, 2022).
7. Mr. Mohd Ayoub Malik, Modeling impact of climate change on runoff and sediment yield of a high-altitude catchment (Awarded, May, 2024).
8. Mr Junaid Ahmad, Spatial-temporal structure of precipitation extremes associated with tropical moisture export over India (Awarded, June,2024).
9. Bilal Ahmad Malik, Experimental study on crack filling by upstream filler material in dams (Awarded, June- 2024).
10. Waseem Rashid Taley, Prediction and Assessment of water quality using advanced data analytics (In Progress)
11. Reyaz Hussain Akhoon, Performance investigations of community-centric MBBR bio- retention pond system for sustainable waste (In Progress).
12. Zainabul Gazali, Integrated Assessment of Snow–Glacier Dynamics and Runoff Generation in the North-western Himalayan Basin under Changing Climatic Conditions (In progress)
13. Shakeel Ahmad Dar, Groundwater vulnerability (In progress)

P.G Dissertation Supervision

1. Seeratul Mehraj, Flood Forecasting for Jhelum Basin using Unit Hydrograph Methodology (2005).
2. Nazia NazirZ uhaid, Modeling of Water Quality Parameters of Dal Lake (J & K) (2006).
3. Rais Ahmad, Hydraulic Conductivity of Porous Material- Influence of Pore Channel and Nature of Gradation (2007)
4. Ishtiyaq Ahmad Rather, Forecasting Water Quality Parameters for Dal Lake of Kashmir, (2008)
5. Arif Ahmad Banday, Geomorphlogical Analysis of Upper Watersheds of Rambiara Catchment Using Geoinformatics (2009)
6. AdilMushtaq , Watershed Management of Dal lake Catchment Using Geospatial Technique (2011).

7. Hakim Muzamil, Effect of Land Use/Land Cover on Runoff-A Case Study of Dal Lake Catchment (J&K), (2012).
8. Saima Showkat, Spatial and Temporal Assessment of Water quality of River Jhelum (J&K), (2013).
9. Ruhee Hamid, Flood Prediction in River Jhelum-J&K, India Using Artificial Neural Network and Multiple Linear Regression Techniques, (2004).
10. Daniyal Rasool, Soil Erosion Estimation using WEPP model in a Dal Micro watershed J & K –A case study, (2004).
11. Humaira Maqbool, Intensity -frequency-duration Studies of Kashmir Valley, (2015).
12. Lateef Ah. Dar, Rainfall -Runoff Modeling for River Jhelum (J& K) India, (2015).
13. Aqleem Shah, Flood plain mapping of River Jhelum using two dimensional Numerical model Telmac-2D, (2016).
14. Ishtiyaq Nabi, Assessment of water quality parameters of Dal Lake in Kashmir valley J & K India, (2016).
15. Sofi Aamir Majeed, Effect of Nature of Fluid on Hydraulic Conductivity of Soils, (2017).
16. Sajad Ahmed, Infiltration modeling in a micro water shed of Dal Lake catchment, (2018).
17. Mohd. Arbin Bilal, Modeling of stage discharge relationship for major gauging sites of Jhelum Basin, Jammu & Kashmir, India, (2019).
18. Danish Jeelani, Modeling of hydrologic response of Puhroo and Lidder River Catchment using ARCSAWAT, (2019).
19. Pebika Bania, Flood prediction in Pandu situated in Guwahati (Assam), India of the Brahmaputra River using Artificial Neural Networks, (2020).
20. Syed Mohammad ShariqQadri, Multivariate Statistical Analysis of Physio-Chemical Water Quality Parameters of Wular Lake, (2020).
21. Aamir Mubarik, Rainfall runoff simulation and flood prediction using fuzzy logic-based modeling, (2021).
22. Ajaz Ahmad Mir, Quantitative Analysis of Methane Gas Emissions from Municipal Solid Waste in Srinagar City, (2021).
23. Waseem Rashid Taley, Evaluation of Groundwater Quality using Water Quality Indices and Multivariate analysis (A case Study of Sub- District Kangan of District Ganderbal, J & K, India. (2022).
24. Jitendra Kushwaha, Development of Unit Hydrograph for Jhelum River Basin J&K India: A Case Study, (2023).
25. Basit Ahmad Baba, Development of Rainfall Intensity Duration Frequency Relationship for Meteorological stations of Kashmir Valley (J& K) India, (2023)
26. Aabid Mushtaq, Prediction of rainfall using neuro-fuzzy inference system and support vector regression models. (2024)

AMIE Thesis Supervision

1. Evapotranspiration Studies of River Jhelum Basin (J & K) ST: 380527-7 (2010-2011).
2. Identification and remedies of the problems of Sugam canal Shopian J & K ST-468333-7. (2010-2011).

U.G Project Supervision +50

Awards

1. Best Paper award titled "Trend Analysis and Spatial Assessment of various Water Quality Parameters of river Jhelum, J & K for an Intensive Water Quality Monitoring Program" in International Conference on Modelling Tools for Sustainable Water Recourses Management, MTSWRM-2014Anjuman college of Engineering and Technology, Nagpur (M.S).
2. Best oral Presentation Award" Rainfall intensity-duration-frequency relationships for different regions of Kashmir valley- J &K(India), 3rd International Conference on Science, Technology and Management (ICSTM-16), India International Centre, New Delhi, 17 January 2016.
3. Best Paper award titled "Applicability and Suitability of a Multiplicative Seasonal Model for Forecasting Water Quality Parameters for Dal Lake of Kashmir Proc. of 9th. J & K Science Congress & Regional Science Congress (ISCA)1-3 Oct.2013, University of Kashmir, J& K, India.
4. Best Paper award titled "Long-Term Dynamics of Key Pollution Indicator in a Himalayan Urban Lake Using Statistical Trend and Shift Detection Techniques, "International Conference on Wetlands and Water Resources for Sustainable Future, WET-WAT,2025, NIT Patna, Bihar. India 29-31 Dec.2025"
5. Best Paper award titled "Development and Comparative Evaluation of Updated Rainfall IDF Equations for Kupwara Region, Jammu & Kashmir, "International Conference on Wetlands and Water Resources for Sustainable Future, WET-WAT,2025, NIT Patna, Bihar. India 29-31 Dec.2025"

Expert Lectures Delivered

1. Overview of Computer Application in Water Resources Engineering with Special Reference to ArcGIS, Participants of the 5-day Training workshop on Computer Applications in Civil Engineering.
2. Design Flood Estimation Participants for 5-day Training Course on Disaster Management (Earthquake Resistant Construction and Flood Management

Membership

1. Fellow of the Institution of Engineers India.
2. Life member of the Indian Society of Technical Education.
3. Life member of the Indian Society for Hydraulics.
4. Member of the International Association of Hydraulic and Environmental Research.

Significant outreach Institute activities

1. Expert member of the Inspection Team constituted by Hon'ble National Green Tribunal, New Delhi, for Solid Waste Management of Srinagar city (From Jan. 2017 to July 2017).
2. Member of the Departmental Board of Studies Committee for SSM College of Engineering and Technology. (From 2016 to 2018)
3. AICTE team member for the inspection of various institutions
4. Expert member of the Inspection committee constituted by the University of Kashmir
5. Evaluation of PhD and MTech theses of various Institutes.

Conferences/ Workshops/Seminars attended

S. No	Organization	Title	Period

			From	To	Weeks/ Days
1.	Dept of Civil Eng NITTTR, Chandigarh	National Seminar on Cleaner Production Technologies	17-11-2009	18-11-2009	2 days
2.	Dept of Civil Eng. Govt. College of Engineering Aurangabad	National Conference on Sustainable Water Resources Development and Management SWRDAM- 2008	13-06-2008	14-06-2008	2 days
3.	NEERI Nagpur	International Conference on Sustainable Water Resources Management and Treatment	19-01-2011	21-11-2011	3 days
4.	SVNIT, Surat	National Conference on Hydraulics and Water Resources, Hydro- 2011,	29-12-2011	30-12-2011	2 days
5.	CSRE, IIT Bombay	International conference on Geospatial Technologies & Applications "geomatrix-12	26-02-2012	29-02-2012	4 days
6.	IMT Nagpur	Workshop on "Statistical data analysis".	16-01-2013	18-01-2013	3 days
7.	NI T Srinagar	Workshop on "National Mission on Education through Information Communication Technology	18-06-2013	18-06-2013	1 day
8	Esri India	ArcGIS: Introduction to GIS	17-07-2017	21-07-2017	5 days
9.	Esri India	ArcGIS3: Training Programme on Performing Analysis	17-07-2017	21-07-2017	5 days

10.	Jamia Millia Islamia New Delhi	GIAN Course on Managing Floods and droughts in a changing Climate	15-01-2018	20-01-2018	5 days

Summer/Winter/Short-term courses attended

S. No	Organization	Title	Period		
			From	To	Weeks/Days
1.	Elect. & Comm. Dept. R.E.C. Srinagar	ISTE course on Programming and Programming Methodology	Nov. 5, 1991	Dec.28,1991	8weeks
2.	Dept. of Civil Eng., College of Eng. Goa.	ISTE course on Eco-Management of coastal areas	Feb. 26, 1996	Mar.10,1996	2weeks
3.	Dept of Earthquake Engineering, University of Roorkee	AICTE course on Computational Modeling for Geo-Dynamic Problems	Feb. 18, 1997	Mar. 1, 1997	2 weeks
4.	CSRE, IIT Bombay	NNRMS course on Remote Sensing Application to Water Resources	July,21,1997.	Aug. 14, 1997	4 weeks
5.	Civil Eng. Dept. VRCE, Nagpur	AICTE/ISTE course on Environmental Eng. Systems Optimization	June,11,2001	Jun, 22, 2001	2weeks
6.	WRDTC & NIH, IIT Roorkee	System Analysis Techniques and Computer Applications in Water Resources Management	Jan.05,2004	Jan.20,2004	4weeks
7.	Dept. of Civil Eng. IIT Roorkee	Analytical Procedures for Water and Waste Water Quality	Dec.15,2006	Dec.19,2006	1week
8.	NIH Roorkee& CSMRS New Delhi	Water Quality and its Management	July16, 2007	July 20, 2007	1 week
9.	Dept. Of Hydrology &Dept. Of WRDM IIT Roorkee	Advanced Techniques and Tools for Hydrological Analysis and Design	Oct.26, 2009	Oct. 31, 2009	1week