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3. *Address*

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61/125, Pratapnagar,
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4. *Details of employments*

<i>Senior research fellow</i>	Dept. of Civil Eng., Indian Inst. Of Roorkee	05/02/2010-15/11/2013
<i>Assistant Professor</i>	Dept. of Civil Eng., Delhi Technological University	31/07/2014-30/06/2015
<i>Assistant Professor</i>	Dept. of Civil Eng., Manipal University, Jaipur	06/07/2015-16/06/2016
<i>Assistant Professor</i>	Dept. of Civil Eng., NIT Uttarakhand	20/06/2016-08/12/2017
<i>Assistant Professor</i>	Dept. of Civil Eng., IITRAM, Ahmedabad	15/12/2017-till date

5. ***Academic Qualifications***

<i>Degree/Certificate</i>	<i>Discipline</i>	<i>University/Institute</i>	<i>Year</i>
High School	---	Central Board of Secondary Education (CBSE)	2001
(10+2)	PCM	Central Board of Secondary Education (CBSE)	2003
B.E. (Civil)	Civil Engineering	M.B.M Engg. College	2007
M.Tech. (Civil)	Hydraulic Engg.	IIT Roorkee	2009
Ph.D. [*]	Hydraulic Engg.	IIT Roorkee	2016
*Topic: Enhanced transverse mixing of pollutants in streams with submerged vanes.			

AREA OF INTERESTS:

Fluvial Hydraulics, Environmental Fluid Mechanics and Turbulent flow.

REVIEWER OF JOURNALS:

Water Science and Technology (International Water Association Publishing)

Water Science and Technology: Water Supply (International Water Association
Publishing)

Current Science (IISc Bangalore Publication)

Journal of Institution of Engineers: Series C (Springer)

Environmental Fluid Mechanics (Springer)

International Journal of Sediment Research (Elsevier)

Water Resources Management (Springer)

Marine Geo-resources and Geo-technology (Taylor & Francis)

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0000-0001-6198-577X

PROFESSIONAL MEMBERSHIPS:

ASCE (Student member)

Institution of Engineers (Associate Member)

Indian Society for Hydraulics (Life member)

LIST OF PUBLICATIONS

Journals

1. Ahmad, Z., Sharma, H., and Westrich, B. (2013). Turbulence characteristics of flow over block ramps. Journal of Water Resources and Hydraulic engineering, Vol. 2(1), pp 21-29, World Academic Publishing.
2. Sharma, H., and Ahmad, Z. (2014). Transverse mixing of pollutants in streams: a review. Canadian Journal of Civil Engineering, Vol. 41(5), pp 472-482, NRC Press. (IF = 0.869) (Q2-Journal)
3. Sharma, H., Jain, B., and Ahmad Z. (2016). Optimization of submerged vane parameters. Sadhana, 41(3), pp 327-336, Springer. (IF = 0.769) (Q2-Journal)
4. Sharma, H., and Ahmad, Z. (2018). Enhancing transverse mixing in streams with submerged vanes. Environmental Fluid Mechanics, 18(3), pp 661-681, Springer. (IF = 1.85) (Q2-Journal)
5. Sharma, H., and Ahmad, Z. (2020). Turbulence characteristics of flow past submerged vanes. International Journal of Sediment Research, 35, pp 42-56, Elsevier (IF =1.97) (Q1-Journal).
6. Solanki, K., Sharma, H., and Joshi. N. (2023). Flow and parameter optimization of tapered vanes. Journal of Eco-hydraulics, 8(1), 13-25, Taylor and Francis.
7. Sharma, H., Joshi, N., and Mohapatra, P. (2023). Estimating transverse velocity and concentration in an open channel by Kumaraswamy distribution. Stochastic Environmental Research and Risk Assessment, Springer. (Under Review).

Conference Presentations

1. Sharma H., and Ahmad Z. (2010). Flow pattern around submerged vanes: a review. Nat. Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering, Hydro-2010. M.M. Engineering College, M.M. University, Mullana

(Ambala), pp. 79-85.

2. Sharma H., and Ahmad Z. (2010). ADV measurements of turbulence over smooth and rough beds. Nat. Seminar on Sustainable Management and Conservation of Water Resources, Rajasthan Technical University, Kota, 12-13 March 2010, pp. 127-134.
3. Chouhan, S., Sharma, H., and Ahmad, Z. (2011). Enhancing transverse mixing of pollutants in streams with submerged vanes. International Conference on Environmental Research (ICER-2011), SVNIT, Surat, India.
4. Sharma, H., and Ahmad, Z. (2011). Impact of climate change on hydropower projects. RIVERS-2011, Penang, Malaysia.
5. Sharma, H., and Ahmad, Z. (2012). A new technique for enhancing transverse mixing of pollutants in streams. International Conference on Environmental Research (ICER-2012), University of Terengganu, Kuala Terengganu, Malaysia.
6. Sharma, H., and Ahmad, Z. (2014). Turbulence characteristics of flow past the submerged vanes. HYDRO-2014, MANIT, Bhopal, 18th-20th December 2014.
7. Sharma, H., and Ahmad, Z. (2018). Utilizing submerged vanes for enhancing transverse mixing in streams. International Water Technology Conference (IWTC-18), Port Said, Egypt, 28th-30th June 2018.
8. Solanki, K., and Sharma, H. (2020). Parameter optimization of tapered submerged vane. Roorkee Water Conclave, Roorkee, India.
9. Kumar, H., Sharma, H., Suryavanshi, S., and Joshi, N. (2022). Comparative study of temperature variation for Indian sub-continent. ICCWE-2022, Roorkee, India.

Books edited/ Chapters published

1. Sharma, H., Pandey, S., Singh, N., and Goel, S. (2020). *Green Innovation, Sustainable Development, and Circular Economy*, CRC Press, Taylor & Francis. (ISBN: 978-0-367-44174-6)
2. Sharma, H., Joshi, N., and Suryavanshi, S. (2022). Wavelet transform-based trend analysis of drought variables over homogenous Monsoon regions of India. *Advances in Hydrology and Climate Change: Historical Trends and New Approaches in Water Resources Management*. Apple Academic Press, Taylor & Francis. (ISBN: 978-1-774-910306)
3. Solanki, K., and Sharma, H. (2022). Flow pattern around multiple vane arrangement. *Advances in Hydrology and Climate Change: Historical Trends and New Approaches in Water Resources Management*. Apple Academic Press, Taylor & Francis. (ISBN: 978-1-774-910306)

LIST OF EXPERT LECTURES

1. Delivered a lecture on “Design aspects of submerged vanes.” in 1-week training program entitled “River Hydrodynamics & Training Works” at IIT Roorkee on 12/10/2017.

2. Delivered a lecture on “Effect of climate change on hydropower potential: A case study of Vishnugarh Pipalkoti Hydroelectric Project.” at Sankalchand Patel University, Visnagar, Gujarat on 09/03/2019.

LIST OF RESEARCH PROJECT SUBMITTED/GRANTED

S. No.	Title of Project	Status	Role	Funding Agency	Amount (in Lacs)
1.	Submerged vanes for river training and sediment management in streams and their field application.	Ongoing	Co-PI	IWAI	172.5
2.	Numerical estimation of scouring around bridge pier foundations	Ongoing	Co-PI	DST	31.53

LIST OF M. TECH. DISSERTATION GUIDED

Name of Student	Title of dissertation	Year	Co-supervisor (if any)
Karan Solanki	Flow pattern around tapered vane	2019	-
Yash Shrimali	Critical submergence of intake with non-axial flow	2021	-

REFERENCES

1. Prof. Z. Ahmad
Department of Civil Engineering
Indian Institute of Technology Roorkee
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2. Prof. Pranab Mohapatra
Professor,
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3. Dr. Nitin Joshi
Assistant Professor,
Department of Civil Engineering,
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