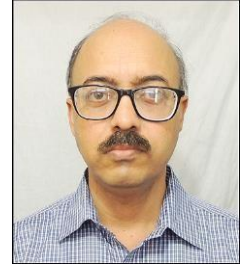


CURRICULUM VITAE

Dr. Utpal Kumar Misra
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Father's Name: Dr. Upendra Nath Misra

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Current Designation: Professor

Education

B. E. in Civil Engineering, Assam Engineering College [First Class Second under Gauhati University] (1992)

M. E. in Watershed Management and Flood Control (Civil Engineering), Assam Engineering College (1995)

Ph. D. in Water Resources Engineering, IIT Roorkee (2006)

Professional Experience

Lecturer, Assam Engineering College (October 1994 – April 2008)

Assistant Professor, Assam Engineering College (April 2008 – April 2011)

Associate Professor, Assam Engineering College (April 2011 – July 2014)

Professor, Assam Engineering College (July 2014 – Dec 2024)

Professor, Assam Engineering College (Dec 2024 – Till Date)

Research Interest

Hydraulic Engineering

Fluvial Hydraulics

Water Resources Engineering

Professional Membership

Life Member – Indian Society for Technical Education (ISTE)

Member – The Institution of Engineers (India)

Teaching Experiences (UG and PG courses):

Engineering graphics

Engineering surveying

Fluid Mechanics

Hydraulics and Hydraulic Machines

Hydraulic Engineering

Estimation and Valuation

Transportation Engineering

Water Resources Engineering
Open Channel Flow
Hydraulic Machines
Principle of Watershed Management
Flow through Porous Media
Advanced Hydraulic Engineering
Design of Hydraulic and Hydropower Structures
Hydrological Measurement and Data Analysis

Research Experiences

Number of Master Degree Dissertation Supervised: 22

Number of Ph. D. Thesis Supervised: 1 (Research Topic: Numerical Approach for Channel Routing in Ungauged Basin, Student's Name: Biswadeep Bharali, Year of Completion: 2022)

Details of Sponsored / Consultancy Project Handled

- Total 18.00 Lacs funded by AICTE titled “Mathematical Modeling of an Erosion Affected Reach of River Brahmaputra”
- Involved in the evaluation study of many flood mitigation and river bank protection schemes in Assam, for Water Resources Department, Govt. of Assam.
- Vetting of the DPR of Ma Kamakhya Water Supply Scheme

Publications:

Journal Paper

1. Baishya, D. and Misra, U. K. (2024). “Increasing Water Use Efficiency by Canal Lining: A Case Study on the Birinchiguri Flow Irrigation Project, Assam, India”, *International Journal of Science and Research (IJSR)*, Volume 13, Issue 4, April 2024, ISSN: 2319-7064, <https://dx.doi.org/10.21275/SR24418205852>.
2. Bharali, B. and Misra, U. K. (2022). “Numerical Approach for Channel Flood Routing in an Ungauged Basin: a Case Study in Kulsri River Basin, India”, *Water Conservation Science and Engineering* <https://doi.org/10.1007/s41101-022-00149-w>.
3. Bharali, B. and Misra, U. K. (2021). “Prediction of flood hydrograph using the modified Cunge-Muskingum method in an ungauged basin: a case study in the Kulsri River basin, India”, *Meteorology Hydrology and Water Management*, ISSN:2299-3835, [ESCI (Web of Science)], DOI: 10.26491/mhwm/143249.
4. Bharali, B. and Misra, U. K. (2021). “An approach for prediction of flood hydrograph at outlet of an ungauged basin using modified dynamic wave model”, *Ish Journal of Hydraulic Engineering*, <https://doi.org/10.1080/09715010.2021.1901250>.
5. Bharali, B. and Misra, U. K. (2020). “Development of a Diffusive Wave Flood Routing Model for an Ungauged Basin: a Case Study in Kulsri River Basin, India”, *Modeling Earth Systems and Environment*, Springer, <https://doi.org/10.1007/s40808-020-00952-1>.
6. Bharali, B. and Misra, U. K. (2020). “Investigation of Flood Routing Using Variable Parameter Kinematic Wave Model (VPKWM) for Non-Prismatic Natural Channel in an Ungauged Basin”, *Journal of Applied Engineering Sciences*, Vol. 10(23), Issue 2/2020, Art.No. 292 pp. 111-118.

7. Hussain, I. and Misra, U. K. (2018). "Morphometric Analysis in GIS Framework: A Case Study in Champabati Watershed", International Research Journal of Engineering and Technology, Vol. 05, Issue 05, pp. 3767- 3780.
8. Hussain, I. and Misra, U. K. (2018). "Soil Loss Estimation in GIS Framework: A Case Study in Champabati Watershed", International Journal of Innovative Research in Advanced Engineering, Vol. 5, Issue 5, pp. 187- 196.
9. Bora, P. and Misra, U. K. (2018). "An Experimental Study on Effect of Flexibility of Vegetation on Resistance to Flow", International Research Journal of Engineering and Technology, Vol. 05, Issue 02, pp. 2127- 2131.
10. Nath, D. and Misra, U. K. (2017). "Experimental Study of Local Scour around Single Spur Dike in an Open Channel", International Research Journal of Engineering and Technology, Vol. 04, Issue 06, pp. 2728- 2734.
11. Nath, D. and Misra, U. K. (2017). "Experimental Study of Local Scour around Non- Submerged Multiple Spur Dikes", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 6, Issue 7, pp. 12641- 12649.
12. Teronpi, J. and Misra, U. K. (2015). "Experimental Investigation of Local Scour around Submerged Vanes", International Journal of Innovative Research in Advanced Engineering, Vol. 2, Issue 7, pp. 21- 24.

Conference Paper

1. Nath, D. and Misra, U. K. (2017). "Effect of Spur Dike Alignment Angle on Scour Characteristics around Spur Dike in a Straight Channel", National Conference on Hydrology and Watershed Management, Department of Civil Engineering, National Institute of Technology, Silchar.
2. Sultana, S. N., Misra, U. K. and Hazarika, U. M. (2016) "Improvement of Water Use Efficiency: A Case Study of Sukla Irrigation Project, Assam", 1st International Conference on Civil Engineering for Sustainable Development- Opportunities and Challenges, Civil Engineering Department, Assam Engineering College, Guwahati.
3. Misra, U. K., and Lyngdoh, D. (2013). "Improvement of Water Supply Scheme in Rural Areas of Meghalaya: A Case Study" Souvenir on World Water Day 2013, The Institution of Engineers (India), Assam State Centre, 22nd March.