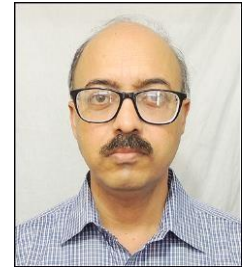


Dr. Utpal Kumar Misra
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Education

Ph. D. in Water Resources Engineering, IIT Roorkee (2006)
M. E. in Watershed Management and Flood Control (Civil Engineering), Assam Engineering College (1995)
B. E. in Civil Engineering, Assam Engineering College [First Class Second under Gauhati University] (1992)

Professional Experience

Professor, Assam Engineering College (July 2014 – Till Date)
Associate Professor, Assam Engineering College (April 2011 – July 2014)
Assistant Professor, Assam Engineering College (April 2008 – April 2011)
Lecturer, Assam Engineering College (October 1994 – April 2008)

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 Guided: 19

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 consultancy works for Water Resources Department, Assam

Publications

Journal Paper

1. Bharali, B. and Misra, U. K. (2020). “Development of a Diffusive Wave Flood Routing Model for an Ungauged Basin: a Case Study in Kulsi River Basin, India”, Modeling Earth Systems and Environment, Springer, <https://doi.org/10.1007/s40808-020-00952-1>.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.