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 Department of Mechanical Engineering
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Education:

- PhD, Pursuing entitled "Assessment of Water Resources of Some Important Eastern and North Eastern River Basins under Changed Climate Scenario".
- Master of Engineering (M.E.) degree in water Resources & Hydraulic Engineering Specialization with 70.3%, Jadavpur University, Kolkata, India in 2005.
- Bachelor of Mechanical Engineering (B.M.E.) degree with 62.8%, Jadavpur University, Kolkata, India in 2003.

Experience:

Present Employment:

- Lecturer, Department of Mechanical Engineering, B. P. Poddar Institute of Management and Technology
- Serving Fluid Mechanics & Hydraulic Engg. Specialization, Mechanical Engineering Department, B. P. Poddar Institute of Management & Technology as a Lecturer since 2007

Research Areas

Fluid Mechanics	Fluid Machinery,
Hydrology & Hydraulics,	Water Resources Engineering & Management

Experience: Teaching & Research : 04 years

Publications:

Book	: International: 01	
Journal	: International: 04	National: 02
Conference/ Seminar Proceedings	: National: 02	

List of Publications

BOOK:

International

1. Biswajit Mukhopadhyay, Mrinmoy Majumder, Rabindra Nath Barman, Pankaj Kumar Roy, Asis Mazumder, 'Application of Artificial Neural Network to analyze the effect of variable Dispersion Number on Reynold's Number and Hydraulic Gradient in a Horizontal Roughing Filter, Assoc. Water and Environmental Modeling, World Clay Publishers, New York, USA, **ISBN: 978-0-557-03395-9**.

JOURNAL

International

1. Rabindra Nath Barman, Biswajit Mukhopadhyay, Mrinmoy Majumdar, P. K. Roy & Asis. Mazumdar, "Estimation & Calculation of a relationship between Dispersion no., Reynolds no., Porosity & Hydraulic Gradient in Horizontal Roughing Filter", *Journal of Agricultural, Food & Environmental Sciences, New York, USA*, Vol. 2, Issue. 1, 2008, Web-Version, November, 2008, *ISSN: 1934-7235*
2. Mukhopadhyay, B., Majumder, M., Nath Barman, R., Kumar Roy, P., and Mazumder, A.: Verification of filter efficiency of horizontal roughing filter by Weglin's design criteria and Artificial Neural Network, *Journal of Drinking Water and Engineering Science Discussions*, Volume 1, pp.117 -133, 2008, *ISSN : 1996-9473*, *eISSN : 1996-9481*.
3. Nath Barman, R., Majumder, M., Mukhopadhyay, B., Mazumdar, A. (2008). Performance of HRF as a pretreatment unit before SSF against conventional water treatment systems. *Journal of Engineering, PHILICA.COM Article number 133, ISSN 1751-3030*.
4. Majumder, M., Barman, R.N., Roy, P.K., Jana, B.K., Mazumdar, A., 2009, Application of Neuro-genetic Algorithm to Determine Reservoir Response in Different Hydrologic Adversaries, *Journal of Soil & Water Resources*, Vol - 4, Issue - 2009(1), Prague, Checkoslovakia, *ISSN 1801-5395*

National

1. R.N. Barman, B. Mukhopadhyay, P. K. Roy & A. Mazumdar, "A study for estimating the effect of hydraulic parameters on bacteriological removal efficiency of HRF in combination with SSF", *Journal of Public Health Engineers, (India)*, Vol: 2008-09 No: 1 p: 10-15, 2008, *ISSN-0970-3195*.
2. M. Biswas, R. N. Barman, P. K. Roy & A. Mazumdar, "Management Plan of an Alpine Wetland : Mirik lake, A Case Study" *Journal of the River Research Institute, West Bengal*, Vol: 28 No: 2007-08, p: 13-21, 2008, *ISSN: 0970-9258*.

List of papers published in seminar/conference proceedings etc.

NATIONAL

Title	Seminar/ Conference	Year	Place
Optimization Technique for Removal of Carbon-Oxidation of Wastewater at Dakshin Raipur Water Treatment Plant in a Single Batch Fed Reactor	All India Seminar on "Water & Waste Water Management" organized by <i>Society of Civil Engineers, Jadavpur University</i>	26 th August, 2006	Jadavpur University, Kolkata
Impact of forestry plantations on production of stream flow and water quality related to maintenance of forest hydrology	Integrated Water and Wastewater Management organized by <i>School of Water Resources Engineering, Jadavpur University & Indian Association of Environmental Management, NEERI.</i>	20 th -22 nd November, 2008	Jadavpur University, Kolkata

Participation:

i) Refresher Courses

Title	Year	Place	Duration	Sponsor
Fracture, Fatigue and Structural Integrity	2 nd July to 21 st July, 2007	Department of Mechanical Engineering, Jadavpur University	3 Weeks	UGC Academic Staff College
Recent advances in Simulation, Diagnostics and Control of Thermal Systems	7 th July to 26 th July, 2008	Department of Mechanical Engineering, Jadavpur University	3 Weeks	UGC Academic Staff College

ADDITIONAL REMARKS:

Experience related to teaching of concerned subjects

- Teaching a UG Theoretical Paper entitled "Fluid Mechanics" for the last two years in the Department of Printing Engineering, Jadavpur University.

Laboratory Development:

- Developed a well-equipped Machine shop in the new premises of Mechanical Engineering, B. P. Poddar Institute of Management & Technology.
- Developed a well-equipped Water Quality Analysis Laboratory in the new premises of School of Water Resources Engineering, Jadavpur University