

BRIEF PROFILE

Name: Dr. Surajit Chakraborty

Title: Assistant Professor and Co-ordinator

Department: Environment Management

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Research Interest:

- Hydrogeology, Numerical Groundwater Modelling, Remote Sensing and GIS, RFID, and Environmental Sustainable Development

Subject Teach:

- Natural Resource, Soil, Smart Card, RFID, Industrial Safety and Occupational Health, Research Methodology, Disaster Management, Solid Waste Management

Key Qualifications:

Dr. Surajit Chakraborty had his education at Jadavpur University and Bengal Engineering and Science University, Shibpur. He was awarded the doctoral degree by Bengal Engineering and Science University, Shibpur in 2008 for his research work on “Assessment and Management of Groundwater Resource for English Bazar Block, Malda District of West Bengal, using Remote Sensing and GIS” from the Department of Mining and Geology. Since then, he was fully engaged, in full time research and teaching at IISWBM on subject remote sensing and GIS and contributed remarkably towards developing GIS for various environmental applications. A hydro-geologist by profession, he has gained experience in hydrogeological investigation involving GIS, remote sensing, and groundwater modeling. He has undertaken more than 10 R&D and consultancy projects in water resources and mining sectors. He published and presented more than 20 research papers in international and national journals, conference proceedings etc. on various themes of remote sensing and GIS applications to environment, land use/ land cover, spatial data analysis, water resources, transportation planning, watershed management and environmental modelling. Dr. Chakraborty is the Life-member of the Mining, Geological, and Metallurgical Institute of India (MGMI) and Online member of The International Association of Hydrogeologists (IAH/AIH). Dr. Chakraborty has been engaged with several NGOs in capacity building in the field of remote sensing and GIS and vulnerable mapping and environmental sustainable development activities. Currently as the Assistant Professor and Coordinator in the department of environment management he is actively engaged in research and teaching. Completed a finer-scale numerical groundwater flow models to understand arsenic transport in Jamuna sub-basin in Nadia and North 24 Parganas of West Bengal, funded by the Department of Science and Technology, Government of India as a Co-investigator and on hydrogeological study of subsurface water flow and other characteristics of River Dwarakeswar in Bankura-I block funded by the Public Health Engineering Department, Government of West Bengal. Presently Dr. Chakraborty is presently engaged in a joint collaborative research project with Central University Gujarat on delineation of groundwater potential zones using multi-band Remote Sensing data and GIS for sustainable water resources management in semi-arid hard rock terrain of Para block, Puruliya district, West Bengal.



Education:

Name of Examination passed	Name of Board/University/ Institute	Year of passing
*Ph.D. in Science	Bengal Engineering and Science University, Shibpur	2008
M.Sc. in Geo-informatics	Sikkim Manipal University of Health, Medical and Technological Sciences, Gangtok	2006
M.Sc. in Applied Geology	Jadavpur University	2001
B.Sc. in Geology (Honours)	Burdwan University	1999

Title of the thesis: Assessment and Management of Groundwater Resource for English Bazar Block, Malda District of West Bengal, using Remote Sensing and GIS

Employment Record:

Name of post	Institution/ office where employed	Date of joining (exact date)	Date of leaving (exact date)
Assistant Professor	Indian Institute of Social Welfare and Business Management, Kolkata	15 th April 2009	Continuing
Lecturer	Indian Institute of Social Welfare and Business Management, Kolkata	15 th April 2008	14 th April 2009
SRF	Bengal Engineering and Science University, Shibpur Howrah (BESUS)	1 st January 2007	31 st December 2007
JRF	Bengal Engineering and Science University, Shibpur Howrah (BESUS)	1 st January 2005	31 st December 2006
JRF	B.E. College (A.D.U.), Howrah	1 st October 2001	31 st September 2003

Honors Conferred:

- i. Awarded Ph.D. (Science) from Bengal Engineering and Science University, Shibpur, 2008.
- ii. Received the Professor Nirmal Nath Chatterjee Medal for important contribution to the knowledge to Economic Geology, from The Asiatic Society, on 3rd May, 2010.
- iii. Received the third prize by presenting paper on ‘Some Recent GIS Applications in Transportation and Logistics’ in the Annual Workshop for the Junior Scientists Meet, 2008 held on 7th March, 2008, at the Netaji Institute for Asian Studies, Kolkata.
- iv. Received the first prize by presenting paper on ‘Mapping and GIS as a tool for Environmental Management’ in the seminar organized for Young Scientists held a Netaji Institute for Asian Studies, Kolkata on 15th March, 2006 and got first prize.

Software Knowledge

ARC GIS 9.2, ERDAS 9.1, Professional, ILWIS 3.8 Academic version, Geomatica, MAP INFO 6.5., Auto CAD, GWW, *ArgusONE* modelling software (Numerical Groundwater modelling software).

Management development Program Conducted

Sl. No.	Detail
1.	3-months Post Graduate Certificate Course on groundwater development and Management at IISWBM
2.	1-month certificate course on “GIS techniques and application’s at IISWBM
3.	Training Programme on GIS (ARC GIS9.2) to the Scientist of CMFRI, Dhanbad

Laboratory setup

- Groundwater Modelling Laboratory
- Remote Sensing and GPS Laboratory