

## Sutapa Mukhopadhyay

Designation: **Professor**  
Department of Geography  
Visva-Bharati



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Date of Birth: 3<sup>rd</sup> November, 1956

**Area of specialization:** Fluvial Geomorphology

### Qualification:

Years	Degree	College/ University
1975	B.A.	Presidency College/ Calcutta University, India
1977	M.A.	Calcutta University, India
1986	Ph.D.	Calcutta University, India

### Research Interest:

- Fluvial Geomorphology
- Anthro Geo Morphology
- Environmental Geography

**Teaching Experience:** 25 years in Visva-Bharati

### Academic Awards:

- UGC Research fellow (1980-1984)
- CSIR Sr. Research fellow (1987-1990)
- CSIR Pool Scientist (1990-1993)

### Member, Professional Development Activities of Academic & Institutional bodies:

- Geographical Society of India, Kolkata.
- Indian Institute of Landscape, Ecology and Ekistics, Kolkata.
- Indian Society of Remote Sensing, Dehradun.
- Regional Science Association, Kolkata, India
- Indian Meteorological Society, Kolkata Chapter.
- Indian Institute of Geomorphologists, Allahabad, India
- Indian Geographical Foundation, Kolkata, India
- National Association for Geographers, India (NAGI), New Delhi, India
- BOS member of Department of Geography of Vidyasagar University, Medinipur, West Bengal, India
- Research Board member of Department of Geography of University of Burdwan University. West Bengal, India
- External subject expert of Directorate of Distance Education, Vidyasagar University, West Bengal, India
- Committee Member of Natural Disaster Management Cell, Visva-Bharati, West Bengal, India
- Member of Executive Council of Indian Institute of Geomorphologists, Allahabad. India
- External reviewer of international journal of Human and Ecological Risk Assessment.

- External reviewer of the International Journal of Environment, Development and Sustainability. Springer
- Principal Co-ordinate for whole day Students' Seminar on 22<sup>nd</sup> February, 2008 and on 25<sup>th</sup> February, 2009 in the Department of Geography, Visva Bharati following HLC's advice.
- Joint Organizing Secretary for Departmental Seminar in the Department of Geography Visva Bharati 2010, 2014.

### Research Experiences:

Sl No.	Year	Topic of Research	Sponsoring Agency	Gist of Research
1	1980-1984 Awarded 1986	Terrain Analysis of Kangsabati Basin and its impact on land use	U.G.C. for PhD work	Changing land use pattern in response to the geolithology character, altitudinal variation and land facets has analysed delineate the environmental problems.
2	1985-1986	Integrated Eco-development Project on River Ganga Basin	Dept. of Environment, Govt. of India	Pollution status of river Ganga from Tribeni to Budge Budge has analysed
3	1987-1990	Locational Analysis of Forest Based Industries in Southern Banduan P.S. of Purulia District, W.B.	C.S.I.R. (Sr. Fellow)	Factors of location and problems of each forest based industries have analyzed. Optimum location points have also suggested on the basis of priority component analysis.
4	22.10.90 - 15.08.93	Landform and land use pattern analysis of kopai river basin, Birbhum district of West Bengal	C.S.I.R. (Pool Officer)	Agricultural Potentiality of Kopai River basin has determined on the basis of slope character, nature of soil, land erodibility, changing form of irrigational practices, extension of flood area etc.
5	2007-2010	A Perception study on kalbaisakhi in neighbourhood of Santiniketan	D.S.T. (Co-investigator)	Changing form of kalbaisakhi has analysed on the basis of the perception study of the area. Investigations have done on the indigenous practices of the villagers used for forecasting and mitigation of the storm.
6	2010-2012	An approach to the abatement of flood hazards of Mayurakshi river basin	U.G.C. Major Project	The causes, natural and anthropogenic magnitude, extension and changing form of flood have been analysed to demarcate its spatio-temporal character. Some important geo economic measures like removal or modification of embankments, renovation of old channels, reclamation of wetlands, changing cropping pattern etc have suggested at specific locations.

### Research Projects:

1. Principal Investigator of UGC sponsored Major Research Project on '**An approach to the abatement of flood hazards of Mayurakshi River basin of West Bengal, Eastern India, through Geo – economic Management**', since March, 2010 to July, 2012.
2. Co- investigator in DST sponsored Major Research Project on '**A Perception Study on Kalbaisakhi in neighbourhood of Santiniketan**', 10.01.2007 to 09.01.2010.
3. Submitted one Major Research Project to UGC on '**Antagonistic Exposure of Flood and Ground Water Scarcity : Hydromorphological Evaluation for sustainable management in Motihari River Basin**'

## No. of PhD Scholars: 22

Sl no.	Year	Name of Scholars	Topic of Research
1	2009	Manikuntala Kanrar	A Study on the fluvio-environment of the Saraswati River Basin, West Bengal & its impact on land use.
2	2010	Swadesh Pal	An appraisal of Geoeconomic Environment of Major Wetlands within Kandi block, Murshidab District, West Bengal.
3	2012	Jayanta Gour	Fluvio-geomorphological environment in Matla-Bidyadhari interfluves of South 24 Paraganas, West Bengal, and its impact on land use.
4	2013	Hasibur Rahaman	Impact of Embankments on Geo-Economic Environment of Lower Ajoy River Basin
5	2013	Surajit Let	Spatio temporal Changes of Flood Characteristics in the Dwarka River Basin.
6	2013	Priyanka Das	Hydro-Geomorphic characteristics of Kuya River Basin in Eastern India and their impact on Agriculture and Settlement
7	2013	Abhishek Bhattacharya	Evaluation on Hydro-Geonomic Characteristics of Flood in the Mayurakshi River Basin of Eastern India.
8	2014	Krishnogopal Ghosh	Hydro-Geomorphological appraisal of Bakreshwar River Basin, Eastern India
9	2015	Sunil Saha	Spatio temporal Changes of Flood Characteristics and Agricultural Adjustment in Kunur River Basin
10	2016	Mridul Das	Hydrological and Economic assessment of Ponds in Kopai River Basin, Eastern India
11	2016	Rejaul Islam Sana	Fluvio-Geomorphological characteristics and their impact on land use in Ichhamoti-Kalindi and Dansa-Raimangal interfluves, West Bengal
12	2017	Niladri Das	Hydrological Behaviour and Socio-Economic impact of Wetlands on Labpur Block, Birbhum District
13	2017	Subhankar Chakraborty	Dynamism of Hydro-Geomorphological Environment in Jaldhaka River Basin of West Bengal and its Impact on Land use
14	2017	Abhishek Ghosh	Hydro-Geomorphic characteristics and their impact on Land use : Muriganga-Saptamukhi interfluence, Sundarban, West Bengal
15	Present	Debika Banerjee	Hydro-morphological characteristics of lower Subarnarekha Basin and their impact on Land Cover and Land use
16	Present	Dibyendu Mondal	Hydro-morphological characteristics of Jalangi River in the Moribund deltaic plain of West Bengal
17	Present	Amit Mondal	Changing Ground Water status and its impact on Agro-Economic and Health profiles in Rampurhat Subdivision of Birbhum District, West Bengal
18	Present	Payel Das	Hydro-Geomorphological characteristics and economic assessment of Wetlands in Purbasthali I and II Blocks in Burdwan District, West Bengal
19	Present	Abhijit Ghosh	Geotourism Potentiality and its impact on Economy of Purulia District
20	Present	Amiya Gopal Mondal	Changing Hydro-morphological effects on the downstream of HingloDam, West Bengal
21	Present	Biman Ghosh	Hydrogeomorphological Analysis of River bank Erosion along lower Rupnarayan River and its impact on Socio economic status of the astride Villages
22	Present	Md Kutubuddin Dhali	Morphodynamic behavior of Channel bars in Darjeeling Himalayan Piedmont Rivers, West Bengal, India

## Selective Publications:

- Vulnerability assessment through index modelling: a case study in Muriganga-Saptamukhi interfluves, Sundarban, India.** *Arabian Journal of Geosciences*. (2017). Doi: 10.1007/s12517-017-3197-4
- Process Form Responses of Shoreline Erosion using Geo-spatial Techniques: Case study in Muriganga-Saptamukhi Interfluve, Sunderban.** (2017). *Earth Science India*, Vol 10(1), ISSN:0974-8350 pp1-12
- Fluvial systems: Interruptions and Consequences.** *Practising Geographer*. (2016). Vol 20.No 2 .Foundation of Practising Geographers,Kolkata.pp1-15 ISSN 0975-3850
- Optimum Utilization of Wetlands: Rural water resource.** *Land use planning and Management*. (2016), Edited by Prof. Subhash Chandra Mukhopadhyay, and et.al Institute of Landscape Ecology and Ekistics, Kolkata. PP 59-72. ISBN-978-81-928047-6-7
- Bank erosion and its Management: Case study in Muriganga-Saptamukhi Interfluve Sunderban, India.** (2016). *Geography Review of India* Vol78 no 2 pp146-161,ISSN 0375-6386
- Flood Assessment and Plan for Sustainable Measures: Mayurakshi River Basin, West Bengal.** *Environmental Degradation and Disaster*. (2016). *A Vision Plan for Sustainable Development* Edited by Tapan Kumar Das and Kesab Mondal. Avenel Press ISBN: 978-93-80736-25-9,pp32-47
- Quantitative study of shoreline changes and erosion hazard assessment: case study in Muriganga-Saptamukhi interfluve, Sundarban, India.** (2016), *Modelling earth systems and Environment*, Vol 2, No 2, Springer, ISSN 2363-6203
- Number,size,distributionand status of ponds in Kopai river basin,Eastern India,** (2015),*International Journal of Geomatics and Geosciences*, Volume 5 No 3 pp 448-458,ISSN 0976-4380

9. **Changing Flood Intensity Zone of Dwarka River Basin in Eastern India**, (2014), *Transactions*, Vol. 36, No 1, ISSN 0970-9851
10. **An Assessment on the Nature of Channel Migration of River Daina of Sub-Himalayan West Bengal Using Field and GIS Techniques**. (2014). *Arabian Journal of Geosciences*, Springer Heidelberg, 22<sup>nd</sup> August,2014 doi:10.1007/s12517-014-1594-5 ISSN- 1866-7511.
11. **Assessment of Bank Erosion Probability: A Study on Kunur River,Eastern India** (2014) , *International Journal of Geology, Earth and Environmental Sciences*, CIBTech, 4(2):pp216-223. ISSN 2277-2081.
12. **A Comparative study on the Nature of Channel Confluence Dynamics in the Lower Jaldhaka River system**, (2014), West Bengal, India, *International Journal of Geology, Earth and Environmental Sciences*, CIBTech, 4(2):pp87-97. ISSN 2277-2081.
13. **Channel Deranging and its Impact: A study on Mayurakshi – Kuya Interfluve, Santal pargana and Birbhum District, Jharkhand and West Bengal**, (2013), *Journal of Indian Geomorphology*, Indian Institute of Geomorphologists (IGI), Volume 2. ISSN 2320-0731.
14. **Extraction and Alignment of Vegetation astride Road Network in Ward 19 & 20 of KMCA: A Micro spatial study** (2012), *International Journal of Applied Research & Studies*, Vol. I, Issue I, 2012/155 ISSN 2278-9480.
15. **Effect of sand splay on the Agro-economic status of the river astride villages of Lower Ajoy, West Bengal** (2012) *Sustainable Agriculture and Environment*, New Delhi Publishers, pp 219-236, ISBN 978-93-81274-12-5.
16. **Trend of Flood at Riverine Bengal Basin of Kandi block of Murshidabad District: A hydrogeomorphological overview** (2011), *Indian Journal of Geography and Environment* Vol 12, Vidyasagar University, Midnapur, pp09-18, ISSN 0972-7388.
17. **Changing land use pattern and its impact on wetland environment system: A justification study on Kandi Block of Murshidab district, West Bengal** (2011) *Environmental Concerns*, Published by AGROBIOS (INDIA), Jodhpur, Pp-275- 284 ISBN No. (13):978-81-7754-428-2.
18. **Changing flood character of lower Mayurakshi river basin below Tilpara Barrage: A case study** (2010) *Indian Journal of Landscape System and Ecological Studies*, Vol 33 No.1, Institute of Landscape, Ecology and Ekistics. Kolkata Pp 83-88 ISSN 0971-4170
19. **A Geo-Environmental Assesment of Flood dynamics in Lower Ajoy River Inducing Sand Splay Problem in Easter India**. (2010) *Ethiopian Journal of Environmental Studies and Management* Vol3 No2, 2010 Department of Geography and Environmental Studies, Bahir Dar University, Ethiopia Pp 96- 110, ISSN-1998-0507.
20. **Emerging Hydro-geomormorphic and Ecological Problems in Barul wetland within Ajay River Basin, West Bengal** (2010) *Indian Journal of Geomorphology*, Volume 15(1+2), Indian Institute of Geomorphologists, Allahabad University, pp81-92 ISSN: 0973-2411
21. **Potential ground water layer detection and water quality assessment: A study on Kandi block of Murshidabad district, West Bengal** (2010) *Journal of Applied Hydrology* Vol XXIII, No 3&4, Association of Hydrologists of India, Andra University, ISSN 0971-670X pp 19-27.
22. **Healing touch of wetlands on climate change problems: A review on holistic Potentiality** (2010) *Proceedings of international conference on global climate change*, Centre for Environmental Studies, Institute of Science, Visva Bharati Pp 196-207.
23. **Impact of Tilpara Barrage on the environment of Mayurakshi confluence** (2009) *Indian Journal of Geomorphology*, Vol 13+14, Allahabad, pp 178-187. ISSN: 0973-2411
24. **Sandsplay as a Disaster in the lower Ajay river basins of Eastern India** (2009) *Eastern Geographer*, Vol XV, No.1, , Utkal University, Bhubaneswar, pp 49- 54 ISSN 0973-7642.
25. **Determinants and Reclamation of Wasteland: A study of Kopai River Basin In Birbhum District** (2008) *Perspectives in Resource Management in Developing Countries* (Vol. 3), Concept Publishing Co. New Delhi. pp 52 – 62.
26. **Changing Man land Ratio affecting the land use trend: A case study in an age old river basin of lower West Bengal** (2008) *Eastern Geographer*, Vol14, Dept. of Geography, Utkal University, Bhubaneswar.
27. **Granulometry of soil, climatic panorama and spatio temporal dynamics of soil erosion of Santiniketan badland-A parametric statistical approach** (2008) *Indian Journal of Landscape System and Ecological Studies*, Vol 31 No.1, Institute of Landscape, Ecology and Ekistics. Kolkata pp 185-194
28. **Abandoned Channels: Product of River Bank Erosion** (2008) *River Bank Erosion and Land loss*. Ed. Volume Pub. By Visva Bharati, Kolkata, ,pp 93 – 103.
29. **Bank Erosion of River Ganga, Eastern India – A Threat to Environmental System Management** (2007) Published by Le Geo Congress International (www. Quebec 2007. ca/pdf/salle 204a/séance 21/articles/s\_mukhopadhyay.pdf)
30. **Hydrological Characteristics of Flood: A Study in the Lower Ajoy River** (2005) *River Floods; A Socio Technical Approach* (Edited Volume). acb Publication Kolkata. pp 51-58.
31. **Fluvio Geomorph Environment of Sundarbans: An Overview** (2005) *Sundarban, Problems and Prospects* (Edited Volume) acb Publication Kolkata., pp 59-68.
32. **Evolution of Saraswati River Basin, West Bengal.** *Indian Journal of Landscape system and Ecological Studies* (2005) Institute of Landcape, Ecology and Ekistics. kolkata, Vol 28 No 2, pp174-178.
33. **Women Empowerment and Status in Joint Forest Management** (2003) *Conditioning and Empowerment* (Edited Volume) Gyan Publishing House, New Delhi., pp 217-224.
34. **River Bank Erosion and Land Degradation: A Study on River Ganga** (2003) *Land Degradation and Desertification* (Edited Volume). Rawat Publication, New Delhi. pp 366-373.
35. **An Approach to the Revival of Derelict Water Resources** (2002) *Proceedings of International Conference of WEDC*, Kolkata. pp 408-410.

36. **Changing River Valley Forms of the Duars area of North Bengal** (2002) Journal of Landscape Ecology and Ekistics Kolkata. Vol.25 No.2, pp 57-64.
37. **Geomorphological Significance of Changing River course, Case Study of Kopai Nadi, West Bengal** (2000) Geomorphology and Remote Sensing. (Edited Volume) acb Publication, Kolkata, pp 167-172.

### **Book Publications:**

1. **Bhugoler Abhidhan (Geographical Dictionary)** (2013), acb Publications, Kolkata, ISBN 978-81-932768-7-7
2. **Dynamic Fluvio-geomorphological Environment of Indian Sundarbans** (2012), Lambert Academic Publishing, Germany, ISBN 978-3-8443-1370-3.
3. **Advanced River Geography** (2010), acb Publications Kolkata, ISBN 81-87500-33-6.
4. **Study of River pollution, Same examples from Eastern India** (2006), acb Publications Kolkata, ISBN 81-87500-39-5
5. **Terrain Analysis & its impact on Land use** (1992), Vohra Publishers, Allahabad, ISBN 81-85072-74-4

### **Community Work:**

As a Secretary (2002-2005) & Vice-President since 2006 of Santiniketan based NGO Akhil Bharat Bhuidya O Paribesh Samity, formulated mostly by the teachers & students of Visva-Bharati.

- a. Organized environment awareness camp with school children villages of Illumbazar forest area on the use of domestic and drinking water as a part of **NEAC programmed of Central Govt.** (2003).
- b. Organized workshop & training on the '**Indeginous Pest Management**' at village Dholla at Illumbazar as a part of Participatory Environment Management Project of **Dept. of Environment West Bengal** (2003)
- c. Establishment of a night supplementary study centre for the tribal children of Morgaboni of Chowpahari forest area of Illumbazar (2004)
- d. Flood relief programme in some villages namely Rajatpur, Gitgram, Mohul etc. along river Ajoy in the year 2005.