

DEBASIS GHOSH

Associate Professor

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EDUCATION

Exams. Passed	Board/University	Year	Division/ Class	Other information
S.F. or Equivalent	W.B.B.S.E	1991	First	
H.S. or Equivalent	W.B.C.H.S.E	1993	First	
Bachelor's Degree Geography(Hons)	Burdwan University	1996	First	2nd in 1st Class
Master's Degree In Geography	Burdwan University	1998	First	1st in 1st Class, Gold Medal
Research Degree (Ph.D)	Burdwan University	2008	—	Awarded on 15th Jan 2008
Others (Diploma/ Certificate etc)	(a) R.R.S.S.C, Kharagpur, IIT Campus (b) D.S.T, Govt of West Bengal	2000 2009	—	—

SPECIALISATION

Soil Geography, Environmental Issues in Geography, Fluvial Geomorphology

TEACHING EXPERIENCE

From	To	At	Designation	Duration
01-02-1999	21-07-2003	Bhanderdihi P.B.Vidyamandir, Burdwan	Assistant Teacher	4 years & 6 months
22-07-2003	30-08-2012	Kandra Radhakanta Kundu Mahavidyalay, Burdwan	Asst.Prof. in Geography and Head of the Dept. of Geography	9 years & 1 month
31-08-2012	03-11-2015	Sidho-Kanho-Birsha University, Purulia, WB	Asst.Prof. in Geography (Stage-2)	3 years & 2 months
04-11-2015	14-01-2016	University of Calcutta, Kolkata, WB	Asst.Prof. in Geography (Stage-3)	3 months
15-01-2016	Till date	University of Calcutta, Kolkata, WB	Associate Prof. of Geography	

RESEARCH EXPERIENCE:

Actively engaged in research for the last 15 years after Ph.D

Title of the work/Thesis: *Environmental Appraisal of Bank Erosion of the Ganga in Malda and Murshidabad Districts, West Bengal*

The Ph.D work involves applied fluvial geomorphological work using RS/GIS techniques where a digital data base of bank erosion and deposition has been created up to Village (Mouza) level. The work also involves assessing change detection of the river Ganga and its plan form for the last 225 years within West Bengal.

Present Work: [Fluvial geomorphology and sedimentology](#); [Weathering History](#) of Western West Bengal. [Paleo-environmental](#) condition and evolution history mainly in areas of Cratonic West Bengal.

RESEARCH PROJECT

Title of the Project	Funding Agency	Sanctioned amount	Tenure
“Mouza Level Digital Data Base Generation of Bank Erosion by the River Bhagirathi in Burdwan District”	University Grants Commission	Rs. 1,27,500/	2 Years
Analysis and Assessment Environmental Impact of River Bed Mining at Regional Scale: Case Study along Ajay and Dwarakeswar River, West Bengal.	UPE-II, CalCutta University	Rs. 10,00,000/-	2 Years (2018-2020)
Research Consultancy Project (Ernest & Young) for the Preparation of UG Level- CBCS Syllabus for Govt. of West Bengal	Ernest & Young New Delhi	Rs. 40,000/-	2016

RESEARCH GUIDANCE

RESEARCH SCHOLAR NAME	THESIS TITLE	REMARK
SAMBIT SHEET	HYDROGEOMORPHOLOGY OF THE LOWER DAMODAR BASIN, WEST BENGAL	AWARDED
MRINAL MANDAL	A GEOGRAPHICAL ANALYSIS OF MALNUTRITION IN PURULIA DISTRICT, WEST BENGAL	AWARDED
ASRAFUL ALAM	FLUVIAL GEOMORPHOLOGY AND WATER RESOURCE MANAGMENT IN LOWER MAYURAKSHI BASIN, WEST BENGAL	Working Since
PIYALI SINGHA	IMPACT OF PHYSICAL LANDSCAPE ON AGRICULTURE OF UTTAR DINAJPUR DISTRICT, WEST BENGAL	Working Since
MONALI BANERJEE	MORPHOLOGICAL AND SEDIMENTOLOGICAL CHARACTERISTICS OF A MIXED BEDROCK-ALLUVIAL RIVER CHANNEL IN CRATONIC FRINGE REGION: A STUDY OF DWARAKESWAR RIVER SYSTEM, WEST BENGAL	AWARDED
DAYAMOY MANDAL	GEOMORPHOLOGY OF THE KUMARI BASIN AND ITS RELATION WITH THE HUMAN SYSTEM	Working Since
MANAS KARMAKAR	GEOMORPHOLOGY AND ASSOCIATED RESOURCE POTENTIAL OF SUBARNAREKHA-KANGSABATI INTERFLUVE REGION, JHARKHAND AND WEST BENGAL	Working Since

ADMINISTRATIVE EXPERIENCE

Currently, the member of the PhD Research Advisory Committee, Department of Geography, Calcutta University

Worked as the Head of the Department of Geography, Calcutta University from Sep 2020 to Sep 2022

Performed the duty of the member of the UG, BoS, Dept. of Geography, University of Calcutta

Performed the duty of the member of the PG, BoS, Dept. of Geography, University of Calcutta

Coordinators Ph.D Course Work 2019, Dept. of Geography, University of Calcutta

Performed the duty as coordinator in Refresher Course in Geography 2019, Dept. of Geography, University of Calcutta

Publication

1. Tamang, L., Mandal, U. K., Karmakar, M., Banerjee, M., & **Ghosh, D.** (2022). Geomorphosite evaluation for geotourism development using geosite assessment model (Gam): A study from a Proterozoic terrain in eastern India. *International Journal of Geoheritage and Parks*, S2577444122000855. <https://doi.org/10.1016/j.ijgeop.2022.12.001>
2. Karmakar, M., Banerjee, M., & **Ghosh, D.** (2022). Evaluation of micro-weathering index and weathering grade of diverse geomorphic features of proterozoic terrain applying Schmidt hammer. *Physical Geography*, 1–18. <https://doi.org/10.1080/02723646.2022.2082352>
3. **Ghosh, D.**, Sheet, S., Banerjee, M., Karmakar, M., & Mandal, M. (2022). Flood characteristics and dynamics of sediment environment during Anthropocene: Experience of the lower Damodar river, India. *Sustainable Water Resources Management*, 8(2), 58. <https://doi.org/10.1007/s40899-022-00644-x>
4. Karmakar, M., & **Ghosh, D.** (2022). A GIS-based approach for identification of optimum runoff harvesting sites and storage estimation: A study from Subarnarekha-Kangsabati Interfluve, India. *Applied Geomatics*, 14(2), 253–266. <https://doi.org/10.1007/s12518-022-00433-3>

5. **Ghosh, D.**, Banerjee, M., Pal, S., & Mandal, M. (2022). Spatio-temporal variation of channel migration and vulnerability assessment: A case study of bhagirathi river within barddhaman district, west bengal, india. In P. K. Shit, B. Bera, A. Islam, S. Ghosh, & G. S. Bhunia (Eds.), *Drainage Basin Dynamics* (pp. 305–330). Springer International Publishing. https://doi.org/10.1007/978-3-030-79634-1_14
6. **Ghosh, D.**, Banerjee, M., Karmakar, M., & Mandal, D. (2022). Application of geoinformatics and ahp technique to delineate flood susceptibility zone: A case study of silabati river basin, west bengal, india. In P. K. Shit, H. R. Pourghasemi, G. S. Bhunia, P. Das, & A. Narsimha (Eds.), *Geospatial Technology for Environmental Hazards* (pp. 97–130). Springer International Publishing. https://doi.org/10.1007/978-3-030-75197-5_6
7. Banerjee, M., **Ghosh, D.**, & Mandal, M. (2021). Analysis of current direction in a tropical fluvial system: A study of Ajay river basin within West Bengal, India. *Journal of Earth System Science*, 130(1), 9. <https://doi.org/10.1007/s12040-020-01520-y>
8. Banerjee, M., **Ghosh, D.**, Pal, S., & Karmakar, M. (2021). Geomorphic assessment of longitudinal profile of the Kanchi river basin, India: Recognition of dynamic equilibrium condition. *Physical Geography*, 1–24. <https://doi.org/10.1080/02723646.2021.1978139>
9. **Ghosh, D.**, Mandal, M., Karmakar, M., Mandal, D., Modak, P., Ghosh, B., Mandi, S., & Haque, Sk. M. (2021). The prevalence of undernutrition among the Santal children and quality of life of their households: A study from hilly region of West Bengal, India. *Spatial Information Research*, 29(5), 775–789. <https://doi.org/10.1007/s41324-021-00391-9>
10. Karmakar, M., Banerjee, M., Mandal, M., & **Ghosh, D.** (2021). Application of ahp for groundwater potential zones mapping in plateau fringe terrain: Study from western province of west bengal. In P. K. Shit, G. S. Bhunia, P. P. Adhikary, & Ch. J. Dash (Eds.), *Groundwater and Society* (pp. 189–219). Springer International Publishing. https://doi.org/10.1007/978-3-030-64136-8_9

11. **Ghosh, D.**, Karmakar, M., Banerjee, M., & Mandal, M. (2021). Application of geospatial technology and plant diversity indices to assess the temporal change of forest covers across the Ajodhya Hills of West Bengal, India. In *Forest Resources Resilience and Conflicts* (pp. 139–151). Elsevier. <https://doi.org/10.1016/B978-0-12-822931-6.00010-1>
12. **Ghosh, D.**, Karmakar, M., Banerjee, M., & Mandal, M. (2021). Evaluating the rate of change and predicting the future scenario of spatial pattern using Markov chain model: A study from Baghmundi C.D. Block of Purulia district, West Bengal. *Applied Geomatics*, 13(2), 249–260. <https://doi.org/10.1007/s12518-020-00345-0>
13. **Ghosh, D.**, Mandal, M., Banerjee, M., & Karmakar, M. (2020). Impact of hydro-geological environment on availability of groundwater using analytical hierarchy process (Ahp) and geospatial techniques: A study from the upper Kangsabati river basin. *Groundwater for Sustainable Development*, 11, 100419. <https://doi.org/10.1016/j.gsd.2020.100419>
14. Mandal, M., & **Ghosh, D.** (2020). Education in the bankura district, west bengal. In S. Bandyopadhyay, C. R. Pathak, & T. P. Dentinho (Eds.), *Urbanization and Regional Sustainability in South Asia* (pp. 231–241). Springer International Publishing. https://doi.org/10.1007/978-3-030-23796-7_14
15. **Ghosh, D.**, Mandal, M., Karmakar, M., Banerjee, M., & Mandal, D. (2020). Application of geospatial technology for delineating groundwater potential zones in the Gandheswari watershed, West Bengal. *Sustainable Water Resources Management*, 6(1), 14. <https://doi.org/10.1007/s40899-020-00372-0>
16. Chatterjee, S., & **Ghosh, D.** (2019). Geological Evolution of Cratonic West Bengal: A Review. *Geographical Review of India*, 81(3), 284–293.
17. Mandal, M., & **Ghosh, D.** (2019). Undernutrition Level Among the Children Under 5 Years Age in Arsha Community Development Block of Purulia District, West Bengal. *Indian Journal of Landscape Systems and Ecological Studies*, 42(2), 42–63.

18. **Ghosh, D.**, Banerjee, M., Mandal, M., & Bandyopadhyay, S. (2018). Morphometric Evaluation using Geospatial Technology in the Kunur River Basin of West Bengal. *Journal of Indian Geomorphology*, 6, 42–54.
19. Mandal, M., **Ghosh, D.**, Banerjee, M., & Bandyopadhyay, S. (2018). Downstream variation in bed sediment size and sorting along the Dwarakeswar River in West Bengal, India. *Geographical Review of India*, 19(2), 122–140.
20. **Ghosh, D.**, Modak, P., Karmakar, M., & Mrinal, Mandal. (2018). Tribal People of Purulia and their Quality of Life. *Eastern Geographer*, XXIV(1), 126–135.
21. Mandal, M., Modak, P., Karmakar, M., Mandal, D., Mandi, S., & **Ghosh, D.** (2018). Educational Attainment of Tribal People: A Case Study in Ajodhya Gram Panchayat of Baghmundi C.D. Block in Purulia District. *Indian Journal of Landscape Systems and Ecological Studies*, 41(2), 105–111.
22. **Ghosh, D.**, & Mandal, M. (2018). Scenario of Bankura District, West Bengal: A Geographical Interpretation of Primary Education. In *Environmental Geography and sustainable Society*.
23. **Ghosh, D.**, Mandal, M., Karmakar, M., & Modak, P. (2017). Nutrition and child health: Peeping at the hilly tract of jangalmahal area of purulia. In *Food Security & Urbanization Equilibrium*.
24. Mandal, M., **Ghosh, D.**, & Ghosh, B. (2016). Environmental Impact of Sand Mining: A Case Study Along the Lower Reaches of Ajay River, West Bengal, India, . *Journal of Environment and Sociobiology (CEBA)*, 13(01), 99–108.
25. **Ghosh, D.**, Mandal, M., & Banerjee, M. (2016). Nature of Rugged Microtopography: A Case Study Along ‘Erra Matti Dibbalu’, Visakhapatnam. In *Environment, People and Management: A Developmental Perspective* (1st ed., pp. 251–263). Renu Publishers

26. **Ghosh, D.**, & Mandal, M. (2016). Primary Education of Purulia District, West Bengal: A Geographical Enquiry. *Practising Geographer*, 20(1), 105–115.
27. **Ghosh, D.**, & Mandal, M. (2016b). Spatial Analysis of Higher Secondary Education of Birbhum District, West Bengal . In *Education in Twenty First Century* (pp. 36–45). A.P.H. Publishing Corporation.
28. **Ghosh, D.**, & Mandal, M. (2015). Spatial Analysis of Healthcare Facility: A Block Level Study of Bankura District, West Bengal. *Journal of Interacademia*, 19(4), 558–567.
29. **Ghosh, D.**, & Mandal, M. (2015). Spatial Analysis of Facility of Secondary Education: A Case Study of Birbhum District, West Bengal. *International Journal of Multidisciplinary Educational Research*, 4(9(3)), 79–88.
30. Mandal, M., & **Ghosh, D.** (2015). Spatial Analysis of Health Care Facility: A Block Level Study in Birbhum District, West Bengal. *Journal of Environment and Sociobiology (CEBA)*, 12(2), 191–200.
31. **Ghosh, D.**, Mandal, M., & Banerjee, M. (2015). Environmental Impact of Embankment Breaching: A Case Study Along Lower Reaches of Ajay River, West Bengal, India. *International Journal of Arts, Humanities, Management Studies*, 1(9), 44–54.
32. Mandal, M., **Ghosh, D.**, & Ghosh, B. (2015). Spatial Analysis of Health Care Facility: A Block Level Study in Purulia District, West Bengal. *International Journal of Innovative Research & Development*, 9(II), 295–300
33. **Ghosh, D.**, Mandal, M., & Banerjee, M. (2015). The Influence of Physio-Chemical Process in Response to Both Gully Erosion and Microtopography Formation near Beemunipatnam Badland Areas, Visakhapatnam, Andhra Pradesh. *Practising Geographer*, 19(2), 23–37.

34. **Ghosh, D.**, & Mandal, M. (2015a). Status of Higher Secondary Education in Purulia District of West Bengal. *Eduquest*, 4(II), 79–88.
35. **Ghosh, D.**, & Mandal, M. (2015c). Spatial analysis of facility of higher secondary education of bankura district, west bengal: A geographical enquiry. *Journal of Interacademia*, 19(4), 558–567.
36. **Ghosh, D.**, & Mandal, M. (2015e). Spatial Analysis of Facility of Higher Secondary Education of Bankura District, West Bengal: A Geographical Enquiry. *Journal of Interacademia*, 19(4), 558–567.
37. Bandyopadhyay, S., Sinha, S., Jana, N. C., & **Ghosh, D.** (2014). Entropy application to evaluate the stability of landscape in Kunur River Basin, West Bengal, India. *Current Science*, 107(11), 1842-1853 (12 pages).
38. **Ghosh, D.**, et al. (2011). Spatio-Temporal Growth and Socio-Economic Status of Slum Dwellers: A case study of Bilaspur City, Chhattisgarh, India. *Practising Geographer*, 15(1), 281–292.
39. **Ghosh, D.**, et al. (2011). Tourism in Chhattisgarh: Potentiality, Problems and Strategies for Development. *Institute of Landscape, Ecology & Ekistics*, 34(1), 513–524.
40. **Ghosh, D.**, et al. (2011). Solid waste disposal, environmental problems, management status and remedial measures in the barddhaman municipal town, west bengal. *Practising Geographer*, 15(1), 307–318.
41. **Ghosh, D.**, et al. (2011). Nature and Cause of Water Crisis in Asansol Municipal Corporation, West Bengal . *Practising Geographer*, 15(2), 69–84.

42. **Ghosh, D.,** et al. (2011). A Systematic Review of Nature and Cause of Poverty of Slum Dwellers: A case study of Bilaspur City, Chhattisgarh, India. *Institute of Landscape, Ecology & Ekistics* , 2, 603–612.
43. **Ghosh, D.,** et al. (2010). Brick fields and their impact on ambient environment: A case study at barddhaman-ii c. D. Block, wb. *Institute of Landscape, Ecology & Ekistics*, 33(2), 309–318.
44. **Ghosh, D.,** et al. (2010). Brick-kilns agglomeration adjacent to barddhaman town: A geographical inquiry. *Geographical Review of India*, 29–39.