Dr. Ranajit Ghosh

Designation	**:** State Aided College Teacher (Category-I) in Geography
Residential Address	**:** Vill.- Chaturbhujpur, P.O.- Kazipara, Dist.- Birbhum, PIN- 731304
Official Address	**:** Suri Vidyasagar College, Dept. of Geography, Suri, Birbhum, PIN- 731101
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Qualification	**:** M.A., Ph.D.

Topic of the Ph.D. Thesis: Multidimensional Poverty and its Determinants in Suri Sadar Sub-Division of Birbhum District, West Bengal

Specialisation During PG Level: Fluvial Geomorphology

Research Interest:

- Integration of geospatial and statistical techniques in socio-economic and poverty-related studies
- Groundwater potential, quality, and vulnerability assessment
- Land use/land cover change analysis and its impact on urban planning and climate change
- Environmental quality and air pollution related studies
- Flood susceptibility and risk management

Areas of Teaching: Geotectonics and Geomorphology, Cartographic Techniques and Geological Map Study, Statistical Methods in Geography, Regional Planning and Development, Economic Geography, Research Methodology and Field Work, Remote Sensing and GIS, Disaster Management, Computer Basics and Computer Applications, Advanced Spatial Statistical Techniques, Population Geography, Fluvial Geomorphology, Soil and Bio-Geography, Agricultural Geography.

Teaching Experience: 6 years, 4 months.

1. State Aided College Teacher (01.01.2020 to till date) in Department of Geography, Suri Vidyasagar College, Suri, Birbhum, West Bengal, India.
2. Guest Teacher (07.08.2018 to 31.12.2019) in Department of Geography, Suri Vidyasagar College, Suri, Birbhum, West Bengal, India.

Administrative Experience: 1 years, 5 months

H.O.D.: Department of Geography, Suri Vidyasagar College, Suri, Birbhum, West Bengal, India. (From 01.11.2020 to 31.03.2022)

LIST OF PUBLICATIONS:

[A] Chapter in a Book:

i. Applicability of Geospatial Technology, Weight of Evidence, and Multilayer Perceptron Methods for Groundwater Management: A Geoscientific Study on Birbhum District, West Bengal, India. In: Shit P.K., Bhunia G.S., Adhikary

P.P., Dash C.J. (eds) Groundwater and Society. Springer, Cham. Pp – 473-499,March 2021, ISBN - 978-3-030-64136-8, DOI: https://doi.org/10.1007/978-3-030-64136-8_22

ii. Identification of Groundwater Potential Zones Using Multi-influencing Factors (MIF) Technique: A Geospatial Study on Purba Bardhaman District of India. In: Adhikary P.P., Shit P.K., Santra P., Bhunia G.S., Tiwari A.K., Chaudhary B.S. (eds) Geostatistics and Geospatial Technologies for Groundwater Resources in India. Springer Hydrogeology. Springer, Cham. Pp – 193-213, March 2021, ISBN -978-3-030-62397-5, DOI: https://doi.org/10.1007/978-3-030-62397-5_10

iii. Assessment of Groundwater Quality in Bankura District: A Multivariate Statistical Approach, In: Haque Sk. Mafizul (eds) ISSUES IN RESOURCE UTILIZATION, Edited Volume ISBN 978-9388207-30-0, 2019,

iv. Assessment of spatial pattern of groundwater recharge potential zones for watershed management: a study on Kuya River Basin, Eastern India. In: Pal S.C., Roy S.S., Saha A., Abioui M. (eds) Developments in Environmental Science, 16, Pp 387-413, 2024, ISSN 1474-8177, ISBN 9780443236655, https://doi.org/10.1016/B978-0-443-23665-5.00016-8

[B] Research Papers:

International:

i. Identification of Determinant Factors for the Development of C.D. Blocks in Birbhum District: A Multivariate Statistical Approach, *Online International Interdisciplinary Research Journal, ISSN - 2249 – 9598*, Maharashtra; Vol. -8/ Issue - 06/ Sept-Oct 2018

ii. Assessment of the quality of the health in Rural Areas of Purba Bardhaman District, West Bengal, India: A quantitative approach, *Research Journal of Humanities and Social Sciences, ISSN (Online) - 0975 – 6795 & ISSN (Print) - 2321 – 5828*, A and V Publications, Raipur, Chattishgarh, Vol.- 9/ Issue – 4/ Oct-Dec. 2018

iii. Groundwater quality assessment using multivariate statistical technique and hydro-chemical facies in Birbhum District, West Bengal, India, SN Appl. Sci. 1, 825 (2019). https://doi.org/10.1007/s42452-019-0841-5

iv. Assessment of variation of land use/land cover and its impact on land surface temperature of Asansol subdivision. The Egyptian Journal of Remote Sensing and Space Science, Available online 15 May 2020.https://doi.org/10.1016/j.ejrs.2020.05.001

v. Application of DRASTIC model for assessing groundwater vulnerability: a study on Birbhum district, West Bengal, India. Model. Earth Syst. Environ. (2020). https://doi.org/10.1007/s40808-020-01047-7

vi. The response of groundwater to multiple concerning drivers and its future: a study on Birbhum District, West Bengal, India. Appl Water Sci 11, 79 (2021). https://doi.org/10.1007/s13201-021-01410-8

vii. Asymmetric nexus between air quality index and nationwide lockdown for COVID-19 pandemic in a part of Kolkata metropolitan, India, Urban Climate,

Volume 36, 2021, 100789, ISSN 2212-0955, https://doi.org/10.1016/j.uclim.2021.100789

viii. Explanation of major determinants of poverty using multivariate statistical approach and spatial technology: a case study on Birbhum district, West Bengal, India, GeoJournal, Published online on 17 November, 2022, https://doi.org/10.1007/s10708-022-10774-6

ix. A comparative evaluation of GIS based flood susceptibility models: a case of Kopai river basin, Eastern India, Arab J Geosci 16, 591 (2023). https://doi.org/10.1007/s12517-023-11693-716

x. Spatial transformation of land use and land cover and identification of hotspots using geospatial technology: a case of major industrial zone of eastern India, Environ Monit Assess 196, 69 (2023). https://doi.org/10.1007/s10661-023-12214-5

xi. Unveiling the Complex Facets of Poverty: Unidimensional and Multidimensional Insights from Rural Areas of Suri Sadar Sub-Division, Birbhum District, Eastern India. Societies, 14, 54 (2024). https://doi.org/10.3390/soc14040054

[C] Paper Presented in conferences (International and National):

i. Presented a paper entitled "The spatial variation of agro-ecological characteristics and its impact on poverty in Suri Sadar Sub-division of Birbhum District, West Bengal" in One Day International Seminar on "Emerging Trends in Biological Science, Department of Botany, Suri Vidyasagar College, 2022.

ii. Presented a paper entitled "Identification of poverty hotspots and associated determinants for stimulating economic growth using geospatial technology: A study on Suri Sadar subdivision, Birbhum district" in a one-day International Seminar on "Geographical Information System & Economic Development", in Katwa College, Katwa, Purba Bardhaman, 2023.