

DR. SARMISTHA ROY CHOWDHURY



General Information:

Department: Education
Designation: Assistant Professor, HoD
Qualification: Ph.D. in Geography, 2014 (Calcutta University), PG Diploma in RS & GIS. (2007) from Jadavpur University M.Sc. (2004) in Geography (Calcutta University) B.Sc. (2002) in Geography (Calcutta University) UGC NET in Geography
Area of Specialization: Geomorphology, Regional Geography, Climatology, Philosophy of Geography, Hydrology
Email: geosarmistha@gmail.com

Teaching Experience:

Vivekananda College, West Bengal State University (2005-2006)

Surendranath College, Calcutta University (2006-2017)

Dum Dum Motijheel Rabindra Mahavidyalaya, West Bengal State University
(25.05.2017 till date)

Research:

1. Ph.D. Land And Water Resources Of Kharsothi And Its Adjoining River Basins In Eastern Singbhum District, Jharkhand And Paschim Medinipur District, West Bengal, Calcutta University

Publication:

Chapter in a Book /Articles in Edited Volumes:

1. Assessment of ground water resources of Kharsothi river basin, East Singhbhum and West Medinipur district, Jharkhand and West Bengal, Published in edited book "contemporary issues on environment and development in India and adjacent countries" September 2013 by Kalyani Mahavidyalaya.
2. Evaluating the Progress of Pradhan Mantri Gram Sadak Yojana in West Bengal: a case Study" published in national seminar proceedings December 2014 by Institute of Landscape, Ecology and Ekistics in collaboration of Department of Geography, University of Calcutta.Pp:459-464, ISBN: 978-81-928047-4-3. December,2014
3. Need for Sustainable Management of Natural Landscape in the Subarnarekha Basin., edited book., 'Geo-environmental Issues of the New Millennium', 2019

Articles in Journals/ E – journals:

1. "Watershed mapping and management approaches in the light of Remote sensing and GIS application: A case study of upper Jaldhaka River, Jalpaiguri and Bhutan" Published by Institute of Landscape, Ecology and Ekistics, on Indian Journal of ILEE (Kolkata) December 2008, Vol. 31, No.2, pp 133-146.
2. "Morphometric analysis of Kharsothi river basin in East Singhbhum District, Jharkhand using Remote sensing and GIS techniques" Published by Institute of Landscape, Ecology and Ekistics, on Indian Journal of ILEE (Kolkata) December 2009, Vol. 32, No.2, pp 475-486.
3. "Hydrogeomorphological mapping of Kharsothi river basin, East Singhbhum and West Medinipur district, Jharkhand and West Bengal". Joint paper Published in Victorian Journal of Arts, Vol-IV.No.1, Pp.37-43, ISSN 0975- 5632
4. "Need for sustainable water resource management in Kharsothi basin: A case study" Published by Institute of Landscape, Ecology and Ekistics, on Indian Journal of ILEE (Kolkata) June 2012, Vol. 35, No.1, pp 679-686.
5. Assessment of water Resource of Kharsothi river basin: A case study paper Published in Victorian Journal of Arts, Vol-VI.No.1, Pp.60-72, ISSN 0975-5632, September 2013.
6. Estimation of soil loss in Kharsothi River Basin : A case study " published in international seminar book " Proceedings of International Seminar on Environmental Perspectives And Resource Management" Dec 2014 by Institute of landscape, Ecology and Ekistics in collaboration of Department of Geography, University of Calcutta Pp: 459-464, ISBN: 978-81-928047-4-3
7. Modeling Of Land Use And Land Cover Dynamics Using Remote Sensing And GIS Of Kalimpong Municipality, West Bengal, in the journal of Geographical Review of India published by The Geographical Society of India, Kolkata Vol-2, ISSN:0375-6386, June 2021

Paper Presentations/ Invited Lectures:

1. "Causes and impact of flashflood – A case study of Kharsothi and its adjoining river basins ", XXXth Indian Geography Congress on the Planet Earth, a Blue Print For Survival, Department Of Geography Allahabad University, December 19-21,2008.

2. "Study of the Status of man –environment relations with special emphasis on changing land use pattern and its impact through the Remote Sensing and GIS-a case of Kharsothi River". XXII Annual Conference of the Indian Institute of Geomorphology (IGI) and National Conference on Man-Environment Relation: A Vision Plan for Green Earth. Department of Geography, University of Allahabad, October 29st to 31st, 2009
3. "Watershed analysis and management through Remote Sensing and Gis : A case study of the Upper Jaldhaka Watershed". International Conference on Environment, Resource and Regional Development. Department of Geography, University of Burdwan. March 8-9, 2010.
4. "Multi Hazard Mapping and Management Plan: A Case Study of Bhadrak District, Orissa. National Seminar on Natural Resource Management" under UGC-DRS (SAP-I) Programme, Department of Geography, University of Calcutta. March 10-11, 2011
5. "Hydrogeomorphology & land potential in Kharsothi Basin East Singhbhum, & West Medinipur". National Seminar on Applied Geography: Issues and Techniques, Department of Geography, University of Calcutta. January 14-15, 2011.
6. "Quantification of Land degradation using Remote Sensing and GIS: A Case Study of Kharsothi and its adjoining River Basins, Jharkhand and West Bengal" 35th Indian Geographers meet and International Conference, department of geography, Burdwan University. November 11-13, 2013
7. "Modeling of Soil Erosion Vulnerability Using Remote Sensing and GIS: A Case Study of Kharsothi and its adjoining River Basins Jharkhand and West Bengal " National Seminar on Remote Sensing & Environment, Organized by SOS, JU and Council and Department of S & T Sponsored by Govt. Of West Bengal, 20-22 Mar 2014.
8. "Application of Remote Sensing and GIS techniques to assess the vulnerability of land degradation: A Case study of Kharsothi and its adjoining River Basins, Jharkhand and West Bengal " Annual Conference of the Indian Institute of Geomorphology (IGI) and National cum International Seminar on Geomorphology and Geospatial Technology in Environment Management and Social Development, jointly organized by Department of Geography and Environmental Management & Department Of Remote Sensing and GIS, Vidyasagar University, Medinipur 14-17 Nov -2014
9. "Estimation of soil loss in Kharsothi River Basin: A Case study" International Seminar on Environmental Perspectives and Resource Management, Organized by Institute Of Landscape, Ecology and Ekistics in collaboration of Department of Geography, University Of Calcutta 19 - 20 Dec 2014.
10. "Kavi Nazrul Bougolik Chintadhara" UGC sponsored National Seminar on KAZI NAZRUL CHARCHA: SAMAKALER PREKSHITE PHIRE DEKHA, Organized by Department of Bengali, Taki Government College in collaboration with Manbhum Mahavidyalaya on 06-7th September, 2016
11. Linkage between climate change and agricultural land use dynamics of kharsothi and its adjoining river basin, jharkhand and west bengal, presented in national seminar on Land use Planning and Management, organized by Institute of Landscape, Ecology and Ekistics in collaboration of Department of Geography, University of Calcutta, on 28-29th September 2016

12. Technological innovations for expansion of learning space-a multidimensional approach, International Seminar at Union Christian Training College on 9th and 10th March, 2018
13. Dynamics of Landscape Ecological Characteristics of River Subarnarekha, International conference on Environment, Development & Livelihood at The Dept. of Geography & IQAC, South Calcutta Girls' College, on 22nd and 23rd February, 2019
14. Impact of urbanisation on the landscape ecology of the Subarnarekha basin, ICSSR-ERC Sponsored National Seminar on Sustainable urbanization in east India: present trends and future concerns, at Siliguri Mahila Mahabidyalaya, March 9-10, 2019
15. Status of Water quality in the Educational Institutions of District North 24 Parganas, West Bengal, International Conference on Sustainable Water Resources Management under Changed Climate at Jadavpur University and organised by the School of Water Resources Engineering, on and from 13th March 2020 to 15th March 2020
16. 'Assessment of Changing Landscape Ecology of the Subarnarekha Basin: Challenges and Management' in 32nd Conference of Indian Institute of Geomorphologists(IGI) on "Geomorphology for Human Adaptation to Changing Environment" organized by the Department of Geography, West Bengal State University (WBSU), Barasat, WB, from 21 – 23rd January, 2021
17. "Climate Variability and Landslides of the Kalimpong Hills, West Bengal". At Two Day's International Seminar on Sustainable Development: Issues, Prospects and Challenges organised by the Department of Education, Jadavpur University on 17-18 August,2022.
18. "Impact Of Changing Climate On Water Resource Availability Of The Kalimpong Municipality, West Bengal "in Two-Day International Seminar on Climate Change: Environmental Sustainability and Application of Geospatial Technology held on 18-19 January, 2023 at Department of Geography, Prof. Syed Nurul Hasan College, Farakka, Murshidabad, West Bengal.

No. of Seminar/Webinar attended:

Total number of Seminar/ Webinar attended - 25

Faculty Induction Programme/ Refresher Courses/ Short-Term Courses/ Workshop/Others:

1. UGC Sponsored orientation programme Orientation programme for academicians 27.01,2014 to 24.02.2014 organized by Academic staff college, Jadavpur University.
2. Workshop and hands on training in QGIS in the department of Geography, East Calcutta Girls College with Collaboration of West Bengal State University on 17-18 January, 2015
3. UGC sponsored Refresher Course in Earth Science UGC 27.03.2015 to 20.04.2015 Academic staff college, Calcutta University
4. Workshop on hands on training in Geoinformatics using free and open-source software, GPS, DGPS and Total Station organised in the department of

- Geography, East Calcutta Girls College and Presidency University from 28th March to 4th April 2017.
5. National workshop on "Geospatial data analysis using open-source software" Organized by Department of Geography, Adamas University on 17-18 April, 2018
 6. Workshop on Quantitative and Qualitative Techniques in Geospatial Sciences; Chapter-II QUALITATIVE TECHNIQUES" organised by Landscape, Ecology and Ekistics (ILEE), Kolkata in collaboration with the Department of Geography, University of Calcutta, and Directorate of Distance Education, Rabindra Bharati University from 30.01.2019 to 05.02.2019
 7. National workshop on Quantitative analysis in Social Sciences by Software, organized by SNCW, 10-11 May, 2019
 8. Training Programmes in Geoinformatics titled Advanced Course on Image Processing and Machine Learning organised by Department Science and Technology and Biotechnology, Government of West Bengal, at Bikash Bhawan from 23.09.2019 to 27.09.2019.
 9. Participated in one week workshop conducted by CCSSS, Jadavpur University, organised by RKSMVV from 4.05.2018 to 11.05.2018
 10. Organised 2 day Online Workshop on TOPOGRAPHICAL MAPS: NUMBERING, SYMBOLOGY and NUANCES (1st and 2nd March 2021)
 11. Participated on online course in Remote Sensing & GIS Technology and Applications, conducted by IIRS, ISRO from 13.06.2020-01.07.2020
 12. Participated in one week webinar series on Innovative Research Trends in Contemporary Geography conducted by ECGC (6-12 July,2020)
 13. 4th ONLINE GURU-DAKSHI: FACULTY INDUCTION PROGRAMME(FIP) at UGC-HRD Center Gujarat University , Ahmedabad from 27th July 2020 to 25th August 2020
 14. REFRESHER COURSE(ONLINE) IN GEOGRAPHY, UGC-HRD Center Jawaharlal Neheru University , Delhi from 16th November 2020 to 28th November 2020

Administrative Responsibilities in College:

1. Convener of UG Admission Committee
2. Convener of Seminar and Publication Committee
3. Convener of Student Feedback committee
4. Convener of Women's Grievances Redressal Cell
5. Member of Academic Sub- Committee
6. Member of Anti-raging Committee
7. Member of Library committee
8. Member of IQAC

Honorary Posts/ Positions Held:

State Public Information Officer,

Act as in charge of the Department of Geography

PROFESSIONAL ASSOCIATIONS:

1. Life Member of Eastern Geographical Society (EGS) Utkal University, Bhubaneswar
2. Life Member of Indian Institute of Geomorphologists (IGI), Allahabad
3. Life Member of Bangio Bhugol Mancha, Kolkata
4. Member of The Geographical Society of India, Calcutta University, Kolkata