

## **DR. NABENDU SEKHAR KAR**

### **1. Personal Details:**

**Name:** Nabendu Sekhar Kar

**Qualification:** Ph.D., M.Sc., B.Ed., P.G. Dip. in RS & GIS

**Designation:** Assistant Professor

**Department:** Geography

**Email id:** naba1224@gmail.com

**Teaching Experience [substantive post only]:** Ten years

### **2. Previous work places:**

- Assistant Professor (Substantive Post) of P.G. Department of Geography in Chandernagore Government College (W.B.E.S.), Hooghly, 2014-15
- CSIR Senior/Junior Research Fellow, Department of Geography, University of Calcutta, 2012-14
- Guest Lecturer, Rani Birla Girls' College, Kolkata, 2012
- Guest Lecturer, Khudiram Bose Central College, Kolkata, 2012
- Guest Lecturer, Vidyasagar Evening College. Kolkata, 2011-12

### **3. Academic Credentials:**

- 'SAR Image Processing with Open Source Software' Certification from Jadavpur University, 2020
- Topper in P.G. Diploma in Applied Remote Sensing and GIS (Geoinformatics) from CAD Centre, Computer Science and Engineering Department, Jadavpur University, 2014
- CSIR Senior/Junior Research Fellow, under Department of Geography, University of Calcutta, 2012-2014
- B.Ed. First Class from David Hare Training College, University of Calcutta, 2012
- Recipient of UGC-JRF in Geography, 2012
- Recipient of CSIR-UGC-JRF in Earth Sciences (All India Rank 12), 2011
- 'Application of GIS & GPS in Resource Mapping' Certification from RS-GIS Institute, Kolkata, 2011
- M.Sc. First Class from Department of Geography, University of Calcutta, 2010
- B.Sc. First Class Rank holder, University of Calcutta, 2008

- Computer Competency Certification from NIIT, 2004

#### **4. Courses Taught:**

*1st Semester (Hons.):* Geotectonics & Geomorphology, Cartographic Techniques

*2nd Semester (Hons.):* Human Geography, Cartograms and Thematic Mapping

*2nd Semester (Gen.):* Human Geography

*3rd Semester (Hons.):* Climatology, Coastal Management

*3rd Semester (Gen.):* Cartographic Techniques, Geographical Information System

*3rd Semester (Generic elective):* Geography of Tourism

*4th Semester (Hons.):* Regional Planning & Development, Economic Geography, Environmental Geography, Research Methods

*4th Semester (Gen.):* Environmental Geography

*4th Semester (Generic elective):* Climate Change: Vulnerability and Adaptations

*5th Semester (Hons.):* Remote Sensing and GIS, Social Geography

*5th Semester (Gen.):* Soil & Biogeography

*6th Semester (Hons.):* Geographical Thought, Disaster Management, Soil & Biogeography

#### **5. Administrative Experience (if any):**

- Editor of the journal '*Himalaya Prasanga*' [ISSN: 2231-1076], oldest Bengali journal on issues related to Himalayas, published by '*Himalaya Samiksha Parishad*', Kolkata
- Acted as paper setter, and examiner of various papers of *Vidyasagar University* and *Netaji Subhas Open University*.
- Convener, joint-convener and member of several academic & administrative committees (admission, purchase, IQAC, website etc.) of *Shahid Matangini Hazra Govt. General Degree College for Women, Purba Medinipur*
- Served as HoD, *Department of Geography, Shahid Matangini Hazra Govt. General Degree College for Women, Purba Medinipur, 2015-2016*

#### **6. Specialization and Research Interests:**

*Specialization:* Geomorphology of Humid Tropics

*Research Interests:* Earth System Science, RS-GIS, Historical Geography, & Geography of Tourism

*Software Skills:* QGIS, ArcGIS, Erdas Imagine, PCI Geomatica, Map Info, TNT Mips, SPSS Statistics.

*Working Knowledge of Instruments:* Differential GPS, Total Station, Echo Sounder, etc.

## 7. Publications: (Research article, General article, Books, Books chapter etc.)

### A. Research Articles

#### *International*

- **Kar, N.S.**, & Basu, A. (2023). A cyclone preparedness plan for the coastal blocks of the Indian Sundarban. *Journal of Coastal Conservation (Springer)* 27, 49. <https://doi.org/10.1007/s11852-023-00978-4>
- Bandyopadhyay, S., **Kar, N.S.**, Dasgupta, S., Mukherjee, D. & Das, A. (2023). Avulsion of the Brahmaputra in Bangladesh during the 18th–19th century: A review based on cartographic and literary evidence, *Geomorphology (Elsevier)*, 422, 108482, [ISSN 0169-555X] <https://doi.org/10.1016/j.geomorph.2022.108482>
- Bandyopadhyay, S, Das, & **Kar, N.S.** (2021). Avulsion of the Brahmaputra in Bangladesh during the 18th–19th century: A review based on cartographic and literary evidence, *Geomorphology (Elsevier)*, 384, 107696, [ISSN 0169-555X] <https://doi.org/10.1016/j.geomorph.2021.107696>
- Das, S., Das, A., **Kar, N.S.**, & Bandyopadhyay, S. (2020). Cyclone Amphan and its impact on the Lower Deltaic West Bengal: a preliminary assessment using remote sensing sources. *Current Science (Current Science Association & Indian Academy of Sciences)*. 119(8), pp. 1246-1249. [ISSN: 0011-3891]
- **Kar, N.S.**, Basu, A., Kundu, M. & Giri, A. (2020). Urban heritage tourism in Chandernagore, India: revival of shared Indo-French Legacy. *GeoJournal (Springer)*. 87, pp. 1575–1591 (2022). <https://doi.org/10.1007/s10708-020-10328-8>
- Bandyopadhyay, S., Das, S., **Kar, N.S.** (2015). Discussion: ‘Changing river courses in the western part of the Ganga–Brahmaputra delta’ by Kalyan Rudra (2014), *Geomorphology (Elsevier)*, 227, pp. 87–100. [ISSN: 0169-555X] DOI: 10.1016/j.geomorph.2015.02.037
- Das, S., **Kar, N.S.**, Bandyopadhyay, S. (2015). Glacial lake outburst flood at Kedarnath, Indian Himalaya: a study using digital elevation models and satellite

images. *Natural Hazards*, Vol. 77(3), pp. 769-786. (*Springer Science + Business Media Dordrecht*). [ISSN: 0921-030X] DOI: 10.1007/s11069-015-1629-6

- **Kar, N.S.** (2014). Tropical Cyclone Aila (2009). Disaster Consequences and Disaster Response in Satjelia Island, Indian Sundarban. *Asian Journal of Environment and Disaster Management (Research Publishing)*, Vol. 6 (2), pp. 81-95.. [ISSN: 1793-9240] DOI: 10.3850/S1793924014000279.
- Bandyopadhyay, S., & **Kar, N.S.** (2014). The Kedarnath Disaster: in search of scientific reasoning, *Current Science (Current Science Association & Indian Academy of Sciences)*, Vol. 107 (4), p. 557. [ISSN: 0011-3891]

### **National**

- **Kar, N.S.** (2020). আবহাওয়ার পূর্বাভাস, *Bhugol Swadescharcha*, Vol. 15(1), pp. 7-11. Uttarpara. [ISSN 2581-4788]
- **Kar, N.S.** (2019). সমুদ্র উপকূল ব্যবস্থাপনার রূপরেখা, *Bhugol Swadescharcha*, Vol. 14(2), pp. 28-32. Uttarpara. [ISSN 2581-4788]
- **Kar, N.S.,** & Bandyopadhyay, S. (2015). Tropical Storm Aila in Gosaba Block of Indian Sundarban: Remote Sensing based assessment of Impact and Recovery, *Geographical review of India*, Vol. 77(1), pp. 40-54. The Geographical Society of India, Kolkata. [ISSN 0375-6386]
- Das, S., **Kar, N.S.,** & Bandyopadhyay, S. (2015). Dimensions of Debris Flow of Kedarnath Disaster 2013: A Study using Digital Elevation Models, *Geographical review of India*, Vol. 77(4), pp. 295-309. The Geographical Society of India, Kolkata. [ISSN 0375-6386]
- **Kar, N.S.,** & Bandyopadhyay, S. (2014). Rehabilitating The Environmental Refugees Of Sundarban: A Study Of Jibantala Colony, Sagar Island, West Bengal. *Sem. Proc. Horizon and Beyond - Contemporary Research in Geography. ed. Sil et al.*. Bhairab Ganguly College and Himalayan Books, Kolkata. pp. 101-105.
- **Kar, N.S.,** & Bandyopadhyay, S. (2013). Tropical Storm Aila: Damage Assessment Using Remote Sensing in Satjelia Island, Sundarban, West Bengal. *Sem. Proc. Community Awareness in Sundarban – Combat Physical and Social Hazard. ed. Dr Sisir Chatterjee.* Raidighi College & acb Publication, Kolkata. pp. 173-177. [ISBN: 81-87500-59-X]

- **Kar, N.S.** (2014). A Study on Disparities derived from Caste System: Roopsi Village, Jaisalmer, *International Research Journal of Social Sciences*, Vol. 3(5), pp. 1-6. (*International Science Congress Association*). [ISSN: 2319–3565]
- **Kar, N.S.** (2015). Determination of Flood Vulnerability Zones and its Mapping: A Study of West Bengal. *The Observer*, Vol. 52, pp. 30-34. (*Students' Geographical Association, Kolkata.*). [ISSN: 2230-9535]
- **Kar, N.S., Das, S., Bandyopadhyay, S.** (2015). কেদারনাথ বিপর্যয় ২০১৩: একটি পর্যালোচনা (Kedarnath Disaster 2013: A Review). *Himalaya Prasanga*, pp. 47-50. [ISSN: 2231-1076]
- **Kar, N.S., Das, S.** (2014). বন্যপ্রবণ ঘাটাল ব্লক - একটি ভৌগোলিক সমীক্ষা (A Geographical Analysis of Flood Vulnerability in Ghatal Region, West Bengal, India). *Bhugol o Paribesh*, Vol. 2(3), pp. 25-30. [ISSN: 2321-4694]
- **Kar, N.S.** (2014). বদ্বীপ গঠনে লবনাম্বুজ উদ্ভিদের ভূমিকা (Role of Mangroves in formation of Deltaic Islands). *Bhugol o Paribesh*, Vol. 2(4), pp. 7-11. [ISSN: 2321-4694]
- **Kar, N.S.** (2012). Cultural Transformation and Globalisation. *The Observer*, Vol. 50, pp. 33-36. (*Students' Geographical Association, Kolkata.*). [ISSN: 2230-9535]
- **Kar, N.S.** (2011). Reclamation in Sundarban: A Brief History and Its Effects. *The Observer*, Vol. 49, pp. 42-44. (*Students' Geographical Association, Kolkata.*). [ISSN: 2230-9535]
- **Kar, N.S., & Bandyopadhyay, S.** (2011). গোসাবা ব্লক এ আইলার প্রভাব: দূরসংবেদনের মাধ্যমে নিরীক্ষিত একটি পর্যালোচনা (Impact of Aila on Gosaba Block: A Study using Remote Sensing), *Journal of the Centre for Creative Learning and Research*, Vol. 1, pp. 5-14. (*The Centre for Creative Learning and Research, Kolkata*).

## **B. General Articles**

- **Kar, N.S.** (2021). মহাবিশ্বের উৎস সন্ধান, Srijani College Magazine, Shahid Matangini Hazra Government General Degree College for Women.
- **Kar, N.S.** (2020). Purbasthali Meander Cut-Off – A Study, Srijani College Magazine, Shahid Matangini Hazra Government General Degree College for Women.

- **Kar, N.S.** (2018). বঙ্গপাতের গতি প্রকৃতি, Saptahik Bartaman Magazine, 31(17), 25 August 2018 Issue (এত বাজ পড়ছে কেন ?), Bartaman Pvt. Ltd.
- **Kar, N.S.** (2013). অথই জীবন, Editorial Article, Ebela Newspaper, 17 October, 2013, ABP Pvt. Ltd.
- **Kar, N.S.** (2011). ওয়েব ম্যাপিং ও ওয়েব জি আই এস (Web Mapping and Web GIS). *Bhugol Swadeshcharcha*. 4 (3), pp. 15-17.
- **Kar, N.S.** (2010). গ্লোবাল পজিশনিং সিস্টেম (জি. পি. এস.) (Global Positioning System). *Bhugol Swadeshcharcha*. 5 (2 & 3), pp. 7-10.
- **Kar, N.S.** (2010). Remote Sensing. *The Observer*, Vol. 48, pp. 66-69. (*Students' Geographical Association, Kolkata.*)
- **Kar, N.S.** (2009). Web Mapping and Web GIS. *The Observer*, Vol. 47, pp. 108-116. (*Students' Geographical Association, Kolkata.*)

### C. Book Chapters/Books

#### *International*

- Chakraborty, R., **Kar, N.S.**, Ghosh, R. (2022). A People's Biodiversity Register of Henry's Island, Indian Sundarban. In: Sahana, M., Areendran, G., Raj, K. (eds) *Conservation, Management and Monitoring of Forest Resources in India*, Springer, Cham. [https://doi.org/10.1007/978-3-030-98233-1\\_11](https://doi.org/10.1007/978-3-030-98233-1_11)
- Basu, A., & **Kar, N.S.** (2021). Reassessment of Urban Sustainability and Food Security in the Light of COVID-19. In: Chakraborty, C., Roy, S., Sharma, S., Tran, T.A. (eds.) *The Impact of the COVID-19 Pandemic on Green Societies*, Springer, Cham. [https://doi.org/10.1007/978-3-030-66490-9\\_2](https://doi.org/10.1007/978-3-030-66490-9_2)
- Basu, A., Nandy, G., & **Kar, N.S.** (2021). Evaluating the viability of shrimp aquaculture to impede climate change in the Sundarbans: Experiences from Bangladesh. In Kar, M., Mukhopadhyay, J. & Deb Sarkar, M. (Eds.) *South Asia and Climate Change: Unravelling the Conundrum*, Routledge, London, pp. 156-188. <https://doi.org/10.4324/9781003045731>
- **Kar, N.S.**, Das, S., Bandyopadhyay, S. (2021). Anthropogeomorphology of the Lower Deltaic West Bengal with Special Reference to the Hugli River System. In: Das, B.C., Ghosh, S, Islam, I., Roy, S. (eds.) *Anthropogeomorphology of*

*Bhagirathi-Hooghly River System in India*, CRC Press, pp. 83-122.  
[https://doi.org/10.1201/9781003032373\\_3](https://doi.org/10.1201/9781003032373_3)

- Basu, A., **Kar, N.S.**, & Kundu, M. (2020). Urban heritage tourism alongside the bank of Hugli: Carrying forward the legacy of “Little Europe in Bengal,” India. In: Dixit S.K. (ed.) *Tourism in Asian Cities*, Routledge, London, pp. 86-112. <https://doi.org/10.4324/9780429264801>
- **Kar, N.S.**, Das, S. (2020). Flood-Prone Ghatal Region, India: A Study on Post-‘Phailin’ Inundations of 2013. In: Bandyopadhyay, S., Magsi, H., Sen, S., Ponce Dentinho, T. (Eds) *Water Management in South Asia. Contemporary South Asian Studies* (Springer, Cham), pp. 69-89. [https://doi.org/10.1007/978-3-030-35237-0\\_5](https://doi.org/10.1007/978-3-030-35237-0_5)
- Bandyopadhyay, S., & **Kar, N.S.** (2019). An Inventory for Land Use Land Cover and Landform Identification from Satellite Standard FCC: A Study in the Active Ganga Delta, In: Das, B.C. et al. (eds.) *Quaternary Geomorphology in India*, Springer Nature, pp. 205-219. (Geography of the Physical Environment). [ISBN 978-3-319-90426-9 (Print); 978-3-319-90427-6 (ebook)] DOI: 10.1007/978-3-319-90427-6
- Aown, A., & **Kar, N. S.** (2015). Lateritic Badland of Sinhati, Bankura, West Bengal: A Geomorphic Investigation. In: Das et al. (Eds.) *Neo-Thinking on Ganges-Brahmaputra Basin Geomorphology, Springer Geography*, pp. 19-31. [ISBN: 978-3-319-26442-4 (Print) 978-3-319-26443-1 (ebook)] DOI: 10.1007/978-3-319-26443-1

### ***National***

- Basu, A., & **Kar, N.S.** (2023). Geotectonics and Geomorphology: Theory & Lab, *Global Net Publication*, p. 490, 978-9381903520, Kolkata.
- Bhattacharya, D., **Kar, N.S.**, & Ghosh, R. (2021). Post-Fani Cyclone Vulnerability Assessment of Puri town: A Remote Sensing and GIS Based Approach, *New Age Cartography and Geospatial Technology in Digital India*, 39th INCA International Congress, Dehradun (India), Indian Cartographic Association (INCA) & Survey of India.
- **Kar, N.S.**, & Bandyopadhyay, S. (2020). Sundarbone Jongol Hasil, Jambu o Henri Dwip: Kichu Prosno Prosongo Sundarban (Dwitio Khondo) 978-81-940947-1-0 Bhugol o Poribesh, Kolkata.



- **Kar, N.S.** (2020). An Evaluation of MOOCs in GIS: Initiating A New Paradigm. pp. 3-15. Sarkar, R. (ed.) Education in the 21st century: emerging issues and the way forward, Namya Press.[National] 978-81-947715-8-6
- Nandi, P & **Kar, N.S.** (2018). Urban Expansion and Change of Landuse of Baidyabati Municipality: 1977-2015. In: Pan, S et al. (eds.). *Environmental Geography & Sustainable Society*, Concept Publishing Company Pvt. Ltd. pp 149-161. [ISBN-13: 978-9386682-26-0]
- **Kar, N. S.** (2015). Impact of Tropical Cyclone Aila on the Satjelia Island in the Indian Sundarban Region. In: Halder.,A. et al. (Ed.) *Climate and Society- A Contemporary Perspective*. University of Calcutta, pp. 257-269. [ISBN: 978-81-923448-0-5]
- Bandyopadhyay, S., **Kar, N. S.**, Das, S., Sen, J. (2014). River systems and water resources of West Bengal: A Review. In: Vaidyanadhan, R. (Ed.) *Rejuvenation of Surface Water Resources of India: Potential, Problems and Prospects*. Geological Society of India, Special Publication 3, pp. 63-84. [ISBN: 978-93-80998-04-06] DOI: 10.17491/cgsi/0/v0i0/62893

#### **Regional**

- Roy, S. & **Kar, N.S.** (2016). *মাধ্যমিক ভূগোল ও পরিবেশ*, New Book Exchange, Kolkata.

**8. Patents (if any):** None

**9. Research Project (if any):** None

**10. Research Supervision (Ph.D./M.Phil.):** None

**11. Seminar/Workshop participated:**

**Seminar/ Conference Presentation (s)**

<i>International</i>			
<b>Sl. No.</b>	<b>Organisation/Event</b>	<b>Title of the Paper</b>	<b>Year</b>
<b>1.</b>	Food, Water and Nutrition Security for Health and Wellbeing, Department of	Re-Assessing Urban Sustainability and Food Security in the Light of COVID-19 Pandemic	2021



	Geography, Shaheed Bhagat Singh College, University of Delhi		
2.	Implications of Covid-19 on Local & Regional Sustainable Development: A Glocal Perspective, IGU-India International	Cyclone Preparedness Plan for Coastal Blocks of Indian Sundarban	2020
3.	Sustainable Development & Inclusive Growth, Department of Geography, Lady Brabourne College, Kolkata	Anthropogeomorphology of the lower deltaic West Bengal, India	2020
4.	Anthropogeomorphic facets Man & Environment: Issues & Challenges, Department of Geography, Subarnarekha Mahavidyalaya, Paschim Medinipur	Hugli Basin-The tidal stretch of the Bhagirathi-Hugli River: Anthropogeomorphic facets Man & Environment: Issues & Challenges	2019
5.	12 <sup>th</sup> World Congress of the RSAI	The analysis of Flood Hazard in the Ghatal CD Block of Paschim Medinipur District, W.B., India	2018
6.	Urbanisation and Regional Sustainability, 47 <sup>th</sup> Annual Conference of RSAI, India	Urban Expansion and Change of Land Use of Baidyabati Municipality: 1977-2015	2016
7.	Urbanisation and Regional Sustainability, 47 <sup>th</sup> Annual Conference of RSAI, India	A Remote Sensing based analysis of Ghatal Floods, Paschim Medinipur, W.B.	2016
8.	Urbanisation and Regional Sustainability, 47 <sup>th</sup> Annual Conference of RSAI, India	Developing a Model for Urban Heritage Tourism in Chandannagar, West Bengal	2016
9.	Institute of Landscape, Ecology and Ekistics	of Flood Vulnerability in Ghatal Region, West Bengal, India – A Remote Sensing based analysis	2014

10.	Dimensions of Development and Resource Conservation, Dept. of Geography, C.U.	Roopsi Village, Jaisalmer: A Study on Caste Segregation	2012
<i>National</i>			
<b>Sl. No.</b>	<b>Organisation/Event</b>	<b>Title of the Paper</b>	<b>Year</b>
1.	32 <sup>nd</sup> Conference of the Indian Institute of Geomorphologists	Cyclone Amphan and its Impact on the Lower Deltaic West Bengal: An Assessment using Remote Sensing Sources	2021
2.	Impact of Pandemic on Sundarbans, Shahid Matangini Hazra Government General Degree College for Women, W.B & National Institute of Disaster Management, Ministry of Home Affairs, New Delhi	Impact on Super Cyclonic Storm Amphan on Sundarban	2021
3.	Geography as Spatial Science: Contemporary Issues & Challenges, Department of Geography, Aliah University, Kolkata	Anthropogeomorphic facets of the Hugli Basin: The Tidal Stretch of the Bhagirathi-Hugli River	2019
4.	29 <sup>th</sup> Conference of the Indian Institute of Geomorphologists	Geomorphology & Rehabilitation of Environmental Refugees of Sundarban: A Study of Jibantala Colony, Sagar Island, West Bengal	2016
5.	Contextualising Issues in Applied Geography, Dept. of Geography and Environment Management, Vidyasagar University	Developing a Model for Urban Heritage Tourism in Chandannagar, West Bengal	2016

6.	Man Environment Interrelations: Issues, Challenges and Remedies, Department of Geography, Bankura Christian College	Urban Expansion and Change of Land Use of Baidyabati Municipality	2015
7.	28 <sup>th</sup> Conference of the Indian Institute of Geomorphologists	Lateritic Badlands of Sinhati, Bankura, West Bengal: A Geomorphic Investigation	2015
8.	Water: A Threatened Social Resource of the Century, Department of Geography, Women's Christian College	Changes in the Lake Area and Surrounding Landuse: A Case Study of Rudrasagar Lake, Melaghar R.D. Block, West Tripura	2015
9.	27 <sup>th</sup> Conference of the Indian Institute of Geomorphologists	A Geographical Analysis of Flood Vulnerability in Ghatal Region, West Bengal, India	2014
10.	Development and Environmental Transformation, Dept. of Geography, C.U.	The Kedarnath Disaster 2013: Facts Extracted from Remote Sensing	2014
11.	Remote Sensing and Environment, Department of Oceanography, Jadavpur University	The Kedarnath Disaster of 16–17 June 2013 (Rudraprayag District, Uttarakhand): Evidences from Remote Sensing	2014
12.	Contemporary Research in Geography, Bhairab Ganguly College and NATMO	Rehabilitating the Environmental Refugees of Sundarban: A Study of Jibantala Colony, Sagar Island, W.B.	2014
13.	Indian Society of Remote Sensing, Kolkata Chapter	Kedarnath Disaster 2013, Evidences from Satellite Data	2013
14.	26 <sup>th</sup> Conference of the Indian Institute of Geomorphologists	The Kedarnath Disaster of 16–17 June 2013 (Rudraprayag District, Uttarakhand): evidences from Remote Sensing	2013
15.	Institute of Indian	The Kedarnath Disaster of 16–17 June	2013

	Geographers	2013 (Rudraprayag District, Uttarakhand): evidences from Remote Sensing	
16.	25 <sup>th</sup> Conference of the Indian Institute of Geomorphologists	Human Encroachments in Deltaic Sundarban	2012
17.	Community Awareness in Sundarban: Combat Physical and Social Hazard, department of Geography and political science, Raidighi College	Tropical storm Aila and its Aftermath – Gosaba Block of Sundarban, W.B.	2012
18.	Himalaya: Environment and development, Himalaya Samiksha Parishad	Along, Arunachal: Exploration of God's own creation	2012
19.	Natural resource management, Dept. of Geography, C.U.	Tropical Storm Aila: Damage Assessment Using Remote Sensing in Gosaba, Sundarban, West Bengal	2011
20.	33 <sup>rd</sup> Indian geography Congress, National Association of Geographers, India	Tropical Storm Aila and its aftermath: Damage Assessment Using Remote Sensing in Gosaba, Sundarban, West Bengal.	2011
21.	23 <sup>rd</sup> Conference of the Indian Institute of Geomorphologists	Tropical Storm Aila and its aftermath: Damage Assessment Using Remote Sensing in Gosaba, Sundarban, West Bengal.	2010

### Seminar/Conference Attended

Sl. No.	Organisation/Event	Level	Year
1.	Sundarban: Perspectives on the World's Largest Transboundary Mangroves, Department of Geography, Centre for Distance and Online Education, Rabindra Bharati University	National	2024
2.	Research Methodology and Professional	National	2024

	Ethics for Researchers, IQAC, Mahishadal Girls' College and Haldia Government College		
3.	ESRI India User Conference, 2023, Kolkata	Regional	2023
4.	21 <sup>st</sup> Century: Challenges and our preparedness, 9 <sup>th</sup> Prof. Satya Sundar Barman Memorial Lecture, 2022, All Bengal State Government College Teachers' Association	Regional	2022
5.	Geomorphology: Recent Trends and Related Issues, Krishnagar Government College, Krishnanagar, W.B.	National	2021
6.	Geospatial Technology Applications, Diamond Harbour Women's University, Sarisha, W.B.	National	2021
7.	'Flood Resilience: Opportunities and Challenges of the event DRR Week 2020', Resilient Bangladesh, Bangladesh & Bhugol o Paribesh, India	International	2020
8.	Modalities of Publication: Ethics, Repository and Advanced Search, Department of Geography & IQAC, Heramba Chandra College, Kolkata	National	2020
9.	Statistical Physics Models of Epidemic Spreading, Department of Physics, Shahid Matangini Hazra Government General Degree College for Women, W.B.	Regional	2020
10.	Chemistry- The Challenges and Opportunities, Department of Chemistry, Shahid Matangini Hazra Government General Degree College for Women, W.B.	International	2020
11.	Impact of Climate Change on Rural Livelihood: A Geographical Review, Sambhu Nath College, Labpur, W.B	International	2020

12.	Cries Behind the Closed Rooms: COVID 19, Domestic Violence and Mental Health, Department of Political Science & IQAC, Shahid Matangini Hazra Government General Degree College for Women	State	2020
13.	Contemporary Urban Scene, Krishnagar Government College, Krishnanagar, W.B.	International	2020
14.	Viral Infection and Immunity: Physiological Aspects and Preventive Strategy, Department of Physiology & IQAC, Belda College, Belda, W.B.	International	2020
15.	Conservation of Biodiversity and Sustainability: Issues and Challenges, Diamond Harbour Women's University, Sarisha, W.B.	Regional	2020
16.	ESRI India User Conference, 2018, Kolkata	Regional	2018
17.	ESRI India User Conference, 2017, Kolkata	Regional	2017
18.	Integrating Globalisation and the Changing Face of India, Rani Birla Girls' College	State	2012
19.	Regional environmental Problems and Societal Development, Vidyasagar University	National	2010
20.	Ganga Dams & Restoration of Ecological Flow, Sea Explorer Institute, Kolkata	Regional	2010
21.	Nadir Bhabna, Sea Explorer Institute, Kolkata	Regional	2009

### Workshop/Training Programme Participation

Sl. No.	Organisation	Theme	Duration
1.	Shahid Matangini Hazra Government General Degree College for Women	Interactive Programme on Covid-19 Awareness: Staying Connected	29 May 2021
2.	HRDC, North Eastern Hill University	UGC Sponsored Refresher Course in Tribal Studies	1- 16 November 2021

3.	HRDC, University of Calcutta	UGC Sponsored Interdisciplinary Refresher Course in E-Content, OER & MOOCs	3- 15 February 2020
4.	HRDC, Jadavpur University	UGC Sponsored 74 <sup>th</sup> Orientation Programme	26 August- 16 September 2019
5.	Mahatma Gandhi National Council of Rural Education, MHRD, Govt. of India, & HRDC, Jadavpur University	Experimental Learning, Community Engagements and Rural Immersion	6- 7 September 2019
6.	IEST Shibpur (TEQIP-III) & MHRD, Govt. of India	Climate Change and Water Crisis	21 June 2019
7.	Commission of Scientific and Technical Terminology, MHRD, India, held at Khudiram Bose Central College	Use of Scientific and Technical Terminology in International Relations	21 -22 April 2018
8.	Department of Geography, Women's Christian College and Department of Geography, University of Calcutta	Statistical methods and Techniques of Spatial Analysis	11- 17 July 2017
9.	The World Bank	Vulnerability of Sundarban in a Changing Climate	3- 4 February 2017
10.	Haldia Govt. College	Q-GIS (Open Source GIS)	10 February 2016
11.	Microsoft Corporation and V.U.	Teaching with Technology	1- 9 October 2015
12.	Department of Geography, B.U.	Software Training in Geography (Q-GIS)	27- 29 March 2015
13.	Department of Geography, C.U.	Climate Change: Science and Conscience	13 January 2013



14.	Anthropological Survey of India	Orientation to Audio-Visual Technology as Research tool and Teaching Aid	28 October - 1 November 2013
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### **Invited Lectures as Resource Person**

- ‘QGIS (3.10) Certificate Course’, organised by Department of Geography, Department of Geography, Gokhale Memorial Girls’ College Kolkata. 21 December 2023, 03 & 09 January 2024.
- Workshop on ‘Recent Trends in Career Opportunities in Geography’, organised by Haldia Government College, Purba Medinipur, Haldia. 15 December 2023.
- ‘Web and Mobile GIS: GIS for Everyone’ organised by the Department of Geography, Muralidhar Girls’ College, Kolkata, 29 September 2023.
- ‘Concepts in Geomorphology: Catastrophism, Uniformitarianism, Steady State, Dynamic Equilibrium, System Concept’ in the ‘Three Days International Lecture Series on Applied Geomorphology’ organised by Department of Geography, Mahapurusha Srimanta Sankardeva Viswavidyalaya, Nagaon, Assam, India, 14 December 2022.
- ‘Workshop on QGIS (3.10)’, organised by Department of Geography, Department of Geography, Gokhale Memorial Girls’ College Kolkata. 9- 10 December 2022.
- ‘One Day State Level Virtual Workshop on GIS & Remote Sensing based on UG-CBCS Syllabus in Geography of University of Calcutta’ organised by Department of Geography, Raidighi College, Raidighi, W.B. and Board of Undergraduate Studies in Geography, University of Calcutta, 26 October 2022.
- ‘One Day Workshop on CBCS in Undergraduate Geography Honours Course: Semester 5 and 6’, organised by Department of Geography, Shri Shikshayatan College, Kolkata, Faculty Council for Undergraduate Studies and Board of Undergraduate Studies, University of Calcutta, 10 September 2022.
- ‘In the middle of Know-Where: GNSS and its Application’ in ‘Avenues of Contemporary Geography’ organised by Department of Geography, Magrahat College, 27 September 2020.

- ‘Increasing Frequency of Tropical cyclone and its Impact on Coastal Bengal’, organised by Department of Geography & IQAC, Saheed Anurup Chandra Mahavidyalaya, 20 July, 2020.
- ‘Use of GPS in locating plant and animal species & preparing distribution maps’, organised by Department of Zoology, Dinabandhu Andrews College, Kolkata, 7 November 2019.
- ‘Coastal Geomorphology & Coastal Vulnerability: Some Observations on Human Responsibility’, Raidighi College, Raidighi, 21 September 2019.
- ‘One Day Workshop on CBCS in Geography Syllabi and a Short Demonstration of Q-GIS Software’ organised by U.G. Board of Studies, University of Calcutta, held at Lady Brabourne College, Kolkata, 15 September 2017.
- ‘Hands-on training of Q-GIS’ organised by The Department of Geography, Lalbaba College, Howrah, 27-28<sup>th</sup> November 2017.
- ‘Two days Hands-on training in Q-GIS Software’ organised by the Department of Geography, Purash Kanpur Haridas Nandi Mahavidyalaya, Howrah, 21-22<sup>nd</sup> September 2017.
- ‘Hands-on training in Geoinformatics’ organised by the Department of Geography, East Calcutta Girls. College, Lake Town, 1<sup>st</sup> & 2<sup>nd</sup> April 2017.
- ‘Q GIS’ organised by the Department of Geography, Bijoy Krishna Girls’ College, Howrah, 8<sup>th</sup> to 10<sup>th</sup> August 2016.
- ‘Quantam GIS – Its Application and Utility’ organised by the Department of Geography, Hoogly Women’s College, Hoogly, 3<sup>rd</sup> September 2016.
- ‘Training Programme on RS, GNSS and GIS’ organised by the Geographical Society of India and the Department of Geography, University of Calcutta, 25<sup>th</sup> February & 1<sup>st</sup> March 2016.
- ‘Remote Sensing and Geographical Information System’ organised by The Department of Geography, Udaynarayanpur Madhabilata Mahavidyalaya, Howrah, 26<sup>th</sup> February 2015.

## **12. Programmes Conducted / Organised as Convenor / Organising Secretary etc.**

- Co-organiser of national webinar on ‘Post Vaccination Impact on International border trading in Sundarbans’, organised by Shahid Matangini Hazra Government General Degree College for Women, W.B & National Institute of Disaster Management, Ministry of Home Affairs, New Delhi, 29 May 2021.

- Organising secretary of ‘One Day Webinar on Air Quality during Lockdown: Experience of West Bengal’ (Speaker: Dr. Kalyan Rudra, Chairman, WBPCB) organised by Department of Geography, Shahid Matangini Hazra Government General Degree College for Women, Purba Medinipur on 02 October 2020.
- Organised Special Lecture Sessions in Geography at Shahid Matangini Hazra Government General Degree College for Women, Purba Medinipur on ‘Elected Representatives and Local Area Development, An Outline’ (Speaker: Dr. Anindya Basu, Assistant Professor of Geography, Diamond Harbour Women’s University) and ‘Landscape and People: A Photographic Journey of India’(Speaker: Dr. Sayantan Das, Assistant Professor, Dum Dum Motijheel College), 11 September 2017.
- Member of the organising committee, 29th Conference of the Indian Institute of Geomorphologists (IGI), 24 -27 November 2016, Kolkata.
- Member of the organising committee, Conference of the Institute of Landscape, Ecology and Ekistics (ILEE), 28 -29 September 2016 , Kolkata.
- Organised Special Lecture Sessions in Geography at Shahid Matangini Hazra Government General Degree College for Women, Purba Medinipur on ‘Climate Change: Myth & Reality’ (Speaker: Prof. Lakshminarayan Satpati, Director, UGC-HRDC, University of Calcutta) and ‘Indian Sundarban: Issues & Challenges in a Warming World’ (Speaker: Professor Sunando Bandyopadhyay, Professor, Department of Geography, University of Calcutta), 24 September 2016.

### **13. Achievements/Awards/Membership:**

- ◆ Won Best Paper Award (with Bhattacharya, D. & Ghosh R.) in the Indian Cartographic Association (INCA) & Survey of India, Dehradun-organised 39<sup>th</sup> INCA International Congress ‘New Age Cartography and Geospatial Technology in Digital India’ for the presentation on “Post-Fani Cyclone Vulnerability Assessment of Puri town: A Remote Sensing and GIS Based Approach”, 2019
- ◆ Won Best Presentation Award (with Das, S.) in the Indian Society of Remote Sensing (ISRS), Kolkata Chapter-organised National Remote Sensing Day on ‘Geospatial Technology and Climate Change’ for the presentation on “Kedarnath Disaster 2013: Evidences from Satellite Data”, 12 August 2013

- ◆ Won Best Poster Award in National Seminar on ‘Himalaya: Environment and Development’ for the presentation on “Along, Arunachal: Exploration of God’s Own Creation”, organised by Himalaya Samiksha Parishad, 10 November 2012
- ◆ Awarded ‘Junior Research Fellowship (JRF)’ and declared eligible for Lectureship (NET) in ‘Geography’ in the Joint UGC Test for Junior Research Fellowship and Eligibility for Lectureship (NET) held in June 2012
- ◆ Awarded ‘Junior Research Fellowship (JRF)’ and declared eligible for Lectureship (NET) in ‘Earth Atmosphere, Planetary and Ocean Sciences’ in the Joint CSIR-UGC Test for Junior Research Fellowship and Eligibility for Lectureship (NET) held in December 2011

◆ *Membership of Professional /Academic Bodies*

- Geographical Society of India – Life Member
- Indian Institute of Geomorphologists – Life Member
- Himalaya Samiksha Parishad – Life Member

**14. Any Other Relevant Information:**

- Prepared content for Self Learning Module in Geography (Module CC 201: Unit 3 & 4 and DSE 404: Unit 1 & 2) for M.A./M.Sc. Course under Netaji Subhas Open University, 2022.
- Assisted project team members of University of Calcutta in ‘Elevation Survey using a Unmanned Aerial Vehicle (Drone) at Gangasagar’ related to a project entitled ‘Demarcation of Floodplain Zone of the Ganga and Bhagirathi–Hugli Rivers in West Bengal’ by the West Bengal Pollution Control Board to fulfil a directive from the Honourable National Green Tribunal, 03 February 2022.
- Co-chaired a session in an international seminar on ‘Sustainable Development & Inclusive Growth’, organised by Department of Geography, Lady Brabourne College Kolkata, 2020.
- Prepared content for Self Learning Module in Geography (Module CEC 4.1 & CEC 1.4) for M.A./M.Sc. Course under DDE, Rabindra Bharati University, 2020.
- Prepared content for Self Learning Module in Geography (Module 20) for M.A./M.Sc. Course under DDE, Vidyasagar University, 2020.

- Prepared content for Self Learning Module in Geography (Module 8, 9 & 10) for M.A./M.Sc. Course under DDE, Vidyasagar University, 2018.
- Team member of Field Study for India Agrometeorological Advisory Service (AAS) Case Study under Climate Change, Agriculture and Food Security Programme, S.E. Asia, 2012.
- Recipient of several merit certificates and excellence certificates from related institutions such as David Hare Training College, Vidyasagar Evening College etc.
- Organised educational/field trip to Chotta Mungwa (2023), Tamluk River Banks (2023), Rishop-Darjeeling (2022), Dayapur-Gosaba (2022), Mirpur-Geonkhali (2021), Tamluk Historical Sites (2022), Balasore-Nilgiri-Chnadipur (2019), Potmaya-Pingla (2019), Ghatal (2020, 2017), Indian Museum (2018), Garhbeta Badlands (2018), and Ajodhya Hills & Jhalda (2017) with UG students of Shahid Matangini Hazra Government General Degree College for Women, Purba Medinipur
- Supervised UG Geography Project reports on
  - 2019-20: ‘Ghatal Flood 2017: An Assessment’
  - 2021-22: ‘Cyclone-induced Coastal Erosion & its Impact on the Livelihood of Dayapur Village Satjelia Island, Indian Sundarban
  - 2022-23: ‘River Overflow Flood in the Tamluk Municipality during the Yaas Cyclone of May, 2021: A Case Study’

**Date: 15 May 2024**