



Curriculum Vitae

PROF. BIPLAB BISWAS, “Raman Fellow”

M.A. (Geography), M. Phil (JNU). Ph.D. (BU), Post Doc. (UM, USA)

**Professor of Geography
Department of Geography
The University of Burdwan
Golapbag, Burdwan – 713104**

Ex. Head, **Department of Geography**

Ex-Coordinator, **Department of Geospatial Science**

The University of Burdwan, Burdwan

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1. Name	: PROF. BIPLAB BISWAS, “RAMAN FELLOW”
2. Date of Birth	: 03/04/1973
3. Nationality	: Indian
4. Qualification	: M.A. (Geo., BU), M. Phil. (CSR D, JNU), Ph.D. (BU), Post-Doctoral “Raman Fellow”, UM, USA
5. Present Status	: Department of Geography, and Department of Geospatial Science The University of Burdwan, Burdwan, West Bengal – 713104
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6. Academic Qualification	Year	Examination/Board/University
	1989	WBBSE
	1991	WBCHSE
	1994	B.A., BU
	1996	M.A., BU
	2000	M. Phil., JNU
	2008	Ph.D., BU
	2015	Post Doctorate, UM, (USA)

7. Past Employment

- (1) : Lecturer in Geography
East Calcutta Girls' College, Lake Town, Kolkata – 700089
- Date of Joining : 02/01/2001
Date of Leaving : 02/01/2002
Reason for Leaving : To Join The Department of Geography
The University of Burdwan,
Burdwan
- (2) : Lecturer in Geography
The University of Burdwan
Burdwan – 713104
- Date of Joining : 03/01/2002
Date of Leaving : 16/06/2009
Reason for Leaving : To Join the Department of Geography
West Bengal State University,
Barasat, Kolkata – 700126
- (3) : Assistant Professor in Geography
West Bengal State University,
Barasat, Kolkata – 700126
- Date of Joining : 17/06/2009
Date of Leaving : 30/11/2010
Reason for Leaving : To Join The Department of Geography
The University of Burdwan,
Burdwan

8. Faculty Improvement Programme :

- (1) UGC Sponsored Refresher Course
At : UGC_ASC, Jadavpur University
Topic : Global Warming
Date : 04/03/2003 to 24/03/2003
- (2) UGC Sponsored Orientation Course
At : UGC_ASC, Jadavpur University
Topic : Orientation Programme
Date : 06/11/2006 to 02/12/2006
- (3) UGC Sponsored Refresher Course
At : UGC_ASC, Calcutta University
Topic : Geography and Environmental Studies
Date : 07/11/2008 to 28/11/2008

- | | |
|---------------------|---|
| At
Topic
Date | (4) UGC Sponsored Refresher Course
: UGC_ASC, Jawaharlal Nehru University
: Environmental Studies
: 05/03/2010 to 30/03/2010 |
| | (5) UGC Sponsored “ Raman Fellowship ”,
one-year Post-Doctoral Research
Clinical Research Building
Miller School of Medicine,
The University of Miami,
Miami, Florida, USA
15 th December 2014 to 14 th December 2015 |

9. **M. Phil. Degree Awarded:** 28.04.2000

Title of the Thesis : “**Encroachment in the Bed of the River Yamuna and its Effects in Flood Management**”

The M.Phil. thesis employed remote sensing and GIS in detail to evaluate the nature and extent of encroachments in the bed of the river Yamuna. IRS-1C LISS-III and PAN data has been used to identify and map the LULC in the study area. GIS has been used to model the effects of such encroachments in flood management.

10. **Doctoral Degree Awarded** : 11.01.2008

Title of the Thesis : “**Land Use and Land Cover Change in Damodar Basin: A Spatial Modeling Approach**”

In the [Ph.D. thesis](#), LULC mapping and modeling the future LULC was the central aspect of research. The LULC has been evaluated using IRS-1D, LISS-III, PAN data. GIS has been used to study complex interactions of various human activities and LULC and their controlling factors and to predict the future LULC using Markov Random Field.

11. **Post-Doctoral Research** : 2014-15

Title of the Research : “**Atmospheric Remote Sensing for Quantifying Air Pollution**”

The Post-Doctoral Research work used various Remote Sensing and GIS Techniques to quantify atmospheric pollution in relation to Public Health.

12. Research Paper Published/Communicated :

International	
34.	Kumkum Dey, Biplab Biswas , (21 st June) 2025, “Assessment of Water Clarity in Surface Waterbodies using Remote Sensing Technology: A study in Krishnagar-I C. D. Block, Nadia, West Bengal, India”, <i>Indian Journal of Spatial Science</i> , EISSN: 2249 – 4316, ISSN: 2249 – 3921, Vol 16 (2), PP-17-22.
33.	Soumen Chatterjee, Biplab Biswas , (15 th March 2025), “Seasonal and annual hydrologic modeling for water budget estimation of the Ganga River Basin (GRB) by using GLDAS-2.1 products in geospatial environment”, <i>Proceedings of the Indian National Science Academy</i> , https://doi.org/10.1007/s43538-025-00413-2 , IF: 1.2, ISSN: 2454-9983
32.	Kumkum Dey, Biplab Biswas , (21 st December) 2024, “Nature Based Solutions for Water Management: A Critical Review of 21 Case Studies from around the World”, <i>Indian Journal of Spatial Science</i> , EISSN: 2249 – 4316, ISSN: 2249 – 3921, Vol 15 (4), PP-19-29.
31.	Biplab Mandal, Biplab Biswas , Sujit Mandal, (16 th August) 2024, “Application of bivariate statistical models to explore landslide susceptibility and risk in the Lish River basin of Darjeeling Himalaya”, <i>Environment, Development and Sustainability</i> , https://doi.org/10.1007/s10668-024-05303-z , IF-4.7, ISSN: 1573-2975
30.	Surajit Ghosh, Jayesh Mukherjee, Anuva Chowdhury, Kounik De Sarkar, Avinandan Taron, Biplab Biswas and Ashish Ghosh, (17 October) 2023 , Insights from the Five-day National Training Programme on “Earth Observation Data Analytics for Disaster Management Focusing on Flood and Drought”, <i>Journal of Geological Society of India</i> , Vol-99, pp-1787-1788, Electronic ISSN -0974-6889, https://doi.org/10.1007/s12594-023-2539-y , IF-1.2, H-Index-57,
29.	Diah Dwiana Lestiani, Woro Yatu Niken Syahfitri, Natalia Adventini, Syukria Kurniawati, Endah Damastuti, Muhayaton Santoso, Biplab Biswas , Rita Mukhtar, (17 August) 2023 , Impacts of a lead smelter in East Java, Indonesia: degree of contamination, spatial distribution, ecological risk, and health risk assessment of potentially toxic elements in soils, <i>Environmental Monitoring and Assessment</i> , ISSN-1573-2959, Vol-195, No. 1165, DOI: https://doi.org/10.1007/s10661-023-11745-1 , IF 3.0 (2022), H-Index-132
28	Sneha Kour, Arpan Dawn, Samriddha Saha, Biplab Biswas , (Published on 25 th January), 2023 , Report on “The Second United Nations World Geospatial Information Congress (UN-WGIC) Pre-Event”, <i>Natl. Acad. Sci. Lett.</i> , https://doi.org/10.1007/s40009-023-01209-y , Vol-46 (1), Electronic ISSN-2250-1754, Print ISSN -0250-541X, IF: 1.20 (2023), H-Index-27.
27	Abdelfettah Benchrif, Ali Wheida, Mounia Tahri, Ramiz M. Shubbar, Biplab Biswas , (Published on 14 th July), 2021 , Air quality during three covid-19 lockdown phases: AQI, PM2.5 and NO2 assessment in cities with more than 1 million inhabitants, <i>Sustainable Cities and Society</i> , ISSN 2210-6707 Vol-74, 103170, DOI: https://doi.org/10.1016/j.scs.2021.103170 , IF: 7.587, Cite Score: 10.70, H-Index-
26	Asish Dhara, Biplab Biswas , (Published on 24 th April), 2021, Application of Remote Sensing and GIS for Monitoring Urbanization and Land Use Land Cover Changes: A Case of Bardhaman Town, Purba Bardhaman, West Bengal, <i>Journal of Asian Network for GIS-based Historical Studies</i> Vol.6, ISSN-2434-7094
25	Aman Arora, Abhra Singh, Masood A. Siddiqui, Biplab Biswas , (Published on 24 th April), 2021, Analysing changes in Land Surface Temperature using Thermal Remote Sensing technology: A case study of Jamshedpur City, Jharkhand, India, <i>Journal of Asian Network for GIS-based Historical Studies</i> Vol.6, ISSN-2434-7094
24	Biplab Biswas , Rabindranath Roy, Tanusri Roy, Sumanta Chowdhury, Asish Dhara, Kamonasish Mistry, (Published: 22 February) 2021, Geographical Appraisal of COVID-19 in West Bengal, India, <i>GeoJournal</i> , Spatially Integrated Social Sciences and Humanities, Vol-86 (6), ISSN: 0343 – 2521, pp-2641–2662 Springer, https://doi.org/10.1007/s10708-021-10388-4 , IF-2.0
23	Vidhiben Patel, Andrew Foster, Alison Salem, Amit Kumar, Vineet Kumar, Biplab Biswas , Mehdi Mirsaedi, Naresh Kumar, (Published on Oct 5 th), 2020 , “Long Term Exposure to Indoor Air Pollution and Risk of

	Tuberculosis”, Indoor Air , International Journal of Indoor Environment and Health, Wiley Online Library, Vol-31(3), pp-628-638, https://doi.org/10.1111/ina.12756 , Online ISSN:1600-0668, IF: 5.770
22	Kamonasish Mistry, Biplab Biswas , Siwen Zhang, Tao Wu, Liang Zhou, Abdelfettah Benchrif, Srimanta Gupta, Oct 2020 , GEOSS: An Intelligent Methodology for Identifying Site Suitability of Air Sample Collection, International Journal of Intelligent Systems Technologies and Application (IJISTA-250715), https://doi.org/10.1504/IJISTA.2020.111062 , pp 421-443, ISSN: 1740-8865, IF: 0.90 (2019)
21	Biplab Biswas , Srimanta Gupta, Debasmita Biswas, Tanusri Roy, Ashis Dhara, Biplab Mondal and Shilpa Saha (Published: 29 th July) Report of the 21-Day, ‘Level-2’ Capacity Building Program ‘4th Winter School Program 2020 ’ on “Application of Geospatial Technologies for Disaster Management” Sponsored by NRDMs, DST, Govt. of India. <i>Natl. Acad. Sci. Lett.</i> (2020). Springer, ISSN: 0250-541X (Print) 2250-1754 (Online), Vol-43, pp-485-488, https://doi.org/10.1007/s40009-020-01005-y , IF: 0.416 (2019)
20	Saha Nimai Chandra, Dutta, Bhramar, Roy Tanusri, Bandopadhyay Rajib, Biplab Biswas , (Published:02 January 2020) 2020 , Report of the 1st International Conference on “Frontiers in Biological Environmental and Medical Sciences” Sponsored by DST PURSE Phase II at University of Burdwan on March 8–10, 2018, <i>National Academy Science Letters</i> , Springer, ISSN: 0250-541X (Print) 2250-1754 (Online), Vol-44, pp-85-86, https://doi.org/10.1007/s40009-019-00868-0 , IF: 0.416 (2019)
19	Sribash Tikadar and Biplab Biswas , 2013, “Impact of LULC Change on Surface Water Resource: A Spatial Modelling Approach”, <i>International Journal of Geology, Earth & Environmental Sciences</i> ; ISSN: 2277-2081, 3 (3), pp.40-51
18	Biplab Biswas , 2012 (c), Use of GIS to Evaluate the Importance of Flood Plain Features to Rural Land Use in Bengal Delta Plain Region: A Case Study of Purbasthali I and II Blocks, <i>International Journal of Current Research</i> , ISSN:0975-833X, Vol. 4, Issue, 12, pp.192-199
17	Prakasam, C., Biplab Biswas , 2012 (b), Evaluation of Geomorphic Resources Using GIS Technology: A Case Study of Selected Villages in Ausgram Block, Burdwan District, West Bengal, India, <i>International Journal of Geology, Earth and Environmental Sciences</i> , Vol. 2(2), ISSN: 2277-2081, pp-193-205
16	Chatterjee, S., Mousumi Dey, C. Prakasam., Biplab Biswas , 2012 (a), Assessment of Land Use and Land Cover Changes Through Satellite Remote Sensing: A Case Study of Purbasthali-I &II Blocks, Burdwan District, West Bengal, India, <i>International Journal of Current Research</i> , ISSN:0975-833X, Vol. 4, Issue, 10, pp.257-266
15	Prakasam, C., Biplab Biswas , 2011 (a), Evaluation of Geomorphic Resources: Past and Present Studies- A review, <i>International Journal of Geomatics and Geosciences</i> , ISSN: 0976-4380, Vol. 1(4), pp-903-913
14	Biplab Biswas , 2010 (c), Geomorphic Controls of Arsenic in Ground Water in Purbasthali I and II Blocks of Burdwan District, West Bengal, India, <i>International Journal of Environmental Sciences</i> , ISSN: 0976-4402, Vol. 2(1), pp-11 – 21
National	
13.	Chandi Rajak, Biplab Biswas , Subrata Halder, Tanmay Das and Rittick Bar, 2021 , “Modelling and Mapping of Groundwater Potential Zones using AHP and GIS Technique: A case study of Jhalda-I Block, Puruliya, West Bengal”, <i>Indian Ground Water</i> , Vol. XVII, (July, 2021), pp – 9-42
12	S. Malik and Biplab Biswas , 2014, Geomorphology, Quaternary Morpho-Stratigraphy and Spatial Distribution of Arsenic Contamination in Groundwater, a Case Study of Katwa-II, Burdwan, West Bengal, <i>Journal of Environment and Earth Science</i> , ISSN 2224-3216 (Paper) ISSN 2225-0948 , Vol. 4, No.5, pp- 10-21
11	Biplab Biswas , R. Majumdar, 2011 (b), Impact of Human Activities on Land Use Land Cover: A Case Study of Burdwan District, West Bengal, India, <i>Indian Journal of Regional Science</i> , ISSN: 00469017 (UGC J no. 20873), Kolkata, Vol. 43(1), pp-106- 115
10	Chatterje, S. Dey M., Prakasam C., Biplab Biswas , 2010 (a), “Socio-economic Implication of Arsenic Toxicity in Purbasthali I and II Blocks of Burdwan District”, <i>Environment and Ecology</i> , ISSN: 09700420, Vol.28 (4A), pp-2426-2432

9	Prakasam, C., Biplab Biswas , 2010 (b), Identifying the surface Water Resource in Ausgram Block I and II, Burdwan District, west Bengal, India, Based on Morphometric Analysis using GIS, Journal of Water and Land-Use Management , ISSN: 0973-9300, 1, pp-12-28
8	C. Prakasam, Biplab Biswas , 2010 (d), Solid Waste Management in Salem City, Tamil Nadu, Using GIS Techniques, Indian Journal of Landscape System and Ecological Studies , ISSN: 0971-4170, Kolkata, 33(1), 65–70
7	Biplab Biswas , 2009 (a), Changing Water Resources Study Using GIS and Spatial Model - A Case Study of Bhatar Block, District Burdwan, West Bengal, India, Journal of the Indian Society of Remote Sensing , Springer, Dehradun, ISSB: 0974-3006(Electronics), 0255-660X (print) 37(4), 705-717, IF: 1.102
6	C. Prakasam, Biplab Biswas , 2009 (b), Land use Land Cover Change study in Ausgram I and II Blocks, District Burdwan, West Bengal using Remote sensing and GIS, Indian Journal of Landscape System and Ecological Studies , ISSN: 0971-4170, Kolkata, 32 (2), 337- 344
5	Biplab Biswas , 2009 (c), Identifying LULC Changes Through GIS: A Case Study of Extent & Impact of Encroachment on River Bed, Indian Journal of Landscape System and Ecological Studies , ISSN: 0971-4170, Kolkata, 32, (1), 217-226
4	Biplab Biswas , R. Majumdar, 2007 (a), Measuring Rural Development: A Case Study of Burdwan police station, Indian Journal of Regional Science , Kolkata, 39, (2), 78-86
3	Biplab Biswas , 2007 (b), Potentiality of Alternative Agriculture in Burdwan: A case Study of Fakirpur Mouza of Burdwan Police Station (Proceedings , 14 th West Bengal State Science and Technology Congress)
2	Biplab Biswas , 2005 (a), Nature and Extent of Encroachment in the Flood Prone River Yamuna in Delhi, Vasudha , Journal of the Geographical Society, Andhra Pradesh, 12, 95-105
1	Biplab Biswas , 2005 (b), Dam and Hydroelectricity: Some Aspects, Indian Journal of Landscape System and Ecological Studies , ISSN: 0971-4170, Kolkata, 28, (2), 113-119
Book /Chapter Published	
8	Biplab Biswas ., Remesan, R., Tiwari, M.K., Ghosh, S. (18 th July 2024). Rapid Assessment of Flood Inundation Due to Tropical Cyclones in Part of Sundarbans in Google Earth Engine Environment. In: Mishra, A.P., Kaushik, A., Pande, C.B. (eds) Natural Resource Monitoring, Planning and Management Based on Advanced Programming. Advances in Geographical and Environmental Sciences. Springer, Singapore. https://link.springer.com/chapter/10.1007/978-981-97-2879-4_6 . ISBN: 978-981-97-2878-7
7	Chatterjee, S., Gupta, S., Saha, B., Biplab Biswas . (4 th Sept.) 2022, Role of LU and LC Types on the Spatial Distribution of Arsenic-Contaminated Tube Wells of Purbasthali I and II Blocks of Burdwan District, West Bengal, India. In: Mandal, S., Maiti, R., Nones, M., Beckedahl, H.R. (eds) Applied Geomorphology and Contemporary Issues. Geography of the Physical Environment. Springer, Cham. https://doi.org/10.1007/978-3-031-04532-5_12 , Online ISBN- 978-031-04532-5
6	Biplab Biswas ., Rajak, C. (4 th Sept) 2022, Tropical Cyclone: A Natural Disaster with Special Reference to <i>Amphan</i> . In: Mandal, S., Maiti, R., Nones, M., Beckedahl, H.R. (eds) Applied Geomorphology and Contemporary Issues. Geography of the Physical Environment. Springer, Cham. https://doi.org/10.1007/978-3-031-04532-5_27 , Online ISBN- 978-031-04532-5
5	Debduti Dey, Chalanika Laha Salui , and Biplab Biswas , 2022, “Impact Assessment of Open Cast Mining Activity in ADDA Region, Paschim Bardhaman on Land Surface Temperature” in P. K. Shit et al. (eds.), Geospatial Technology for Environmental Hazards, Advances, in Geographic Information Science, pp – 63-74, Springer, https://doi.org/10.1007/978-3-030-75197-5_4 , Online ISBN- 978-030-75197-5
4	Biplab Biswas , 2018, Discourses on Human Nature Interaction in Eastern India, Rhito Prakasan, Kolkata, ISBN: 978-81-938090-8-2

3	Tikedar, S., Biplab Biswas , 2013, Changing Cropping Pattern and Situation of Ground Water Resource: A Case Study of Bhatar Block, Burdwan District, West Bengal,” in Jana, N.C. et.al. (eds.) ‘ <i>Resources and Development - Issues and Concerns</i> ’, pp- 105- 122, ISBN:978-81-8064-252-4
2	Prakasam, C. and Biplab Biswas , 2013, Surface Water Conservation Zone Identification, using GIS for Water Stressed Area, part of Burdwan District, West Bengal, India, in Mukhopadhyay, S. (eds.), <i>Geospectrum</i> , acb publication, Kolkata, pp – 133-146, ISBN 81-87500-70-0
1	Prakasam, C. and Biplab Biswas , 2012 (a), Water Stressed Management System: A GIS Approach, in <i>Water: The Epic Struggle for 21st Century</i> , (B. C. Jat eds.), Aavishkar Publisher, Distributors, ISBN-978-81-7910-404-0, 807, Vyas Building, Chaura Rasta, Jaipur – 302 003, Rajasthan, pp- 194-209

13. Sanctioned Research project:

S. No.	Title of the Sanctioned Project	Agency	Period	Grant/ Amount mobilized (INR)
i.	Potentiality of Alternative Agriculture in Water Stressed Burdwan: A Case Study of Ausgram I and II Block	Science and Technology Department, Govt. of West Bengal	2007-2009	5,30,282.00
ii.	‘Role of Fluvial Geomorphology in Arsenic Distribution in Ground Water in Purbasthali I and II blocks of Burdwan District: A Remote Sensing and GIS Approach’	UGC, Govt. of India	2011-2014	8,14,400.00
iii.	Principal Investigator, 21 Days NRDMS, DST, Govt. of India sponsored Training Program on GEOMATICS	NRDMS, DST, Govt. of India	2012	9,00,000.00
iv.	‘Use of remote sensing and Geographical Information System for data base generation and baseline mapping of water stressed areas driven by socio-economic, land use land cover and climatic changes of Burdwan District, West Bengal’	SERB, DST, Govt. of India	2013-2017	44,92,000.00
v.	Principal Investigator, 21 Days NRDMS, DST, Govt. of India sponsored Training Program on GEOMATICS	NRDMS, DST, Govt. of India	2014	10,00,000.00
vi.	Principal Investigator, 21 Days NRDMS, DST, Govt. of India sponsored Training Program on GEOMATICS	NRDMS, DST, Govt. of India	2017	10,00,000.00
vii.	Principal Investigator, 21 Days NRDMS, DST, Govt. of India sponsored Training Program on GEOMATICS	NRDMS, DST, Govt. of India	2020	10,00,000.00
viii.	Principal Investigator, 7-Days SERB, DST, Govt. of India sponsored “KARYASHALA” (Training Program) on <i>WebGIS Technology and Applications in Resource Management using FOSS4G</i> ”	SERB, DST, Govt. of India	2022	5,00,000.00
ix.	Principal Investigator, 2-Weeks IIRS-ISRO, Govt. of India sponsored Capacity Building Program on “Space based Technologies for Disaster Management with Special Reference to Flood”	IIRS, ISRO, Govt. of India	2023	9,12,400.00

	TOTAL			1,11,49,083.00
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i. **A Research Project has been Sanctioned and Completed.**

Sanctioning Body : Government of West Bengal
Science and Technology Department,
Bikash Bhavan (4th Floor)
Eastern Block, Bidhan Nagore
Kolkata – 700091

Sanctioned Amount : Rs.5,30,282/-

Duration : 2007 - 2009

Topic of the Project :

'Potentiality of Alternative Agriculture in Water Stressed Burdwan: A Case Study of Ausgram I and II Block'

The outline of the project is to develop different thematic maps (GIS) of the study area (Gram Panchyat(s)) and to impress upon the farmer of the region to adopt an alternative farming practices which will be more profitable at the one hand and at the same time to make them aware of benefits of alternative farming practices to manage water stressed condition.

Basic objective of the research project were-

- To generate information system (GIS) of each plot/dag of the selected village(s) of the selected backward Gram Panchyat;
- To find out the existing agricultural practices;
- To find out existing water resources (Surface water body);
- Water (Irrigation) requirement for the existing agricultural practices;
- To find out the physical and chemical properties of the soil.
- To find out the market demand for the suggested crops;
- The *final aim* was to put forward the suggestion for alternative agricultural practices so that the marginal farmers get more profit.

For the preparation of LULC of the study area, satellite data of Resourcesat 1, LISS-IV_Mx geocoded data was purchased and used. Spatial resolution of the sensor is 5.8m. The cadastral maps (*Mouza*) were superimposed over the classified satellite image to obtain plot-wise LULC data. Classification of the satellite image (RS) and the GIS work were done with help of **ERDAS** and **Arc/Info** software.

ii. **A Research Project has been Sanctioned and Completed**

Sanctioning Body : University Grants Commission
Government of India
Bahadur Shah Zafar Marg,
New Delhi – 110002

Sanctioned Amount : Rs.8,14,400/- (Eight Lakh Fourteen Thousand Four Hundred Only)

Duration : 2011 - 2014

Topic of the Project :

'Role of Fluvial Geomorphology in Arsenic Distribution in Ground Water in Purbasthali I and II blocks of Burdwan District: A Remote Sensing and GIS Approach'

Basic objective of the research project were-

- To map and generate information system (GIS) of land use / land cover of each village of the Purbasthali Block (I & II);
- To map and generate information system (GIS) of Geomorphic Features of each village of the Block (I & II);
- To identify and map the location of tube wells near the **distinguished geomorphic features** and in other areas as well to represent the whole study area;
- To study the relationship among the land use / land cover, distribution of geomorphic features, depth of tube wells with the level of arsenic contamination;
- To identify the vulnerable group of population, their occupation and degree of dependence on the arsenic contaminated water; and
- The *final aim* was to put forward the **suggestions for alternative / probable sources of arsenic free water** for domestic and other uses by the vulnerable population.

For the preparation of LULC of the study area, satellite data of IRS P6, Mx, geocoded data is being used. The geomorphic features will be identified and will be superimposed over the classified satellite image to obtain village wise LULC and geomorphic data. Tube wells around the major geomorphic features and from other inhabited areas will be located using **DGPS**. Classification of the satellite image (RS) and the GIS work to be done with help of **ERDAS** and **ArcGIS** software. Intensive field work will be done to verify the accuracy of the image classification and super imposition of the geomorphic map, location of tube wells over the satellite image.

iii. **A Research Project has been Sanctioned and Completed**

Sanctioning Body : Natural Resource Data Management System (NRDMS)
Ministry of Science and Technology
Department of Science and Technology
Technology Bhavan, New Mehrauli Road,
New Delhi – 1100016

Sanctioned Amount : Rs. 9, 00,000/- (Nine Lakh Only) for one Program.

Duration : 2012 (15th June to 4th July 2012)

Topic of Project : **21 Days NRDMS, DST, Govt. of India sponsored 1st Summer/Winter School – GEOMATICS-2012**

The course is meant for the capacity building of the College and University teachers to enhance the capacity and knowledge on the Remote Sensing (RS) and Geographical Information System (GIS). The theoretical classes will be taken by the eminent Teachers, Scientists from institutes like.

iv. **A Research Project has been sanctioned**

Sanctioning Body : Science and Engineering Research Board (SERB)
Technology Bhavan, New Mehrauli Road,
New Delhi – 110016

Sanctioned Amount : Rs.44,92,000/-
(Fourty Four Lakh Ninety Two Thousand Only)

Duration : 2013 - 2017

Topic of the Project :

‘Use of remote sensing and Geographical Information System for data base generation and baseline mapping of water stressed areas driven by socio-economic, land use land cover and climatic changes of Burdwan District, West Bengal’

The present research would like to look into these factors at a regional scale & would like to develop SLUC model to study the changing water availability and water scarcity of the District Burdwan. The district is well known for its agricultural activities, industrial activities and also for mining activities. The district is bounded by three major rivers, the Damodar & Ajoy in the South & North and the river Bhagirathi-Hoogly in the east. Presently, the district is facing the problems of water for agriculture, industries and power generation. Thousands of people are facing the water stressed due to unavailability and poor access of the water due to pollution from Arsenic, Fluoride and others. A details study is needed to model and map the combining effects of the changing socio-economic conditions, land use land cover and climate change for proper management and plan for the sustainable development of the region and the same model may be applied to many other regions of the India and world. The latest technology of remote sensing and Geographical Information System (GIS) is going to be the major tools and technique to be employed to make the research more convenient and perfect.

v. A Research Project has been Sanctioned and Completed

Sanctioning Body : Natural Resource Data Management System (NRDMS)
Ministry of Science and Technology
Department of Science and Technology
Technology Bhavan, New Mehrauli Road,
New Delhi – 1100016

Sanctioned Amount : Rs. 10, 00,000/- (Ten Lakh Only) for one Program.

Duration : 2014 (25th June to 15th July 2014)

Topic of Project : **21 Days NRDMS, DST, Govt. of India sponsored 2nd Summer/Winter School – GEOMATICS-2014**

The course is meant for the capacity building of the College and University teachers to enhance the capacity and knowledge on the Remote Sensing (RS) and Geographical Information System (GIS). The theoretical classes will be taken by the eminent Teachers, Scientists from institutes like.

vi. A Research Project has been Sanctioned and Completed

Sanctioning Body : Natural Resource Data Management System (NRDMS)
Ministry of Science and Technology
Department of Science and Technology
Technology Bhavan, New Mehrauli Road,
New Delhi – 1100016

Sanctioned Amount : Rs. 10, 00,000/- (Ten Lakh Only) for one Program.

Duration : 2017 (17th February to 9th March)

Topic of Project : **21 Days NRDMS, DST, Govt. of India sponsored 3rd Summer/Winter School – GEOMATICS-2017**

The course is meant for the capacity building of the College and University teachers to enhance the capacity and knowledge on the Remote Sensing (RS) and Geographical Information System (GIS). Eminent Teachers, Scientists from institutes like, will take the theoretical classes.

vii. A Research Project has been Sanctioned and Completed

Sanctioning Body : Natural Resource Data Management System (NRDMS)
Ministry of Science and Technology
Department of Science and Technology
Technology Bhavan, New Mehrauli Road, New
Delhi – 1100016

Sanctioned Amount : Rs. 10, 00,000/- (Ten Lakh Only) for one Program.

Duration : 9th January to 29th January 2020

Topic of Project : **21 Days NRDMS, DST, Govt. of India sponsored 4th Summer/Winter School – Disaster Management: Level-II**

The course is meant for the capacity building of the College and University teachers to enhance the capacity and knowledge on the Remote Sensing (RS) and Geographical Information System (GIS). Eminent Teachers, Scientists from institutes like, will take the theoretical classes.

viii. A Research Project has been Sanctioned and Completed

Sanctioning Body : Science and Engineering Research Board (SERB)

Sanctioned Amount : Rs. 5,00,000/- (Five Lakh Only)

Duration 6th April 2022 to 12th April 2022

Topic of Project : **7-Days SERB, DST, Govt. of India sponsored
“KARYASHALA” (Training Program) on WebGIS Technology and
Applications in Resource Management using FOSS4G**

The course is meant for the capacity building of the College and University teachers to enhance the capacity and knowledge on the Remote Sensing (RS) and Geographical Information System (GIS). Eminent Teachers, Scientists from institutes like, will take the theoretical classes.

ix. A Research Project has been Sanctioned and Completed

Sanctioning Body : Indian Institute of Remote Sensing (IIRS)
Department of Space
Indian Space Research Organisation (ISRO)
Dehradun – 248001, INDIA

Sanctioned Amount : Rs. 9,12,400/- (Rupees Nine Lakh Twelve
Thousand and Four Hundred Only) for one
Program.

Duration (**Proposed**) 17th August to 30th August 2022

Topic of Project : **2-Weeks, IIRS, ISRO, Govt. of India sponsored Capacity
Building Program on Space based Technologies for Disaster
Management with Special Reference to Flood**

The course is meant for the capacity building of the College and University teachers to enhance the capacity and knowledge on the Remote Sensing (RS) and Geographical Information System (GIS). Eminent Teachers, Scientists from institutes like, will take the theoretical classes.

14. **Research Guidance:** Successfully Guided Five Ph.D and Two M.Phil. Students.

Sl. No.	Number Enrolled	Thesis submitted	Degree Awarded (Date)
Ph.D.			
1	Ph.D Regn/Geog/SC/228/1(4) Dated: 15.01.2008	YES	12 th Nov 2012
2	Ph.D/Regn./Geog/SC/46 Dated: 29.06.2009	YES	13 th Oct 2014
3	Ph.D/Regn./Geog/SC/39 Dated: 29.06.2009	YES	2 nd Dec 2014
4	R-Ph.D. /Regn./Geog/SC/44 Dated: 29.06.2009	YES	13 th Feb 2015
5	R/PhD./Regn/Sc/Geog/SC/642 Dated: 20/03/2013	YES	27 th Aug 2019
6.	R/PhD./Regn/Sc/Geog/SC/200 Dated: 24/07/2019	YES	27 th December 2024
M.Phil.			
1	Animesh Panja		2012
2	Rima Hati		2017
3	Shilpa Saha		2022
4	Biplab Mondal		2022
5	Nirmal Mondal		2024

15. **Paper Presented in Conference/ Seminar/ Symposia/Workshop:**

A. National Conference/ Seminar/ Symposia/Workshop

23. Participated MHRD, Govt. of India sponsored One-Day National Workshop on “Climate Change and Water Crisis”, IEST, Shibpur Howrah, on 21st June [2019](#).

22. Participated UGC-HRDC, the University of Burdwan sponsored One-Day National Workshop on “NAAC & National Institutional Ranking Framework”, The University of Burdwan, Burdwan, on 15th May [2019](#).

21. Presented a (joint) paper entitled, ‘*Geographical Analysis of Malaria in Bengal*’ in the **2nd Regional Science and Technology Congress (Western Region)**, Government of West Bengal, Department of Science and Technology, The University of Burdwan University, West Bengal, **Burdwan**, 16-17 November, [2017](#).

20. Attended NRDMS, DST, Govt. of India sponsored Two-Day National Workshop on “Strengthening Capacity Building in Geospatial Education”, JNTU, Hyderabad, 09th and 10th May [2017](#).

19. Attended NRDMS, DST, Govt. of India sponsored Two-Day national Workshop on “Strengthening Capacity Building in Geospatial Education”, Institute of Environment Education and Research, Bharathi Vidyapeeth University, **Pune**, 22-23 August [2016](#).

18. Presented a paper entitled, ‘*Morpho-stratigraphic localization of Arsenic Contamination: A case of Purbasthali – I and II Block*’ in the 21st **West Bengal State Science and Technology Congress**, Government of West Bengal, Department of Science and Technology, The University of Burdwan,

Burdwan, February 20th and 21st February, [2014](#).

17. Presented paper entitled, “Socio-economic Impact of Arsenic Contamination: A case of Purbasthali – I and II Block” in the **state level** seminar on “Literature & Natural Resource” organized by **CDSR** in Collaboration with **NABARD** on 13th January, [2013](#), Kishnagar, Nadia.

16. Presented paper entitled, “*Geomorphic Characterization of Arsenic Contamination of Ground Water of Purbasthali I and II Block*”, in the **National Symposium** on Space Technology for Food and Environmental Security & annual Convention of Indian Society of Remote Sensing and Indian Society of Geomatics, New Delhi on 5th – 7th December, [2012](#).

15. Attended **Workshop** for the Course Writers and Editors for the Bachelor’s Degree Program in Geography, conducted by Discipline of Geography, School of Sciences, **IGNOU**, New Delhi on 27th – 28th August, [2012](#).

14. Presented a paper entitled, ‘*Planning for Resource Development at Cadastral Level using Remote Sensing and GIS*’, **National Seminar** on Resource Management and Sustainable Development held at East Calcutta Girls’ College, Lake Town, **Kolkata**, 23-24 September, [2011](#).

13. Presented a paper entitled, ‘*Generation of Land Use Land Cover at the Cadastral Level using Remote Sensing and GIS*’, **Regional Conference** on Geomatics for Good Governance (G_GOVERNANCE-2011) held at University of Kashmir, Srinagar, **Kashmir** (J&K), 13-14 September, [2011](#).

12. Presented a paper entitled, ‘*Geomorphic Controls of Arsenic in Ground Water in Purbasthali I and II Blocks of Burdwan District*’ **National Seminar** on Sustainable Development and Disaster Management held at Department of Geography, Rabindra Bharati University, **Kolkata**, 27 March, [2010](#).

11. Presented a paper entitled, ‘*Socio-economic Implication of Arsenic Toxicity in Purbasthali I and II Blocks of Burdwan District*’ **National Seminar** on Knowing the Social: Research & Methods in Sociology at Department of Sociology, West Bengal State University, **Kolkata**, 2-3 March, [2010](#).

10. **Organized** and Participated in the Three Day **Workshop** on Open Source GIS: QGIS, organized by the Department of Geography, WBSU, **Kolkata**, 14- 16 October, [2009](#).

9. Presented a paper entitled, ‘*Changing Water Resources Study Using GIS and Spatial Model - A Case Study of Bhatar Block, District Burdwan, West Bengal, India*’ **National Conference** on Computing & Communication System, Organized by University Institute of Technology, The University of Burdwan, **Burdwan**, 02 – 04 January, [2009](#).

8. Presented a paper entitled, ‘*Nature and extent of Arsenic Distribution of Purbasthali I and II Blocks of Burdwan District*’ **ISRS Symposium** – 2008 on Advances in Remote Sensing Technology and application with Special Emphasis on Microwave Remote Sensing at NIRMA University, **Ahmedabad**, 18 – 20 December, [2008](#).

7. Participated in the **National Workshop** on Geospatial Technology: Principles and applications, Organized by Department of Geography, School of Geosciences, Bharathidasan University, **Thiruchirappally**, March 22 – 24, [2007](#).

6. Presented a paper entitled, ‘*Potentiality of Alternative Agriculture: A case study of a village of Burdwan Police Station*’ in the **14th West Bengal State Science and Technology Congress**, Government of West Bengal, Department of Science and Technology, Jadavpur University, West Bengal Vigyan Mancha, Jadavpur University, **Kolkata**, February 28th – 1st March, [2007](#).

5. Attended **Workshop** on Quantitative Techniques for Research Workers Jointly Organized by the Department of Statistics, The University of Burdwan and IAPQR, The University of Burdwan, **Burdwan**, 24-26 August, [2006](#).

4. Presented a paper entitled, ‘*Rural Development in West Bengal: An Exploratory Analysis of Burdwan Police Station*’, **ECONference 2005-06**, Research Scholars’ **Workshop**, Department of Economics, Burdwan University, **Burdwan**, 26 – 27 September, [2005](#).

3. Presented a paper entitled, '*Identifying LULC change in the Bed of the River Damodar in Burdwan Police Station and its impact on Channel Morphology*' Research Scholars' **Workshop**, Department of Economics, Burdwan University, **Burdwan**, 26 – 27 September, [2005](#).
2. Presented a paper entitled, '*Measuring Rural Development: A Case Study of Burdwan Police Station*' in the UGC – Sponsored **Seminar** on "New Directions in rural Development in West Bengal", Organized by Rabindra Bharati University, **Kolkata**, 25 – 26 February, [2005](#).
1. Presented a paper entitled, '*Dam and Hydroelectricity: Some Facts*' in the **National Seminar** on Land and Water Management in India, ILEE & IBRAD, **Kolkata**, 13 – 14 December, [2002](#).

B. Attended International Conference/ Seminar/ Symposia/Workshop

14. Presented a (joint) paper entitled, '*Landslide Susceptibility Zonation Mapping using Remote Sensing and GIS in Eastern Himalaya, India*' in the **XIV International Geographical Union (IGU)-India**, 6-8th March, [2020](#).
13. Presented a (joint) paper entitled, '*Air Pollution and Land Use Land Cover Types and Changes: A Review*' in the **2nd International Conference on Frontiers in Biological, Environmental and Medical Sciences, 2019**, The University of Burdwan University, West Bengal, **Burdwan**, 7-9th March, [2019](#).
12. Participate in the **International Workshop** on "Integrated Environmental Health Impact Assessment (IEHIA) on Air Pollution and Climate Change in Mediterranean Areas" and presented paper entitled, "*GEOSS: An Intelligent Methodology for Identifying Site Suitability of Air Sample Collection*" held in The Abdus Salam International Centre for Theoretical Physics (ICTP), during April 23-28, [2018](#), **Trieste, ITALY**.
11. Presented a **invited lecture** entitled "Evolution of Jamshedpur: A Geospatial Approach", in the **Indo-Japan joint Workshop** on 'The Comparative History of City Growth in India and Japan: A Case of the Iron and Steel Cities', 4th and 5th September, [2017](#), **Kanazawa, JAPAN**.
10. Presented a paper entitled "Spatial Dynamics and Landscape Transformation of Jamshedpur: A GIS approach", in the **Indo-Japan joint Workshop** on 'The Comparative History of City Growth in India and Japan: A Case of the Iron and Steel Cities', 7-8th January, [2017](#), **Jamshedpur, India**.
9. Presented a paper entitled "Use of GIS to evaluate the role of Land Use Land Cover on Groundwater Arsenic Contamination", in the FOSS4GASIA, 2017, 26th to 29th January, [2017](#), **IIIT, Hyderabad, India**.
8. Attended the OSGEO-India and IIIT Hyderabad Organized International Conference on Free and Open Source Solutions for Geoinformatics FOSS4GASIA **Workshop**, 26th to 29th January, [2017](#), **Hyderabad, India**.
7. Presented paper entitled, "Human response towards arsenic hazard & GIS application for its management: A case study of Purbasthali I and II Block, Burdwan", in the **XVII World Economic History Congress**, Kyoto, **JAPAN**, 3rd Aug to 7th Aug [2015](#).
6. Presented a paper entitled, 'Planning reclamation, Preservation and Conservation of Water for West Bengal, India: A Concept paper', in the **International Geographical Union (IGU) Conference** on GEOINFORMATICS FOR BIODIVERSITY AND CLIMATE CHANGE, Department of Geography, Maharshi Dayanand University, **Rhotak, Haryana (INDIA)**, 14- 16 March, [2013](#).
5. Attended **GEOSTAT 2010 Summer School**, Spatio-temporal Data Analysis with R+SAGA/GRASS+Google Earth at Centro Universitario de Plasencia, Avda Virgen del Puerto, 2, 10600, **Plasencia, SPAIN**, 28rd June – 3rd July, [2010](#).
4. Presented a paper entitled, '*Identifying the surface Water Resource in Ausgram Block I and II, Burdwan District, west Bengal, India, Based on Morphometric Analysis using GIS*' **International Conference** on Environment, Resource and Regional Development, At Department of Geography, **Burdwan University**, 15th of February, [2010](#).

The University of Burdwan, **Burdwan**, March 8-9, [2010](#).

3. Presented a paper entitled, '*Impact of Human Activities on LULC Change: A case study of Burdwan Police Station*' The 10th **Summer Institute**, The Pacific Regional Science Conference Organization (PRSCO), **Dhaka, BANGLADESH**, 15-17 May, [2008](#).

2. Presented a paper entitled, '*Modeling of LULC Change in Burdwan Police Station: A Spatial Modeling Approach*' in **International Conference** on "Issues in Development Economics: Environment, Cultural & Society", Department of Economics, Burdwan University, **Burdwan**, 28 – 29 January, **2006**.

1. Attended **International Workshop** on Digital Geography and Mapping, APGEOS, **Hyderabad**, 20 – 21 January, [2005](#).

C. Delivered Special Lecture as Resource Person/Key Note Speaker in Conference/Seminar/Symposia/Workshop/Summer School:

50. Delivered lecture on the Theme – "Advanced Environmental Management Strategies for a Greener Tomorrow" in the eve of 23rd Foundation Day of Environmental Science Department, The University of Burdwan, Burdwan on [10th of December 2024](#).

49. Delivered invited talk on [29.11.2024](#), as Resource Person at the 2nd "International Seminar on Innovative Approaches in Geographical Research (LAGR)", during 29-30th November 2024, organized by Department of Geography, and IQAC, Rampurhat College, Rampurhat.

48. Delivered Special Lecture on [27.09.2024](#) in the *A Two-Day International Conference on "Urban India: Problems and Prospects"* September 27 & 28, 2024, organized by the *Foundation of Practising Geographers*, Kolkata during 27 & 28th September, 2024

47. Delivered lecture on [14.11.2024](#) as a resource person Resource Person for the Six Day Short-Term Programme on Disaster Management for University and College Teachers from 11 – to 16th November 2024, organized by the Malaviya Mission Teacher Training Centre, Central University of Kerala.

46. Delivered Keynote Speech on [20.03.2024](#) in the "International Conference on Sustainable Development: Emergent Issues", jointly organized by Department of Lifelong Learning & Extension (REC), Palli Samgathana Vibhaga (PSV), Visva-Bharati, Santiniketan & Foundation of Practising Geographers, Kolkata during 20-21 March 2024. Title of the talk was "*Sustainable Development: Emergent Issues*".

45. Delivered invited talk (on [10.12.2023](#)) in the RC in "**Emerging Trends in Science and Technology** from **09.12.2023 to 22.12.2023**". The title of the talk was "*The Future of GIS: Trends and Innovations in Geospatial Technology*" organised by Malaviya Mission Teacher Training Centre, the University of Burdwan, Burdwan.

44. Delivered invited talk in the Ten day's workshop on the entitled "**Research Methodology**" for M.Phil/Ph.D/PDF scholars in Social Sciences in collaboration with ICSSR, New Delhi, on and from 4th -14th December, 2023 organised by Malaviya Mission Teacher Training Centre, the University of Burdwan, Burdwan.

43. Delivered invited talk SERB Sponsored High-End Workshop (KARYASHALA) on "Concepts and Applications of GIS, Remote Sensing and Global Navigation Satellite Systems" during July 10–16, 2023 Department of Electronics and Communication Engineering, National Institute of Technology Jamshedpur.

42. Delivered invited talk in the 5-Day Training Program on the "**Earth Observation (EO) Data Analysis for Disaster Management focusing on Flood and Drought**" [10-14th July 2023](#), Indian Statistical Institute (ISI), Kolkata.

41. Delivered Invited talk entitled "**World Water Day – 2023 – Accelerate the Change**" on [22nd March 2023](#) at the National Seminar – "World Water Day – 2023", organized by the Indian Society of Remote Sensing – Kolkata Chapter, Kolkata, West Bengal on 22nd March, 2023.

40. Delivered Invited talk entitled “**Coding to Decode Diwali Pollution**” on [28th January 2023](#) at the International Seminar – “Decoding Geography”, organized by the Foundation of Practicing Geographers, Kolkata, West Bengal during 27-28th January 2023.
39. Delivered Invited talk entitled “**Air Pollution and Public Health: Re-Connecting Through Literature**” on [11th November 2022](#) at the International Level Seminar, organized by the Department of Geography, Cooch Behar Panchanan Barma University, Cooch Behar, West Bengal.
38. Delivered Invited talk entitled “**Atmospheric Remote Sensing of Ambient Air Pollution and Public Health**” on [12th May 2022](#) organized by the Shanghai Intelligent Medical Devices and Active Health Collaborative Innovation Centre, Shanghai University of Medicine & Health Science, China.
37. Delivered Invited talk entitled “**Use of Remote Sensing and GIS for Identification and Mapping Wetlands**” on [30rd April 2022](#) organized by the DISPER, Dev Sangha Institute of Professional Studies and Educational Research, Deoghar, Jharlhand.
36. Delivered Invited talk entitled “**Geospatial Tools for (biodiversity) Characterization of Wetlands**” on [23rd April 2022](#) at the National Level Seminar, organized by the Department of Geography, Sarat Centenary College, Dhaniakhali, West Bengal.
35. Delivered Invited talk entitled “**An Overview of the Geospatial Ecosystem in India**” on [26th February 2022](#) at the Online National Level Seminar, organized by the Department of Geography, Cooch Behar Panchanan Barma University, Cooch Behar, West Bengal.
34. Delivered Invited talk entitled “**Remote Sensing of Ambient Atmosphere Concept and Application**” on [29th January 2022](#) at the Online National Level Seminar, organized by the Department of Geography, Cooch Behar College, Cooch Behar, West Bengal.
33. Delivered Invited talk entitled “**Application of Remote Sensing and GIS in Real time Flood Management**” on [15th January 2022](#) at the Online Workshop, organized by the UGC-HRDC, Doctor Harisingh Gour Vishwavidyalaya (A Central University) Sagar, MP.
32. Delivered Invited talk entitled “**Geo-data Collection from Other Sources**” on [18th September 2021](#) at the Online Workshop, organized by the Department of Geology, Govt. Holkar College, Indore.
31. Delivered Invited talk entitled “**Mapping Flooding extent due to ‘Yaas’ and comparing it with ‘Amphan’ using Sentinel-1 imagery in Google Earth Engine**” on [5th July 2021](#) at the Online Special Lecture, organized by the Department of Geography, Kishore Bhagini Nivedita College, Kolkata.
30. Delivered Invited talk entitled “**Geo-big data analysis to map flooded area of South 24 Parganas due to Super Cyclone ‘Yaas’ using Sentinel-1 imagery and Google Earth Engine**” on [6th July 2021](#) (Tuesday) at the Online Departmental Special Lecture Series, organized by the Department of Geography, East Calcutta Girls’ College, Kolkata -89.
29. Resource Person and demonstrated practices on “Use of FOSS4G for Environmental Studies” in the **Refresher Course in Environmental Science**, held at HRDC, The University of Burdwan, Golapbar on [15th February 2021](#).
28. Resource Person and delivered lecture on “**Research Methodology and Open Source- Concept, Data and Software**” in the **2 weeks refresher course on Earth Sciences**, held at HRDC, Himachal Pradesh University, Shimla - 5 on [15th December 2020](#).
27. Resource Person and delivered lecture on “Methodology of Literature Search - a Case of Air Pollution and Public Health” in the **Faculty Development Program**, held at The Central University of Kerala on [20th November 2020](#).
26. Invited talk in Webinar on “**GIS Day**” Celebrations and delivered lecture on “*Data Incorporation and Visualization Methods in GIS*”, held at Indian Society of Remote Sensing, Kolkata Chapter on [18th November 2020](#).

25. Resource Person in the **International Webinar on “Environment, Development and Sustainability”** and delivered lecture on “*Mapping of COVID-19 in West Bengal Using GIS*”, held at Krishna Chandra College, Hetampore on 20th **September 2020**.
24. Resource Person in the National Webinar on “Impact of COVID_19 in Society” and delivered lecture on “*GIS Mapping of COVID-19 in West Bengal*”, held at Berhampore School of Social Research on 6th **August 2020**.
23. Resource Person in the **International Webinar on “Sustainable Development”**, and delivered lecture on ‘*Challenges of Climatic Disaster – AMPHAN*’, held at Department of Geography, Kandra Radhakanta Kundu Mahavidyalaya, Burdwan on 29th **July 2020**.
22. Resource Person in the International Webinar Series on “**Developmental Challenges of Climatic Hazard and Malnutrition: The Road Ahead**”, and delivered lecture on ‘*Challenges of Climatic Disaster – AMPHAN*’, held at Department of Geography, Michael Madhusudan Memorial College, Durgapur on 18th **July 2020**.
21. Resource Person in the Webinar Series on “**Perception Environmental Planning and Management**”, and delivered lecture on ‘*Tropical Cyclone AMPHAN - a Natural Disaster*’, held at Department of Geography, Chandidas Mahavidyalaya, Burdwan on 7th **July 2020**.
20. Resource Person in the Webinar Series on “**Disaster Management**”, and delivered lecture on ‘*Natural Disaster – with special emphasis on AMPHAN*’, held at Department of Environmental Science, School of Earth Science Systems, Central University of Kerala, Kasaragod, Kerala on 6th **July 2020**.
19. Resource Person and delivered lecture on “Use of FOSS4G for Environmental Studies” in the **Refresher Course in Environment and Sustainability**, held at HRDC, The University of Burdwan, Golapbag on 15th **January 2020**.
18. Resource Person and delivered lecture on “*Role of RS and GIS for Mitigating Disaster*” in the **Refresher Course in Natural and Man-Made Disaster Causes, Impact and its Management**, held at HRDC, The University of Burdwan, Golapbag on 6th **December 2019**.
17. Resource Person in the **Workshop on Use of GIS for Economic Analysis**, held at Department of Economics, The University of Burdwan, Golapbag on 19th **November 2019**.
16. Resource Person in the **Workshop on MOOCs, E-content Development and Open Educational Resources for one week**, held at HRDC, The University of Burdwan, Golapbag on 24th **July 2019**.
15. Resource Person in the **114th Orientation Programme**, held at HRDC, The University of Burdwan, Golapbag on 9th **July 2019**.
14. Resource Person in the **Workshop on Remote Sensing & GIS**, held at HRDC, The University of Burdwan, Golapbag on 14th **March 2019**.
13. Resource Person in the **113th Orientation Programme**, held at HRDC, The University of Burdwan, Golapbag on 13th **February 2019**.
12. Resource Person in the **112th Orientation Programme**, held at HRDC, The University of Burdwan, Golapbag on 14th **December 2018**.
11. Resource Person for a special lecture on “**Open Source Data and Software for Geographical Analysis**”, held at Department of Geography, Rabindra Bharati University on 4th **December 2018**.
10. Resource Person in the **1st Refresher Course in Research Methodology & Data Analysis for Social Sciences**, held at HRDC, The University of Burdwan, Golapbag on 19th **November 2018**.

9. Resource Person in the **Two-Day 4th International Seminar**, held at the Department of Geography, University of Gourbangha, Maldah, West Bengal from **21st and 22nd March 2018**.
8. Resource Person in the **109th Orientation Program**, held at HRDC, The University of Burdwan, Golapbag on **21st February 2018**.
7. Resource Person in the ICSSR Sponsored **Research Methodology Course for MPhil/PhD/Pdf Scholars in Social Sciences**, held at the Department of Geography, The University of Burdwan, Golapbag on **17th February 2018**.
6. Resource Person in the **Winter School in Environmental Science & Earth Sciences**, held at the HRDC, The University of Burdwan, Golapbag on **17th February 2018**.
5. Resource Person in the **Two-Day 3rd International Seminar**, held at the Department of Geography, University of Gourbangha, Maldah, West Bengal from **19th and 20th April 2017**.
4. Resource Person in the **2nd RC in Research Methodology in Social Sciences**, held at HRDC, The University of Burdwan, Golapbag on **24th March 2017**.
3. Resource Person in the **Winter School in Biological Science**, held at the HRDC, The University of Burdwan, Golapbag on **11th January 2017**.
2. Resource Person in the NRDMS, DST, Govt. of India sponsored **Winter School on Geospatial Technologies and Applications**, held at the Chitkara University, Simla, Himachal Pradesh, India on **16th December 2016**.
1. Resource Person in the NRDMS, DST, Govt. of India sponsored **Winter School on Geospatial Technologies and Applications**, held at the Vidyasagar University, Midnapore, West Bengal, India on **6th December 2016**.

16. Organized Conference/ Seminar/ Symposia/Workshop/Summer School:

16. Organized as **Coordinator**, 2-Days ‘**Pre-event**’ of The Second United Nations World Geospatial Information Congress (UN-WGIC) on **“Indian Geospatial Ecosystem”** under National Geospatial Program (NGP), Department of Science and Technology Government of India, New Delhi during 26th to 27th May 2022, organized in the Department of Geography, The University of Burdwan, Purba Bardhaman.
15. Organized as **Principal Investigator**, the 7-Days ‘**Karyashala**’ on **“WebGIS Technology and Applications in Resource Management using FOSS4G”** under Science and Engineering Board (SERB), Department of Science and Technology Government of India, New Delhi during 6th to 12th April 2022, organized in the Department of Geography, The University of Burdwan, Purba Bardhaman.
14. Winter School –**2020**, 21-Day “Summer/Winter Training Program on Geospatial Technology and Applications under NRDMS Program in DST, Govt. of India”, organized in the Department of Geography, The University of Burdwan, Purba Bardhaman during 9th January to 29th January 2020.
13. Organized as **Principal Investigator**, the 4th Winter School –**2020**, 21-Day “Summer/Winter Training Program on Geospatial Technology and Applications under NRDMS Program in DST, Govt. of India”, organized in the Department of Geography, The University of Burdwan, Purba Bardhaman during 9th January to 29th January 2020.
12. Organized Three-Day International Seminar of **ANGIS**, Asian Network for GIS based Historical Study – **“Connecting Geography, History and EconomicsLooking Beyond Where”** as **Convener** during 29th November to 01st December 2018.
11. Organized One-Day International Seminar on ‘System Dynamics, Human-Nature Interaction and

Societal Discourse’ as Head of the Department and **Convener** on 18th Nov. 2018

10. Organized DST PURSE (Phase 2) sponsored 1st Three-Day International Conference on “Frontiers in Biological, Environmental and Medical Sciences (**FBEMS 2018**)” as **Convener** during March 8 – 10, 2018

9. **Organizing Member** of the second edition of **FOSS4G-ASIA-2017** Conference, held at IIIT, Hyderabad during 26-29th January 2017

8. Organized as **Principal Investigator**, the 3rd Summer/Winter School – **GEOMATICS-2017**, 21 Day “Summer Training Program on Geospatial Technology and Applications under NRDMS Program in DST, Govt. of India”, organized in the Department of Geography, The University of Burdwan, Burdwan during 17th February to 9th March 2017.

7. Organized One-Day International Seminar on ‘Environment, Public Health and GIS (**EPH & GIS**)’ as **Convener** on 26th August, 2016

6. Organized as **Principal Investigator**, the 2nd Summer/Winter School – **GEOMATICS-2014**,

5. 21 Day “Summer Training Program on Geospatial Technology and Applications under NRDMS Program in DST, Govt. of India”, organized in the Department of Geography, The University of Burdwan, Burdwan – 713104 during 25th June to 15th July 2014

4. Organized the 35th Institute of Indian Geographers’ (IIG) Meet as **Joint Organizing Secretary**, to be held on and from 11th to 13th November, **2013**, at the Department of Geography, The University of Burdwan, Burdwan.

3. Organized as **Principal Investigator**, the 1st Summer/Winter School – **GEOMATICS-2012**, 21 Day “Summer Training Programme on Geospatial Technology and Applications under NRDMS Programme in DST, Govt. of India”, in the Department of Geography, The University of Burdwan, Burdwan – 713104 during 15th May to 4th June 2012.

2. Organized the 33rd Indian Geography Congress of National Association of Geographers India as **Joint Organizing Secretary**, Nov. 11 to 13, 2011.

1. Organized One-Day National Seminar on ‘Geo-Spatial Technology’ as **Organizing Secretary** on 29th March, **2008**.

17. **Award, Recognition, Patent etc.** :

(1) **National Scholarship**, 1996,

(2) **UGC-JRF** at JNU, New Delhi
From March 1998 to December 2000

(3) **Post Doctoral ‘Raman Fellowship’**

One Year Post-Doctoral Research Fellowship by Govt. of India through University Grants Commission (UGC) tenable to USA, 2014-2015

18. **Research Guidance:** M. Phil. Guidance : One Candidate
Ph.D. Guidance : Four Candidates

19. **Any other relevant information** :

Training Course : Attended **11 Weeks Training Course**
Topic : “**Remote Sensing** Technology and Applications (including Image Processing, Pattern Recognition and **GIS**)”,

Date : 13/07/1998 to 25/09/1998.
 At : National Remote Sensing Centre (Agency),
 Hyderabad,
 Andhra Pradesh

20. Editorial Activities in Journal:

Chief Editor: Journal of the Asian Network for GIS based Historical Studies (JANGIS – ISBN:2434 7094), <http://angis-japan.org/>

Editorial Board Member: Frontiers in Environmental Science,
<https://www.frontiersin.org/journals/environmental-science#>

21. Foreign travel for Academic Purposes:

Country/Countries Visited	Institution & Duration	Purpose of visit
Italy	ICTP, Str. Costiera, 11, 34151 Trieste TS, ITALY 22 nd April 2018 to 27 th April 2018	To participate Workshop on “Integrated Environmental Health Impact Assessment (IEHIA) on Air Pollution and Climate Change in Mediterranean Areas”
Japan	Department of Economics Osaka City University Osaka, JAPAN 14 th October to 21 st October 2017	Academic Meeting for Proposed Joint Research
Japan	Graduate School of Humanities and Sociology The University of Tokyo Tokyo, JAPAN 5 th and 6 th September 2017	To Presented a invited lecture entitled “Evolution of Jamshedpur: A Geospatial Approach”,
Japan	International Conference Centre (ICC), Kyoto, JAPAN 3 rd to 7 th August, 2015	To Presented research paper entitled, “Human response towards arsenic hazard & GIS application for its management: A case study of Purbasthali I and II Block, Burdwan”, in the in the XVII World Economic History Congress, Kyoto, Japan.
USA	Clinical Research Building Miller School of Medicine, The University of Miami, Miami, Florida, USA 15 th December 2014 to 14 th December 2015	To pursue Post-Doctoral Research on Atmospheric Pollution and Public Health
Spain	Centro Universitario de Plasencia, Avda Virgen del Puerto, 2, 10600, Plasencia, SPAIN 28 rd June – 3 rd July, 2010	To Participate GEOSTAT 2010 Summer School, Spatio-temporal Data Analysis with R+SAGA/GRASS+ Google Earth
Bangladesh	The Pacific Regional Science Conference Organization (PRSCO), Dhaka, BANGLADESH 15-17 May, 2008	To Present research paper in The 10 th Summer Institute, The Pacific Regional Science Conference Organization (PRSCO), Dhaka, Bangladesh

22. Referee:

Dr. Naresh Kumar,
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Miller School of Medicine
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Prof. Rajarshi Majumder,
Department of Economics,
The University of Burdwan,
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Prof. T. Mizushima,
Professor Emeritus
The University of Tokyo,
Hongo Campus, Tokyo
JAPAN
zushima2010@gmail.com

I declare that the entries made in the Curriculum Vitae are true to the best of my knowledge and belief

[BIPLAB BISWAS]