

BIO – SKETCH / CURRICULUM VITAE

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Research Areas

1. Geomorphology
2. Rural / Urban Geography and Environmental Issues
3. Landuse and Resource Management
4. Development Issues

Professional Interests

1. Fluvial Geomorphology
2. Geostatistics & Quantitative Geography
3. Cartography & Geoinformatics
4. Geographical / Development Issues
5. Research Methodology in Geography

Current Affiliations

1. Faculty: Seacom Skills University, West Bengal
2. Visiting Faculty: North Bengal University, West Bengal
3. Guest Faculty: University of Calcutta, West Bengal
4. Guest Faculty: West Bengal State University
5. Guest Faculty: Rabindra Bharati University, West Bengal
6. Guest Faculty: Netaji Subhas Open University, West Bengal
7. Guest Faculty: Prabhu Jagadbandhu College, West Bengal
8. Guest Faculty: East Calcutta Girl's College, West Bengal
9. Guest Faculty: Sarat Centenary College, West Benga

Employments

- April 2013 –** Chandernagore College, Govt. of West Bengal, University of Burdwan
Professor and Head, PG Department of Geography
West Bengal Senior Education Service
- une 1996 –** Presidency University (since 2010); Presidency College, Kolkata, India (University of Calcutta)
Professor and Head, Department of Geography (UG + PG)
West Bengal Senior Education Service
- June 1991 –** Haldia Govt. College, Haldia, West Bengal, India (Vidyasagar University)
Assistant Professor / Reader, Department of Geography
West Bengal Education Service
- January 1986 –** Presidency College, Kolkata, India (University of Calcutta)
Lecturer / Assistant Professor, Department of Geography
West Bengal Education Service
- April 1982 –** Chandannagar Govt. College, Chandannagar, Dist - Hooghly, West Bengal, India (University of Burdwan)
Lecturer, Department of Geography
West Bengal Education Service

June 1980 – District Collectorate, Krishnanagar, Nadia, West Bengal, India
Dy Magistrate & Dy Collector
West Bengal Civil Service (Executive)

Education

1. **Doctor in Philosophy / Urban Geography**(Ph.D. Sc) June 1991; Department of Geography, University of Calcutta
Title of Thesis: **Evolution of Size and Spacing of Urban Settlements of West Bengal, 1901 - 1981**
2. **M.Sc in Geography**,1978 (University of Calcutta) with Cartography as Special Paper (First Class First = University of Calcutta: Rank 1)
3. **Title of Dissertation: An Efficiency Classification of some selected Map Projections for India**
4. **B.Sc in Geography (Hons)**,1976 (Presidency College, University of Calcutta) with Cartography and Industrial Geography as Special Papers (First Class First = University of Calcutta: Rank 1)

Awards

1. **Presidency College Prize, 1975**
2. **Subrata Sengupta Medal, University of Calcutta, 1976**
3. **Jubilee Post-Graduate Merit Prize, University of Calcutta, 1976**
4. **National Scholar, 1976 - 1980**
5. **Calcutta University Gold Medal, 1978**
6. **West Bengal Govt. State Scholarship, 1984**

Research & Publications

Dissertation	= 42
M.Phil	= 02
Ph.D	=05 (awarded) + 06 (working)
M.Phil Thesis (Examined)	= 08
Ph.D Thesis (Examined)	= 14 (written) + 03 (oral)
Major Research Projects	= 02
Minor Research Projects	= 05
Research Articles	= 40 (01) + 02 (in press)
Research Papers	= 81 (28) + 02 (in press)
Books	= 10 + 03 (in progress)
Paper Presented in the International Seminar	= 19
Paper Presented in the National Seminar	= 82
Attended International Seminar	= 01
Attended National Seminar	= 07
Paper Presented in Other / Local Seminar	= 62
Resource Person in Seminar/ Symposium/ Conference	= 35
Courseworks / Hands-on Training (conducted and co-ordinated)	= 14 (written) + 03 (oral)

Research Papers

1. **Geomorphic Regions – a hypothesis**,Landscape Systems, 1979, 2 (1 & 2), pp 41 – 42, **ISSN 0971 4170**.
2. **On the Fluctuation of Water Table Surface in the District of Nadia, West Bengal**,Research Bulletin, 1981, No. – 1, CAAGR, pp 38 – 44.
3. **Some Selected Map Projections for India – their relative efficiencies**,Geographical Review of India, 1981, 43 (2), pp 182 – 195 (with Phani Bhusan Roy1), ISSN 0375 6386.
4. **Some Considerations in Theoretical Fluviology**, Geographical Review of India, 1984, 46 (2), pp 82 – 85, ISSN 0375 6386.
5. **Some Deductions in Theoretical Fluviology**,n Sen P (ed. 1985): Concepts and Methods in Geography, Institute of Geography, Burdwan University, pp 150 – 154.
6. **Rank – Size Distribution of Urban Settlements in West Bengal**, Geographical Review of India, 1987, 49 (4), pp 1 – 12, ISSN 0375 6386.
7. **Growth of Size – Class Distribution of Urban Settlements in West Bengal**, Geographical Review of India, 1988, 50 (1), pp 39 – 46, ISSN 0375 6386.
8. **A Study of Urban Growth in West Bengal during the period, 1901 – 1981**,Geographical Review of India, 1989, 51 (4), pp 65 – 74, ISSN 0375 6386.
9. **Pattern of Inter – Class Mobility of Urban Settlements in West Bengal, 1901 – 1981**,ndian Journal of Landscape Systems and Ecological Studies, 1990, 13 (1), pp 134 – 138,**ISSN 0971 4170**.
10. **Growth of Urbanization in West Bengal – a purview**, utanuty Gazette, 1990, 8 (8), pp 3 – 20.
11. **Tendency of the Urban Settlement Patterns in West Bengal, 1901 – 1981**Indian Journal of Landscape Systems and Ecological Studies, 1991, 14 (2), pp 50 – 55,**ISSN 0971 4170**.
12. **An Entropy Model for the Evolution of Spatial Urban System of West Bengal, 1901 – 1981** Geographical Review of India, 1992, 54 (1), pp 65 – 71, ISSN 0375 6386

13. **Trend Surface Analysis of Urbanization in West Bengal**, Indian Journal of Landscape Systems and Ecological Studies, 1993, 16 (1), pp 81 – 86, ISSN 0971 4170.
14. **Size and Spacing of Urban Settlements in West Bengal, 1901 – 1981**, Indian Journal of Landscape Systems and Ecological Studies, 1994, 17 (2), pp 53 – 61, ISSN 0971 4170.
15. **2nd Order TDCN Configuration – an alternative approach**, Indian journal of Earth Science, 1994, 21 (4), pp 226 – 235.
16. **Morphometric Identity of TDCN Basins – a case study of Lodham Khola basin, Darjeeling Himalayas**, Indian Journal of Geology, 1995, 67 (2), pp 142 – 150.
17. **The Rupnarayan river – a study in channel patterns**, Indian Journal of Power and River Valley Projects, July – August Issue, 1995, pp 100 – 105.
18. **Urban Growth and Urban System Development in West Bengal**, Geographical Review of India, 1995, 57 (1), pp 56 – 68, ISSN 0375 6386.
19. **A Multivariate Analysis of Urbanisation of West Bengal, 1901 – 1981**, in Tripathi R S and S B Singh (ed. 1996): Social and Economic Development in India, 1996, Ashis Publishing House, New Delhi, pp 403 - 411. ISBN 81-7024-693-8.
20. **Spatial Pattern of Urban Growth in West Bengal during the 20th Century – an analysis**, in Hazra J (ed. 1997): Dimensions of Human Geography, 1997, Rawat Publishers, New Delhi
21. **Identification of the 2nd Order TDCN Basin Properties of Lodham Khola in Darjeeling Himalayas**, Indian Journal of Earth Science, 1997, 24 (1 & 2), pp 47 – 54.
22. **Orientation of the 011 TICNs in Lodham Khola Basin, Eastern Himalayas**, Journal of the Indian Geographical Foundation, Winter Issue, 1997, Vol – 4 & 5, pp 119 – 133, ISSN 0975 3850.
23. **R – mode Factor Analysis of the 2nd Order TDCN Basin Properties – a case study of the Lodham Khola Basin, Eastern Himalayas**, Indian Journal of Geography and Environment, 1997, Vol – 2, pp 36 – 47.
24. **Urban Growth in West Bengal – a study in size dynamics of towns**, in Pathak C R (ed: 1998) : Essays in Regional Science – regional development planning, Vol – II, Silver Jubilee Volume, 1998, Regional Science Association, pp 88 – 100.
25. **Management of Water Resource System in North 24 Parganas District, West Bengal**, Indian Journal of Landscape Systems and Ecological Studies, 1998, 21 (1), pp 149 – 161 (with Narayan Chandra Ghosh), ISSN 0971 4170.
26. **Downstream Effects of Dams / Barrages on Channel Morphology – a study in environmental fluviology**, in Chauhan S N and M K Gupta (ed: 1998): Environment – some basic issues, 1998, Jaiashree Prakashani, Muzaffarnagar, UP.
27. **Human Resource Development – a multivariate analysis**, in the Seminar Volume: Changing Pattern of Environment, March 6 – 7, 1999, B.G. College, Calcutta, pp 7 – 12.
28. **Landuse Pattern – an exploratory analysis**, in the Seminar Volume: Changing Pattern of Environment, February 5, 2000, B.G. College, Calcutta
29. **Agricultural Land Resources of Hooghly District, West Bengal – a multivariate analysis**, Indian Journal of Regional Science, 2000, 32 (1), pp 70 – 86 (with Sandip Das), ISSN 0046 9017.
30. **Save Our Earth – an ecosaga of humans**, Asian Studies, 19 (1), January – June Issue: 2001, pp 32 – 41.
31. **Digital Image Analysis – application and Fourier filtering**, Indian Journal of Landscape Systems and Ecological Studies, 2002, 25 (2), pp 10 – 19 (with Subhojit Ghosal), ISSN 0971 4170.
32. **Dynamics and Environmental Impacts of Channel Planforms – a study of Bhagirathi and Jalangi rivers**, Indian Journal of Geography and Environment, 2002, Vol – 7, pp 38 – 49.
33. **Landscape Differentials of Hooghly District – a spatial analysis**, Indian Journal of Regional Science, 2003, 35 (1), pp 12 – 31, ISSN 0046 9017.
34. **Environmental Impacts of Bank Erosion**, in Desai M (ed: 2004): The Dying Earth, Netaji Institute of Asian Studies, 2004, Kolkata. pp 221 – 247. ISBN 81-87500-21-2.
35. **River Bank Erosion – geomorphology and environment**, in Singh S, H S Sharma and S De (ed: 2004): Geomorphology and Environment, ACB Publications, 2004, Kolkata. pp 133 - 154. ISBN 81-86539-78-6.
36. **Maternal and Child Health Scenario – a case study of Bangur Hospital**, Indian Journal of Landscape Systems and Ecological Studies, 2004, 27 (1), pp 109 – 119 (with Tilottama Ghosh), ISSN 0971 4170.
37. **Old Age Homes of Kolkata**, Autumn Annual, Vol – 33, Presidency College Alumni association, 2004 – 2005, pp 135 – 146, (with Tilottama Ghosh).
38. **Natural Disaster and its Management – the geographical issues**, in Banerjee, A, et al (ed: 2005): Combating Disaster – perspectives in the new millennium, ACB Pub, 2005, Kolkata, pp 298 - 303. ISBN 81-87500-29-8.
39. **Statistical Analysis of Drainage Networks – a study in the BMB - CGC Complex**, Indian Journal of Landscape Systems and Ecological Studies, June 2007, 30 (1), pp 5 – 16, ISSN 0971 4170.
40. **Save Our Earth – an ecosaga of humans**, in Desai M and M K Raha ed. Environmental Conservation: Management and Development, ACB Publications and NIAS, Kolkata, 2008, ISBN 81-87500-43-3, pp 19 - 30.
41. **Patterns and Parameters of Literacy Rates – a case study of India and West Bengal**, Indian Journal of Landscape Systems and Ecological Studies, ISSN 0971 4170, June 2008, 31 (1), pp 35 – 42 (with Mitali Mondal).
42. **Hypsometric analysis of the Dulung N. basin and its sub-basins**, Geographical Review of India, December 2008, 36 (4), pp 409 – 422 (with Priyank Pravin Patel), ISSN 0375 6386.
43. **Geomorphological Analysis of the Stream Networks generated from SRTM DEM and Topographical Maps**, Paper No. 3 – 3 – 105, Proceedings of the National Symposium on ‘Advances in Remote Sensing Technology and Applications with Special Emphasis on Microwave Remote Sensing’ organized by the IIRS at the Nirma University, Ahmedabad, December 18 – 20, 2008 (with Priyank Pravin Patel)
44. **Mapping the Landuse / Land cover of a Geographical Space by Digital Image Processing of Satellite Data**, Indian Journal of Landscape Systems and Ecological Studies, June 2009, 32 (1), pp 1 – 8, ISSN 0971 4170.
45. **Rural Industrialisation in West Bengal – a boon or a bane**, Practising Geographer, Summer 2009, Vol – 13, No. 1, pp 77–88, Indian Geographical Foundation, Kolkata (with Mun Mun Nandy), ISSN 0975 3850.
46. **Analyzing Impact of Land Cover Changes in Kolkata on corresponding Land Surface Temperature from Landsat Thermal Imagery**, Proceeds. ISRS National Symposium on ‘Advances in Geo-spatial Technology with special emphasis on Sustainable Rainfed Agriculture’, Environmental Modelling, P166, pp 1 – 17, September 17 – 19, 2009, Nagpur (with Priyank Pravin Patel).
47. **Drainage Analysis of the Dulung basin**, in H. S. Sharma and V. S. Kale (ed. 2009): Geomorphology in India, Prayag Pustak Bhawan, Allahabad, pp 133 – 154, (with Priyank Pravin Patel), ISBN 81 87500 19 0.
48. **Application of SRTM Data in evaluating the Morphometric Attributes – a case study of the Dulung river basin**, Practising Geographer, Winter 2009, Vol – 13, No. 2, pp 249–265, Indian Geographical Foundation, Kolkata (with Priyank Pravin Patel), ISSN 0975 3850.

49. **A Geographical Appraisal of Health and Sanitation Development in Nandigram, West Bengal**, Practising Geographer, Winter 2009, Vol – 13, No. 2, pp289–311, Indian Geographical Foundation, Kolkata (with Samares De2), ISSN 0975 3850.
50. **Analysis of Human Settlement Patterns using RS and GIS in the Plains of West Bengal**, eTraverse, Indian Journal of Spatial Science, ISSN 2249 – 3921, Vol – 1, No. 1, pp1–22, 2010 (On-line Version: <http://www.etravers.net> eISSN No. 2249-4316 Vol – 1, No. 1, Article – 1), Geographical Institute, Presidency College, Kolkata.
51. **Terrain Characterization using SRTM Data**, Journal of the Indian Society of Remote Sensing, 38 (1), March 2010, pp11 – 24 **(with Priyank Pravin Patel1)**.
52. **Townsize Distribution in India – an exploratory analysis**, Indian Journal of Landscape Systems and Ecological Studies, June 2010, 33 (1), pp 53 – 64 **(with Mun Mun Nandy1)**.
53. **Landscape Analysis using Multidated Data Layers from Topographical Map and Satellite Images**, eTraverse, Indian Journal of Spatial Science, ISSN 2249 – 3921, Vol – 1, No. 2, pp 1 – 37, 2010 (On-line Version: <http://www.etravers.net> eISSN No. 2249-4316 Vol – 1, No. 2, Article – 1), Geographical Institute, Presidency College, Kolkata: **(with Priyanka Banerjee1)**.
54. **Nature and Management of Water Resources**, in the Book Volume “Round the Globe” ed. by Bangiyo Bhugol Mancha, January 2011, pp11 – 22, The Earth, Kolkata – 700 009.
55. **Topographic Analysis of the Dulung R. Basin**, eTraverse, The Indian Journal of Spatial Science, ISSN 2249 – 3921, Vol – 2, No. 1, pp13 – 31, 2011 (On-line Version: <http://www.etravers.net> eISSN No. 2249-4316, Vol – 2, No. 1, Article – 2), Geographical Institute, Presidency College, Kolkata., Geographical Institute, Kolkata: **(with Priyank Pravin Patel2)**.
56. **Urbanization and City Size Distribution of West Bengal, India 1901 – 2001**, Journal of Regional Science, ISSN 0046 9017, Kolkata, 2011, 43 (1), pp9 – 16.
57. **Urbanization and Urban Sprawl – a case study of Barasat Municipality**, Practising Geographer, ISSN 0975 3850, Indian Geographical Foundation, Kolkata (with Debasmita Biswas1), Winter 2011, Vol – 15, No. 2, pp284–297.
58. **Pattern and Trend in Population Ageing in India**, eTraverse, The Indian Journal of Spatial Science, ISSN 2249 – 3921, Vol – 2, No. 2, pp 65 – 75, 2011 (On-line Version: <http://www.etravers.net> eISSN No. 2249-4316 Vol – 2, No. 2, Article – 4), Geographical Institute, Presidency College, Kolkata: **(with Suvalaxmi Chakrabarti1)**.
59. **Discrimination of Drainage Basins on the Basis of Composition, Orientation and Morphometric Characteristics – A Case Study of Bihar Mica Belt and Chhotanagpur Gneissic Belt Complex, India**, in Bandyopadhyay, S, et al (ed.): Landform, Processes and Environment Management. pp156–171, ACB Publications, Kolkata, 2011: ISBN 81 – 87500-58-1
60. **Disaster Management with Special Reference to Flood in West Bengal – issues, policy and plan framework**, in Desai M and Halder S (ed): Coping with Disasters: Mitigation Strategy, Preventive Action and Recovery, Abhijeet Publications, New Delhi, 2012, pp86–105, ISBN 978-93-80031-70-6.
61. **Terrain Classification of the Dulung Drainage Basin**, eTraverse, The On-line Indian Journal of Spatial Science, <http://www.etravers.net>, ISSN 2249 – 3921, eISSN No. 2249-4316 Vol – 3, No. 1, Article – 6, pp 1 – 8), Geographical Institute, Presidency College, Kolkata, 2012: **(with Priyank Pravin Patel2)**.
62. **Workplace Culture & Status of Women Construction Labourers: a case study in Kolkata, West Bengal**, Indian Journal of Spatial Science, <http://www.indiansss.org>, ISSN 2249 – 3921, ISSN 2249 – 3921, eISSN No. 2249-4316 Vol – 3, No. 2, Article – 6, pp 41 – 48), Indian Society of Spatial Science, Kolkata, 2012:**(with Anu Rai1)**.
63. **A Tale of Two Villages of West Bengal**, in Chattopadhyay, A (ed.): Poverty and Social Exclusion in India — issues and challenges, Rawat Publications, New Delhi, 2012. ISBN 978–81–316–0561–5, pp234 – 249.
64. **Analysis of Human Settlement Patterns using RS and GIS in the Plains of West Bengal**, in Mandal, D. K. (ed..2012): Applications of Remote Sensing and GIS in Resource Management, University of North Bengal, ISBN 978-81-921692-2-4, pp246 – 262
65. **Greening Rural Development in India**, in Majumder, S. (ed.20123: Contemporary Issues on Environment and Development in India and adjacent Countries, Sandhya Prakashani, Kolkata. ISBN 978-81-928047-2-9, pp 43 – 53.
66. **Regional Disparities in Development – A village level study of Binpur-I Block, West Bengal**, in Majumder. S (ed.): Contemporary Issues on Environment and Development of India and Adjacent Countries, pp 460 – 468, 2013. Sandhya Prakashani, Kolkata. ISBN: 978-81-928047-2-9.
67. **Regional Imbalance in Medical Opportunities: Bridging the Gap through Medical Tourism**, Thematics Journal of Geography, Volume – 2, Issue – 4, December 2013, pp. 176 – 182, ISSN 2277 – 2995(www.thematicsjournals.org/TJGeo) **(with Anu Rai1, Premangshu Chakraborty2)**.
68. **Disparity in Development of Mouzas of Binpur- I Block, West Bengal – a geoinformatics approach**, Asian Studies, Netaji Institute for Asian Studies, Kolkata, Vol – 31, No. – 2, July – December, 2013, pp49 – 59**with Indrita Saha1)**.
69. **Globalisation and Medical Tourism – a spatial study**, Indian Journal of Spatial Science, <http://www.indiansss.org>, ISSN 2249 – 3921, ISSN 2249 – 3921, eISSN No. 2249-4316 Vol – 5, No. 1, Summer Issue, Article – 3, pp 14 – 23), Indian Society of Spatial Science, Kolkata, 2014:**(with Anu Rai1 , Premangshu Chakraborty2)**.
70. **India as a Medical Tourism Hub in SAARC – a geographical analysis**, Indian Journal of Spatial Science, <http://www.indiansss.org>, ISSN 2249 – 3921, ISSN 2249 – 3921, eISSN No. 2249-4316 Vol – 5, No. 2, Winter Issue, Article – 2, pp 14 – 23), Indian Society of Spatial Science, Kolkata, 2014: **(with Anu Rai1 , Premangshu Chakraborty2)**.
71. **Agriculture and Irrigation Practices in India before Christ**, Indian Journal of Spatial Science, <http://www.indiansss.org>, ISSN 2249 – 3921, eISSN No. 2249-4316 Vol – 5, No. 2, Winter Issue, Article – 10, pp 77 – 86), Indian Society of Spatial Science, Kolkata, 2014: **(with Abhijit Ghosh1)**.
72. **Nature, Structure and Models of Landscape – a geographer’s perspective**, in Bandyopadhyay, S and L. Satpati (ed). Landscape and Development Interfaces in Geographical Research, Academic Publishers, Kolkata. pp226 – 235, September 2014, ISBN: 978-93-83420-37-7
73. **Forecasting the Demand for Medical Tourism in India**, IOSR Journal of Humanities and Social Science (IOSR – JHSS), Vol – 19, Issue – 11, Ver – 1, (Nov. 2014), PP 22-30, e-ISSN: 2279-0837, p-ISSN: 2279-0845. <http://www.iosrjournals>. **(with Anu Rai1 , Premangshu Chakraborty2)**.
74. **Analysis of Age-Sex Composition of Population of West Bengal, 1961 - 2011**, Indian Journal of Spatial Science, <http://www.indiansss.org>, ISSN 2249 – 3921, eISSN No. 2249-4316 Vol – 6.0, No. – 1, Summer Issue, 2015, pp14 – 21 **(with Indrita Saha1)**.
75. **Geography and Maps – Myth and Contemporary Realities**, Geographical Review of India, Vo. – 77, No. 2, June 2015, pp97 – 119 ISSN 0375-6386
76. **Causes of Drainage Congestion in the Moyna Block, Purba Medinipur, West Bengal** in Mondol, D.K. (ed.) Application of Geospatial Technology for Sustainable Development, University of North Bengal, India, 2016, pp.1-9. Mondal, S1., Sarkar, A2. and Patel, P.P.3
77. **Land Use – Terrain Correlations in the Piedmont Tract of Eastern India: A Case Study of the Dulung River Basin** in A. Santra and S. Santra Mitra (ed. 2016): Remote Sensing Techniques and GIS Applications in Earth and Environmental Studies, IGI Global Book Series: Advances in Geospatial Technologies (AGT) (ISSN: 2327-5715; eISSN: 2327-5723), Hershey PA 17033, USA, 2017 **(with Dr. Priyank Pravin Patel2)**.

78. **Foss and Geospatial Technology – A Review** in Dhruba Shankar Ray, Subrata Kumar Ray, Sarada Mandal, Kisor Mukhopadhyay and Sumana Bandyopadhyay (ed. 2017): *Relevance and Impact of Free and Open Source Software in the Era of Globalisation*, Madhav Books (P) Ltd, New Delhi, 2017: 978-93-80615-35-6, pp239 - 261.
79. **Exploring the Geographic and Cartographic Dimensions of Non-traditional Security using GIS**, in M. Gupta ed. (Ed. Board: D. Ghosh, M. Ghosh and A. Sarkar): *Non-Traditional Security: Problems and Prospects*, Avenel Press, Kolkata. March 2017, ISBN: 978-93-80736-52-5
80. **Relative Radiometric Normalisation - Performance testing of selected techniques and impact analysis on vegetation and water bodies**, *Geocarto International*, August 2017, pp1-28 (with A.Santra¹, S.Santra Mitra² and D.Mitra³), <http://dx.doi.org/10.1080/10106049.2017.1367424>
81. **Foreward to the Book “Geospatial Technologies for Sustainable Resource Management”** edited by **Pal, P and A Kundu, funded by UGC ERO, Kolkata**, AvenelPress, Kolkata. October 2017, ISBN: 978-93-80736-72-3

Research Articles

1. **Working out a Geological Map on Geographic Perspective**, Research Bulletin, 1990, No. – 2, CAAGR, pp 53 – 63 (with Uttam Mukhopadhyay²).
2. **Stratospheric Ozone Depletion – a report**, Indian Journal of Landscape Systems and Ecological Studies, 1992, 15 (1), pp 61 – 69.
3. **Bibhinna Prakar Manchitra – O – Tather Byabaha**, Bhugolika (Bengali), 1995, 3(1), pp 23 – 29.
4. **Field Work in Geography – the basic principles**, Indian Journal of Landscape Systems and Ecological Studies, 1995, 18 (2), pp 62 – 68.
5. **Bhugol Bijnaner Kichhu Paribhasa**, Bhugolika (Bengali), 1996, 4 (1), pp 30 – 36.
6. **Geographical Information System (GIS) – fundamentals and basic principles**, Indian Journal of Landscape Systems and Ecological Studies, 1996, 19 (2), pp 16 – 22.
7. **Bhugol Bijnaner Kichhu Paribhasa** Bhugolika (Bengali), 1997, 5 (1), pp 4 – 23.
8. **Geography and Computers**, Traverse, November Issue, 1997, Geographical Institute, Presidency College
9. **Childcare, Development and Rights – an overview**, ACCR Publications, 1998, Calcutta, pp 36 – 41.
10. **Geographical Data Analysis – concepts and issues**, Traverse, September Issue, 1999, Geographical Institute, Presidency College, Calcutta, pp 10 – 15.
11. **Agami Satake Bhugol Bijnaner Pathakramer Punarbinyas – ekta prastab**, Bhugolika (Bengali), August – 1999, 7 (1), pp 15 – 18.
12. **Sabhyata, Samaj O Paribesh – bibartaner prasanga** in Roy R (ed: 2000): Prateeti (Bengali), January – 2000, pp 41 – 51.
13. **The 21st Century Geography in India – an appraisal**, Journal of the Indian Geographical Foundation, Vol – 6 & 7, Winter: 1999 – 2000, pp 24 – 44, Calcutta.
14. **Manchitrabijnan – bikash o sadharan dharana**, in Roy R (ed: 2000): Prateeti (Bengali), October – 2000, pp 41 – 51.
15. **Fundamentals of Digital Cartography – an appraisal**, raverse, November Issue, 2000, Geographical Institute, Presidency College, Calcutta, pp 10 – 15.
16. **GIS and Geographers**, The Observer, 2002, SGA, Calcutta University, Calcutta.
17. **Manchitrabidya Pracheen Itihas**, Bhugolika (Bengali), BBM, 2002, 8 (1 & 2), pp 3 – 7.
18. **Career Options in Geography** The Observer, 2003, SGA, Calcutta University, Calcutta.
19. **Presentday Geography in West Bengal – craze and frustrations**, Bhugolika, 2003, BBM, Calcutta.
20. **Maps – an interface to geographic information**, Traverse, September Issue, 2003, Geographical Institute, Presidency College, Calcutta, pp 1 – 5.
21. **Geographical Analysis – tools and techniques** Bhugolika, 2004, 10 (1 & 2), pp 5 – 10.
22. **Cartographic Modelling – a new frontier in geographical research**, The Observer, 2004, Vol – 47, pp 37 – 40.
23. **Flood Management using Satellite Remote Sensing Techniques**, The Observer, 2005, Vol – 48, pp 37 – 40, SGA, Calcutta University, Calcutta.
24. **Principles of Mapping and Analysis of Terrain – a modern concept**, Traverse, January – 2006, Vol – 38, Geographical Institute, Presidency College, Kolkata
25. **Nadi'r Parh Kshoi – prayogic bhumiroopbidya'r ekta adhyayan**, Bhugolika, 13 (2), March, 2007, pp5 – 18.
26. **Nature of the Science of Geography**, Bhugolika, 14 (1), September, 2007, pp15 – 21.
27. **GIS and Cartographic Visualization**, Autumn Annual, PCAA, Vol – 36, 2007 – 2008, pp149 – 157.
28. **Landscape as a Self-organizing System – nature, properties and evolution**, Traverse, March Issue – 2008, Geographical Institute, Presidency College, Kolkata.
29. **Mapping Your Career Graph with Geography**, Bhugolika, 14 (2), September 2008, pp15 – 21.
30. **Geoinformatics and its Application in Geomorphological Studies**, Bhugolika, 15 (2), September 2008, pp30 – 38.
31. **The Journey from Classical Traditions to Neogeography**, Autumn Annual, PCAA, Vol – 37, 2008 – 2009, pp140 – 166.
32. **Geographical Education and Quality Teaching in School**, Proceeds. Orientation Prog. on 'Emerging Trends in Geography education – methods and materials' (February 2 – 7, 2009), An IASE Publication, Series – 1: Geography, Vol – IV, pp 62 – 76.
33. **Tobler's First Law of Geography – an analytical discourse**, Bhugolika, 16 (1), July 2009, pp26 – 31.
34. **Particulate Pollution Scenario – an environmental analysis**, Asian Studies, Netaji Institute for Asian Studies, Kolkata, July – December 2009, 27(2), pp1 – 8.
35. **David Harvey's Explanation in Geography and TFL** Autumn Annual, PCAA, Vol – 38, 2009 – 2010, pp110 – 126.
36. **Experimental Geography of Paglen**, raverse, February Issue – 2010, pp13–15, Geographical Institute, Presidency College, Kolkata.
37. **Nature and Management of our Water Resources**, Bhugolika, 17 (1), May 2010, pp10 – 19.
38. **Maps – yesterday, today and tomorrow**, Bhugolika, 17 (2), January 2011, pp10 – 18.
39. **The Origin and Evolution Geography as an Academic Discipline**, traverse, February Issue – 2012, pp41–65, Geographical Institute, Presidency College, Kolkata.
40. **Future of Geography** The Observer, 2017, Vol – 54, pp 1 – 4, ISSN 2230 9535, The Student Geographical Association, Department of Geography, Calcutta University, Calcutta.

Books

1. 1983: *Bhugol Prasange (Part – IV for Class - IX)*, Bengal Book Concern, Calcutta.
2. 1983: *Bhugol Prasange (Part – V for Class - X)*, Bengal Book Concern, Calcutta.
3. 1992: *Adhunik Bhugol (Part – I for Class - VI)*, Orient Longman, Calcutta.
4. 1992: *Adhunik Bhugol (Part – II for Class - VII)*, Orient Longman, Calcutta.
5. 1992: *Adhunik Bhugol (Part –III for Class - VIII)*, Orient Longman, Calcutta.
6. 1997: *Practical Geography - a systematic approach*, Orient Longman, Calcutta. ISBN 81-250-1148-X
7. 1998: *Urban System, Urban Growth and Urbanisation in the 20th Century West Bengal*, New Academic Publishers, New Delhi ISBN 81-86772-03-0

8. 2007: Quantitative Techniques, PGGR – 04, Netaji Subhas Open University, Kolkata.
9. 2008: Practical Geography - a systematic approach, (Revised Edition), Orient BlackSwan, Kolkata. ISBN 978-81-250-3529-9
10. 2013: Quantitative Geography – techniques and presentations, Orient BlackSwan, New Delhi. ISBN 978-81-250-5266-1

M.Sc Dissertations (supervised)

2002 – 2003

1. Analysis of landuse pattern of Hooghly district, West Bengal
2. Spatial analysis of occupational pattern of Hooghly district, West Bengal
3. Agricultural development of Hooghly district, West Bengal
4. Analysis of occupational pattern of North 24 Parganas district,
5. Analysis of literacy pattern of Barasat town with special reference to female literacy

2003 – 2004

6. Planning automobile routes for public transportation in Kharagpur, Medinipur, West Bengal
7. Urban growth and urbanisation of Hooghly district, West Bengal

2004 – 2005

8. Analysis of progressive changes of occupational structure of West Bengal, 1981 – 2001
9. Spatial analysis of landuse components and its changes – a case study of West Bengal, 1971 – 2001
10. Spatio-temporal analysis of cropping pattern – a case study of West Bengal
11. Development of primary education in West Bengal
12. Analytical study of the socio-economic setting of Howrah district, West Bengal
13. Terrain analysis of the Dulung river basin
14. River bank erosion and its environmental impacts – a case study in ‘Mayapur- Swarupganj– Nabadwip’ region
15. River bank erosion – a case study of Bhagirathi river in Balagarh, Hooghly district

2005 – 2006

16. Analysis of progressive changes of sex ratio of West Bengal, 1971 – 2001

2006 – 2007

17. Data Product Generation and Cartographic Visualization
18. Densities of Population – it's measures and visualization
19. The Industrial Region of Howrah – a sociocultural study
20. Economy and Society – a regional appraisal of India
21. Pattern of Literacy of West Bengal – a cartographic appraisal
22. Spatio-temporal Analysis of Working Population of West Bengal

2007 – 2008

23. Socialscape of Uttarpara–Kotrang Municipality — a cartographic appraisal
24. Coal Mining and its Environmental Impacts — a case study of ECL
25. Transport Layout of Nadia District — network analysis and development
26. Population and Infrastructure of North 24 Parganas — a cartographic analysis

2007 – 2008

23. Socialscape of Uttarpara–Kotrang Municipality — a cartographic appraisal
24. Coal Mining and its Environmental Impacts — a case study of ECL
25. Transport Layout of Nadia District — network analysis and development
26. Population and Infrastructure of North 24 Parganas — a cartographic analysis

2008 – 2009

27. Growth and Development of Siliguri Municipality, Darjeeling, West Bengal
28. Infrastructure and Human Development in the Goghat Bocks of Hooghly Dstrict, West Bengal —a geographical appraisal

2009 – 2010

29. Attribute Data and Spatial Data – manipulation and cartographic visualization
30. Thematic Data Layers from Topographical Map and Satellite Images – a geographical appraisal of Landcover / Landuse

2010 – 2011

1. None

2011 – 2012

31. Socio-economic Mapping with GIS – a case study of Tarakeshwar CD Block, West Bengal
32. Analysis of the Landscapes of Binpur – I CD Block, West Bengal – a geoinformatic approach
33. A Cartographic Appraisal of the Socio-economic Parameters of Puruliya district, West Bengal

2012 – 2013

34. Socio-economic Mapping with GIS – a case study of Tarakeshwar CD Block, West Bengal
35. Identification of Backward Gram Panchayats of Binpur – I CD Block, Paschim Medinipur, West Bengal – a geoinformatic approach
36. Spatio-temporal Pattern of Socio-economic Attributes of Puruliya district, West Bengal (1991 – 2001) — a cartographic appraisal

2013 – 2014

37. Nature and Composition of Bhonang N Basin, Sambalpur, Odisha

2014 – 2015

39. The Socio-Economic Attributes of Puruliya Municipality, Puruliya with special reference to Bundhs
40. Hooghly – Chinsura Municipality
41. The Socio-Economic Status and Urban Livelihood Patterns of Memari Municipality, Burdwan

2015 – 2016

42. The Urbanscape of Bhadreswar Municipality, West Bengal

Seminars / Symposiums / Conferencess

International Seminar

1. Paper presented on **“Urban Growth in West Bengal – a study in size dynamics of towns”** at the International Regional Science Conference, December 17 - 19, 1992, IIT Kharagpur, Abstract Volume, Paper No. – 3.14
2. Paper presented on **“Size and Spacing of Urban Settlements in West Bengal, 1901 – 1981”** in the 38th Annual Conference of Bangladesh Geographical Society, Dhaka, January 21 – 22, 1994, Abstract Volume.
3. Paper presented on **“Impact of Natural Resource Base on Integrated Area Development – a case study of North 24 Parganas district, West Bengal”** in the 8th National Geographical Conference on “21st Century – status of geography and challenges ahead”, March 11 – 13, 1998, Jahangir Nagar University, Savar, Dhaka, Abstract Volume, pp – 23 (presenter: Narayan Chandra Ghosh)
4. Paper presented on **“Management of Water Resource System in North 24 Parganas district, West Bengal, India”** he Annual Conference of Bangladesh Geographical Society, Dhaka University, June 19 – 20, 1998, Abstract Volume (presenter: Narayan Chandra Ghosh)
5. Paper presented on **“Bank Erosion by Rupnarayan River – a study of geomorphological hazard” in** the International Seminar on “Changing Environmental Scenario in South Asia during the past 5 decades”, December 20 – 21, ILEE, Abstract Volume, Paper No – 13 (presenter: Saswati Nayek).
6. Paper presented on **“Inter – Block Disparities in Human Resource Development – a case study of North 24 Parganas district, West Bengal”** in the XVIII INCA International Congress, Calcutta, December 15 – 18, Abstract Volume, Section – 5, Page No – 32 (presenter: Narayan Chandra Ghosh)
7. Paper presented on **“Pattern of Landuse – characteristics and correlates (a study of Hooghly district, West Bengal)”** in the XVIII INCA International Congress, Calcutta, December 15 – 18, Abstract Volume, Section – 5, Page No – 32 (presenter: Sandip Das)
8. Attended – on International Seminar on “Changing Environmental Scenario of India & Adjacent Countries since Independence”, 29th December, 2000 – 1st January, 2001, University of Calcutta, Kolkata
9. Paper presented on **“In Quest of an alternative Flood Management Strategy for Hooghly Distrct, West Bengal”** in the International Seminar on “River Floods” organized by the National Disaster Management Cell, Viswa-Bharati, February 14 – 16, 2003
10. Paper presented on **“Mapping the Landuse / Landcover of a Geographical Space through Digital Image Processing of Satellite Data”** in the 24th INCA International Congress on “Cartographic Technologies for Water, Land, and Infrastructure Development”, October 6 – 9, 2004, Science City, Kolkata (presenter (presenter: Shubhojit Ghosal)
11. Paper presented on **“Semi-supervised Classification of Land Cover on Spectral Reflectance Data Extracted from LISS IV Image”** in the ISPRS Commission IV International Symposium on ‘Geospatial Database for Sustainable Development’, XXXVI, Part – 4B, pp866 – 870, September 27 – 30, 2006, Goa (presenter: Barun Ray Chaudhuri and S. Bhattacharyya)
12. Poster presented on **“Terrain Characterization and Enhancement of Topographical Map-derived Stream Network using S.R.T.M. Data”** in the ISRS International Symposium held at NIRMA University, Ahmedabad, December 18 – 20, 2008 (presenter: Priyank Pravin Patel).
13. Presented a Paper on **“Spatial Dimensions of Transport System of Andal Block, Burdwan, West Bengal – A Geoinformatics Approach”** in the 35th Indian Geographer’s Meet and International Conference organized by Institute of Indian Geographers and held in University of Burdwan on 11-13 Nov, 2013. (presenter: Indrita Saha).
14. Paper presented on **“Identification, Measurement and Mapping the Backward Gram Panchayats of Binpur – I Block, West Bengal — a geoinformatics approach”** in the 1st International Conference of Association of Punjab Geographers on “Disasters, Natural Resource Management and Socio-economic Development” organized by the Department of Geography, Kurukshetra University, Kurukshetra, sponsored by ICSSR and DST MoST, December 13, 2013, pp 154 (presenter: Indrita Saha).
15. Paper presented on **“Regional Imbalance in Medical Opportunities – bridging the Gap by Medical Tourism”** in the 2 – Day International Conference of Regional Science Association, Kolkata, India on “Environmental Management for Sustainable Development” organized by the Department of Geography, Karnatak University’s Karnatak Science College, Dharwad, December 20 – 21, 2013. pp 08 (presenter: Anu Rai).
16. Paper presented on **“Information System and Cartographic Abstraction”** n the 2 – Day International Conference of Regional Science Association, Kolkata, India on “Environmental Management for Sustainable Development” organized by the Department of Geography, Karnatak University’s Karnatak Science College, Dharwad, December 20 – 21, 2013. pp 08 (presenter: Indrita Saha).
17. Presented a Paper on **“Variation of Age-Specific Female-Male Ratio of West Bengal”** in the International Conference of the 11th Deccan Geographical Society UGC sponsored National Seminar on “Geospatial Solutions to Urban and Regional Environmental Issues”, September 27 - 29, 2016 (Presenter: Indrita Saha).
18. Chaired the Plenary Session on **“in the International Conference on”** organized by the Department of Geography, Vivekananda College, Kolkata in association with The Eastern Geographical Society, Utkal University, Bhubaneswar, 12 – 13 January, 2019 (Hon. Presenters: Prof. B. Hemamalini, Prof. D. Nayak, Prof. S. Sen Roy, Prof. L. Shivramakrishnan, and Prof. B. Nanda).
19. Delivered the 1st Prof Bireswar Banerjee Memorial Lecture in the International Conference on **“Environment, Development and Livelihood”** organized by the Department of Geography and IQAC, South Calcutta Girl’s College, Kolkata in association with The Center for Environment and Economic Development (CEED), New Delhi, 22 – 23 February, 2019

National Seminar

1. Presented a Paper on **“A Different Theme on Slope Mapping”** in the National Conference on “Regional Development – some aspects”, December 16, University of Calcutta, Abstract Volume, pp – 8
2. Presented a Paper on **“Spatial Pattern of Urban Growth in West Bengal during the 20th Century – an analysis”** ” in the National Seminar on “Socio-economic Spectrum of West Bengal – geographical per-spective”, University of Calcutta, September, Abstract Volume, pp – 9

3. Presented a Paper on “**Evolution of the Hierarchic Levels of Urbanisation in West Bengal, 1901 – 1981 – an analysis**” Paper presented in the National Seminar on “Regional Disparities in Socio-economic Development in India”, University PG College, February – 1992, Tikamgarh
4. Presented a Paper on “**Pattern Continuum, Bank Erosion and Channel Metamorphosis of the Rupnarayan River Channel, West Bengal**” in the 16th Indian Geographical Congress, NAGI, Hyderabad
5. Presented a Paper on “**Environmental Impact Assessment – a case study of bank erosion by Rupnarayan river**” in the 5th Conference and Seminar of Indian Institute of Geomorphology, Calcutta University, January 29 – 31, 1993, Abstract Volume, Paper No. – 84
6. Presented a Paper on “**Disparities in Levels of Agricultural Development – a case study of North 24 Parganas district, West Bengal**” in the National Seminar on “Environment and Sustainable Development”, November 19 – 21, Paper No – R 2, pp – 8 (with N C Ghosh)
7. Presented a Paper on “**Human Resource Development – a multivariate analysis**” in the National Seminar on “Changing Pattern of Environment”, March 6 – 7, BG College, Calcutta, Seminar Volume, pp 7 – 12
8. Presented a Paper on “Landuse Pattern – an exploratory analysis”, in the National Seminar on “Changing Pattern of Environment”, organized by Department of Geography, BG College, Kolkata, February 5, 2000, Abstract Volume
9. Attended 32nd Annual Regional Science Conference on “Urban and Regional Information System for Planning”, November 17 – 18, 2000, TTTI, Salt Lake City, Kolkata – 91
10. Attended UGC sponsored National Seminar on “Redeeming Goals of Higher Education in the 21st Century, February 27, 2001, Derozio Hall, Presidency College, Calcutta
11. Attended – National Conference on “Geography and Applied Geography”, December 10 – 12, 2002, NATMO, Kolkata
12. Attended – National Conference on Land and Water Management in India, December 13 – 14, 2002, ILEE & IBARD, Kolkata
13. Attended the National Symposium on “**Development – the Indian perspective, held on 13/14 February, 2003, Department of Geography, Calcutta University**”
14. Attended the UGC sponsored National Seminar on “Globalisation – its impact on society”, held in February, 2003, Derozio Hall, Presidency College, Calcutta
15. Presented a Paper on “**Natural Disaster and its Management – the geographical issues**” in the National Seminar on “Disaster and its Management – perspectives and future approach”, April 16 - 17, 2004, Krishnagar Govt. College, Nadia
16. Presented a Paper on “**Digital Mapping of the Drainage Pattern Changes – a remote sensing and GIS approach**” in the National Seminar on “Applied Geography and Application of Remote Sensing and GIS”, organized by the Department of Geography, University of Calcutta, February 4 – 5, 2005, (pre-senter: Shubhojit Ghosal).
17. Presented a Paper on “**Digital Analysis of a Fluvialscape for Sustainable Development**” in the National Seminar on “Catchment Management and Sustainable Development”, March 27-28, 2005, ILEE + IBRAD, Department of Geography, CU (presenter: Shubhojit Ghoshal)
18. Presented a Paper on “**Pattern of Human Settlement in the Plains of West Bengal – a study of applied Geoinformatic**” in the National Seminar on “Catchment Management and Sustainable Development”, March 27-28, 2005, ILEE + IBRAD, Department of Geography, CU (presenter: Priyank Pravin Patel)
19. Presented a Paper on “**Pattern of Human Settlement in the Plains of West Bengal – a study of applied Geoinformatics**” in the UGC Sponsored National Seminar on “Applications of RS & GIS in Resource Mapping” January 28 – 30 2008, organized by Department of Geography & Applied Geography, University of North Bengal in collaboration with the Department of Higher Education, Govt. of West Bengal.
20. Presented a Paper on “**Rural Industrialisation in West Bengal — a boon or a bane?**” in the National Seminar on ‘Contemporary Issues in Geography’ organized by the Indian Geo-graphical Foundation, Kolkata, February 27 – 28, 2009 (presenter: Mun Mun Nandy).
21. Presented a Paper on “**Application of SRTM Data in the Evaluation of Drainage Basin Morphometry — a case study of the Dulung River basin**” in the National Seminar on ‘Contemporary Issues in Geography’ organized by the Indian Geographical Foundation, Kolkata, February 27 – 28, 2009 (presenter: Priyank Pravin Patel).
22. Presented a Paper on “**Merging Spatial Data Layers for Enhanced Mapping and Visualisation**” in the National Seminar on ‘Contemporary Issues of Environment and Development’ organized by the Institute of Landscape, Ecology and Ekistics, Kolkata’, March 4, 2009 (presenter: Priyank Pravin Patel).
23. Attended the National Seminar on “**Ganga Delta: Development Perspectives**” organized by the Department of Geography, University of Calcutta, Kolkata’, March 06 – 07, 2009.
24. Chaired the Academic Session – VI on “**Issues in Analytical Geography and Geospatial Mapping**” Mapping’ in the National Seminar on ‘Contemporary Issues in Geography’ organized by the Indian Geographical Foundation, Kolkata, February 27 – 28, 2009.
25. Presented a Paper on “**Analyzing Impact of Land Cover Changes in Kolkata on corresponding Land Surface Temperature from Landsat Thermal Imagery**” in the National Symposium on ‘Advances in Geo-spatial Technology with special emphasis on Sustainable Rainfed Agriculture’, organized by the ISRS, RRSSC, MRSAC, NBSS & LUP, Nagpur, Maharastra, September 17 – 19, 2009(presenter: Priyank Pravin Patel).
26. Presented a Paper on “**on Morphometric Attributes and their Relation to Channel Characteristics in the Chel N. Basin, West Bengal**” in the 22nd National Conference of Indian Institute of Geomorphology on ‘Man – Environment Relations’, organized by the Department of Geography, University of Allahabad, Allahabad, October 29 – 31, 2009 (presenter: Priyank Pravin Patel), Abstract Volume : pp 107.
27. Presented a Paper on **An Assessment and Analysis of Town Size Distribution in India** in the National Seminar on ‘Emerging Issues in Geography’, organized by the Department of Ge-ography, Visva-Bharati, and Indian Geographical Foundation, Kolkata, March 20 – 21, 2010, Abstract Volume: pp 70 (presenter: Mun Mun Nandy).
28. Presented a Paper **Morphometric Comparison of the Left and Right Flank Sub-basins of the Dulung river valley, West Bengal** , in the National Seminar on ‘Emerging Issues in Geography’, organized by the Department of Geography, Visva-Bharati, and Indian Geographical Foundation, Kolkata, March 20 – 21, 2010, Abstract Volume: pp 70 (presenter: Priyank Pravin Patel).
29. Chaired the Academic Session – IV as Resource Person on **Man and its Changing Landuse and Developmental Issues** in the National Seminar on ‘Geography: Space, Time and People’ organized by the Indian Geographical Foundation, Kolkata, February 11 – 13, 2011.
30. Presented a Paper **Urbanisation and Urban Sprawl: a case study of Barasat Municipality** Municipality’ in the Academic Session – V on ‘Development of Urbanisation and related problems, Rural – Urban Continuum and Urban Sprawl’ in the National Seminar on ‘Geography: Space, Time and People’ organized by the Indian Geographical Foundation, Kolkata, February 11 – 13, 2011, Abstract Volume: pp 81 (presenter: Debasmita Biswas).
31. Presented a Paper as Resource Person on ‘**Resource Analysis from a Geographer’s Perspective**’ in the National Seminar on ‘Resource Management and Sustainable Development’ organized by Department of Geography, East Calcutta Girls’ College in Collaboration with NATMO, and DST, Kolkata, September 23 – 24, 2011.

32. Presented a Paper on **“on Morphometric Attributes and their Relation to Channel Characteristics in the Chel N. Basin, West Bengal”** in the 22nd National Conference of Indian Institute of Geomorphology on ‘Man – Environment Relations’, organized by the Department of Geography, University of Allahabad, Allahabad, October 29 – 31, 2009 (presenter: Priyank Pravin Patel), Abstract Volume : pp 107.
33. Presented a Paper on **An Assessment and Analysis of Town Size Distribution in India** in the National Seminar on ‘Emerging Issues in Geography’, organized by the Department of Ge-ography, Visva-Bharati, and Indian Geographical Foundation, Kolkata, March 20 – 21, 2010, Abstract Volume: pp 70 (presenter: Mun Mun Nandy).
34. Presented a Paper **Morphometric Comparison of the Left and Right Flank Sub-basins of the Dulung river valley, West Bengal** , in the National Seminar on ‘Emerging Issues in Geography’, organized by the Department of Geography, Visva-Bharati, and Indian Geographical Foundation, Kolkata, March 20 – 21, 2010, Abstract Volume: pp 70 (presenter: Priyank Pravin Patel).
35. Chaired the Academic Session – IV as Resource Person on **Man and its Changing Landuse and Developmental Issues** in the National Seminar on ‘Geography: Space, Time and People’ organized by the Indian Geographical Foundation, Kolkata, February 11 – 13, 2011.
36. Presented a Paper **Urbanisation and Urban Sprawl: a case study of Barasat Municipality** Municipality’ in the Academic Session – V on ‘Development of Urbanisation and related problems, Rural – Urban Continuum and Urban Sprawl’ in the National Seminar on ‘Geography: Space, Time and People’ organized by the Indian Geographical Foundation, Kolkata, February 11 – 13, 2011, Abstract Volume: pp 81 (presenter: Debasmitta Biswas).
37. Presented a Paper as Resource Person on **‘Resource Analysis from a Geographer’s Perspective’** in the National Seminar on ‘Resource Management and Sustainable Development’ organized by Department of Geography, East Calcutta Girls’ College in Collaboration with NATMO, and DST, Kolkata, September 23 – 24, 2011.
38. Chaired the Technical Session – VI on **“Environmental Degradation and RS – GIS”** GIS’ in the UGC Sponsored State Level Seminar on ‘Environmental Degradation and Strategies for Conservation and Management’ organized by the Department of Geography, Krishnanagar Govt. College, Krishnanagar, Nadia in Collaboration with WWF, Kolkata, November 24 – 25, 2011.
39. Chaired the Technical Session – III on **Population Growth, Resource Crisis and Livelihood Issues** Issues’ in the UGC Sponsored National Seminar on ‘Changing Environmental Scenario of Indian Subcontinent – a geographical appraisal’ organized by the Department of Geography, Rastraguru Surendranath College, Barrackpur in Collaboration with WBSU, Barasat, November 25 – 26, 2011.
40. Presented a Paper as a Panelist in the Plenary Session – III on **Role of Modern Geographical Knowledge in National Development** Development’ in the National Seminar on ‘Changing Environmental Scenario of Indian Subcontinent – a geographical appraisal’ organized by the Department of Geography, Barrack-pore Rastraguru Surendranath College, Barrackpur in Collaboration with WBSU, Barasat, November 25 – 26, 2011.
41. Presented a Paper as Resource Person in the Plenary Session on **Classification in Geography** Geography’ in the UGC Sponsored National Conference on ‘Recent Researches in Earth System Science’ jointly organized by the Department of Geography and Geology, Asutosh College in collaboration with Geological Mining and Metallurgical Society of India, and Geographical Society of India, Kolkata – 700 019, February 10 – 11, 2012.
42. Chaired the Technical Session – I on February 11, 2012 in the UGC Sponsored National Conference on **‘Recent Researches in Earth System Science’** jointly organized by the Department of Geography and Geology, Asutosh College in collaboration with Geological Mining and Metallurgical Society of India, and Geographical Society of India, Kolkata – 700 019.
43. Presented a Paper as Resource Person on **‘A Study of Workplace Culture & Status of Women Construction Labourers in the Social Ladder, West Bengal, India’** in the National Seminar on ‘Demographic Transition and Inclusive Development’ organized by IIPS, Mumbai held in the ISI, Kolkata , March 15 – 17, 2012 (presenter: Anu Rai).
44. Presented a Paper on **“Application of Modern Geographical Tools & Techniques in Planning and Development”** in the UGC sponsored National Seminar on ‘Environment, Resources and Development’ organized by Lalbaba College, Belur, March 04 – 05, 2013 (presenter: Priyank Pravin Patel).
45. Chaired Technical Session – I on March 21, 2013 in the National Seminar on **Climate Change and Environmental Impact Assessment (Indian Perspective)** organized by the Netaji Institute for Asian Studies (NIAS) at 1, Woodburn Park, Kolkata – 700 020
46. Presented a Paper on **Geographical Research in Medical Tourism: A New Horizon** in the Annual Conference on ‘Recent Trends in Geographical Research’ organized by the Indian Geographical Foundation, Kolkata March 30– 31, 2013, Abstract Volume: pp 81 (presenter: Anu Rai).
47. Presented a Paper as Resource Person in the Special Lecture Session – I on **Geographical Dimensions of ‘Environment – Development’ Interrelations** Interrelations’ in the UGC Sponsored National Conference on ‘Contemporary Issues on Environment and Development in India and Adjacent Countries’ organized by the Department of Geography, Kalyani Mahavidyalaya, Kalyani in collaboration with Department of Environmental Science, University of Kalyani, Nadia, West Bengal, 741 235, September 20 – 21, 2013.
48. Presented a Paper as Resource Person in the Technical Session – II on **“Regional Disparities in Development – a village level study of Binpur – I Block, West Bengal”** Bengal’ in the UGC Sponsored National Conference on ‘Contemporary Issues on Environment and Development in India and Adjacent Countries’ organized by the Department of Geography, Kalyani Mahavidyalaya, Kalyani in collaboration with Department of Environmental Science, University of Kalyani, Nadia, West Bengal, 741 235, September 21, 2013 (presenter: Indrita Saha).
49. Presented a Paper on **“Spatial Dimensions of Transport System of Andal Block, Burdwan, West Bengal – A Geoinformatics Approach”** in the 35th Indian Geographer’s Meet and International Conference organized by Institute of Indian Geographers and held in University of Burdwan on 11-13 Nov, 2013 (presenter: Indrita Saha).
50. Presented a Paper on **‘Applied Geography and Medical Tourism – a study in Kolkata’** in the National Seminar on Research Frontiers in Man-Nature Interface, March 1 - 2, 2014, organized by the Department of Geography, Visva-Bharati & Foundation of Practising Geographers, Kolkata in collaboration with the ASI, Kolkata; NATMO, Kolkata and ICSSR, New Delhi (presenter: Anu Rai).
51. Presented a Paper on **Structure of the Rural Census Houses of West Bengal, 2011 – a geographical appraisal** in the UGC Sponsored National Seminar on ‘Land, People and Society’ organized by the Department of Geography, North Bengal University, Darjeeling, West Bengal, March 6 - 7, 2014 (presenter: Indrita Saha).
52. Presented a Paper on **‘A Methodology for Linking Terrain and Socio-economic Attributes through Multidimensional Thematic Mapping’** in the UGC Sponsored National Seminar on ‘Land, People and Society’ organized by the Department of Geography, North Bengal University, Darjeeling, West Bengal, March 6 - 7, 2014 (presenter: Priyank Pravin Patel).
53. Presented a Paper on **Analysis of Age-Sex Structure of West Bengal, 1961 – 2011”** in the National Geography Youth Summit, 2014 organized by The Indian Institute of Geographical Studies on 9-11 Jun, 2014 in collaboration with the Army Public School, Bangalore sponsored by AAG and Aarogya Seva (presenter: Indrita Saha).
54. Presented a Paper as Resource Person on **Management of Disasters – the TDRM approach** in the UGC sponsored National Seminar on ‘Application of Modern Techniques for the Management of Contemporary Environmental Hazards and Disasters’, organized by the Department of Geography, Haringhata Mahavidyalaya, Nadia, West Bengal in collaboration with the Institute of Landscape, Ecology and Ekistics, September 5 – 6, 2014.

55. Presented a Paper on **‘Measuring Urban Sprawl in Baruipur, West Bengal’** in the National Seminar on ‘Resource Management and Sustainable Development’ organized by Department of Geography, East Calcutta Girls’ College in Collaboration with NATMO, and DST, Kolkata, September 23 – 24, 2011.
56. Secretary – Organizing Committee : One Day UGC Sponsored State Level Seminar on **“Vivekananda and His Thoughts on Education”** ” held on July 30, 2014 organized by the Department of History at Charuchandra Hall, Chandernagore College, West Bengal.
57. Organizing Secretary. The Equinox 2014 to celebrate the **“Day of Geography”** on November 16, 2014 by the Indian Society of Spatial Scientists at Charuchandra Hall, Chandernagore College, West Bengal.
58. Convener of the Seminar on **Heritage Politics and Space** organized by the CSSS in collaboration with Chandernagore College and sponsored by Indian Council of Historical Research on December 10, 2014.
59. Presented a Paper as Resource Person on **“The Domain of Cartography – philosophy and modern transformations”** in the UGC sponsored First Winter School on “Remote Sensing and GIS” organized by the Academic Staff College, The University of Burdwan, December 12, 2014 (Co-ordinators: Dr. S. K. Guchhait and Dr. D. P. Pahari, Department of Geography).
60. Presented a Paper on **“Baruipur – a sprawling town in West Bengal”** in the UGC Sponsored National Seminar on ‘Application of Geospatial Technology for Sustainable Development’ organized by the Department of Geography & Applied Geography, University of North Bengal, February 13 – 14, 2015 (presenter: Debasmita Biswas).
61. Presented a Paper on **“Spatio-Temporal Disparity of Male-to-Female Ratio, 1991 – 2011 in Ondal Block, Bardhaman District, West Bengal”** in the UGC Sponsored National Seminar on ‘Application of Geospatial Technology for Sustainable Development’ organized by the Department of Geography & Applied Geography, University of North Bengal, February 13 – 14, 2015 (presenter: Indrita Saha).
62. Presented a Paper on **Disparity in Development of Blocks of Puruliya District, West Bengal – a geoinformatics approach** ” in the UGC Sponsored National Seminar on ‘Application of Geospatial Technology for Sustainable Development’ organized by the Department of Geography & Applied Geography, University of North Bengal, February 13 – 14, 2015 (presenter: Pabitra Mondal).
63. Presented a Paper on **“Causes of Drainage Congestion in the Moyna Basin, Purba Medinipur, West Bengal”** in the UGC Sponsored National Seminar on ‘Application of Geospatial Technology for Sustainable Development’ organized by the Department of Geography & Applied Geography, University of North Bengal, February 13 – 14, 2015 (presenter: Sayoni Mondal).
64. Presented a Paper on **“Geographic Perspective of Demographic Development – West Bengal”** ” in the ICSSR, Kolkata Sponsored National Conference on ‘Interrogating Development: Regional and Sub-Regional Trends in India in the Era of Globalization’ organized by the Department of Economics and Department of Sociology, St. Joseph’s College, North Point, Darjeeling, March 29 – 30, 2015 (presenter: Indrita Saha).
65. Chaired Session – I : UGC Sponsored National Seminar on **Rabindra Charcha – deshe o bideshe**”, organized by the PG Department of Bengali, Chandernagore College in collaboration with Khalisani Mahavidyalaya, December 04 – 05, 2015
66. Presented a Paper as Resource Person on **Global Climatic Change – a geographer’s sojourn** in the UGC sponsored National Seminar on “Climate Change – issues and challenges to society, environment and development” organized by the Department of Geography, Haringhata Mahavidyalaya in collaboration with Rishi Bankim Chandra Evening College, September, 23, 2016.
67. Member of the Seminar Committee of the International Conference on **“De/siring India: Representations Through British and French Eyes (1584-1857)”** organized by the Department of English, Chandernagore College, 18 – 19 January, 2016
68. Organizing Secretary: The Equinox 2016 to celebrate the **“International Map Year”** on February 06, 2016 by the Indian Society of Spatial Scientists at Charuchandra Hall, Chanderna-gore College, West Bengal.
69. Chaired Session – I : ICSSR Sponsored National Seminar on **“Non-Traditional Security: Problems and Prospects”**, organized by the Department of Political Science, Chandernagore College in collaboration with Khalisani Mahavidyalaya, February 11, 2016.
70. Delivered a Lecture as Resource Person on **“The Principles of Cartography”** ” in the 2-Day Interactive Workshop on Q-GIS and GPS, Organized by the Department of Geography, Sarat Centenary College, Dhaniakhali on June 28 -29, 2016 at 11-00 am.
71. Delivered a Lecture as Resource Person on **“Climatology”** in the UGC – sponsored Course on the Students Support Programme for Competitive Examinations, Organized by the Department of Geography, Sarat Centenary College, Dhaniakhali on August 23, 2016 at 11-00 am.
72. Delivered a Lecture as Resource Person on **“Career Options with Geography”** in the UGC – sponsored Course on Career Counselling, organized by the Department of Geography, Sarat Centenary College, Dhaniakhali on August 30, 2016 at 12-00 Noon.
73. Delivered a Lecture as Resource Person on **‘Climatic Change and its Ecological Impact’** ” in the Seminar on “Global Climate Change” organized by the Department of Geography, Kanailal Vidyamandir (English Section) on September 09, 2016 at 12-00 Noon.
74. Delivered a Lecture as Resource Person on **“Computer Applications in Geography”** ” in the Workshop organized by the Department of Geography, Sarat Centenary College, Dhaniakhali on September 15, 2016 at 12-00 Noon.
75. Chaired the Technical Session – I on September, 23 – 24, 2016 in the UGC Sponsored National Seminar on **“Climate Change – issues and challenges to society, environment and development”** ” organized by the Department of Geography, Haringhata Mahavidyalaya in collaboration with Rishi Bankim Chandra Evening College.
76. Delivered a Lecture as Resource Person on **“Cartography and Geospatial Technology – a critical analysis”** in the 21-Days Winter School on “Geospatial Technologies” sponsored by NRDMS, DST, Ministry of Science & Technology, Govt. of India and organised by Viyasagar University, Midnapore, 16 November – 06 December, 2016 (28).
77. Chaired the Plenary Session – I on November, 18 – 19, 2016 in the UGC Sponsored National Seminar on **“Environment and Sustainability – a geographical perspective”** organized by the Department of Geography, Prasanta Chandra Mahalanobis Mahavidyalaya, Kolkata in collaboration with Barasat State University and the Indian Institute of Landscape, Ecology and Ekistics, Kolkata.
78. Delivered the Key Note Address as Resource Person on **“Geospatial Technology, Resource Use and Sustainable Development”** in the UGC Sponsored National Seminar on “Application and Emerging Trends of Geospatial Technology for Sustainable Resource Use and Management” organised by Kabi Sukanta Mahavidyalaya, Bhadreswar in collaboration with Tarakeswar Degree College, Tarakeswar, 13 January, 2017.
79. Delivered the Key Note Address as Resource Person on **“Development, Environment and Sustainability–the triumvirate on Geographical Frame”** in the ICSSR Sponsored National Seminar on “Contemporary Global Environmental Issues and its Sustainable Management” organised by Haringhata College in collaboration with ILEE, Kolkata, April 21 – 22, 2017.
80. Delivered a Lecture on as Chief Speaker (Resource Person) on **“Application of The FOSS in Geography”** in the Valedictory Session of the Workshop on Hands-on Training in Geoinformatics using Free and Open Source Software, GPS and DGPS and Total Station, held at East Calcutta Girls’ College, March 28 – April 4, 2017.
81. Acted as an External Examiner for the upgradation of Mr Repenstar Khongjee for NFHE – JRF to NFHE – SRF in the Department of Geography organised by NEHU on May 18, 2017.

82. Delivered a Special Invitee Lecture on **“Geography, Statistics and Statistical Methods”** as a part of the UGC – SAP DRS – III in the Department of Geography organised by NEHU on May 18, 2017. .
83. Delivered a Lecture-Presentation on as Inaugural Speaker (Resource Person) on **“Probability and Sampling in Geography”** in the 7-day Workshop on **“Statistical Methods and Techniques of Spatial Analysis”** organized by the Women’s Christian College in collaboration with the Department of Geography, University of Calcutta, June 11 – 17, 2017.
84. Delivered a Lectures as Resource Person on **“Sampling and Hypothesis Testing”** in the 1-day Workshop on **“Qualitative and Quantitative Research Methods in Geographical Studies”** organized by the Department of Geography, Vivekananda College, Kolkata February 12, 2018.
85. Delivered a Lectures as Resource Person on **“Statistical Analysis in Geography”** in the 3-day National Workshop on **“Geospatial Data Analysis using Open Source Software”** organized by the Department of Geography, School of Science, Adamas University, 17 – 19 April, 2018.
86. Delivered a Lectures as Resource Person on **“Quantitative Quantitative Analysis of Shape and Direction: A Randomized Experiment”** in the 1 – Week Workshop on **“Application of Quantitative Techniques in Spatial Planning”** Organized by the Centre for Human Settlement Planning, Department of Architecture, Jadavpur University, Kolkata, 21 – 28 December, 2018

Special Lectures (Seminar / Symposia/ Workshops)

1. Attended – Winter School on **“Geographical Information System”**, January 8 – 18, 2002, Applied Statistics Unit, ISI, Kolkata
2. Delivered a Lecture as Resource Person on **“Recent Developments in Geography and its Career Options”**, L.B.College, December 11, 2002, Kolkata
3. Delivered a Lecture as Resource Person on **“Geographical Analysis – tools and techniques”**, February 22 – 26, 2003, BBM, Kolkata
4. Delivered a Lecture as Resource Person on **“Methods in Geography – presentday issues”**, March 8, 2003, IIP, Kolkata
5. Delivered a Lecture as Resource Person on **“Geographical Information System – a tool of spatial analysis”**, March 15, 2003, IIP, Kolkata
6. Delivered a Lecture as Resource Person on **“A Critical Appraisal of Gram++ – the most user-friendly GIS and RS software”**, March 29, 2003, IIP, Kolkata
7. Delivered a Lecture as Resource Person on **“Bhugol Shikshan e Manchitrer Bhumika”**, January 12, Birla Planetarium Hall, organized by Orient Longman, Kolkata
8. Delivered a Lecture as Resource Person on **“Changing Nature of Geographic Analysis”** in the **“Refresher Course in Geography for the School Teachers”**, organized by the Bangiyo Bhugol Mancha, June 8 – 12, 2005, Scottish Church College (B.Ed Section)
9. Delivered a Lecture as Resource Person on **“Nature of Geography and Career Options with Geography”** in the **“Refresher Course in Geography for the School Teachers”**, organized by the Bangiyo Bhugol Mancha, June 8 – 12, 2007, Mahabodhi Society Hall, College Square, Kolkata
10. Delivered a Lecture as Resource Person on **“Quality Enhancement in Teaching Geography in Schools”** in the **“CTE Orientation-cum-Workshop for in-service teachers of Secondary and Higher Secondary Schools”**, organized by the Ramakrishna Mission Sikshan Mandira, Belur Math, August 20 – 25, 2007
11. Delivered a Lecture as Resource Person in the Workshop on **“Uchha-Madhyamik Starey Bishoibhittik Karmashala Syllabus of Geography at Higher Secondary Level, West Bengal”**, organized by the West Bengal Govt. School Teachers Association, Hare School Campus, Venue – Hindu School, September 17 – 21, 2007
12. Delivered a Lecture as Resource Person in the Seminar-cum Workshop on **“Career Option and GIS”**, organized by the Department of Geography, Kalyani University sponsored by the 21st Century GIS Solutions, April 9 2008
13. **Expert in the Panel Discussion on “Introduction of GIS Software in Undergraduate Level of Geography”, organized by the Department of Geography, Kalyani University, April 9 2008**
14. Delivered a Lecture as Resource Person on **“Mapping Your Career Graph with Geography”** in the Teachers Training Programme on Remote Sensing & Geographical Information System, organized by the Bangiyo Bhugol Mancha, Kolkata, June 1 – 5, 2008.
15. Delivered a Lecture as Resource Person on **“Application of GFM in Planning and Development – an overview”** as Part of the ‘Foundation for GIS Usage in Planning and Development for Howrah District, West Bengal’, organized by the Chairman, District Planning Committee, Howrah at the DM Bungalow on June 24, 2008 (presenter: Priyank Pravin Patel).
16. Delivered a Lecture as Resource Person on **“Resource Analysis from Geographical Perspective using Tools and Techniques of Geoinformatics”** in the 12th Refresher Course in Geography & Environmental Studies with focal theme on ‘Resource Appraisal & Environmental Challenges’, organized by the Department of Geography & UGC Academic Staff College, University of Calcutta, 07 – 28 No-vember, 2008 (27), Kolkata
17. Delivered a Lecture as Resource Person on **“International Charter on Geographical Education and Quality Teaching in Schools”** in the ‘Phase III of the CTE Programme on ‘Improving the Teaching Learning Process in Geography in Secondary and Higher Secondary Levels’, organized by the Ramakrishna Mission Sikshanamandira, Belur Math, Howrah, January 13 – 20, 2009 (19).
18. Delivered a Lecture as Resource Person on **“The most Inconvenient Truth on Geographical Perspective”** in the ‘Phase III of the Orientation Programme on ‘Emerging Trends in Geography Education : Methods and Materials’, organized by the Institute of Advanced Studies in Education, David Hare Training Col-lege, Kolkata, February 02 – 07, 2009 (06).
19. Delivered a Lecture as Resource Person on **“Urbanisation and City Size Distribution – an exploratory analysis”** in the 13th Refresher Course in Geography with focal theme on ‘Development Perspectives in Eastern India’, organized by the Department of Geography & UGC Academic Staff College, University of Calcutta, August 24 – September 12, 2009 (September 8), Kolkata.
20. Delivered a Lecture as Resource Person on **“The most Debated Issues about / in Geography”** in the **“CTE Orientation Programme for in-service teachers of Secondary and Higher Secondary Schools”**, organized by the Post-Graduate Autonomous College of Teacher Education, Ramakrishna Mission Sikshanmandira, Belur Math, Howrah, September 14, 2010.
21. Delivered a Lecture as Resource Person on **“Oceans — the power of the planet earth”** in the **“CTE Orientation Programme for in-service teachers of Secondary and Higher Secondary Schools”**, organized by the Post-Graduate Autonomous College of Teacher Education, Ramakrishna Mission Sikshanmandira, Belur Math, Howrah, September 16, 2010.
22. Delivered a Lecture as Resource Person on **“Nature, Structure and Models of Landscape – a geographer’s perspective”** in the Refresher Course in Earth Science with thrust area on ‘Landscape Systems: Developmental Interface’, organized by the Department of Geography & UGC Academic Staff College, University of Calcutta, 05 – 24 September, 2011 (13), Kolkata.
23. Delivered a Lecture as Resource Person on **“Geography and the Geographer”** in the **“CTE Orientation Programme for in-service teachers of Secondary and Higher Secondary Schools”**, organized by the Post-Graduate Autonomous College of Teacher Education, Ramakrishna Mission Sikshanmandira, Belur Math, Howrah, September 15, 2011.
24. Delivered a Lecture as Resource Person **“Landscape – attributes, hierarchy and models”** in the Saturday Lecture Series (Presentation No. 2), organized by the Geographical Institute, Presidency University, Kolkata at 3-00 pm on September 17, 2011.

25. Delivered a Lecture as Resource Person on “Urbanisation in India – nature and development” in the PG Department of Geography, Bhairab Ganguly College, Kolkata at 11-00 am on November 11, 2011.
26. Delivered a Lecture as Resource Person on “Counterurbanisation – nature, characteristics, social and environmental implications” in the PG Department of Geography, Bhairab Ganguly College, Kolkata at 11-00 am on November 18, 2011.
27. Delivered a Lecture as Resource Person on “Geostatistical Analysis – nature, foundation and techniques” in the PG Department of Geography (Autonomous), Rastraguru Surendranath College, Barrackpur (Barasat State University) at 11-00 am on April 25, 2012.
28. Delivered a Lecture as Resource Person on “Geographical Data Analysis – techniques and applications” in the PG Department of Geography (Autonomous), Rastraguru Surendranath College, Barrackpur (Barasat State University) at 11-00 am on April 28, 2012.
29. Delivered a Series of Five (5) Lectures as Resource Person on “Research Methodology in Geography” in the PG Department of Geography (Autonomous), Rastraguru Surendranath College, Barrackpur (Barasat State University) on February 11, 18 and 23, March 04 and 18, 2013.
30. Convener: State Level Seminar on “Vivekananda and his Thoughts on Education” organized by the Department of History, Chandernagore College on __/__/2014
31. Convener: 1-Day ICHR Sponsored Seminar on “Heritage, Politics and Space” organized jointly by Chandernagore College and Center for Studies in Social Science, Calcutta on __/__/2014
32. Delivered a Lectures as Resource Person on “Land Degradation – nature and concerns” in the NEAC 14 – 15 Workshop organized by Chandernagore Paribesh Unnayan Samity and Sponsored by the Ministry of Environment, Forest and Climate Change, Govt. of India on February 14, 2015 at Jyotirindranath Hall, CMC, Chandernagore.
33. Delivered a Lectures as Resource Person on “Maps, Geography and Mapping Our Future” in the One-Day Interactive Session, Organized by the Department of Geography, Darjeeling Govt. College, Darjeeling on June 04, 2015 at 10-30 am.
34. Delivered the 13th Professor Kanangopal Bagchi Memorial Lecture on “Geography and Map – myth and the contemporary reality”, Organized by the Geographical Society of India, Department of Geography, University of Calcutta, Kolkata-700 019 (Friday, June 19, 2015 at 5-00 p.m.)
35. Delivered a Lectures as Resource Person on “Cartography – yesterday, today and tomorrow” in the One-Day Interactive Session, Organized by the PG Department of Geography, Lady Brabourne College, Kolkata on September 17, 2015 at 11-30 am.
36. Delivered a Lectures as Resource Person on “Research Issues and Concerns in Geography” in the 1 - Day Interactive Session, Organized by the PG Department of Geography, Bhairab Ganguly College, Kolkata on October 03, 2015 at 2-00 pm.
37. Delivered a Special Lecture on “The Origin of Universe” in the Department of Geography, Sarat Centenary College, Dhaniakhali on August 16, 2016 at 12-00 Noon.
38. Delivered a Series of Lectures as Visiting Faculty on “Map Projection and Geoinformatics” in the Department of Geography, North Bengal University, Siliguri, West Bengal between 17.12.2016 and 24.12.2016.
39. Delivered a Series of Lectures as Guest Faculty on “Probabilty, Sampling and Test of Confidence” in the Department of Geography, University of Calcutta between October 2016 and January 2017.
40. Delivered a Series of Lectures as Guest Faculty on “Statistical Decision Theory: Social Affinity Index (SAI), t – test, Type – I and II Errors, 1 – tailed and 2 – tailed tests; Scaling Techniques: Rank Score, Weighted Score, Likert’s Opinionnaire, Chi Square Test and Mann – Whittney Test” in the P.G. Department of Geography, Prabhu Jagadbandhu College, Howrah between October 2016 and January 2017
41. Delivered a Series of Lectures as Guest Faculty on “Recent Trends in Geography” in the Department of Geography, Rabindra Bharati University, Kolkata between October 2016 and January 2017.
42. Delivered a Series of Lectures as Visiting Faculty in the Department of Geography and Applied Geography, North Bengal University, Jalpaiguri, West Bengal during the period 19 – 23 December, 2016.
43. Delivered a Series of Lectures as Guest Faculty on “Statistical Methods” in the Department of Geography, West Bengal State University, Barasat in December 2016.
44. Delivered a Series of Lectures as Guest Faculty on “Concepts of Location on Sphere and Spheroid” in the Department of Geography, Sarat Centenary College, Dhaniakhali on 08.08.2017 and 22.08.2017.
45. Delivered a Series of Lectures as Guest Faculty on “Test of Confidence” in the Department of Geography, East Calcutta Girl’s College, Kolkata on 29.08.2017 and 12.09.2017.
46. Delivered a Lectures as Resource Person on “Geography – yesterday, today and tomorrow” in the 1 - Day Interactive Session, Organized by the Department of Geography, Mrinalini Devi Mahavidyapith, Kolkata on September 12, 2017 at 12-00 noon.
47. Delivered a Series of Lectures as Guest Faculty on “Open Channel Hydraulics” in the Department of Geography, East Calcutta Girl’s College, Kolkata on 08.11.2017, 12.09.2017, 11.10.2017, 9.11.2017, 8.12.2017.
48. Delivered a Series of Lectures as Guest Faculty on “Sampling and Probability”, “Scaling Techniques and Likert’s Opinionnaire”, “Test of Significance” in the Department of Geography, Prabhu Jagatbandhu College, Andul on 31.10, 2017, 10.11.2017, 14.11.2017, 17.11.2017, 21.11.2017, 28.11.2017, 5.12.2017, .
49. Delivered a Special Lecture as Resource Person on “Geography: past, present and future” in the 1-Day Lecture Series, organized by the Department of Geography, Surya Sen Mahavidyalaya, Siliguri, West Bengal on 19th December, 2017.
50. Delivered a Series of Lectures as Visiting Faculty in the Department of Geography and Applied Geography, North Bengal University, West Bengal during the period 18 – 22 December, 2017.
51. Delivered a Series of Lectures as Guest Faculty on “Open Channel Hydraulics” in the Department of Geography, East Calcutta Girl’s College, Kolkata on 08.11.2017, 12.09.2017, 11.10.2017, 9.11.2017, 8.12.2017.
52. Delivered a Special Lecture as Guest Faculty on “Statistical Analysis in Geography” in the Ph.D. Course Work organized by the Department of Geography, Aliah University, Kolkata on 06.11.2017.
53. Delivered Special Lectures on “Monsoons – nature and origin” and “Open Channel Hydraulics” in the Department of Geography, Rabindra Bharati University, Kolkata February 21, 2018.
54. Delivered a Series of Lectures as Guest Faculty on “Computer Applications” and “QGIS” in the Department of Geography, Sarat Centenary College, Dhaniakhali on 09.01.2018, 17.01.2018, 01.02.2018, 20.02.2018, and 22.03.2018.
55. Delivered a Special Invitee Lecture on “Geography and Geographers: yesterday, today and tomorrow” in the 1-Day Special Lecture organized by the Department of Geography, Kalyani Mahavidyalaya on March 9, 2018.
56. Delivered a Special Invitee Lecture on “Role of Remote Sensing (RS) and Geographical Information System (GIS) in Geography” in the 1-Day Special Lecture organized by the Department of Geography, Kalyani Mahavidyalaya on March 9, 2018.

57. Delivered a Series of Lectures as Guest Faculty on “Fluvial Dynamics with special reference to Rating Curve, Flow Duration Curve, Braiding Index, Sinuosity Index, Meander Geometry, Hydraulic Geometry, Thiessen Polygon, Manning’s Equation” in the Department of Geography, East Calcutta Girl’s College, Kolkata on 13.03.2018, 20.03.2018 and 27.03.2018.
58. Delivered Special Lectures on “Urbanization with special reference to Rank-Size Distribution” and “Breaking Point Theory” in the Department of Geography, Rabindra Bharati University, Kolkata on March 29, 2018.
59. Delivered Special Lectures on **“Issues concerning Weather and Climate and the Contemporary World” in the Department of Geography, Bagbazar Women’s College, Kolkata on May 08, 2018.**
60. Delivered a Series of Lectures as Guest Faculty on “Test of Significance” in the Department of Geography, East Calcutta Girl’s College, Kolkata on 12.11.2018, 20.11.2018, and 27.11.2018.
61. Delivered a Series of Lectures as Guest Faculty on “Sampling and Probability”, “Scaling Techniques and Likert’s Opinionnaire”, “Test of Significance” in the Department of Geography, Prabhu Jagatbandhu College, Andul on 14.08.2018, 21.08.2018, 28.08.2018, 04.09.2018, 18.09.2018, 25.09.2018, 04.12.2018 and 11.12.2018.
62. Delivered a Series of Lectures as Guest Faculty on “Fluvial Dynamics with special reference to Rating Curve, Flow Duration Curve, Braiding Index, Sinuosity Index, Meander Geometry, Hydraulic Geometry, Thiessen Polygon, Manning’s Equation” in the Department of Geography, East Calcutta Girl’s College, Kolkata on 22.01.2019, 05.02.2019, 19.02.2019 and 05.03.2019.

Research Projects (completed)

1. **Principal Investigator**, University Grants Commission Research Project on **"Bank Erosion by Alluvial Channels a study in environmental geomorphology"** (submitted in October, 2000).
2. **Principal Investigator**, University Grants Commission Research Project on **"Mapping floodprone areas in Hooghly district, West Bengal using Satellite Data and GIS"** (submitted in December, 2006).
3. **Fluvial Analyst Ganga – Padma Bank Erosion – a case study of Taltali and Patashpur Area, Murshidabad, West Bengal**, . The Institute of Thematic Cartography, India + Sripatsingh College, Jiaganj, Murshidabad (submitted in October, 2010).
4. **Principal Investigator**, University Grants Commission Research Project on **“Extraction, Mapping and Explanation of the Fluviometric Properties of the Confluence Angles using RS and GIS”** (submitted in December, 2011).
5. **Supervisor**, UGC Research Project (NET JRF/SRF: Priyank Pravin Patel): on **"Geomorphology of Dulung Basin using RS & GIS" (Ph.D. Thesis on “An Exploratory Geomorphological Analysis using Modern Techniques for Sustainable Development of the Dulung River Basin) (submitted in May, 2012).**
6. **Co-Principal Investigator**, UGC sponsored Major Research Project on **"Strategies of Economic Development of the Terai of Darjeeling district, West Bengal – a block level study’ (Principal Investigator: Prof. M. M. Jana) (submitted in February, 2012).**
7. **Principal Investigator**, University Grants Commission Research Project on **"Identification, Measurement, Mapping and Mitigation of Developmental Disparity – a case study of West Bengal”** (submitted in October, 2016).

M. Phil Dissertation (supervised and awarded)

1. Uttarasol and Barkala – a comparative geographical appraisal of rural development (Mr. Dilip Dolai, Assistant Teacher: Shyampur School) (Vinayak Mission University, Salem, Tamilnadu) (awarded: 2007).
2. A Socio-economic Study of Bhalukhulya Village, District – Paschim Medinipur (Mr. Pratul Mridha, Assistant Teacher, Reg. No. 602013080262: 15.12.2009 (Vinayak Mission University, Sa-lem, Tamilnadu) (awarded: 2009).

M. Phil Dissertation (supervised and awarded)

1. **Characteristics and Correlates of Rural Sanitation – a geographical analysis of Nandigram, East Medinipur, West Bengal 1. Characteristics and Correlates of Rural Sanitation – a geographical analysis of Nandigram, East Medinipur, West Bengal** (Mr. Samaresh De, Assistant Teacher: Nandigram School) (Registration No. 04219900029: 16/12/2004) (submitted: 11th December 2009 and awarded: July 18, 2011, NSOU).
2. **An Exploratory Geomorphological Analysis using Modern Techniques for Sustainable Development of the Dulung River Basin** (Mr. Priyank Pravin Patel, UGC NET JRF) (No. 3184 Ph.D. (Sc) Proceed / 2007 dated 21st September, 2007 : Date of Registration : 19th September, 2007) (Submitted: May 04, 2012 and awarded: May 14, 2013; CU).
3. **Habitat and Socio-economic Development of the ST Population of Darjeeling district, West Bengal - a geoenvironmental analysis** (Mr. Gunadhar Manna, Lecturer: WBES) (No. 561 Ph.D. (Sc) Proceed / 2003 dated 4th March, 2003: Date of Registration : 26th February, 2003; 675 Ph.D. (Sc) Proceed / 2008 dated 29th February, 2008 : Date of Registration: 27th February, 2008). (submitted: February 08, 2013 and awarded: March 12, 2014; CU)
4. **Urban Development, Industrial Diversification and Socio-Economic Impact on the Haldia Municipal Area of East Medinipur District, West Bengal** (Ms Mahua Chatterjee, Lecturer: WBES) (Memo No. 03-01 / 602 (3) dated 2nd May, 2008: Registration No. 08129900038 : Date of Registration – 28th May, 2008). (Submitted: 08 May, 2014, NSOU and awarded: 30.12.2015).
5. **A Study on Medical Tourism in and around Kolkata** (Ms Anu Rai, University Scholar, KU) (Memo No. Ph.D/Regn./N.Rg1./Sc-182/Geo./AR/2012) dated November 12, 2012 (Date of Registration – 28th May, 2012). (Submitted: July 29, 2015, KU and awarded on February 25, 2016).

Ph. D. Research (Doctoral Scholars)

1. **Dynamics of Urban Sprawl —a comparative analysis of Barasat and Baruipur** (Ms Debasmita Biswas, UGC NET JRF / WBES Assistant Professor of Geography, ABN Seal College, Cooch Behar) (No. 3124 Ph.D. (Sc) Proceed / 2008 dated 10th September, 2008: Date of Registration: 9th September, 2008).
2. **Impact of Small Irrigation Projects and Assessment of their Performance in Southern Part of Purulia District, West Bengal, India** (Mr. Abhijit Ghosh, CSIR NET JRF) (No. 4504 (Sc) Proceed / 2010: Date of Registration – December 13, 2010).
3. **Inter-district Variation of Female – Male Ratio of West Bengal** (BU, Indrita Saha)
4. **Disparities in Socio-Economic Development in Puruliya District, West Bengal** (BU, Pabitra Mondal)
5. **Changing Pattern of Social Infrastructure Development of North 24-Parganas District, West Bengal** (BU, Pabitrajyoti Mondal)
6. **Socio-Economic Development in Digha-Mandarmoni Coastal Stretch, Purba Medinipur, West Bengal** (BU, Goutam Mondal)
7. **Social and Economic Landscapes of Hooghly District, West Bengal, 1991 – 2011: A Spatio-temporal Analysis** (SeacomU, Basudev Halder)
8. **Urban Growth, Urban Morphology and Urban Governance of Bankura Municipal Town, 1991 - 2011: An Exploratory Analysis** (SeacomU, Dhiren Barman)

9. Disparities of Development of the Scheduled Tribe Population of Dakshin Dinajpur District, West Bengal, 1991 – 2011: characteristics, correlates and impacts (SeacomU, Suranjan Mandal)

Professional Activities

- (1) Teaching Experience – 33 years +
(2) Research Experience – 35 years +
(3) Editor- in - Chief – Indian Journal of Spatial Science (both on-line & print)
(4) Peer Reviewer
1. International Journal of Family History doi:10.1177/0363199016652618),
2. Journal of Geography and Regional Planning (ISSN 2070 – 1845, DOI 10.5897/JGRP),
3. Spatial Information Research (ISSN: 2366-3286 print version; ISSN: 2366-3294 electronic version; Journal no. 41324)
4. Eurasian Journal of Soil Science
5. Egyptian Journal of Remote Sensing
(5) Resource Person
- Colleges / Universities / Institutes of West Bengal ,
- State Level Eligibility Test, Assam, India
- National Council for Education, Research and Training, India
- Public Service Commission, West Bengal
- Bangiyo Bhugol Mancha.
- State-level/National/International Seminars/Conferences/ Work-shops.
(6) Member
- PG Board of Studies: Presidency University, Calcutta University, Netaji Subhas Open University, Vidyasagar College, Bhairab Ganguly College.
- UG Board of Studies: Presidency University, Kalyani University.
- Post Graduate Faculty Council, Calcutta University
- Editorial Board: Non-Traditional Security-problems and prospects, Ave nel Press, Kolkata, 2017
(7) Govt. Nominee – West Bengal Education Service, etc
(8) Examiner
- Ph.D. Research: Universities of India
- M.Phil. / M.Sc Dissertation: University of Papua – New Guinea
- Colleges / Universities / Institutes of India
- Public Service Commission, West Bengal
(9) Participated in
- University Grants Commission sponsored Refresher Course on Earth Science, University of Calcutta, 1991
- Winter School on “Geographical Information System”, January 8 – 18, 2002, Applied Statistics Unit, Indian Statistical Institute, Kolkata.
(10) Founder—Editor
- Indian Journal of Spatial Science (Print Version: ISSN 2249 –3921; On-line Version: eISSN 2249 – 4316; www.indianssss.org)
(11) Life Fellow of the following Societies
a. Geographical Society of India, Kolkata
b. Indian Society of Landscape, Ecology & Ekistics, Kolkata
c. Indian Institute of Geomorphology, Allahabad
d. Indian Society of Remote Sensing, Dehradune
e. Indian Society of Earth Science, Kolkata
f. Indian National Cartographic Association, Hyderabad
g. Regional Science Association, IIT, Kharagpur
h. Indian Geographical Foundations, Kolkata
i. Indian Society of Spatial Scientists, Kolkata

Ph.D. Research Projects UGC

- Supervisor, University Grants Commission National Eligibility Test Junior Research Fellowship Project on
"Agricultural Pattern with special reference to Rice Cultivation in West Bengal" (incomplete as the JRF resigned to join service)
Supervisor, University Grants Commission National Eligibility Test Junior Research Fellowship Project on
"Cottage & Small Scale Industries in Bishnupur and Bolpur Sub-divisions of West Bengal – a geographical appraisal" (incomplete as the JRF: left)
Supervisor, University Grants Commission National Eligibility Test Junior Research Fellowship Project on
"Dynamics of Urban Sprawl in the Eastern Fringe of Kolkata – a geographical analysis using Rs and GIS Techniques"(ongoing)
Supervisor, Council of Science and Industrial Research National Eligibility Test Junior Research Fellowship Project on
"Small Irrigation Projects in Purulia – a geographical appraisal"(ongoing)