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Academic Qualifications :	M.Sc., B.Ed., Ph.D.
Present Designation/position :	Professor
Topics Taught :	Geomorphology, Disaster Management, Hydrology, Geography of North-east India and Tripura, Fluvial Geomorphology (Special Paper)

Publications (year wise) :

Research papers in refereed journal having ISSN

1. Pal, S. and Das Pan N. (2026): 'Prioritization of sub-watersheds based on hydro-morphometric assessment in relation to soil erosion: A case study in Haora drainage basin, Tripura', **Geosystems and Geoenvironment, Elsevier Publication**, Volume 5, Issue 2, pp. 1-18, ISSN 2772-8838, Scopus indexed.
2. Shah, A. I., Das, K. and Das Pan, N. (2025): 'Flood frequency analysis and susceptibility zonation of the Haora River basin, North-east India', **River, Wiley Publication**, Volume 4, Issue 1, pp. 116-133, ISSN 2750-4867, Scopus indexed.
3. Shah, A. I. and Das Pan, N. (2024): 'Flood susceptibility assessment of Jhelum River basin: A comparative study of TOPSIS, VIKOR and EDAS methods', **Geosystems and Geoenvironment, Elsevier Publication**, Volume 3 Issue 4, pp. 1-12, ISSN 2772-8838, Scopus Indexed.
4. Shah, A. I. and Das Pan, N. (2024): 'Evaluation of probability distribution methods for flood frequency analysis in the Jhelum basin of North-western Himalayas, India', **Cleaner Water, Elsevier Publication**, Volume 2 Issue 2, pp. 1-14, ISSN 2950-2632, Indexed in Science Direct.
5. Debbarma, J. and Das Pan, N. (2024): 'Nature of soil permeability study in unconsolidated sediment of diverse physiographic settings of Tripura, India', **Geographical Review of India, The Geographical Society of India Publication**, Volume 86 Issue 1, pp. 1-16, ISSN 0375-6386, Indexed in UGC Care (Gr. 1).
6. Ahmed, I., Das Pan, N., Debnath, J., Bhowmik, M. and Bhattacharjee, S. (2024): 'Flood hazard zonation using GIS-based multi-parametric analytical hierarchy process', **Geosystems and**

Geoenvironment, Elsevier Publication, Volume 3 Issue 2, pp. 1-13, ISSN 2772-8838, Scopus Indexed.

7. Debbarma, J. and Das Pan, N. (2023): 'Status of availability and accessibility of safe ground water sources in Tripura', **The Indian Geographical Journal, The Indian Geographical Society Publication**, Volume 98 Issue 1, pp. 34-47, ISSN 0019-4824, Indexed in UGC Care.
8. Debbarma, J. and Das Pan, N. (2023): 'Ground water potential mapping of Tripura using Analytical Hierarchy Process and GIS', **International Journal of Ecology and Environmental Sciences, National Institute of Ecology Publication**, Volume 49 Issue 6, pp. 605-621, ISSN 2320-5199, Indexed in UGC Care.
9. Debbarma, J. and Das Pan, N. (2023): 'Pre-monsoon and Post-monsoon ground water quality analysis of Tripura using multivariate statistics', **North-Eastern Geographer, North-East India Geographical Society Publication**, Volume 42 Issue 1 & 2, pp. 91-103, ISSN 0973-0915, Indexed in UGC Care.
10. Debnath, J., Das Pan, N. and Sahariah, D. (2022): 'Impacts of temperature-rainfall and land use/land cover changes on the hydrological regime in the Muhuri River basin, North-east India', **Sustainable Water Resources Management, Springer Publication**, Volume 8 Issue 4, pp. 1-21, ISSN 2363-5045, Scopus Indexed, **Impact Factor: 2.2**.
11. Debnath, J., Meraj, G., Das Pan, N., Chand, K., Debbarma, S., Sahariah, D., Gualtieri, C., Kanga, S., Singh, S.K., Farooq, M., Sahu, N. and Kumar, P. (2022): 'Integrated remote sensing and field-based approach to assess the temporal evolution and future projection of meanders: A case study on River Manu in North-eastern India', **PLOS ONE, Public Library of Science Publication**, Volume 17 Issue 7, pp. 1-32, eISSN 1932-6203, Scopus Indexed, **Impact Factor: 3.752**.
12. Debnath, J., Das Pan, N., Debnath, M. and Ahmed, I. (2021): 'Strategy for maintaining environmental quality: A case study from North-east India', **North-Eastern Geographer, North-East India Geographical Society Publication**, Volume 41 Issue 1 & 2, pp. 3-21, ISSN 0973-0915, Indexed in UGC Care.
13. Debnath, J., Das (Pan), N. and Ahmed, I. (2020): 'An attempt to analyse the driving forces of land use change of a tropical river basin: A case study of the Muhuri River, Tripura, North-East India', **International Journal of Ecology and Development**, 35(2), pp.13-30. ISSN: 0972-9984.
14. Majumdar, S. and Das (Pan), N. (2019): 'Combining open source GIS and meta-analysis to link rainfall trend and human activity: case study on Gumti and Khowai drainage systems, Tripura, India', **Spatial Information Research, Springer Nature Publication**, 28(20), pp. 287-298,ISSN 2366-3286.
15. Debbarma, J. and Das (Pan), N. (2019): 'A spatio-temporal study on fluctuation in pre-monsoon and post-monsoon groundwater level in Tripura, North-east India', **International Journal of Advanced Scientific Research and Management**, Volume 4 Issue 2, pp. 39-48, ISSN 2455-6378
16. Debnath, J., Das (Pan), N., Sharma, R., Ahmed, I. (2019): 'Impact of confluence on hydrological and morphological characters of the trunk stream: A study on the Manu River of North-east India', **Environmental Earth Sciences, Springer Nature Publication**, 78:190,doi.org/10.1007/s12665-019-8190-7. ISSN 1866-6280 (print), 1866-6299 (web), **Impact Factor: 1.765**.
17. Bhowmik, M., Das (Pan), N., Das, C., Ahmed, I. and Debnath, J. (2018): 'Bank material characteristics and its impact on river bank erosion, West Tripura District, Tripura, North-East India', **Current Science (Research Communications)**, 115(8), pp. 1571-1576, ISSN 0011-3891, **Impact Factor: 0.883**.

18. Ahmed, I., Das (Pan), N., Debnath, J. and Bhowmik, M. (2018): 'Erosion-induced channel migration and its impact on dwellers in the lower Gumti River, Tripura, India', **Spatial Information Research, Springer Publication**, 26(5), pp. 537-549, ISSN 2366-3286 (Print), 2366-3294 (Online).
19. Istak Ahmed, Nibedita Das (Pan), Jatan Debnath, Moujuri Bhowmik (2017): An assessment to prioritise the critical erosion-prone sub-watersheds for soil conservation in the Gumti basin of Tripura, North-east India, **Environmental Monitoring and Assessment, Springer Publication**, Vol. 189 (11): 600, pp. 1-15, ISSN 01573-2959. **Impact factor: 1.679**
20. Jatan Debnath, Nibedita Das (Pan), Istak Ahmed, Moujuri Bhowmik (2017): Channel migration and its impact on land use/ land cover using RS and GIS: A study on Khowai River of Tripura, North-east India, **The Egyptian Journal of Remote Sensing and Space Sciences, Elsevier Publication**, Vol. 20, pp. 197-210, ISSN 1110-9823. **Impact factor: 1.611**
21. Jatan Debnath, Nibedita Das (Pan), Istak Ahmed, Moujuri Bhowmik (2017): Chronological change of land use/ land cover of the Muhuri River basin from 1972-2016, Tripura, North-east India, **Indian Journal of Science and Technology**, Vol. 10(22), pp. 1-18, ISSN 0974-5645. **Impact factor: 0.68.**
22. Moujuri Bhowmik, Nibedita Das (Pan), Istak Ahmed, Jatan Debnath (2017): Rainfall frequency analysis to predict flood in West Tripura District, Tripura, North-east India, **International Journal of Geomatics and Geosciences**, Vol. 7(3), pp. 310-320, ISSN 0976-4380.
23. Amal Debnath, Jatan Debnath, Istak Ahmed, Nibedita Das (Pan) (2017): Change detection in land use/ land cover of a hilly area by remote sensing and GIS technique: A study on tropical forest hill range, Baramura, Tripura, North-east India, **International Journal of Geomatics and Geosciences**, Vol. 7(3), pp. 293-309, ISSN 0976-4380.
24. Jatan Debnath, Nibedita Das (Pan), Istak Ahmed, Moujuri Bhowmik (2016): Vulnerability assessment of socio-economic condition due to river bank erosion: A case study on Khowai River, Tripura, India, **Journal of Humanities and social Science**, Vol. 21, pp. 37-42, ISSN 2279-0837.
25. Istak Ahmed, Jatan Debnath, Nibedita Das (Pan) (2016): A study on suspended sediment discharge and bed load grain size of the Gumti River of Tripura at some selected tributary confluence point, **International Journal of Geology, Earth and Environment Science**, Vol. 6, pp. 45-53, ISSN 2277-2081.
26. Istak Ahmed, Jatan Debnath, Nibedita Das (Pan) (2015): Impact of river on human life: A case study on the Gumti River, Tripura, **Radix International Journal of Research in social Science**, Vol. 4, pp. 1-13, ISSN 2250-3994.
27. Debnath, J., Ahmed, I. and Das (Pan), N. (2015): 'Physico-chemical Analysis of the Muhuri River, Tripura, Northeast India' in **Indian Streams Research Journal**, Vol. 5 (7), pp. 1-7, ISSN 2230-7850. Impact factor: 3.1560.
28. Debnath, J., Ahmed, I. and Das (Pan), N. (2015): 'Impact of Anthropogenic Activities on Channel Characteristics: A Case Study of Muhuri River, Tripura, Northeast India' in **Archives of Applied Science Research**, 7 (7): 27-36.
29. Majumdar, S. and Das (Pan), N. (2014): 'Bank Erosion Risk: A Study on the Khowai River, Tripura' in **Indian Journal of Landscape Systems and Ecological Studies, Institute of Landscape, Ecology and Ekistics, Kolkata**, Vol. 37(2), pp. 83-91, ISSN 0971-4170.
30. Bhowmik, M. and Das (Pan), N. (2014): 'Flood hazard mapping of the Lohar Nala Basin, West Tripura' in **Archives of Applied Science Research**, 6 (3): 142-153.

31. Das (Pan), N. and Chakraborty, M. (2013): 'Flood hazard and risk assessment of the Haora River basin: A case study on Khayerpur Mouza, Tripura, North-east India' in **Indian Journal of Research**, Vol. 3 (4), pp. 193-196, ISSN 2250-1991.

32. Das, N. and Bhowmik, M. (2013): 'Qualitative assessment of river bank erosion risk in Jirania Rural Development Block, Tripura' in **Indian Journal of Applied Research**, Vol. 3 (6), pp. 8-10, ISSN 2249-555X. SJIF: 0.8215.

33. Das, N. and Wadadar, S. (2012): 'Impact of bank material on channel characteristics: A case study from Tripura, North-east India' in **Archives of Applied Science Research**, Vol. 4 (1), pp. 99-110, ISSN 0975-508X.

34. Das (Pan), N. (2012): 'An analytical approach to the changing channel characteristics: A case study on the Lower Manu River, North Tripura' in **Indian Journal of Research**, Vol. 1 (3), pp. 70-73, ISSN 2250-1991.

35. Das, N. (2012): 'Mid-channel depositional feature: An analysis' in **Golden Research Thoughts**, Vol. 1 (10), pp. 16-26, ISSN 2231-5063. SJIF: 0.1870.

36. Chakraborty, M. and Das (Pan), N. (2012): 'Effect of flood on land use in different Return Periods: A case study from the Lower Haora Basin, Tripura, North-east India' in **Indian Streams Research Journal**, Vol. 2 (7), pp. 34-40, ISSN 2230-7850. SJIF: 0.2105.

37. Deb, R. R. and Das, N. (2012): 'A study on temporal change in bank line of River Khowai at Alepsha, Khowai District, Tripura' in **Indian Journal of Research**, Vol. 1 (4), pp. 59-62, ISSN 2250-1991.

38. Meena, B. and Das (Pan), N. (2012): 'A study on eco-tourism potential in Tripura, North-east India' in **Indian Streams Research Journal**, Vol. 1 (5), pp. 1-4, ISSN 2230-7850. SJIF: 0.2105.

39. Das, N and Das, S. (2011): An observation on deterioration of a channel: A case study from Agartala City, Tripura, North-east India, in **Archives of Applied Science Research**, Vol. 3 (5), pp. 450-464, ISSN 0975-508X.

40. Das (Pan), N. (2010): Rubber Plantation : A boon to the sustainable development of Kanchanmala Village, Bishalgarh Sub-Division, Tripura (W) in **Indian Journal of Landscape Systems and Ecological Studies, Institute of Landscape, Ecology and Ekistics, Kolkata**, Vol. 33, No. 1, Pp. 607-614, ISSN 0971-4170.

41. Das (Pan), N. and Deb. R.R. (2008): Changing course of the Khowai River of Tripura and related problems, **Jharkhand Journal of Development and Management Studies; Issue on Disaster Management and Community Initiatives**, Volume – 6 No. 2(XXIII), Pp. 2919 – 2928, ISSN 0973-8444.

42. Das (Pan), N.; Bhattacharya, B. and Deb, M. (2007): Geo-Environmental impact on Land Use: A comparative study in West Tripura, in **Indian Journal of Landscape Systems and Ecological Studies, Institute of Landscape, Ecology and Ekistics, Kolkata**, Vol. 30(2), pp. 93-108, ISSN 0971-4170.

43. Das (Pan), N. (2007): Watershed Development Programme – Key to the sustainable development of Fatikcherra Watershed under Bishalgarh Block, West Tripura District, in **Indian Journal of Landscape Systems and Ecological Studies, Institute of Landscape, Ecology and Ekistics, Kolkata** Vol. 30(1), pp. 155-159, ISSN 0971-4170.

44. Das, N. (2005): Watershed Development Programme – opening of a new horizon in drought prone watershed areas of Puruliya District, in **Indian Journal of Landscape Systems and Ecological Studies, Institute of Landscape, Ecology and Ekistics, Kolkata**, Vol. 28(2), pp. 194 – 200, ISSN 0971-4170.

45. Das, N. (2005): Irrigational status of the Kumari Basin, Puruliya, in **Indian Journal of Landscape Systems and Ecological Studies, Institute of Landscape, Ecology and Ekistics, Kolkata**, Vol. 28(1), pp. 159 – 164, ISSN 0971-4170.

Books/Book Chapters/Articles Having ISBN/ISSN.

1. Ahmed, I., **Das (Pan), N.**, Debnath, J. and Banik, H. (2022): 'Geo-environmental problems in the fringe areas of the Rudrasagar Lake, Tripura, India' In book titled **Environmental change in South Asia**, edited by A. Saikia and P. Thapa, published by **Springer Nature Switzerland**, pp. 217-233, ISBN 13: 978-3030476595
2. Ahmed, I., **Das (Pan), N.** and Debnath, J. (2022): 'An Analysis of Textural Characteristics and Depositional Environment of Sediments in the Gumti River, Tripura, India' In book titled **Water Resources Management and Sustainability**, edited by P. Kumar, G. K. Nigam, M. K. Sinha and A. Singh, published by **Springer Nature Singapore**, pp. 389-402.
3. Debnath, J. and **Das (Pan), N.** (2022): 'Effect of land use/land cover change on soil loss in the tropical river catchment of Northeast India' In book titled **Geospatial Technology for Environmental Hazards, Modeling and Management in Asian Countries**, edited by P. K. Shit, H. R. Pourghasemi, G. S. Bhunia, P. Das and A. Narsimha, Published by **Springer Nature Switzerland AG**, pp. 75-96. ISBN: 978-3-030-75197-5.
4. Debnath, J., **Das (Pan), N.**, Debnath, A. and Ahmed, I. (2022): 'Changing scenario of tropical forests due to shifting cultivation in the Indo-Burma Bio-geographical hotspot: A study on three major hill ranges of Tripura, North-east India' In book titled **Mountain Landscapes in Transition, Effects of Land Use and Climate Change**, edited by U. Schickhoff, R. B. Singh and S. Mal, Published by **Springer Nature Switzerland AG**, pp. 501-516. ISBN: 978-3-030-70237-3.
5. Bhowmik, M. and **Das (Pan), N.** (2021): 'Flood Simulation Modeling and Disaster risk Reduction of West Tripura District, Tripura, North-East India' In book titled **Water Science and Sustainability**, edited by B. W. Pandey and S. Anand, Published by **Springer nature Switzerland AG**, pp. 201-212. ISBN 978-3-030-57487-1, ISBN 978-3-030-57488-8 (eBook).
6. Ahmed, I. and **Das (Pan), N.** (2018): 'Sedimentation-induced depositional lands of the Gumti River of Tripura and its land use pattern' in a book titled "**Climate Change, Extreme Events and Disaster Risk Reduction**" edited by S. Mal, R. B. Singh and C. Huggel, published by **Springer International Publishing**, pp. 135-146, ISBN 978-3-319-56468-5, 978-3-319-56469-2 (eBook).

7. Bhowmik, M. and **Das (Pan), N.** (2015): 'Flood Hazard: A Case Study of the Lohar Nala, West Tripura District' in Emerging Environmental issues in Today's Society with special reference to Northeast India (Proceedings of National Seminar) edited by Dilip Sarkar and Nandini Gupta, published by Supriya Books, Delhi, pp. 53-66, ISBN 978-93-84471-07-1.

8. Deb, R. R. and **Das (Pan), N.** (2015): 'Impact of shifting of River Khowai on environment of Kanchanghat Village, Khowai District, Tripura' in Emerging Environmental issues in Today's Society with special reference to Northeast India (Proceedings of National Seminar) edited by Dilip Sarkar and Nandini Gupta, published by Supriya Books, Delhi, pp. 67-77, ISBN 978-93-84471-07-1.

9. Majumdar, S. and **Das (Pan), N.** (2015): 'Bank Erosion of the Gumti River between Barmura and Atharamura Hill Ranges and its impact on Socio-economic condition of the local people' in Emerging Environmental issues in Today's Society with special reference to Northeast India (Proceedings of National Seminar) edited by Dilip Sarkar and Nandini Gupta, published by Supriya Books, Delhi, pp. 78-89, ISBN 978-93-84471-07-1.

10. Bhowmik, M. and **Das (Pan), N.** (2014): 'Quantitative Assessment of Bank Erosion Hazard in a part of the Haora River, West Tripura' in Landscape, Ecology and Water Management edited by Mehtab Singh, R. B. Singh and M. I. Hassan, Published by **Springer, Tokyo, Japan**, pp. 192-203, ISSN 2198-3542, ISSN 2198-3550 (electronic), ISBN 978-4-431-54870-6, ISBN 978-4-431-54871-3 (eBook).

11. Majumdar, S. and **Das (Pan), N.** (2014): 'Spatio-temporal shift of right bank of the Gumti River, Amarpur Town, Tripura and its impact' in Landscape, Ecology and Water Management edited by Mehtab Singh, R. B. Singh and M. I. Hassan, Published by **Springer, Tokyo, Japan**, pp. 221-232, ISSN 2198-3542, ISSN 2198-3550 (electronic), ISBN 978-4-431-54870-6, ISBN 978-4-431-54871-3 (eBook).

12. Chakraborty, M. and **Das (Pan), N.** (2014): 'Flood Risk Assessment and Vulnerability Analysis: A Comparative Study on two Villages of Haora River Basin, West Tripura, India' in Environmental Perspectives and Resource Management (Proceedings of International Seminar organized by ILEE), published by Sandhya Prakashani, Kolkata, pp. 335-341, ISBN 978-81-928047-4-3

13. Ahmed, I. and **Das (Pan), N.** (2014): 'Sedimentation problem of Lower Gumti River, Tripura: An Analysis' in Environmental Perspectives and Resource Management (Proceedings of International Seminar organized by ILEE), published by Sandhya Prakashani, Kolkata, pp. 342-348, ISBN 978-81-928047-4-3.

14. Bhowmik, M. and **Das (Pan), N.** (2014): 'Near Bank Stress Ranking of Sonai Gang Basin, West Tripura District' in Environmental Perspectives and Resource Management (Proceedings of

International Seminar organized by ILEE), published by Sandhya Prakashani, Kolkata, pp. 377-382, ISBN 978-81-928047-4-3.

15. Chakraborty, M. and **Das (Pan), N.** (2014): 'Change in Channel Course due to anthropogenic activities: A Case Study from Tripura' in Application of Modern Techniques for the management of Contemporary Environmental Hazards and Disasters (Proceedings of National Seminar) edited by Dilip Kumar Khan, pp. 16-23, ISBN 978-81-929776-0-7.

16. Majumdar, S. and Das (Pan), N. (2013): 'Temporal change of the River Khowai within Teliamura Subdivision, Tripura and its impact' in Contemporary issues on environment and development in India and adjacent countries (Proceedings of National Seminar) edited by S. Majumder, published by Sandhya Prakashani, Kolkata, pp. 418-424, ISBN978-81-928047-2-9.

17. Bhowmik, M. and Das (Pan), N. (2013): 'River Bank Erosion Hazard in PurbaNoagaon and Uttar Champamura Village of the Haora River Basin, West Tripura District' in Contemporary issues on environment and development in India and adjacent countries (Proceedings of National Seminar) edited by S. Majumder, published by Sandhya Prakashani, Kolkata, pp. 433-441, ISBN978-81-928047-2-9.

18. Deb, R. R. and **Das (Pan), N.** (2013): 'Impact of shifting of River Khowai on Land Use of Baganbazar, Teliamura Subdivision, Khowai District, Tripura' in Contemporary issues on environment and development in India and adjacent countries (Proceedings of National Seminar) edited by S. Majumder, published by Sandhya Prakashani, Kolkata, pp. 385-391, ISBN978-81-928047-2-9.

19. **Das (Pan), N.** (2011): Energy Resources of Tripura, in Resources and Economy of Tripura edited by I. Bhowmik and D. Chakraborti, Published by EBH Publishers, Guwahati, pp. 77-92, ISBN 978-93-8026-31-7.

20. **Das (Pan), N.** (2011): Water Resources of Tripura, in Resources and Economy of Tripura edited by I. Bhowmik and D. Chakraborti, Published by EBH Publishers, Guwahati, pp. 65-76, ISBN 978-93-8026-31-7.

21. **Das (Pan), N.** (2011): Forest Resources of Tripura, in Resources and Economy of Tripura edited by I. Bhowmik and D. Chakraborti, Published by EBH Publishers, Guwahati, pp. 50-64, ISBN 978-93-8026-31-7.

22. **Das (Pan), N.** (2011): Soil and Mineral Resources of Tripura, in Resources and Economy of Tripura edited by I. Bhowmik and D. Chakraborti, Published by EBH Publishers, Guwahati, pp. 31-49, ISBN 978-93-8026-31-7.

23. **Das (Pan), N.** and Bhattacharya, B. (2010): 'Sustainable Development of Jhumias through Micro Watershed Development Project under WDPSCA in Tripura', in Shifting Cultivation: In Search of Alternatives, Edited by R. Acharya, G. Bera and J. Chowdhury, Abhijeet Publications, New Delhi. ISBN 978-93-80031-78-1

Seminar/Conference/Workshop/Refresher/Orientations etc. Participated:

1. UGC sponsored thirteenth four week **Orientation Programme** from November 5 to December 2, 1993 at the Academic Staff College, University of Burdwan.

2. National Seminar on "Changing Scenario of man-Environment Relationship in North East India" organized by the Department of Geography, Women's College, Agartala, held on 11th and 12th December, 2004 and presented a paper entitled "Watershed Development Programme -- Key to the sustainable development of Fatikchhera Watershed under Bishalgarh Block, West Tripura District".

3. National Seminar on "Research Methods and Techniques for sustainable development in India" organized by the Institute of Landscape, Ecology and Ekistics (ILEE) and Indian Institute of Bio-Social Research and Development (IBARD), held on 25th and 26th March, 2006 and presented a paper entitled "Watershed Management for sustainable development of Chirudi Mouza, Banduan".

4. International Seminar on "Poverty and Development in South Asia" organized by the Department of Geography, University of Calcutta, held on January 11th - 13th, 2007 and presented a paper entitled "Waterlogging problem of Agartala Municipal Area, Tripura".

5. XXVI National Seminar on "Hydrology with a special colloquium on Rainfall versus Water Resources in North East India" organized by the Association of Hydrologists of India, held at North-Eastern Hill University, Shillong, Meghalaya on 26th – 28th October, 2007 and presented a paper entitled "Hydro Dynamic factors for bar formation in the River Manu at Fatikroy, North Tripura".

6. National Seminar on "Geomorphology in Disaster Mitigation and Management" organized by the Department of Geography, Banaras Hindu University, Varanasi, held on 15th and 17th February, 2008 and presented a paper entitled "Natural Changes in the channel bed and its impact on flood: A case study of the River Manu, North Tripura".

7. State Level Workshop on "Development of Rural Women and Children: Challenges and Opportunities" organized by the Centre for Rural Studies, Tripura University, held on 17th and 18th April, 2008 and presented a paper entitled "Role of Women in Joint Forest Management".

8. National Conference on "Tourism Destination Competitiveness and Sustainability" organized by the Department of Commerce and Zoology, Dayananda College, Ajmer, Rajasthan, held on 21st and 22nd November, 2008 and presented a paper entitled "Prospects of Ecotourism Development in Tripura".

9. XXI Indian Institute of Geomorphologists (IGI) Conference and National Seminar on "Geomorphic Hazards : Issues and Challenges" organized by the Department of Geography and Disaster Management, Tripura University, held on 28th - 30th November, 2008 and presented a paper

entitled "Assessment of Risk and Vulnerability of Fluvial Hazards in the Khowai Basin, Tripura, North-East India".

10. Regional Workshop on "Hydrogeology and Hydrochemistry and its related issues in North Eastern States" organized by Central Ground Water Authority and Central Ground Water Board, North Eastern Region, Guwahati, held on 25th and 26th February, 2009 and presented a paper entitled "An Analytical Approach to the changes in river behaviour: A case Study in the Lower Manu River at Fatikroy, Tripura, North-East India.

11. Workshop on "Syllabus Preparation for Undergraduate Courses (TDC and TDCH)" conducted by Tripura University, held on 21st March, 2009.

12. National Workshop on "Hydro-Geomorphic Hazards : Challenges for Science Communication" organized by the Department of Geography and Disaster Management, Tripura University, held on 18th - 20th November, 2009.

13. National Seminar on "Population, Development and Environment: Issues and challenges" organized by the Department of Geography, Banaras Hindu University, Varanasi, held on 18th - 20th February, 2010 and presented a paper entitled "Bank Erosion and its impact on Environment at Manu-Deo Valley, Fatikroy, Tripura".

14. International Geographical Union (IGU) Commission Seminar on Land Use, Biodiversity and Climate Change organized by Department of Geography, Cotton College, Guwahati from 11th to 13th December, 2010.

15. State Level Seminar on Identification of Research Priorities in Tripura held during February 12-13, 2011 at Agartala, organized by Indira Gandhi National Open University, Agartala, Tripura.

16. National Seminar on Emerging Environmental issues in today's society with special reference to Northeast India held during February 22th -23rd, 2014 organized by Bir Bikram Memorial College, Agartala, Tripura.

17. Participated in NRDMS-DST sponsored three weeks training programme on "Capacity Building in Geospatial Technology" (equivalent to Summer School/Winter School/**Refresher Course**) from 10th February-2nd March, 2017 organized by the Department of Civil Engineering, NIT, Agartala.

18. Delivered lecture on 'Avenues of Research in Higher Education with special reference to Applied Geographical Research' on 4th April, 2018 in a 30 day long Induction Training of Faculty Programme organised by the Faculty Development Centre of Tripura University under PMMMNMTT Scheme, MHRD, Dept. of Higher Education, Govt. of India.

19. Delivered two lectures on 'Application of GIS in Geographical studies' and 'Researches in Higher Education' in a 30 day long Induction Training of Faculty Programme organised by the Faculty Development Centre of Tripura University under PMMMNMTT Scheme, MHRD, Dept. of Higher Education, Govt. of India held during 4th September to 3rd October, 2018.

20. Delivered lecture on 'Application of GIS in Geographical studies' and 'Researches in Higher Education' in a 30 day long Induction Training of Faculty Programme organised by the Faculty Development Centre of Tripura University under PMMMNMTT Scheme, MHRD, Dept. of Higher Education, Govt. of India held during 4th September to 3rd October, 2018.

21. Delivered Lecture on 'Avenues of Applied Geographical Research in Higher Education'in a 21 day Refresher Course titled 'Naitalim: Gandhi's vision of education and present scenario – Advanced teaching and Research methods' for facultiesorganised by the Faculty Development Centre of Tripura University under PMMMNMTT Scheme, MHRD, Dept. of Higher Education, Govt. of India held during 8th to 28th January, 2019.
22. Delivered Lecture on 'Experimental Research Design' in a 10 day Workshop on 'Research Methodology for Ph.D.,M.Phil and PDF scholars'organised by the Department of Business Management, Tripura University held during 18th to 27thFebruary, 2019.
23. Delivered Lecture on 'Effect of climate change on rivers of Tripura: An observation' in a two dayNational Workshop on 'River and Water Management for Sustainable Development with Policy Perspectives' organised by Tripura University in collaboration with Aviral Ganga Mission held on 3rd and 4th July, 2019.
24. Invited to chairing a session of the presentation of the participants in a two week Refresher Course titled 'Rural Development, New Media and Social Change' for facultiesorganised by the Faculty Development Centre of Tripura University under PMMMNMTT Scheme, MHRD, Dept. of Higher
25. Delivered Lecture on 'Effect of climate change on rivers of Tripura: An observation' in a National level Workshop on zoom theme 'Awareness campaign to rejuvenate Howrah, Gomati and other rivers in Tripura region for realising and maximizing potential' organised by Youth for Integration Trust,Tripura and SKECT, Women Water Warriors, Mumbai in association with Mansi Bharat Gada Degree College of Commerce, Bhiwandi (MS) held on 29th May, 2020.
26. Attended a National Webinar on 'Impact of Covid-19 on Indian Tourism Industry' organized by I.C.S. College of Arts Commerce and Science, Ratnagiri (MS) held on 9th January, 2021.
27. Participated in one day National level Webinar on 'Systematic Literature Review Research Methodology' organized by the Department of Electrical Engineering, Tripura University on 25th January 2021.
28. Delivered lecture as key speaker on 'River Hazards related issues and probable management for sustainability' in the Webinar organized by the Department of Environmental Studies, Matasundari College for Women, University of Delhi on 24th April 2021.
29. Participated in two days Webinar on 'Implementation of New Education Policy – 2020' organized by Tripura University on 11th – 12th June 2021.
30. Delivered lecture as resource person on ' inthe Webinar on 'Sustainable Hill Area Development' organized by the National Institute of Disaster management, Ministry of Home Affairs, Govt. of India in collaboration with the ICV College, Govt. of Tripura on 22nd July 2021.
31. Participated in the Webinar on 'Spatial thinking through GIS' conducted on 23rd November 2021 on the occasion of GIS Day - 2021 organized by Division of Geoinformatics, School of Life Sciences, JSS Academy of Higher Education and Research, Mysuru.

32. **Delivered lecture** on 'Fluvial Geomorphology as a discipline of Earth Sciences' in an UGC sponsored online **Refresher Course** on 'Geography and Earth Sciences' organized by the UGC-Human Resource Development Centre, Doctor HarisinghGour Vishwavidyalaya (A Central University), Sagar held on 20th January 2022.

33. **Delivered special lecture as resource person** on 'Earth's Fever' organized by Science Forum, in collaboration with IQAC and the Department of Zoology at Rabindranath Thakur Mahavidyalaya, Bishalgarh, Tripura on 7th March 2023.

34. Attended an online webinar on 'Resource Conservation and Management in Mountain Ecosystems' organized by Grassroots Institute on 23rd February 2023.

35. **Delivered lecture** in Geomorphology (Series 1) on 'Impact of Climate on Geomorphic Processes and Resultant Landforms' organized by the Geography Department of M.B.B. College, Agartala, Tripura on 13th December 2024.

36. **Chaired a session** in ICSSR sponsored two-day **National Seminar** on 'Global Warming: Understanding the crisis, impact and pathways to a resilient future in a polluted world', organized by Swami Vivekananda Mahavidyalaya, Mohanpur, Tripura on 24th & 25th October 2025.

37. **Delivered lecture as a resource person** on 'River related Hazards: Present Scenario of Tripura' during the special lecture programme organized by the Department of Geography, Women's College, Agartala, Tripura on 17th December 2025.

Membership/Positions in Learned Academic Bodies/Organizations:

Life Member of the Institute of Landscape, Ecology and Ekistics, Kolkata, West Bengal

Life Member of the Association of Hydrologists of India, Visakhapatnam, Andhra Pradesh

Life Member of the Geographical Society of India, Kolkata, West Bengal

Life Member of the Indian Institute of Geomorphologists (IGI), Allahabad, U.P.

Life Member of the North East India Geographical Society, Guwahati, Assam

Founder Member of Geographical Society of Uttarakhand, Uttarakhand

Research Projects:

Title of the Project	Funding Agency	Amount Involved (Rs. in Lakhs)	Duration	Status
Fluvial Hazards and their Impact on Socio-Economic Condition of the Haora Basin, West Tripura	Department of Science and Technology (SERC Division), Govt. of India	10.28	3 yrs. DOS: 29.09.2010	Completed
study on siltation, impacts, recommendations of Disaster Risk Reduction (DRR) initiatives and Climate Change Adaptation (CCA) for Khowai River of Tripura	Govt. of India UNDP Project through Revenue Department, Govt. of Tripura	2.00	1 yr. DOS: 29.08.2015	Completed

Research Supervisions (Scholar's Name, Topic and Status):

Sl. No	Name of the Research Scholar	Topic	Status
1	Mr. Bajrang Lal Meena	Prospects of Eco-Tourism Development in Tripura	Awarded in 2014
2	Mrs. Bijaya Bhattacharya	Fluvial Dynamics and their impact on Land Use of Manu-Deo River Basin, Tripura	Awarded in 2014
3	Mrs. Mugdha Chakraborty	Flood Hazard: Its Causes, Consequences, Mitigation and Management in The Haora River Basin, West Tripura	Awarded in 2014
4	Mrs. Rina Rani Deb	Channel Shifting of The River Khowai at Baganbazar, Alepsha and Kanchanghat, West Tripura	Awarded in 2016
5	Ms. Moujuri Bhowmik	Fluvial Hazards and their impact on Socio-economic condition in West Tripura District	Awarded in 2017
6	Mrs. Sima Majumdar	Changes of drainage systems and their impact on land use between Barmura and Atharamura hill ranges, Tripura	Awarded in 2019
7	Istak Ahmed	Sedimentation Problem of Regulated Rivers and its impact on Geographical Environment: A Case Study of theGumti River, Tripura	Awarded in 2019
8	Mr. Jatan Debnath	A Geo-environmental Study on Land Use/Land Cover change in the Muhuri River Basin, Tripura, Northeast India	Awarded in 2019
9	Mrs. Jimmi Debbarma	Status of Ground Water Quality in Tripura: A Geographical Perspective	Awarded in 2022

10	Ms. Sudipta Pal	Assessment of Hydro-Morphological Parameters for the Management of Watershed: A case study of the Haora Drainage basin, Tripura	Successfully completed Pre-Ph.D. Public Seminar
11	Asif Iqbal Shah	Assessment of Flood Risk and related Mitigation Measures in the Jhelum River basin of the Kashmir Himalaya, India	Awarded in 2025

Scholarship/Award/Recognitions:

1. Expert member of Project selection Committee in the Department of Science and Technology (SERC Division), Govt. of India.
2. Chairperson of the Geography Text Book Writing Committee in the State Council of Educational Research and Training (SCERT), Govt. of Tripura.
3. Chairperson of the Syllabus Committee of the Tripura Board of Secondary Education, Govt. of Tripura.
4. Chairperson of the Syllabus Committee for Geography (IX-X-GT) of the Teachers' Recruitment Board of Tripura.
5. Chairperson of the Syllabus Committee for Geography (XI-XII-PGT) of the Teachers' Recruitment Board of Tripura.
6. Chairperson of the TPSC Syllabus Committee for Geography (TCS/TPS Grade-II)
7. Chairperson of the TPSC Syllabus Committee for Disaster Management (TCS/TPS Grade-II).
8. Conducted five-day Workshop on "Teaching Geography Practical in H.S. level (New Syllabus)" for the Post-graduate Teachers (PGT) of different Schools under TBSE from 29th November to 2nd December, 2016 in the Tripura Board of Secondary Education, Agartala and acted as Resource Person throughout the programme.
9. Chairperson, Board of Undergraduate Studies of Geography, Tripura University.
10. Chairperson, Board of Postgraduate Studies of Geography and Disaster Management, Tripura University.
11. Acted as Assistant Coordinator of Four-Year Integrated B.A./B.Sc. B.Ed. Course, Tripura University
12. Appointed as Nodal Officer for coordinating 'Know Your Rivers' campaign in Tripura University.
13. Member of the College Development Council (CDC), Tripura University.
14. Attached with various Commissions for strictly confidential work all over India.

Other Information (if any):