

Name: Dr. Jimmi Debbarma

Academic Qualifications: M.A, Ph.D

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Present Position/Designation: Assistant Professor

Topics taught: Environment and Ecosystem, Natural Resource Management, Soil and Biogeography, Hazard and Disaster Management, Geographical Information System, Applied Studies in Resource and Environment (Special paper)

Project Experience

1.	Name of post	Funding Agency	Amount	Title of Project	Status
	Principal Investigator	Ministry of Earth Sciences Govt. of India	1,09,69,275/-	Continuous measurements of Crustal deformation using GPS in the Tripura fold belt	Completed

Organizing Seminar/Conference/Workshop

1. Organizing Secretary of the 21st Indian Institute of Geomorphologists (IGI) Conference & National Seminar on “Geomorphic Hazards: Issues and Challenges” organized by the Department of Geography & Disaster Management, Tripura University from 28-30th November, 2008.
2. Organizing Secretary of the 33rd Annual Conference of The Institute of Indian Geographer’s (IIG) & International Seminar on Population, Development & Disaster Management organized by the Department of Geography & Disaster Management, Tripura University from 8th -11th February, 2012.
3. Co-Convener for the national webinar on "TRIPURA’S GROUNDWATER SCENARIO: FROM INFINITE TO FINITE" organized by Dept. of Geography & Disaster Management, Tripura University (A Central University) in collaboration with Indian National Committee of International Association of Hydrogeologists (INC-IAH) held on 21st March 2022.

**Papers Published in referred
journals having ISSN/UGC**

1. Debbarma, J., Martin, S.S., Suresh, G., Ahsan, A., and Gahlaut, V.K. (2017): Preliminary observations from the 3 January 2017, M_w 5.6 Manu, Tripura (India) earthquake. *Journal of Asian Earth Sciences*, 148, 173-180.
2. Debbarma, J., and Pan, N.D. (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*, 4(2), 39-48.
3. Debbarma, J., and Debnath, J. (2021): ASSESSMENT ON THE IMPACT OF THE TRIPURA EARTHQUAKE (JANUARY 3, 2017, $M_w = 5.6$) IN NORTHEAST INDIA. *Geographical Institute "Jovan Cvijić" SASA*, 71(1), 1-13.
4. Debbarma, J., and Pan, N.D. (2022): PRE-MONSOON AND POST-MONSOON GROUNDWATER QUALITY ANALYSIS OF TRIPURA USING MULTIVARIATE STATISTICS. *North Eastern Geographer*, 42(1&2), 91-103.
5. Debbarma, J., and Pan, N.D. (2023): Ground Water Potential Mapping of Tripura Using Analytical Hierarchy Process and GIS. *International Journal of Ecology and Environmental Sciences*, 49(6), 605-621.
6. Debbarma, J., and Pan, N.D. (2023): STATUS OF AVAILABILITY AND ACCESSIBILITY OF SAFE GROUNDWATER SOURCES IN TRIPURA. *The Indian Geographical Journal*, 98(1), 34-47.
7. Debbarma, J., and Chakma, R. (2024): Spatio-temporal Analysis of Land Surface Temperature in West Tripura District, India. *Asian Journal of Geographical Research*, 7(1), 161-175.
8. Debnath, J., Debbarma, J., Debnath, A., Meraj, G., Chand, K., Singh, S.K., Kanga, S., Kumar, P., Sahariah, D., and Saikia, A. (2024): Flood susceptibility assessment of the Agartala Urban Watershed, India, using Machine Learning Algorithm. *Environ Monit Assess*, 196(110), 1-21.
9. Debbarma, J., and Pan, N.D. (2024): Nature of Soil Permeability Study in Unconsolidated Sediment of Diverse Physiographic Settings of Tripura, India. *Geographical Review of India*, 86(1), 1-16.
10. Debbarma, J. (2024): Grain size characteristics of unconsolidated soil in the humid tropical region of Tripura. *Indian Journal of Soil Conservation*, 52(1), 40-45.
11. Baite, L., Bhattacharjee, N., Debbarma, J., and Saikia, A. (2024): Agricultural land suitability analysis in Manipur, India using GIS and AHP. *AUC Geographica*, 59(1), 93-107.

12. Debbarma, J. (2025): Assessment of Groundwater Prospects Using Electrical Resistivity in Different Physiographic Units of Tripura, North-East India. *The Deccan Geographer*, 63(3), 384-392.

13. Gogoi, P., and Debbarma, J. (2025): Assessing spatio-temporal patterns of urban growth using geospatial techniques: Kamrup Metropolitan district, Assam, India. *Asia-Pacific Journal of Regional Science*. <https://doi.org/10.1007/s41685-025-00384-8>.

**Seminars/Conference/Workshop/Orientation/Refresher Course etc.
Participated**

1. **9th International Geographical Union Conference** on Land use change, Climate Extremes and Disaster Risk Reduction organized by Shaheed Bhagat Singh College, University of Delhi held from 18th -20th March, 2016 and presented a paper on “Drinking water related Health effect in Hezamara Block, West Tripura”.

2. **33rd International Geographical Congress** organized by International Geographical Union (IGU) held from 21st-25th August, 2016 at Beijing, China and presented a paper on “A spatial study of access to safe Water and Sanitation condition and implication on Health in the Dhalai District of Tripura, India”.

3. **ISRO-sponsored NNRMS Course** on “Remote Sensing and Geographic Information System in Soils and Land Use Planning” at Indian Institute of Remote Sensing, Dehradun, from 1st May - 23rd June, 2017.

4. **40th Indian Geography Congress 2018**: National Association of Geographers, India on Climate Variability, Vulnerability and Resource Management Strategies for Sustainable Development and Geospatial Technologies organized by Department of Geography, Rajiv Gandhi University from 29-31, October, 2018 and presented a paper on “Grain size characteristics and nature of permeability in South Tripura: An experimental study.

5. **Faculty Development Course** on Science and Technology for Social Development organized by Faculty Development Centre, Tripura University held from 11th -25th September, 2019.

6. Attended a webinar on IGIS Geospatial Applications and CAD in the era of Modern Technology on 7th July, 2020 organized by Scanpoint Geomatics LTD. and Mizoram University, Aizawl.

7. Participated in one day national webinar on **Ancient and Traditional Water Management Systems in India** on 25th July, 2020 organized by Department of Geology, Government Institute of Science, Aurangabad, Maharashtra.

8. Participated in one day national webinar on **Application of Geospatial Technology in Geographical Studies** on 28th July, 2020 organized by Department of Geography, Moreshwar Arts, Science and Commerce College, Bhokardan District, Jalna, Maharashtra.

9. Participated in one day national online workshop on **Air Pollution Dispersion Modelling on 3rd October, 2020** organized by Department of Geography, Faculty of Arts, Mohanlal Sukhadia University, Udaipur, Rajasthan and the Geographical Information System Lab, Ahmedabad, Gujarat.
10. Attended a workshop on **Introduction to Python for GIS** from 10.08.2020 to 17.08.2020 organized by Pune University
11. Attended workshop on **Global Seismology & Tectonics from 14.08.2020 to 25.08.2020 organized by Geoscience and Technology Division, North East Institute of Science and Technology (CSIR), Jorhat, Assam.**
12. Participated in the e-training program on **Comprehensive Disaster Management** from 27th -29th October, 2020 organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India and SRM Institute of Science and Technology, Chennai.
13. Participated in one day national webinar on **Fostering of Human Values and Ethics Among the Youth on 29th October, 2020** organized by K.J. Somaiya College of Arts, Commerce & Science, Kopergaon, Ahmednagar, Maharashtra.
14. Attended online **FDP conducted by AICTE Training and Learning (ATAL) Academy online FDP in GIS & Remote Sensing** from 21.09.2020 to 25.09.2020 organized by Engineering College, Bikaner, Rajasthan
15. Presented a paper on A study on Seasonal variation in quality of groundwater in Tripura in International Conference on Sustainable Water Resources Management under Changed Climate during 13th -15th March, 2020 organized by **School of Water Resources Engineering, Jadavpur University in joint collaboration with Women's College Calcutta, Department of Geography and National Institute of Technology, Durgapur.**
16. Presented a paper on Application of Remote Sensing and GIS Technique in Groundwater Potential mapping of Tripura held from 26-28 November, 2020 in the **XVth DGSI International Geography Online Conference organized by Department of Geography, University of Allahabad.**
17. Presented a paper on Assessment of Groundwater Potential Using Electrical Resistivity in Some Areas of Tripura in the **IGU India International Conference (Virtual), 2020 on "Global to Local Sustainability and Future Earth"** during 18th -20th December, 2020 organized by the Department of Geography, MLSU, Udaipur, Rajasthan.
18. **International Geographical Union Thematic Conference, 2022 Sustainability, Future Earth and Humanities: Opportunities and Challenges** from 24th -25th November, 2022 organized by the Department of Geography, Central University of Haryana, Mahendragarh, India and presented a paper on **"Plant Diversity in an urban landscape of Agartala City, Tripura, India"**.

Invited Talks/Lectures

1. Delivered a lecture in the one day workshop on "Drinking water related health effects in Hezamara Block" organized by Ministry of water resources, river development, Ganga

Rejuvenation and Central Ground Water Board, North Eastern Region held on 19th February, 2016.

2. Delivered a lecture on “Disaster Management-Natural Calamities and Revival of Culture” organized by CCRT, Delhi held on 28th June, 2016.

3. Delivered a talk on “Exposure To Unsafe Drinking Water and Its Implications on Health-A Case Study of Tripura” organized by School of Public Health, SRM Institute of Science and Technology, Chennai, Tamil Nadu on 10th May, 2021

4. Invited speaker for the national webinar on "TRIPURA'S GROUNDWATER SCENARIO: FROM INFINITE TO FINITE" organized by Dept. of Geography & Disaster Management, Tripura University (A Central University) in collaboration with Indian National Committee of International Association of Hydrogeologists (INC-IAH) held on 21st March 2022.

**Membership of Learned Academic
Bodies/Organization**

1. Life member of Transaction “Journal of the Institution of Indian Geographers”, Department of Geography, University of Pune.
2. Life Member of Indian Society of Remote Sensing, IIRS.
3. Life member of Geographic “A Journal of Geography Association of Mizoram”.
4. Life Member of National Association of Geographers, India.
5. Life Member of North-East India Geographical Society.
6. Annual Member of Indian Geographical Society, Chennai.
7. Annual Member of Geographical Society of India, Kolkata.
8. Institute of Landscape, Ecology and Ekistics, Kolkata.