



ENLIGHTENMENT TO PERFECTION

UNIVERSITY OF NORTH BENGAL

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Raja Rammohunpur, Dist- Darjeeling, West Bengal, Pin-734013, India.

Department of Geography and Applied Geography

Print



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Ph.D

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Subject Specialization: Geomorphology, River basin management, Geo-environmental studies.

Areas of Research Interest: Geomorphology, River Basin Management, Soil erosion & Landslide study, Deforestation Related study, Climate related issues, Terrain sensitivity and Management, RS and GIS.

No. of Ph.D. students: (a) Supervised: 5 (b) Ongoing: 2

No. of M.Phil. students:(a) Supervised: Nil (b) Ongoing: 1

No. of Publications: (a) Journals: 39 (b) Book Chapter: 13

Achievement & Awards:

- Nil

Administrative Experiences:

- Organised National Seminar on “Conceptualizing women in Development” from March 28-29, 2011 as Joint Director.
- Organised UGC sponsored National Seminar on ‘Population Growth, Urbanization and Land Utilization 13-14 February, 2017 as Organising Secretary.
- Organized UGC sponsored national workshop from September 5-11, 2017 as Organizing Secretary.

Research Projects Completed:

- UGC Minor Research Project on “Landslide vulnerability zonation in the Kurseong hill subdivision of the Darjeeling District, West Bengal, India” F. No. 41-1415/2012(SR), dt. 30.07.2012, from 01.07.2012 to 30.06.2014.
- Co-investigator, Preparation of contour map for drainage management in English bazar municipality, Malda, Sponsored by Malda municipality, Malda, Govt. of West Bengal, Memo No. 2375/IV-2/11-12, dt. 07.02.2012.
- Co-investigator, UGC SAP DRS-I programme on Geo-hazards in Sub-Himalayan West Bengal, 2009-2014.

Research Projects Continuing:

- Co-investigator, UGC SAP DRS-II programme on Disaster Management with focus on Sub-Himalayan North Bengal, 2016-2021.

Selective List of Publications:

International Journals:

1. **2018:** Geomorphometric analysis and terrain evaluation for environmental management in the Kurseong hill subdivision of the Darjeeling district, West Bengal, India. **Environment, Development and Sustainability, Springer, Impact Factor: 1.379 (2017) ISSN 1387-585X, pp 1–32.** <https://doi.org/10.1007/s10668-018-0230-z>.
2. **2018:** Trend analysis of long-term climatic parameters in Dinhat of Koch Bihar district, West Bengal. **Spatial Information Research, Springer, https://doi.org/10.1007/s41324-018-0173-3, ISSN 2366-3286, pp. 1-10** (Second author in the joint paper with Jayanta Das).
3. **2017:** Modelling of alternative crops suitability to tobacco based on Analytical hierarchy process in Dinhat subdivision of Koch Bihar district, West Bengal. **Modeling Earth Systems and Environment, Springer, DOI 10.1007/s40808-017-0392-y, ISSN 2363-6203, 1-17** (4th author of the joint paper with Jayanta Das, Amiya Gayen, Sunil Saha).
4. **2017:** Assessment of water quality index (WQI) and suitability of Sagar Dighi, Koch Bihar, West Bengal, India. **International Journal of Pharmaceutics & Drug Analysis Vol.5, Issue 12 ISSN: 2348-8948, pp. 467 – 474** (2nd author of the joint paper with Abdul Miraj).
5. **2017:** Observation on the TDS and EC Values of Different Water Bodies at Cooch Behar, West Bengal, India. **International Journal of Theoretical & Applied Sciences, ISSN No. (Print): 0975-1718, ISSN No. (Online): 2249-3247, 9(2): 106-113.** (3rd author of the joint paper of Abdul Miraj, Supratim

Pal, Kaushik Chakraborty).

6. **2016:** A comparison of the predicted vulnerability zones with the data based on hazard zones of landslide in the Kurseong hill subdivision, Darjeeling district, West Bengal, India. **Environmental Earth Science, Springer; ISSN: 1866-6280 (Print) 1866-6299 (Online), DOI: 10.1007/s12665-016-5729-8, Volume 75, Issue 10, Article 923, Impact Factor: 1.765 (2016), pp 1-10.**
7. **2014:** A Calibration Technique for Better Estimation of Soil Loss in the Terai and Adjacent Hills of West Bengal, India. **Research Forum: International Journal of Social Sciences; ISSN: 2348 4411, Vol-2, Issue-3, pp 1-6.**
8. **2012:** Landslide disaster perception of the AILA cyclone in the Darjeeling town, West Bengal, India. **International Journal of Geomatics and Geosciences, ISSN 0976 – 4380, Vol 3, No 1:14-29.**
9. **1999:** A Constructive Approach to Landslides through Susceptibility Zoning and Case Study in the Rakti Basin of the Eastern Himalaya. **Transactions, Japanese Geomorphological Union, ISSN 0389 – 1755, Japan, 20(3):317-333.**

National Journals:

10. **2019:** A comparison of Men and Women undergraduate education status of the Scheduled Tribe population in Malda district, West Bengal. **MahilaPratishtha, Vol. 4:3, ISSN 2454-7891, UGC Approved journal no.63549, pp. 25-39** (Second author of the joint paper with Pronob Mandal).
11. **2018:** Tobacco cultivation: Time to ban its production in Dinhata subdivision of Koch Bihar district, West Bengal. **Research Directions, volume – 6, issue 1, UGC approved Journal no. 45489, ISSN: 2321-5488, pp. 1-10** (Second author in the joint paper with Jayanta Das).
12. **2018:** School Education Status of the Scheduled Tribe Population in Malda District, West Bengal. **ResearchersWorld-Journal of Arts, Science & Commerce, Vol.– IX, Special Issue –1, ISSN 2231-4172, pp. 54-72** (Second author of the joint paper with Pronob Mandal).
13. **2018:** Professional and Technical Education Scenario of the Scheduled Tribe Population in Malda District, West Bengal. **ResearchersWorld-Journal of Arts, Science & Commerce, <http://dx.doi.org/10.18843/rwjasc/v9i2/16>, Vol. – IX, Issue – 2, E-ISSN 2229-4686, ISSN 2231-4172, pp. 124-131** (Second author of the joint paper with Pronob Mandal) .
14. **2017:** A comprehensive analysis of Primary education scenario of the Scheduled Tribe population in the Malda district, West Bengal. **Indian Journal of Landscape System and Ecological Studies, ISSN 0971-4170, Vol 40:2, pp, 104-120.** (Second author in the joint paper with Pronob Mandal).
15. **2017:** Changing trends of some bio-physico-chemical characteristics of Sagardighi of Cooch Behar, West Bengal, India. **Journal of Indian Research (ISSN: 2321-4155), Vol.5, No.3, pp. 79-94** (Second author in the joint paper with Abdul Miraj).
16. **2017:** Apedo-geomorphic study of Landuse on Alluvial Fans of Terai Region, West Bengal, India. **Wesleyan Journal of Research, Vol. 10:1, ISSN: 0975-1386, pp. 64-70.** (Second author in the joint paper with ShuvankarKar).
17. **2017:** Higher education status of the Scheduled Tribes Population in Malda District, West Bengal. **Indian Journal of Landscape System and Ecological Studies, ISSN 0971-4170, Vol 40:1, pp, 95-107.** (Second author in the joint paper with Pronob Mandal).
18. **2017:** Urbanization and sustainable development: An environmental study of in Cooch Behar town, West Bengal, India. **Indian Journal of Landscape System and Ecological Studies, ISSN 0971-4170, Vol 40:1, pp. 115-125.** (Second author in the joint paper with Sankar Biswas).
19. **2016:** Geomorphometric analysis of the Jainti river basin by using digital elevation data in West Bengal, India. **Hill Geographer, ISSN 0970-5023, Vol 32:2, pp. 1-15.**
20. **2016:** Profitable and viable alternative to tobacco crop in Dinhata subdivision of Koch Behar district, West Bengal. **Indian Journal of Landscape System and Ecological Studies, ISSN 0971-4170, Vol 39:2, pp. 70-88.** (Second author in the joint paper with Jayanta Das).
21. **2016:** Quality of life of the women workers vis a vis the positional status of the tea gardens in the Darjeeling Hills, West Bengal, India. **Geographical Thoughts, ISSN 2229 - 466X, N.B.U. Vol 14, pp. 84-89.** (First author in the joint paper with Sreyashi Ganguli).
22. **2015:** Some Physico-Cultural Aspects and their Impact on Terrain Characteristics of the Kurseong Hills in Darjeeling Himalaya, West Bengal. **Geographical Thoughts, ISSN 2229 - 466X, N.B.U. Vol. 13, pp. 65-77.**
23. **2014:** A study on the changes of the lower courses of the Rakti River System in West Bengal. **Geographical Thoughts, ISSN 2229 - 466X, N.B.U., Siliguri, Vol- 12:38-44.**
24. **2013:** The Study of Paglajhora Landslide in the Darjeeling Hills, West Bengal, India. **Indian Journal of Spatial Science, EISSN: 2249 - 4316 ISSN: 2249 – 3921, Vol - 4.0 No. 1 Summer Issue, pp. 21 – 27.**
25. **2013:** Landslides and their control in the Darjeeling Hills of West Bengal. **Geographical Thoughts, ISSN 2229 - 466X, N.B.U., Siliguri, Vol-11: 49-57.**
26. **2012:** The Depletion of forest cover, its impact and some strategies for conservation in the Terai plains and adjacent hills in the Darjeeling district, West Bengal. **Journal of Geo-Environment Observer, ISSN 2277-6141, September Vol.1, No. 2: 13-23.**
27. **2012:** Rainfall Variability analysis of the Darjeeling Hills and Plains in West Bengal, India. **Geographical Thoughts, ISSN 2229 - 466X, N.B.U., Siliguri, Vol.10:71-74.**
28. **2012:** Zonation mapping techniques of the landslide hazard in Darjeeling Hills, West Bengal, India. **Geo-Analyst, ISSN 2249-2909, Vol 2. No. 1: 12-17.**
29. **2011:** A comparison between the climatic characteristics of the Terai plains and the adjacent hills in Darjeeling district, West Bengal, India. **Geographical Thoughts, ISSN 2229 - 466X, N.B.U., Siliguri, and Vol.9:55-59.**
30. **2010:** Terrain evaluation in the Rakti-subcatchment in North Bengal, India. **Geographical Thoughts, ISSN 2229 - 466X, N.B.U., Siliguri, 8:17-22.**
31. **2009:** Effect of deforestation on rainfall and runoff over the Terai and adjacent Hills in the Darjeeling district, West Bengal, India. **Geographical Review of India, R. N. 13833/57 ISSN 0375-6386, Kolkata, 71, No. 2: 130-136.**
32. **2009:** Erosion management in the Terai and adjacent Hills of North Bengal, India. **Geographical Thoughts, ISSN 2229 - 466X, N.B.U., Siliguri, 7:36-41.**
33. **2008:** Water scarcity in Darjeeling Hills – some measures for its mitigation. **Geographical Thoughts, ISSN 2229 - 466X, N.B.U., Siliguri, 6:47-51.**
34. **2003-2004:** Landuse Planning and Management by Geomorphological Study in the Rakti Basin of Darjeeling District, West Bengal, India. **Indian Journal of Geography and Environment, ISSN 0972 – 7388, Medinipur, Vol. 8 & 9:64-70.**
35. **1997:** Erosion Assessment of the Rakti Basin in the Darjeeling Himalaya. **Indian Journal of Soil Conservation, ISSN 0970 – 3349, Dehradun, 25(3):173-176.**
36. **1996:** The Assessment of Forest Depletion and its Conservation Measures of the Rakti Basin in Darjeeling. **Science and Culture (Special Issue on Environment), Reg. No. WB/Ec. 11, ISSN 0036 8156, Calcutta, 62(5-6):117-125.**
37. **1996:** Determination of Landslide Susceptible Zones and their Suitable Conservation Measures of the Rakti Basin in the Darjeeling Himalaya, **Indian Journal of Power and River Valley Development, ISSN 0019 – 5537, Calcutta, Vol 1& 2:15-18.**
38. **1993:** Comparative Analysis for the Estimation of R Factor of USLE - A Case Study on the Rakti River Basin in Darjeeling. **Indian Journal of Soil Conservation, ISSN 0970 – 3349, Dehradun, 21(1):29-36.**
39. **1992:** The Soil Water Potentiality- A case Study in the Rakti River Basin of the Darjeeling Himalaya. **Indian Journal of Landscape System and Ecological Studies, ISSN 0971 – 4170, Calcutta, 15 (1):117-122.**

Publication in Books/Chapters:

40. **2018:** Causes, consequences and management of water logging: a case study of Jalpaiguri Municipality, West Bengal, India. **Disaster Management in Sub-Himalayan North Bengal. ISBN 978-81-921692-9-3, edited by S. Sarkar, SAP-DRS II (Monograph 1), Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur, pp.78-92.** (Second author of the joint paper with ShuvankarKar).

41. **2017:** Application of Remote Sensing and GIS in Wetland Management: A case study of Koch Bihar District, West Bengal. **Remote Sensing and GIS on Environmental Management**, edited by D. K. Mandal (Seminar Volume), Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur, ISBN 978-81-921692-8-6, pp. 28-39. (First author in joint paper with Abdul Miraj).
42. **2017:** Perception of farmers towards alternative crops to Tobacco cultivation. **Population Growth, Urbanization and Land Utilization**, edited by Indira Lepcha nee Lama (Seminar Volume) Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur, ISBN 978-81-921692-5-5. (Second author in the joint paper with Jayanta Das).
43. **2017:** Urbanization: Emergence and issues. **Population Growth, Urbanization and Land Utilization**, edited by Indira Lepcha nee Lama (Seminar Volume) Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur, ISBN 978-81-921692-5-5. (Second author in the joint paper with Sankar Biswas).
44. **2015:** Role of human interferences in the landslide susceptibility zonation of the Darjeeling hills, West Bengal. **Application of Geospatial technology for sustainable development** ISBN 978-81-921692-7-9, edited by D. K. Mandal (Seminar Volume), Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur, pp. 118-124.
45. **2015:** Evaluation of soil fertility status in Dinhata Subdivision of Koch Bihar District, West Bengal. **Application of Geospatial technology for sustainable development** ISBN 978-81-921692-7-9, edited by D. K. Mandal (Seminar Volume), Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur, pp. 91-106. (Second author in joint paper with J. Das).
46. **2014:** Landslide susceptibility zonation in the Rakti Sub-Catchment of the Darjeeling Himalaya. **Living with Hazards**, ISBN 978-81-921692-6-2, edited by S. Sarkar, SAP-DRS I (Monograph 3), Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur, pp. 49-66. (First Author in Joint paper with Debarshi Ghosh).
47. **2013:** The study of landslide hazard at Frimal Village in the Darjeeling town, West Bengal. **Sustainable Livelihood, Environment and Development**, ISBN 978-81-921692-4-8, edited by Sushma Rohatgi (Seminar volume), Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur, pp. 99-106.
48. **2012:** Correlation study of the Landslide Susceptibility parameters with Landslide Hazard Zones in the Darjeeling Hills of West Bengal. **Mapping Hazards and Disasters**, ISBN 978-81-921692-3-1, edited by S. Sarkar, SAP-DRS I (Monograph 3), Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur, pp. 197-204.
49. **2011:** Landslide hazard zonation mapping with special reference to the Darjeeling hills, West Bengal. **Disaster: Perception and Mitigation**, ISBN 978-81-921692-1-7, edited by S. Sarkar, SAP-DRS I (Monograph 2), Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur, pp. 88-95.
50. **2010:** The study of some Aila induced Landslides in the Darjeeling Hills, West Bengal, India. **Geo-Hazards in Sub-Himalayan North Bengal**, ISBN 978-81-921692-0-0, edited by S. Sarkar, SAP-DRS I (Monograph 1), Dept. of Geography and Appl. Geo., Registrar, University of North Bengal, Rajarammohunpur: 70-75.
51. **2004:** Assessment of Soil Erosion and Strategies for its Conservation in the Western Terai and Adjacent Hills of the Eastern Himalayas. **Geomorphology and Environment**, ISBN 81-87500-19-0, Edited by Savindra Singh et.al. acb Publications, Calcutta: 195-203.
52. **2002:** Tindharia Cricket Colony Landslide in Darjeeling Hills- A Comparative Account, 1996 and 2001. **Changing Environmental Scenario of the Indian Subcontinent**, ISBN 81-87500-08-5 (PB), ISBN 8187500-09-3 (HB), Edited by Subhashranjan Basu, acb publication, Calcutta: 400-405.